Geotech

GAMMA - GAMMA - RESISTIVITY
TOTAL COUNT - DENSITY
DDH-TR-2006-1

Geotech Drilling Services Ltd.
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Stratford, Ontario
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Tel: (519) 271-7726
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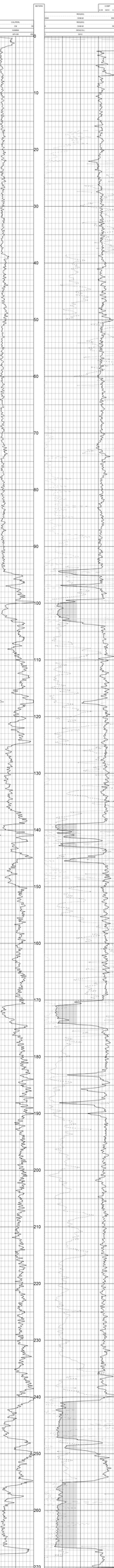
Client: Cameco Corporation
Project: Cigar Lake
Location: Saskatchewan
Hole No.: DDH-TR-2006-1
Date: 06/29/06
Logged By: Geotech
Drilled By: Cameco
Hole Size: 76 mm
Collar Elevation: 0 m
Collar Location: Underground
Dip: 0
Azimuth: 0
Logging Method: Downhole
Comments: Gamma Calibration Factor: 1.0000

100CM LOG, GAMMA-RES-DENSITY DDHTR-2006-1 06/29/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 DELTRHO MATRIX: 0.04 DEFDTRHO MATRIX: 0.04
MAGNETIC DECL.: 0° ELECT. CUTOFF: 0.0000 MT SATE: 4.66
PRESENTATION HARDWARE: DGM / RES2 INTERP: DGM



100CM LOG, GAMMA-RES-DENSITY DDHTR-2006-1 06/29/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 DELTRHO MATRIX: 0.04 DEFDTRHO MATRIX: 0.04
MAGNETIC DECL.: 0° ELECT. CUTOFF: 0.0000 MT SATE: 4.66
PRESENTATION HARDWARE: DGM / RES2 INTERP: DGM

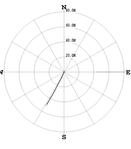
TOTAL COUNTS FOR DDH-TR-2006-1 DEDIR 14.47
TOTAL RUNS: 1 TOTAL DEPTH: 277.0
TOTAL FOOTAGE: 277.0

	FILE NO.	TIME	DEVIATION	STRAIGHT		DEVIATION
1	Pulse000	10:18:00	0.0000	0.00	0.00	0.00
2	Pulse001	10:19:00	0.0000	0.00	0.00	0.00
3	Pulse002	10:20:00	0.0000	0.00	0.00	0.00
4	Pulse003	10:21:00	0.0000	0.00	0.00	0.00
5	Pulse004	10:22:00	0.0000	0.00	0.00	0.00
6	Pulse005	10:23:00	0.0000	0.00	0.00	0.00
7	Pulse006	10:24:00	0.0000	0.00	0.00	0.00
8	Pulse007	10:25:00	0.0000	0.00	0.00	0.00
9	Pulse008	10:26:00	0.0000	0.00	0.00	0.00
10	Pulse009	10:27:00	0.0000	0.00	0.00	0.00
11	Pulse010	10:28:00	0.0000	0.00	0.00	0.00
12	Pulse011	10:29:00	0.0000	0.00	0.00	0.00
13	Pulse012	10:30:00	0.0000	0.00	0.00	0.00
14	Pulse013	10:31:00	0.0000	0.00	0.00	0.00
15	Pulse014	10:32:00	0.0000	0.00	0.00	0.00
16	Pulse015	10:33:00	0.0000	0.00	0.00	0.00
17	Pulse016	10:34:00	0.0000	0.00	0.00	0.00
18	Pulse017	10:35:00	0.0000	0.00	0.00	0.00
19	Pulse018	10:36:00	0.0000	0.00	0.00	0.00
20	Pulse019	10:37:00	0.0000	0.00	0.00	0.00
21	Pulse020	10:38:00	0.0000	0.00	0.00	0.00
22	Pulse021	10:39:00	0.0000	0.00	0.00	0.00
23	Pulse022	10:40:00	0.0000	0.00	0.00	0.00
24	Pulse023	10:41:00	0.0000	0.00	0.00	0.00
25	Pulse024	10:42:00	0.0000	0.00	0.00	0.00
26	Pulse025	10:43:00	0.0000	0.00	0.00	0.00
27	Pulse026	10:44:00	0.0000	0.00	0.00	0.00
28	Pulse027	10:45:00	0.0000	0.00	0.00	0.00
29	Pulse028	10:46:00	0.0000	0.00	0.00	0.00
30	Pulse029	10:47:00	0.0000	0.00	0.00	0.00
31	Pulse030	10:48:00	0.0000	0.00	0.00	0.00
32	Pulse031	10:49:00	0.0000	0.00	0.00	0.00
33	Pulse032	10:50:00	0.0000	0.00	0.00	0.00
34	Pulse033	10:51:00	0.0000	0.00	0.00	0.00
35	Pulse034	10:52:00	0.0000	0.00	0.00	0.00
36	Pulse035	10:53:00	0.0000	0.00	0.00	0.00
37	Pulse036	10:54:00	0.0000	0.00	0.00	0.00
38	Pulse037	10:55:00	0.0000	0.00	0.00	0.00
39	Pulse038	10:56:00	0.0000	0.00	0.00	0.00
40	Pulse039	10:57:00	0.0000	0.00	0.00	0.00
41	Pulse040	10:58:00	0.0000	0.00	0.00	0.00
42	Pulse041	10:59:00	0.0000	0.00	0.00	0.00
43	Pulse042	11:00:00	0.0000	0.00	0.00	0.00
44	Pulse043	11:01:00	0.0000	0.00	0.00	0.00
45	Pulse044	11:02:00	0.0000	0.00	0.00	0.00
46	Pulse045	11:03:00	0.0000	0.00	0.00	0.00
47	Pulse046	11:04:00	0.0000	0.00	0.00	0.00
48	Pulse047	11:05:00	0.0000	0.00	0.00	0.00
49	Pulse048	11:06:00	0.0000	0.00	0.00	0.00
50	Pulse049	11:07:00	0.0000	0.00	0.00	0.00
51	Pulse050	11:08:00	0.0000	0.00	0.00	0.00
52	Pulse051	11:09:00	0.0000	0.00	0.00	0.00
53	Pulse052	11:10:00	0.0000	0.00	0.00	0.00
54	Pulse053	11:11:00	0.0000	0.00	0.00	0.00
55	Pulse054	11:12:00	0.0000	0.00	0.00	0.00
56	Pulse055	11:13:00	0.0000	0.00	0.00	0.00
57	Pulse056	11:14:00	0.0000	0.00	0.00	0.00
58	Pulse057	11:15:00	0.0000	0.00	0.00	0.00
59	Pulse058	11:16:00	0.0000	0.00	0.00	0.00
60	Pulse059	11:17:00	0.0000	0.00	0.00	0.00
61	Pulse060	11:18:00	0.0000	0.00	0.00	0.00
62	Pulse061	11:19:00	0.0000	0.00	0.00	0.00
63	Pulse062	11:20:00	0.0000	0.00	0.00	0.00
64	Pulse063	11:21:00	0.0000	0.00	0.00	0.00
65	Pulse064	11:22:00	0.0000	0.00	0.00	0.00
66	Pulse065	11:23:00	0.0000	0.00	0.00	0.00
67	Pulse066	11:24:00	0.0000	0.00	0.00	0.00
68	Pulse067	11:25:00	0.0000	0.00	0.00	0.00
69	Pulse068	11:26:00	0.0000	0.00	0.00	0.00
70	Pulse069	11:27:00	0.0000	0.00	0.00	0.00
71	Pulse070	11:28:00	0.0000	0.00	0.00	0.00
72	Pulse071	11:29:00	0.0000	0.00	0.00	0.00
73	Pulse072	11:30:00	0.0000	0.00	0.00	0.00
74	Pulse073	11:31:00	0.0000	0.00	0.00	0.00
75	Pulse074	11:32:00	0.0000	0.00	0.00	0.00
76	Pulse075	11:33:00	0.0000	0.00	0.00	0.00
77	Pulse076	11:34:00	0.0000	0.00	0.00	0.00
78	Pulse077	11:35:00	0.0000	0.00	0.00	0.00
79	Pulse078	11:36:00	0.0000	0.00	0.00	0.00
80	Pulse079	11:37:00	0.0000	0.00	0.00	0.00
81	Pulse080	11:38:00	0.0000	0.00	0.00	0.00
82	Pulse081	11:39:00	0.0000	0.00	0.00	0.00
83	Pulse082	11:40:00	0.0000	0.00	0.00	0.00
84	Pulse083	11:41:00	0.0000	0.00	0.00	0.00
85	Pulse084	11:42:00	0.0000	0.00	0.00	0.00
86	Pulse085	11:43:00	0.0000	0.00	0.00	0.00
87	Pulse086	11:44:00	0.0000	0.00	0.00	0.00
88	Pulse087	11:45:00	0.0000	0.00	0.00	0.00
89	Pulse088	11:46:00	0.0000	0.00	0.00	0.00
90	Pulse089	11:47:00	0.0000	0.00	0.00	0.00
91	Pulse090	11:48:00	0.0000	0.00	0.00	0.00
92	Pulse091	11:49:00	0.0000	0.00	0.00	0.00
93	Pulse092	11:50:00	0.0000	0.00	0.00	0.00
94	Pulse093	11:51:00	0.0000	0.00	0.00	0.00
95	Pulse094	11:52:00	0.0000	0.00	0.00	0.00
96	Pulse095	11:53:00	0.0000	0.00	0.00	0.00
97	Pulse096	11:54:00	0.0000	0.00	0.00	0.00
98	Pulse097	11:55:00	0.0000	0.00	0.00	0.00
99	Pulse098	11:56:00	0.0000	0.00	0.00	0.00
100	Pulse099	11:57:00	0.0000	0.00	0.00	0.00
101	Pulse100	11:58:00	0.0000	0.00	0.00	0.00
102	Pulse101	11:59:00	0.0000	0.00	0.00	0.00
103	Pulse102	12:00:00	0.0000	0.00	0.00	0.00
104	Pulse103	12:01:00	0.0000	0.00	0.00	0.00
105	Pulse104	12:02:00	0.0000	0.00	0.00	0.00
106	Pulse105	12:03:00	0.0000	0.00	0.00	0.00
107	Pulse106	12:04:00	0.0000	0.00	0.00	0.00
108	Pulse107	12:05:00	0.0000	0.00	0.00	0.00
109	Pulse108	12:06:00	0.0000	0.00	0.00	0.00
110	Pulse109	12:07:00	0.0000	0.00	0.00	0.00
111	Pulse110	12:08:00	0.0000	0.00	0.00	0.00
112	Pulse111	12:09:00	0.0000	0.00	0.00	0.00
113	Pulse112	12:10:00	0.0000	0.00	0.00	0.00
114	Pulse113	12:11:00	0.0000	0.00	0.00	0.00
115	Pulse114	12:12:00	0.0000	0.00	0.00	0.00
116	Pulse115	12:13:00	0.0000	0.00	0.00	0.00
117	Pulse116	12:14:00	0.0000	0.00	0.00	0.00
118	Pulse117	12:15:00	0.0000	0.00	0.00	0.00
119	Pulse118	12:16:00	0.0000	0.00	0.00	0.00
120	Pulse119	12:17:00	0.0000	0.00	0.00	0.00
121	Pulse120	12:18:00	0.0000	0.00	0.00	0.00
122	Pulse121	12:19:00	0.0000	0.00	0.00	0.00
123	Pulse122	12:20:00	0.0000	0.00	0.00	0.00
124	Pulse123	12:21:00	0.0000	0.00	0.00	0.00
125	Pulse124	12:22:00	0.0000	0.00	0.00	0.00
126	Pulse125	12:23:00	0.0000	0.00	0.00	0.00
127	Pulse126	12:24:00	0.0000	0.00	0.00	0.00
128	Pulse127	12:25:00	0.0000	0.00	0.00	0.00
129	Pulse128	12:26:00	0.0000	0.00	0.00	0.00
130	Pulse129	12:27:00	0.0000	0.00	0.00	0.00
131	Pulse130	12:28:00	0.0000	0.00	0.00	0.00
132	Pulse131	12:29:00	0.0000	0.00	0.00	0.00
133	Pulse132	12:30:00	0.0000	0.00	0.00	0.00
134	Pulse133	12:31:00	0.0000	0.00	0.00	0.00
135	Pulse134	12:32:00	0.0000	0.00	0.00	0.00
136	Pulse135	12:33:00	0.0000	0.00	0.00	0.00
137	Pulse136	12:34:00	0.0000	0.00	0.00	0.00
138	Pulse137	12:35:00	0.0000	0.00	0.00	0.00
139	Pulse138	12:36:00	0.0000	0.00	0.00	0.00
140	Pulse139	12:37:00	0.0000	0.00	0.00	0.00
141	Pulse140	12:38:00	0.0000	0.00	0.00	0.00
142	Pulse141	12:39:00	0.0000	0.00	0.00	0.00
143	Pulse142	12:40:00	0.0000	0.00	0.00	0.00
144	Pulse143	12:41:00	0.0000	0.00	0.00	0.00
145	Pulse144	12:42:00	0.0000	0.00	0.00	0.00
146	Pulse145	12:43:00	0.0000	0.00	0.00	0.00
147	Pulse146	12:44:00	0.0000	0.00	0.00	0.00
148	Pulse147	12:45:00	0.0000	0.00	0.00	0.00
149	Pulse148	12:46:00	0.0000	0.00	0.00	0.00
150	Pulse149	12:47:00	0.0000	0.00	0.00	0.00
151	Pulse150	12:48:00	0.0000	0.00	0.00	0.00
152	Pulse151	12:49:00	0.0000	0.00	0.00	0.00
153	Pulse152	12:50:00	0.0000	0.00	0.00	0.00
154	Pulse153	12:51:00	0.0000	0.00	0.00	0.00
155	Pulse154	12:52:00	0.0000	0.00	0.00	0.00
156	Pulse155	12:53:00	0.0000	0.00	0.00	0.00
157	Pulse156	12:54:00	0.0000	0.00	0.00	0.00
158	Pulse157	12:55:00	0.0000	0.00	0.00	0.00
159	Pulse158	12:56:00	0.0000	0.00	0.00	0.00
160	Pulse159	12:57:00	0.0000	0.00	0.00	0.00
161	Pulse160	12:58:00	0.0000	0.00	0.00	0.00
162	Pulse161	12:59:00	0.0000	0.00	0.00	0.00
163	Pulse162	13:00:00	0.0000	0.00	0.00	0.00
164	Pulse163	13:01:00	0.0000	0.00	0.00	0.00
165	Pulse164	13:02:00	0.0000	0.00	0.00	0.00
166	Pulse165	13:03:00	0.0000	0.00	0.00	0.00
167	Pulse166	13:04:00	0.0000	0.00	0.00	0.00
168	Pulse167	13:05:00	0.0000	0.00	0.00	0.00
169	Pulse168	13:06:00	0.0000	0.00	0.00	0.00
170	Pulse169	13:07:00	0.0000	0.00	0.00	0.00
171	Pulse170	13:08:00	0.0000	0.00	0.00	0.00
172	Pulse171	13:09:00	0.0000	0.00	0.00	0.00
173	Pulse172	13:10:00	0.0000	0.00	0.00	0.00
174	Pulse173	13:11:00	0.0000	0.00	0.00	0.00
175	Pulse174	13:12:00	0.0000	0.00	0.00	0.00
176	Pulse175	13:13:00	0.0000	0.00	0.00	0.00
177	Pulse176	13:14:00	0.0000	0.00	0.00	0.00
178	Pulse177	13:15:00	0.0000	0.00	0.00	0.00
179	Pulse178	13:16:00	0.0000	0.00	0.00	0.00
180	Pulse179	13:17:00	0.0000	0.00	0.00	0.00
181	Pulse180	13:18:00	0.0000	0.00	0.00	0.00
182	Pulse181	13:19:00	0.0000	0.00	0.00	0.00
183	Pulse182	13:20:00	0.0000	0.00	0.00	0.00
184	Pulse183	13:21:00	0.0000	0.00	0.00	0.00
185	Pulse184	13:22:00	0.0000	0.00	0.00	0.00
186	Pulse185	13:23:00	0.0000	0.00	0.00	0.00
187	Pulse186	13:24:00	0.0000	0.00	0.00	0.00
188	Pulse187	13:25:00	0.0000	0.00	0.00	0.00
189	Pulse188	13:26:00	0.0000	0.00	0.00	0.00
190	Pulse189	13:27:00	0.0000	0.00	0.00	0.00
191	Pulse190	13:28:00	0.0000	0.00	0.00	0.00
192	Pulse191	13:29:00	0.0000	0.00	0.00	0.00
193	Pulse192	13:30:00	0.0000	0.00	0.00	0.00
194	Pulse193	13:31:00	0.0000	0.00	0.00	0.00
195	Pulse194	13:32:00	0.0000	0.00	0.00	0.00
196	Pulse195	13:33:00	0.0000	0.00	0.00	0.00
197	Pulse196	13:34:00	0.0000	0.00	0.00	0.00
198	Pulse197	13:35:00	0.0000	0.00	0.00	0.00
199	Pulse198	13:36:00	0.0000	0.00	0.00	0.00
200	Pulse199	13:37:00	0.0000	0.00	0.00	0.00
201	Pulse200	13:38:00	0.0000	0.00	0.00	0.00
202	Pulse201	13:39:00	0.0000	0.00	0.00	0.00
203	Pulse202	13:40:00	0.0000	0.00	0.00	0.00
204	Pulse203	13:41:00	0.0000	0.00	0.00	0.00
205	Pulse204	13:42:00	0.0000	0.00	0.00	0.00
206	Pulse205	13:43:00	0.0000	0.00	0.00	0.00
207	Pulse206	13:44:00	0.0000	0.00	0.00	0.00
208	Pulse207	13:45:00	0.0000	0.00	0.00	0.00
209	Pulse208	13:46:00	0.0000	0.00	0.00	0.00
210	Pulse209	13:47:00	0.0000	0.00	0.00	0.00
211	Pulse210	13:48:00	0.0000	0.00	0.00	0.00
212	Pulse211	13:49:00	0.0000	0.00	0.00	0.00
213	Pulse212	13:50:00	0.0000	0.00	0.00	0.00
214	Pulse213	13:51:00	0.0000	0.00	0.00	0.00
215	Pulse214	13:52:00	0.0000	0.00	0.00	0.00
216	Pulse215	13:53:00	0.0000	0.00	0.00	0.00
217	Pulse216	13:54:00	0.0000	0.00	0.00	0.00
218	Pulse217	13:55:00	0.0000	0.00	0.00	0.00
219	Pulse218	13:56:00	0.0000	0.00	0.00	0.00
220	Pulse219	13:57:00	0.0000	0.00	0.00	0.00
221	Pulse220	13:58:00	0.0000	0.00	0.00	0.00
222	Pulse221	13:59:00	0.0000	0.00	0.00	0.00
223	Pulse222	14:00:00	0.0000	0.00	0.00	0.00
224	Pulse223	14:01:00	0.0000	0.00	0.00	0.00
225	Pulse224	14:02:00	0.0000	0.00	0.00	0.00
226	Pulse225	14:03:00	0.0000	0.00	0.00	0.00
227	Pulse226	14:04:00	0.0000	0.00	0.00	0.00
228	Pulse227	14:05:00	0.0000	0.00	0.00	0.00
229	Pulse228	14:06:00	0.0000	0.00	0.00	0.00
230	Pulse229	14:07:00	0.0000	0.00	0.00	0.00
231	Pulse230	14:08:00	0.0000	0.00	0.00	0.00
232	Pulse231	14:09:00	0.0000	0.00	0.00	0.00
233	Pulse232	14:10:00	0.0000	0.00	0.00	0.00
234	Pulse233	14:11:00	0.0000	0.00	0.00	0.00
235	Pulse234	14:12:00	0.0000	0.00	0.00	0.00
236	Pulse235	14:13:00	0.0000	0.00	0.00	0.00
237	Pulse236	14:14:00	0.0000	0.00	0.00	0.00
238	Pulse237	14:15:00	0.0000	0.00	0.00	0.00
239	Pulse238	14:16:00	0.0000	0.00	0.00	0.00
240	Pulse239	14:17:00	0.0000	0.00	0.00	0.00
241	Pulse240	14:18:00	0.0000	0.00	0.00	0.00
242	Pulse241	14:19:00	0.0000	0.00	0.00	0.00
243	Pulse242	14:20:00	0.0000	0.00	0.00	0.00
244	Pulse243	14:21:00	0.0000	0.00	0.00	0.00
245	Pulse244	14:22:00	0.0000	0.00	0.00	0.00
246	Pulse245	14:23:00	0.0000	0.00	0.00	0.00
247	Pulse246	14:24:00	0.0000	0.00	0.00	0.00
248	Pulse247	14:25:00	0.0000	0.00	0.00	0.00
249	Pulse248	14:26:00	0.0000	0.00	0.00	0.00
250	Pulse249	14:27:00	0.0000	0.00	0.00	0.00
251	Pulse250	14:28:00	0.0000	0.00	0.00	0.00
252	Pulse251	14:29:00	0.0000	0.00	0.00	0.00
253	Pulse252	14:30:00	0.0000	0.00	0.00	0.00
254	Pulse253	14:31:00	0.0000	0.00	0.00	0.00
255	Pulse254	14:32:00	0.0000	0.00	0.00	0.00
256	Pulse255	14:33:00	0.0000	0.00	0.00	0.00
257	Pulse256	14:34:00	0.0000	0.00	0.00	0.00
258	Pulse257	14:35:00	0.0000	0.00	0.00	0.00
259	Pulse258	14:36:00	0.0000	0.00	0.00	0.00
260	Pulse259	14:37:00	0.0000	0.00	0.00	0.00
261	Pulse260	14:38:00	0.0000	0.00	0.00	0.00
262	Pulse261	14:39:00	0.0000	0.00	0.00	0.00
263	Pulse262	14:40:00	0.0000	0.00	0.00	0.00
264	Pulse263	14:41:00	0.0000	0.00	0.00	0.00
265	Pulse264	14:42:00	0.0000	0.00	0.00	0.00
266	Pulse265	14:43:00	0.0000	0.00	0.00	0.00
267	Pulse266	14:44:00	0.0000	0.00	0.00	0.00
268	Pulse267	14:45:00	0.0000	0.00	0.00	0.00
269	Pulse268	14:46:00	0.0000	0.00	0.00	0.00
270	Pulse269	14:47:00	0.0000	0.00	0.00	0.00
271	Pulse270	14:48:00	0.0000	0.00	0.00	0.00
272	Pulse271	14:49:00	0.0000	0.00	0.00	0.00
273	Pulse272	14:50:00	0.0000	0.00	0.00	0.00
274	Pulse273	14:51:00	0.0000	0.00	0.00	0.00
275	Pulse274	14:52:00	0.0000	0.00	0.00	0.00
276	Pulse275	14:53:00	0.0000	0.00	0.00	0.00
277	Pulse276	14:54:00	0.0000	0.00	0.00	0.00

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: BUNNY MTN
HOLE ID: DDMTN-2004-1
DATE OF LOG: 06/15/04
DRAWN: WILLA - DM

SCALE: 10 M/CM
TOTAL DEPTH: 205.10 M
AZIMUTH: 258.1
DIP: -45.0 TO -45.0
X-Y: 50 M/DIV
+ = BOTTOM OF HOLE



Baker Hughes INTEQ

DIPMETER
DCHTR-2006-1

Date: 08/29/06
Time: 15:00
Depth: 0 - 2500
Scale: 1 : 100
Version: 1.0

Company: Baker Hughes INTEQ
Contractor: Baker Hughes INTEQ
Rig: Land Rig
Well: DCHTR-2006-1
Field: Dachtr
Region: Kurdistan
Country: Iraq
Surface Location: Dachtr
Latitude: 36.7 N
Longitude: 43.1 E
Elevation: 0 m
Datum: WGS 84

Tool Type: Dipmeter
Tool Number: 1
Serial Number: 1
Hole Size: 8.5 in
Mud Type: Water Based
Mud Density: 1.08 g/cm³
Mud Viscosity: 35 cp
Mud Resistivity: 0.1 Ohm-m
Mud Temperature: 25 °C
Max Temperature: 100 °C
Max Pressure: 1000 psi
Max Deviation: 60 °
Max Dogleg: 10 °/30m
Max Speed: 1000 m/h
Sensor Offset: 0.00 in
Sensor Azimuth: 0.00 °
Pad Azimuth: 0.00 °
Pad Offset: 0.00 in
Pad Type: Standard
Pad Length: 0.00 in
Pad Width: 0.00 in
Pad Thickness: 0.00 in
Pad Material: Steel
Pad Wear: 0 %
Pad Condition: Good
Pad Number: 1
Pad Serial Number: 1
Pad Calibration Date: 08/29/06
Pad Calibration Factor: 1.000
Pad Calibration Offset: 0.000
Pad Calibration Temperature: 25 °C
Pad Calibration Pressure: 1000 psi
Pad Calibration Deviation: 0 °
Pad Calibration Azimuth: 0 °
Pad Calibration Speed: 1000 m/h
Pad Calibration Sensor Offset: 0.00 in
Pad Calibration Sensor Azimuth: 0.00 °
Pad Calibration Pad Azimuth: 0.00 °
Pad Calibration Pad Offset: 0.00 in
Pad Calibration Pad Type: Standard
Pad Calibration Pad Length: 0.00 in
Pad Calibration Pad Width: 0.00 in
Pad Calibration Pad Thickness: 0.00 in
Pad Calibration Pad Material: Steel
Pad Calibration Pad Wear: 0 %
Pad Calibration Pad Condition: Good
Pad Calibration Pad Number: 1
Pad Calibration Pad Serial Number: 1

100CM LOG, DIPMETER DCHTR-2006-1 08/29/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 MATRIX DELTA-T : SANDSTONE MATRIX DELTA-T : 177
MAGNETIC DECL : 2° 28E SLECT OUTPUT : 5000 BIT SIZE : 8 IN
PROGRESSIVE DIPS AVAILABLE : Minimum Well : 20 FOR 20M

CALIPER 10 20 | METERS | CALIPER 10 20 | GAMMA 0 GAPI 200 | CURI 0 UA 10 | CURI 0 UA 10 | CURI 0 UA 10 | CURI 0 UA 10 | TADPOLE 0 DEG 90 | ROSE DEG | PERCENT 100 | CURI 0 UA 10 | CURI 0 UA 10 | CURI 0 UA 10 | CURI 0 UA 10 | TADPOLE 0 DEG 90 | ROSE DEG | PERCENT 100 | CALIPER 10 20 | METERS | CALIPER 10 20 | GAMMA 0 GAPI 200 | CALIPER 10 20

100CM LOG, DIPMETER DCHTR-2006-1 08/29/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 MATRIX DELTA-T : SANDSTONE MATRIX DELTA-T : 177
MAGNETIC DECL : 2° 28E SLECT OUTPUT : 5000 BIT SIZE : 8 IN
PROGRESSIVE DIPS AVAILABLE : Minimum Well : 20 FOR 20M

TOOL CALIBRATION (DCHTR-2006-1 DICBOB 10-02
TOOL TYPE: DIPMETER
SERIAL NUMBER: 2000
DATE TIME

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug08,06	15:00:13	CURRENT	Default	[CPS]	Default	[CPS]
2	Aug08,06	15:00:13	VOLTAGE	Default	[V]	Default	[V]
3	Aug08,06	15:00:13	CURRENT	500.000	[CPS]	500.000	[CPS]
4	Aug08,06	15:01:26	VOLTAGE	300.700	[V]	2300.00	[CPS]
5	Aug08,06	15:01:26	CURR	0.000	[CPS]	2300.00	[CPS]
6	Aug08,06	15:01:26	CURR	0.000	[CPS]	85.00	[CPS]
7	Aug08,06	15:01:26	CURR	0.000	[CPS]	170.00	[CPS]
8	Aug08,06	15:01:32	CURR	0.000	[CPS]	128.00	[CPS]
9	Aug08,06	15:01:32	CURR	0.000	[CPS]	128.00	[CPS]
10	Aug08,06	15:01:32	CURR	0.000	[CPS]	128.00	[CPS]
11	Aug08,06	15:01:32	CURR	0.000	[CPS]	128.00	[CPS]
12	Aug08,06	08:06:00	CURR	0.000	[CPS]	7000.00	[CPS]
13	Aug08,06	08:06:00	CURR	0.000	[CPS]	7000.00	[CPS]
14	Aug08,06	08:06:00	CURR	0.000	[CPS]	7000.00	[CPS]
15	Aug08,06	08:06:00	CURR	0.000	[CPS]	7000.00	[CPS]
16	Aug08,06	08:06:00	CURR	0.000	[CPS]	7000.00	[CPS]
17	Aug08,06	08:06:00	CURR	0.000	[CPS]	7000.00	[CPS]
18	Aug08,06	08:06:00	CURR	0.000	[CPS]	7000.00	[CPS]

Geology
GEOLOGY & GEOPHYSICS
UNIVERSITY OF LEEDS

GAMMA & GAMMA
(THROUGH ROD)
DDHTR-2006-1

Hole Number	DDHTR-2006-1
Date	08/29/06
Time	
Operator	
Logging Engineer	
Logging Company	
Hole Depth	
Casing Depth	
Casing Diameter	
Hole Diameter	
Drill Rig	
Drill Fluid	
Fluid Level	
Fluid Density	
Fluid Viscosity	
Fluid Resistivity	
Fluid Temperature	
Fluid Loss	
Max Temp	
Max Deviation	
Max Dogleg	
Max Deviation Depth	
Max Dogleg Depth	
Max Deviation Azimuth	
Max Dogleg Azimuth	
Max Deviation Dip	
Max Dogleg Dip

Geology
GEOLOGY & EXPLORATION

NEUTRON - GAMMA LOGGER
DDH-TR-2006-1

DATE	05/28/06
TIME	10:00
DRILLER	
LOGGER	
DRILL HOLE	DDH-TR-2006-1
DRILL RIG	
DRILL BIT	
DRILL FLUID	
DRILL STEM	
CASING	
LOGGING UNIT	
LOGGING PROBE	
LOGGING PROBE SERIAL NO.	
LOGGING PROBE CALIBRATION	
LOGGING PROBE CALIBRATION DATE	
LOGGING PROBE CALIBRATION TEMPERATURE	
LOGGING PROBE CALIBRATION PRESSURE	
LOGGING PROBE CALIBRATION HUMIDITY	
LOGGING PROBE CALIBRATION TIME

Geology
GAMMA & NEUTRON
DDH#TR-2006-1
(TARDIGON ROCKS)
GAMMA & NEUTRON
DDH#TR-2006-1
(TARDIGON ROCKS)
Hole Depth: 270.0 m
Casing Depth: 0.0 m
Water Level: 0.0 m
Date Started: 08/28/06
Date Finished: 08/28/06
Logged By: DDH
Checked By: DDH
Hole Diameter: 100 mm
Hole Dip: 90
Hole Azimuth: 0
Hole Collar Elevation: 0.0 m
Hole Collar Coordinates: 0.0 m N, 0.0 m E
Hole Collar Coordinates: 0.0 m N, 0.0 m E
Hole Collar Coordinates: 0.0 m N, 0.0 m E

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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
QBD 7513

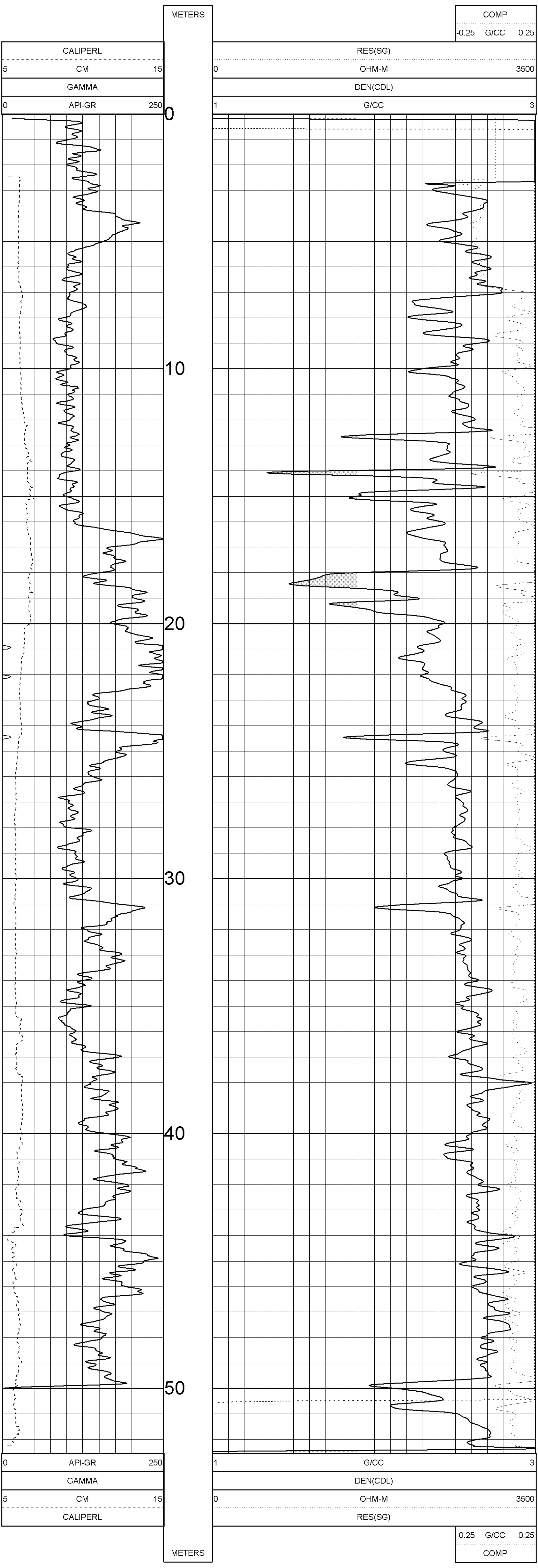
COMPANY	:NORTHERN ENERGY MINING INC	OTHER SERVICES:	
WELL	:QBD 7513	NEUTRON	
FIELD	:ROMAN MTN	NA	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA		
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB	:NA
LOG MEASURED FROM	:GL	ELEVATION DF	:NA
DRL MEASURED FROM	:GL	ELEVATION GL	:NA
DATE	:09/09/06		
DEPTH DRILLER	:220		
BIT SIZE	:11.43		
LOG TOP	:0.18		
LOG BOTTOM	:52.52		
CASING OD	:10.16		
CASING BOTTOM	:3.05		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:NA		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:HOLE ANGLE: 75 DEGREES		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY QBD 7513 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006



100CM LOG, GAMMA-RES-DENSITY QBD 7513 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006

TOOL CALIBRATION QBD 7513 09/09/06 09:55
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

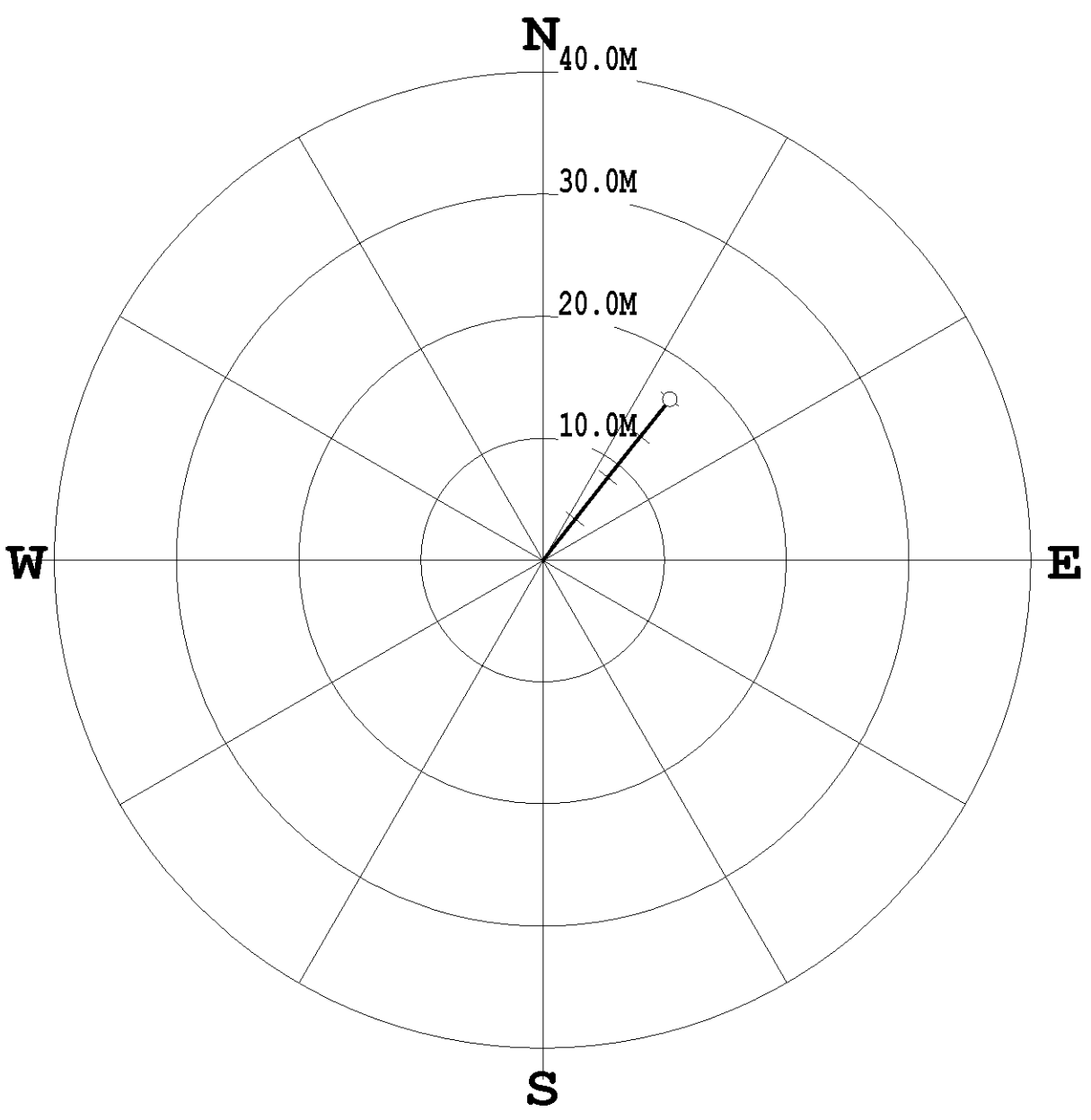
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug29,06	14:45:57	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Sep09,06	10:01:40	DEN(LS)	2.383	[G/CC]	1606.00	[CPS]
5	Aug29,06	14:46:03	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Sep09,06	10:01:27	DEN(SS)	2.383	[G/CC]	11003.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: QBD 7513
DATE OF LOG: 09/09/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 49.05 M
AZIMUTH: 38.3
DISTANCE: 16.8 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



Century Geophysics
Calgary, Alberta

COMPANY	ENERGY SERVICES INC.
WELL	
FIELD	
COUNTY	
PROVINCE	ALBERTA
COUNTRY	CANADA
LOCATION	
LOCATION	
LOCATION

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GAMMA - NEUTRON

QBD 7513

COMPANY	NORTHERN ENERGY MINING INC
WELL	QBD 7513
FIELD	ROMAN MTN
COUNTY	TUMBLER RIDGE
STATE	BRITISH COLUMBIA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
API NO.	NA
UNIQUE WELL ID	NA
LOG MEASURED FROM	ELEVATION 68 NA
LOG MEASURED FROM GL	ELEVATION DF NA
DRL MEASURED FROM GL	ELEVATION GL NA
DATE	09/09/06
DEPTH DRILLER	220
BIT SIZE	11.43
LOG TOP	0.23
LOG BOTTOM	59.06
CASING OD	10.16
CASING BOTTOM	3.05
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
RM TEMPERATURE	NA
MUD WEIGHT	NA
MUD RES	NA
WITNESSED BY	NA
RECORDED BY	J. SAWACH
REMARKS 1	HOLE ANGLE 75 DEGREES
REMARKS 2	

OTHER SERVICES:

BOREHOLE	NA
GEOLOGY	NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-NEUTRON SLIM QBD 7513 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43

PRESENTATION NAME/DATE = 9067A.0 09/09/2006

100CM LOG, GAMMA-NEUTRON SLIM QBD 7513 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43

PRESENTATION NAME/DATE = 9067A.0 09/09/2006

TOOL CALIBRATION QBD 7513 09/09/06 10:09
TOOL 9067A TM VERSION 3200
SERIAL NUMBER 529

	DATE	TIME	SENSOR		STANDARD		RESPONSE	
1	Mar01,02	15:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01,02	15:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]
	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]

Geology services ltd.

GAMMA / DENSITY
(THROUGH-PIPE)
QBD 7514

Date:	10/23/06
Time:	08:00
Operator:	Mike
Logging Unit:	2
Logging Truck:	1
Logging Engineer:	Mike
Depth Reference:	Ground Level
Elevation:	0 m
Log Direction:	Up
Log Speed:	10 m/min
Sample Rate:	0.1 m
Gamma Source:	Yes
Density Source:	Yes
Neutron Source:	No
Gamma Detector:	1 x 3" NaI
Density Detector:	1 x 3" NaI
Neutron Detector:	No
Density Type:	Through Pipe
Density Calibration:	Factory
Density Check:	2.61
Density Standard:	2.61
Density Offset:	0.00
Density Gain:	1.00
Density Resolution:	0.01
Density Filter:	0.01
Density Sensitivity:	0.01
Density Stability:	0.01
Density Time Constant:	0.01
Density Dead Time:	0.00
Density Pipe Thickness:	0.00
Density Pipe Diameter:	0.00
Density Pipe Density:	0.00
Density Pipe Offset:	0.00
Density Pipe Gain:	1.00
Density Pipe Resolution:	0.01
Density Pipe Filter:	0.01
Density Pipe Sensitivity:	0.01
Density Pipe Stability:	0.01
Density Pipe Time Constant:	0.01
Density Pipe

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GAMMA - CALIPER - RESISTVITY COMPENSATED DENSITY QBD 7661

COMPANY	ROCKY MOUNTAIN ENERGY MINING INC
FIELD	ROSWINTH
COUNTY	PUMBLER AVOUNE
STATE	ALBERTA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
LONGITUDE	NA
LATITUDE	NA
ELEVATION	NA
DATUM	NA
DRILLING METHOD	NA
OTHER SERVICES	NA
LOGGING DATE	09/05/06
RUN NUMBER	1
DRILLER'S TD	1177
LOGGER'S TD	1177
CASING TYPE	NA
CASING DEPTH	NA
BOREHOLE FLUID	WATER
MUD WEIGHT	NA
RECORDED BY	J. BRANCH
WITNESSED BY	NA

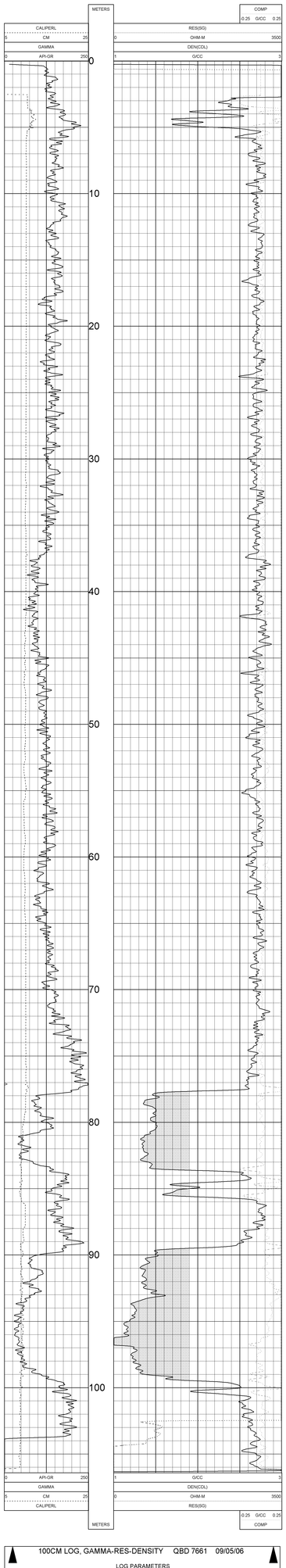
DIA. MEASURED FROM	GL
ELEVATION KB	NA
ELEVATION DF	NA
ELEVATION GL	NA
DATE	09/05/06
TYPE FLUID	GEL EMULSION
BIT SIZE	11.43
LOG TOP	1177
LOG BOTTOM	1000.37
CASING OD	127
CASING WEIGHT	NA
CASING TYPE	NA
MUD RESISTIVITY	NA
MUD TEMP	NA
MUD WEIGHT	NA
RECORDED BY	J. BRANCH
WITNESSED BY	NA

ALL CERVICATES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY QBD 7661 09/05/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	50000	BIT SIZE :	11.43
PRESENTATION NAME/DATE =	9239C1 0 09/05/2006				



100CM LOG, GAMMA-RES-DENSITY QBD 7661 09/05/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	50000	BIT SIZE :	11.43
PRESENTATION NAME/DATE =	9239C1 0 09/05/2006				

TOOL CALIBRATION QBD 7661 09/05/06 15:30
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

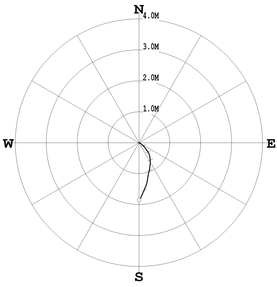
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22.06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22.06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22.06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22.06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22.06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22.06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Sep05.06	15:42:56	DEN(SS)	1.000	[G/CC]	13531.00	[CPS]
	Sep05.06	15:42:56	DEN(SS)	2.500	[G/CC]	155000.00	[CPS]
5	Sep05.06	15:42:46	DEN(SS)	2.593	[G/CC]	23504.00	[CPS]
	Aug20.06	14:46:03	DEN(SS)	2.593	[G/CC]	9503.00	[CPS]
6	Aug22.06	21:03:45	CALIPER/L	8.890	[CM]	119976.00	[CPS]
	Aug22.06	21:03:45	CALIPER/L	25.400	[CM]	303610.00	[CPS]
7	Aug22.06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22.06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22.06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: QBD 7661
DATE OF LOG: 09/05/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 104.45 M
AZIMUTH: 179.8
DISTANCE: 1.9 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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GAMMA - NEUTRON

QBD 7661

COMPANY	QBD 7661
WELL	QBD 7661
FIELD	ROMAN KUN
COUNTY	CHILCOTIN
STATE	BRITISH COLUMBIA
LOCATION	NA
SEC	NA
TOWNSHIP	NA
RANGE	NA
PERMANENT DATUM	NA
LOG MEASURED FROM	NA
DRILL MEASURED FROM	NA
DATE	09/05/06
RUN NUMBER	ONE
DEPTH-DRILLER	105.0000
DEPTH-LOGGER	105.0000
BTM LOG INTERVAL	105.0000
TOP LOG INTERVAL	0.0000
CASING SIZE	127
CASING WT	NA
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
MAX TEMP	NA
MUD WEIGHT	NA
MUD VISCOSITY	NA
RECORDED BY	J. SRAVICH
WITNESSED BY	NA
RIGNAME	3

OTHER SERVICES
NA
NA
NA

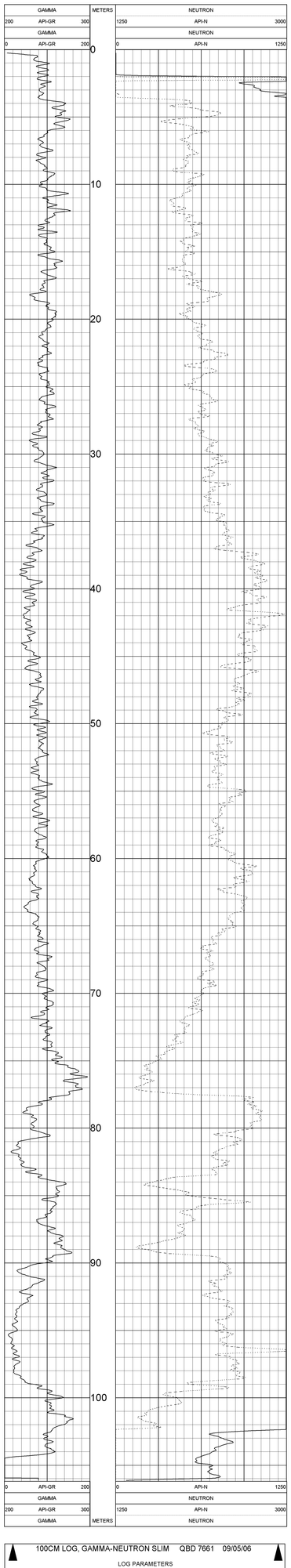
ELEVATIONS
PERMANENT DATUM: GL
LOG MEASURED FROM: KB
DRILL MEASURED FROM: GL
ELEVATION KB: NA
ELEVATION DF: NA
ELEVATION GL: NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-NEUTRON SLIM QBD 7661 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 50000	BIT SIZE 8.89
PRESENTATION NAME/DATE = 9067A.0 09/05/2006		



100CM LOG, GAMMA-NEUTRON SLIM QBD 7661 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 50000	BIT SIZE 8.89
PRESENTATION NAME/DATE = 9067A.0 09/05/2006		

TOOL CALIBRATION QBD 7661 09/05/06 15:57
TOOL 9067A TM VERISION 3200
SERIAL NUMBER 529

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar01,02	15:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01,02	15:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22,06	09:07:12	NEUTRON	Default	[CPS]	Default	[CPS]
	Feb22,06	09:07:12	NEUTRON	Default	[CPS]	Default	[CPS]

Century GEOPHYSICAL Corp.

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DIPMETER

QBR 7580

COMPANY	NORTHWEST ENERGY CORP.(T)
WELL	6-34-7-1
FIELD	WILDCAT
COUNTY	TUMBLER RIDGE
LOCATION	6-34-7-1
SECTION	NA
TOWNSHIP	NA
RANGE	NA
API NO.	NA
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILLING MEASURED FROM	GL
ELEVATION GL	2000
ELEVATION KB	NA
ELEVATION DF	NA
ELEVATION SL	NA

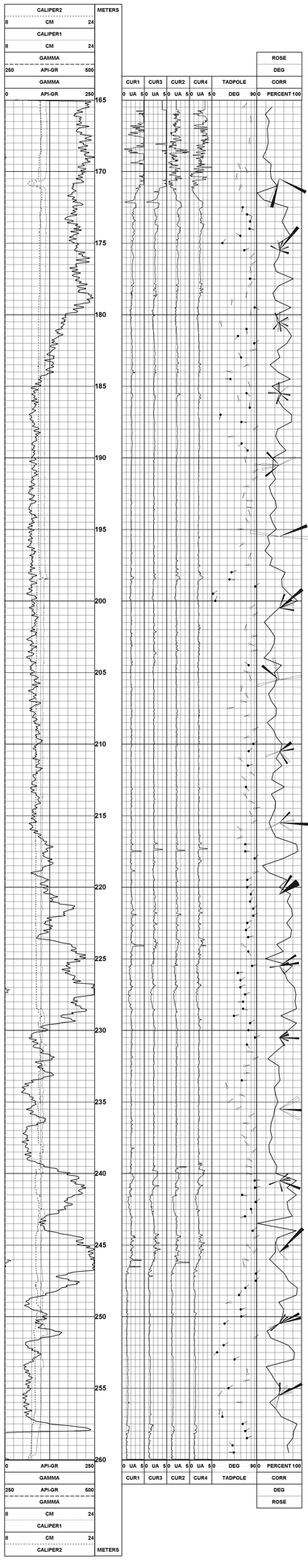
DIPMETER SERVICES
NEUTRON
NA

DATE	09/08/06
DEPTH DRILLER	260.13
LOG TOP	165.13
LOG BOTTOM	260.00
CASING SIZE	5.24
CASING BOTTOM	NA
CASING TYPE	SURFACE
FLUID TYPE	WATER
RW TEMPERATURE	NA
MUD RES	NA
MF TEMPERATURE	NA
MC RES	NA
RECORDED BY	NA
WITNESSED BY	NA
J. SWANCH	
REMARKS 1	
REMARKS 2	
ALL SERVICES PROVIDED SUBJECT TO EXISTING TERMS AND CONDITIONS	

100CM LOG, DIPMETER QBR 7580 09/08/06

LOG PARAMETERS

MATRIX DENSITY:	2.65	NEUTRON MATRIX:	SANDSTONE	MATRIX DELTA T:	177
MAGNETIC DECL.:	21	ELECT. CUTOFF:	50000	BIT SIZE	11.43
PRESENTATION NAME/DATE =	9411print.j.0 08/24/2006				



100CM LOG, DIPMETER QBR 7580 09/08/06

LOG PARAMETERS

MATRIX DENSITY:	2.65	NEUTRON MATRIX:	SANDSTONE	MATRIX DELTA T:	177
MAGNETIC DECL.:	21	ELECT. CUTOFF:	50000	BIT SIZE	11.43
PRESENTATION NAME/DATE =	9411print.j.0 08/24/2006				

TOOL CALIBRATION QBR 7580 09/08/06 17:51
TOOL 9411A TIM VERSION 9200
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,06	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
	Jul27,06	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,06	09:21:29	VOLTAG	104.800	[MV]	720.00	[CPS]
	Aug02,06	09:21:29	VOLTAG	350.700	[MV]	2360.00	[CPS]
3	Aug02,06	10:37:25	CUR1	4.213	[UA]	7955.00	[CPS]
	Aug02,06	10:37:26	CUR1	0.000	[UA]	80.00	[CPS]
4	Aug02,06	09:27:32	CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,06	09:27:32	CUR2	0.000	[UA]	105.00	[CPS]
5	Aug02,06	09:24:02	CUR3	4.260	[UA]	7900.00	[CPS]
	Aug02,06	09:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,06	09:26:09	CUR4	4.270	[UA]	7860.00	[CPS]
	Aug02,06	09:26:09	CUR4	0.000	[UA]	180.00	[CPS]
7	Feb18,06	10:59:53	CALIPER	15.240	[INCH]	9145.00	[CPS]
	Feb18,06	10:59:53	CALIPER	30.480	[INCH]	2205.00	[CPS]

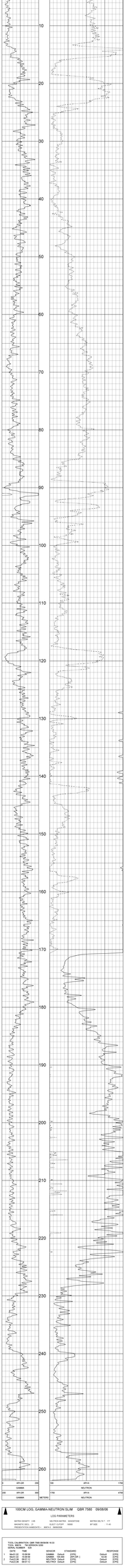
Company	Bentley Pathfinder Oil & Gas Plc
Well	QBR 7580
Field	Quebrada Blanca
Region	Tarapaca
Country	Chile
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	0 m
Date	09-Sep-06
Run Number	1
Depth Driller	260 m
Depth Logger	260 m
Bottom Log Interval	260 m
Top Log Interval	0 m
Casing Driller	0 m
Casing Logger	0 m
Bit Size	12.25 in
Type Fluid in Hole	Air
Density	-
Viscosity	-
pH	-
Fluid Loss	-
Source of Sample	-
Rm	-
Rmf	-
Rmc	-
Rm @ Measured Temp	-
Rmf @ Measured Temp	-
Rmc @ Measured Temp	-
Source Rmf / Rmc	-
Rm @ BHT	-
Time Since Circulation	-
Time Since Shut-In	-
Max Recorded Temp	-
Equipment Number	-
Location	-
Recorded By	-
Witnessed By	-

GAMMA - NEUTRON
QBR 7580

100CM LOG, GAMMA-NEUTRON SLIM QBR 7580 09/06/06

LOG PARAMETERS

MATRIX DENSITY	2.65	NEUTRON MATRIX	SANDSTONE	MATRIX DELTA-T	171
MAGNETIC DECL.	21	ELEVT CUTOFF	5000	BIT SIZE	11.45
PREDEFINED FAMILIES	MEYLI	WINDOW			



100CM LOG, GAMMA-NEUTRON SLIM QBR 7580 09/06/06

LOG PARAMETERS

MATRIX DENSITY	2.65	NEUTRON MATRIX	SANDSTONE	MATRIX DELTA-T	171
MAGNETIC DECL.	21	ELEVT CUTOFF	5000	BIT SIZE	11.45
PREDEFINED FAMILIES	MEYLI	WINDOW			

TOOL CALIBRATION: QBR 7580 09/06/06 16:33
TOOL TYPE: MEYLI 100CM SLIM
SERIAL NUMBER: 0000-0000

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Mar-01	00:00:00	GAMMA - 0000	GAPI(API)	Default [GPS]
2	Mar-01	00:00:00	GAMMA - 00 000	GAPI(API)	10.00 [GPS]
3	Feb-01	00:00:00	NEUTRON - 0000	Default [GPS]	Default [GPS]
4	Feb-01	00:00:00	NEUTRON - 00 000	Default [GPS]	Default [GPS]

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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
QBR 7582

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:QBR 7582
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:09/08/06
DEPTH DRILLER	:22
BIT SIZE	:11.43
LOG TOP	:0.17
LOG BOTTOM	:23.44
CASING OD	:15.24
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:
REMARKS 2	:

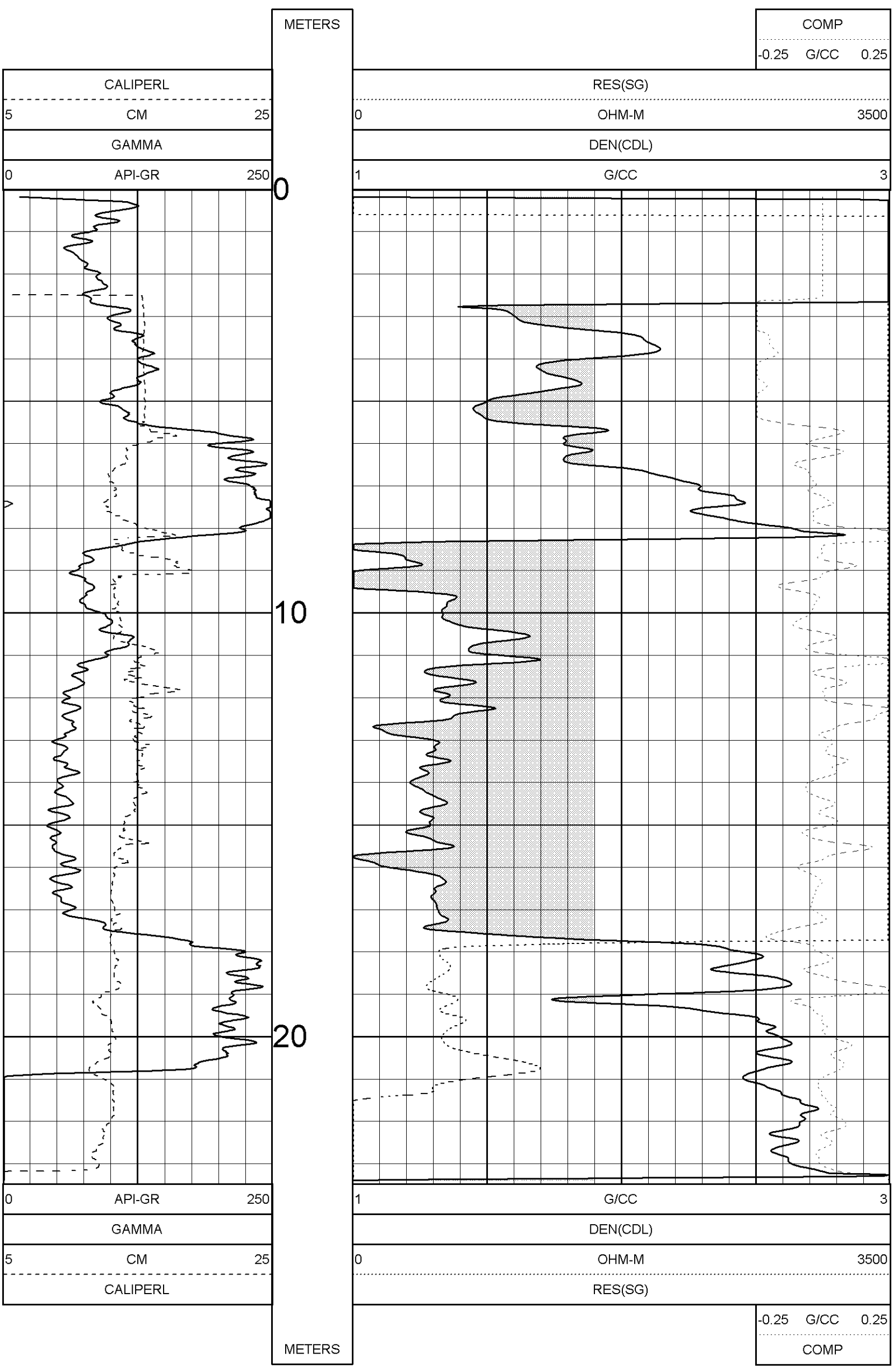
OTHER SERVICES:
NEUTRON
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY QBR 7582 09/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006



100CM LOG, GAMMA-RES-DENSITY QBR 7582 09/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006

TOOL CALIBRATION QBR 7582 09/08/06 19:28
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

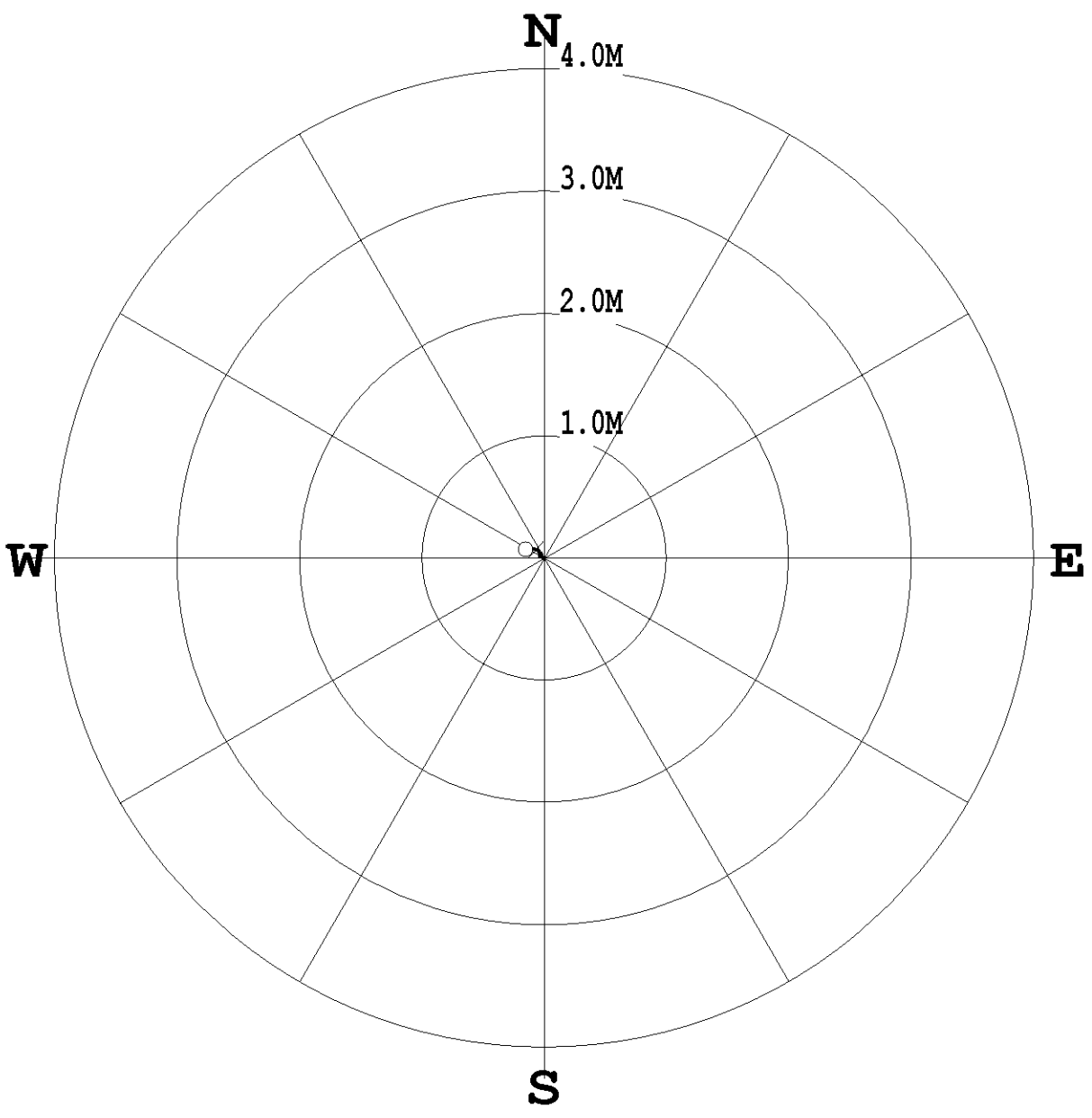
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Sep08,06	19:40:02	DEN(LS)	1.000	[G/CC]	14031.00	[CPS]
	Aug29,06	14:45:57	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Sep08,06	19:39:54	DEN(SS)	1.000	[G/CC]	24504.00	[CPS]
	Aug29,06	14:46:03	DEN(SS)	2.383	[G/CC]	9503.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: QBR 7582
DATE OF LOG: 09/08/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 23.51 M
AZIMUTH: 296.0
DISTANCE: 0.2 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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GAMMA - NEUTRON
QBR 7582

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:QBR 7582
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:09/08/06
DEPTH DRILLER	:22
BIT SIZE	:11.43
LOG TOP	:0.22
LOG BOTTOM	:23.08
CASING OD	:15.24
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:
REMARKS 2	:

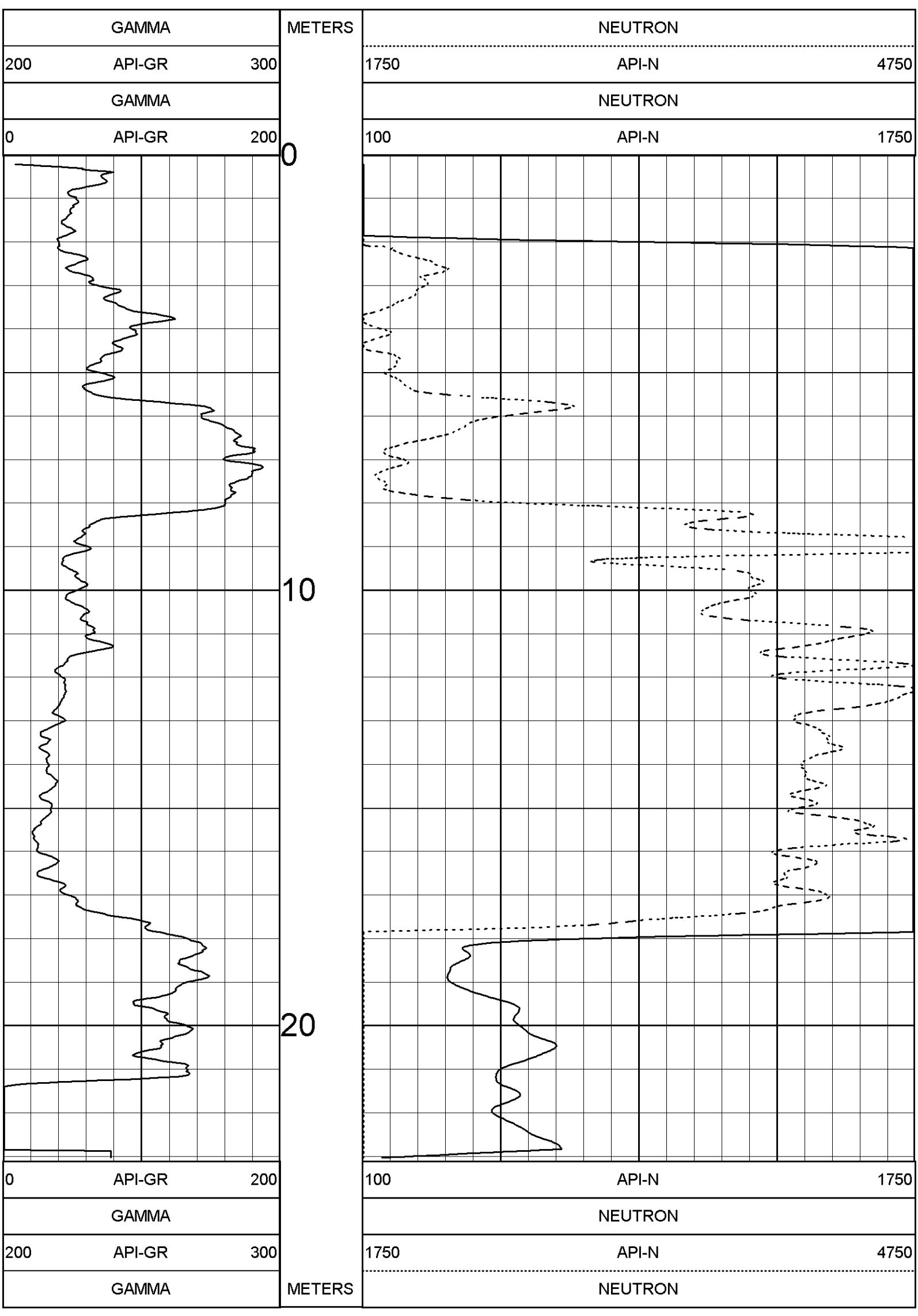
OTHER SERVICES:
DENSITY
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-NEUTRON SLIM QBR 7582 09/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9067A.0 09/08/2006



100CM LOG, GAMMA-NEUTRON SLIM QBR 7582 09/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9067A.0 09/08/2006

TOOL CALIBRATION QBR 7582 09/08/06 19:45
TOOL 9067A TM VERSION 3200
SERIAL NUMBER 529

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar01,02	15:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01,02	15:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]
	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]

COMPANY	CENTURY ENERGY MANAGEMENT INC		
WELL	QBR-7570		
FIELD	ROCKY MOUNTAIN		
COUNTY	DUCHESNE		
STATE	UTAH		
LOCATION	NA		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
APIWELL	NA		
LONGITUDE	NA		
LATITUDE	NA		
BASIN	UNITED STATES		
OTHER SERVICES	NA		
PERMANENT DATUM	GL	ELEVATION OF PERM. DATUM	NA
LOG MEASURED FROM	KB	ELEVATION OF KB	NA
DRL MEASURED FROM	KB	ELEVATION OF GL	NA
DATE	10/23/06		
BIT SIZE	15.24		
CASING 1D	17.78		
CASING 1D BOTTOM	103.20		
CASING 2D	12.70		
CASING 2D BOTTOM	1.73		
BOREHOLE FLUID	WATER		
CASING TYPE	SURFACE		
MUD TYPE	WATER		
MUD WEIGHT	NA		
VISCOSITY	NA		
PH	NA		
FLUID LOSS	NA		
RM@MEASURED TEMP	NA		
RMF@MEASURED TEMP	NA		
RMC@MEASURED TEMP	NA		
RECORDED BY	J. SIRANICH		
WITNESSED BY			
RUN NO.	1		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

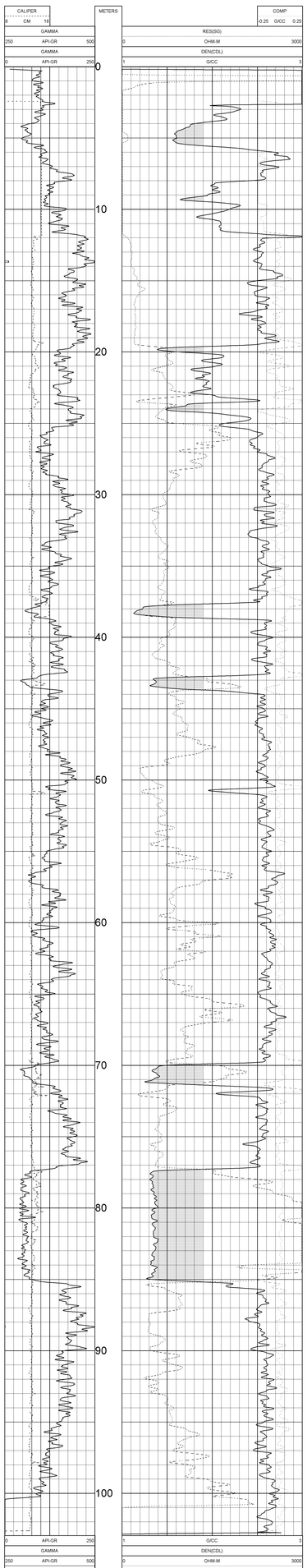
Century GEOPHYSICAL CORP.

GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
QBR-7570

100CM LOG, GAMMA-RES-DENSITY QBR-7570 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C.0 10/25/2006		VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY QBR-7570 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C.0 10/25/2006		VERSION = 3.64EC

TOOL CALIBRATION: QBR-7570 10/23/06 17:38
TOOL: 9239C TM VERSION 2015
SERIAL NUMBER: 1268

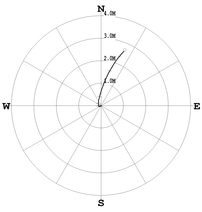
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13,06	18:54:55	GAMMA	Default	[CPS]	Default	[CPS]
2	Oct13,06	18:54:55	GAMMA	283.000	[API-GR]	286.00	[CPS]
2	Oct14,06	11:07:04	VOLTAGE	31.850	[MV]	5358.00	[CPS]
2	Oct14,06	11:07:04	VOLTAGE	572.000	[MV]	76691.00	[CPS]
3	Oct13,06	18:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
4	Oct23,06	17:50:48	DEN(LS)	2.500	[G/CC]	9200.00	[CPS]
4	Oct23,06	17:50:48	DEN(LS)	1.000	[G/CC]	13504.00	[CPS]
5	Oct23,06	15:56:31	DEN(LS)	2.383	[G/CC]	1150.00	[CPS]
5	Oct23,06	17:50:48	DEN(SS)	1.000	[G/CC]	21587.00	[CPS]
5	Oct23,06	17:50:48	DEN(SS)	2.383	[G/CC]	9200.00	[CPS]
6	Oct13,06	20:38:56	CALIPER1	10.160	[INCH]	128730.00	[CPS]
7	Oct13,06	20:38:56	CALIPER1	25.400	[INCH]	304375.00	[CPS]
7	Oct14,06	11:07:25	CURRENT	99.600	[UA]	10840.00	[CPS]
7	Oct14,06	11:07:25	CURRENT	291.000	[UA]	29568.00	[CPS]
8	Sep28,06	12:05:58	X	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: NUMAR MTN
HOLE ID: QBR-7570
DATE OF LOG: 10/23/06
PROBE: 9555A 237

MAG DECL: 21.0

SCALE: 1 M/CM
TMTR DEPTH: 95.47 M
AZIMUTH: 23.3
DISTANCE: 2.3 M
* = 10 M INCR
' = BOTTOM OF HOLE



Century geophysical Corp.
century-geo.com

GAMMA - NEUTRON
QBR-7570

COMPANY	NORTHWEST ENERGY MANAGEMENT
WELL	QBR-7570
FIELD	QUIMBY RANCH
COUNTY	TUMBLER RIDGE
STATE	BRITISH COLUMBIA
DATE	10/23/06
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
PERMANENT DATUM	N/A
API NO.	N/A
LOG MEASURED FROM	N/A
DRILLING MEASURED FROM	N/A
ELEVATION OF K.B.	ELEVATION OF N/A
ELEVATION OF D.F.	ELEVATION OF N/A
ELEVATION OF G.L.	ELEVATION OF N/A
DATE FIRST RECORD	N/A
DATE LAST RECORD	N/A
DEPTH DRILLER	UNKNOWN
LOG TOP	1.34
LOG BOTTOM	95.56
CASING 1	9 5/8
CASING BOTTOM	UNKNOWN
CASING 2	N/A
CASING TYPE	SURFACE
BIT SIZE	15.24
MUD TYPE	WATER
MUD RES	N/A
MUD TEMPERATURE	N/A
MEAS. TEMP.	N/A
OPERATED BY	DAVE
RECORDED BY	J. SANARCH
WITNESSED BY	N/A
REMARKS 1	
REMARKS 2	

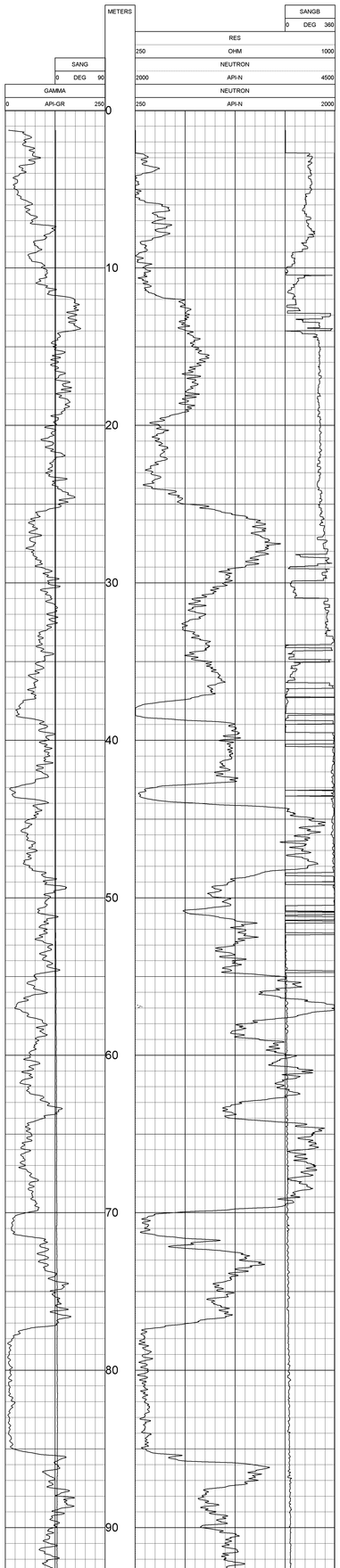
ALL SERVICES PROVIDED SUBJECT TO CENWCAP'S TERMS AND CONDITIONS

DYNAMIC PRINTED DENSITY
N/A
N/A

100CM LOG, GAMMA-RES-NEUTRON QBR-7570 10/23/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9055A.0 10/25/2006 VERSION = 3.64EC



100CM LOG, GAMMA-RES-NEUTRON QBR-7570 10/23/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9055A.0 10/25/2006 VERSION = 3.64EC

TOOL CALIBRATION QBR-7570 10/23/06 17:19
TOOL 9055A TM VERSION 3200
SERIAL NUMBER 237

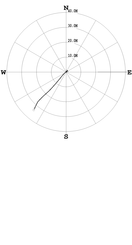
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	08:41:30	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Sep27,06	08:41:30	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Feb25,99	00:19:39	POROSIT	Default	[CPS]		
3	Sep27,06	08:35:47	RES	0.000	[OHM]	9615.00	[CPS]
	Sep27,06	08:35:47	RES	100.000	[OHM]	7996.00	[CPS]
4	Sep27,06	08:36:00	SP	0.000	[MV]	1.00	[CPS]
	Sep27,06	08:36:00	SP	400.000	[MV]	2935.00	[CPS]
5	Oct10,06	12:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
	Oct10,06	12:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
6	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]
	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: MMAC
LOCATION: BONAR
RIGS ID: QBR-TW4
DATE OF ACT: 05/20/16
DRAWN: MCLA DM

MAG DECL: 21.0

SCALE: 1 NCH
TRUE DIST: 156.07 M
AZIMUTH: 231.5
V-SECTION: 156.0
0.0 M DEEP
+ = BOTTOM OF HOLE



Goldy

GOLDY WIRELINE SERVICES

GAMMA-RESISTIVITY-CALIPER-NEUTRON-DENSITY
GBR-7580

Date: 09/19/06
Time: 10:00
Run: 1
Depth Reference: KB
Elevation: 0 ft
Permanent Datum: GL
Log Measured From: KB
Drilling Measured From: KB

Company: Goldy Wireline Services
Well: GBR-7580
Field: Gabriel Creek
County: Kenai Peninsula
State: Alaska
Location: Sec 18 T1N R1W SM
Other Services: Gamma-Resistivity-Caliper-Neutron-Density
Elevation: KB: 0 ft, DF: 0 ft, GL: 0 ft
Logging Engineer: Jeff Dunn
Witnessed By: Mr. Jim Rebarchek

Comments: Gamma-Resistivity-Caliper-Neutron-Density

Bit Size: 6.125 in
Casing Driller: 8.625 in @ 0 ft
Casing Logger: 8.625 in @ 0 ft
Bottom Log Interval: 1,100 ft
Top Log Interval: 0 ft
Max Recorded Temp: 0 F
Equipment: Truck 3
Recorded By: Jeff Dunn
Witnessed By: Mr. Jim Rebarchek

Run Number: 1
Depth Driller: 1,100 ft
Depth Logger: 1,100 ft
Bottom Log Interval: 1,100 ft
Top Log Interval: 0 ft
Casing Driller: 8.625 in @ 0 ft
Casing Logger: 8.625 in @ 0 ft
Bit Size: 6.125 in
Type Fluid in Hole: Water
Density: 8.4 lb/gal
Viscosity: 0 s
Pump Rate: 0 gpm
Max Recorded Temp: 0 F
Equipment: Truck 3
Recorded By: Jeff Dunn
Witnessed By: Mr. Jim Rebarchek

Comments: Gamma-Resistivity-Caliper-Neutron-Density

Baker Hughes

GAMMA RAY-DENSITY
GAMMA RAY-DENSITY
GBR-7590

GAMMA RAY-DENSITY
GAMMA RAY-DENSITY
GBR-7590

DATE RUN 09-19-06

DATE PROCESSED 09-19-06

DATE PRINTED 09-19-06

PROCESSED BY: D. BRAUN

PRINTED BY: D. BRAUN

PROCESSED FOR: GARDEN CITY

PRINTED FOR: GARDEN CITY

1:100 CM LOG, GAMMA-RES-DENSITY GBR-7590 09/19/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA-T: 177
FLUID DENSITY: 1.00 FLUID DELTA-T: 189 HOLE DIAM: 7.875 in
PRESENTATION HUMBER N.Y. 37.00sp,Gamma 0 - 300API,RES(Ohm)

CALIPER(in) 6 — 16 | GAMMA(API) 0 — 300 | MATRIX DENSITY 2.0 — 3.0 | RESISTIVITY(Ohm-m) 0.2 — 2000

DEPTH(ft) 0 — 260 | SPEED(~) | DEPTH(ft) 0 — 260

1:100 CM LOG, GAMMA-RES-DENSITY GBR-7590 09/19/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA-T: 177
FLUID DENSITY: 1.00 FLUID DELTA-T: 189 HOLE DIAM: 7.875 in
PRESENTATION HUMBER N.Y. 37.00sp,Gamma 0 - 300API,RES(Ohm)

CALIPER(in) 6 — 16 | GAMMA(API) 0 — 300 | MATRIX DENSITY 2.0 — 3.0 | RESISTIVITY(Ohm-m) 0.2 — 2000

DEPTH(ft) 0 — 260 | SPEED(~) | DEPTH(ft) 0 — 260

TOOL CALIBRATION: GBR-7590 SERIES 1100
TOOL TYPE: GAMMA RAY-DENSITY
TOOL Number: 1100

	DATE	TIME	CHANGE	STANDARD	DEVIATION
1	Sep/19/06	08:00:00	0.000	0.000	0.000
2	Sep/19/06	09:00:00	0.000	0.000	0.000
3	Sep/19/06	10:00:00	0.000	0.000	0.000
4	Sep/19/06	11:00:00	0.000	0.000	0.000
5	Sep/19/06	12:15:00	0.000	0.000	0.000
6	Sep/19/06	13:15:00	0.000	0.000	0.000
7	Sep/19/06	14:15:00	0.000	0.000	0.000
8	Sep/19/06	15:15:00	0.000	0.000	0.000
9	Sep/19/06	16:15:00	0.000	0.000	0.000
10	Sep/19/06	17:15:00	0.000	0.000	0.000
11	Sep/19/06	18:15:00	0.000	0.000	0.000
12	Sep/19/06	19:15:00	0.000	0.000	0.000
13	Sep/19/06	20:15:00	0.000	0.000	0.000
14	Sep/19/06	21:15:00	0.000	0.000	0.000
15	Sep/19/06	22:15:00	0.000	0.000	0.000
16	Sep/19/06	23:15:00	0.000	0.000	0.000
17	Sep/20/06	00:15:00	0.000	0.000	0.000
18	Sep/20/06	01:15:00	0.000	0.000	0.000
19	Sep/20/06	02:15:00	0.000	0.000	0.000
20	Sep/20/06	03:15:00	0.000	0.000	0.000
21	Sep/20/06	04:15:00	0.000	0.000	0.000
22	Sep/20/06	05:15:00	0.000	0.000	0.000
23	Sep/20/06	06:15:00	0.000	0.000	0.000
24	Sep/20/06	07:15:00	0.000	0.000	0.000
25	Sep/20/06	08:15:00	0.000	0.000	0.000
26	Sep/20/06	09:15:00	0.000	0.000	0.000
27	Sep/20/06	10:15:00	0.000	0.000	0.000
28	Sep/20/06	11:15:00	0.000	0.000	0.000
29	Sep/20/06	12:15:00	0.000	0.000	0.000
30	Sep/20/06	13:15:00	0.000	0.000	0.000
31	Sep/20/06	14:15:00	0.000	0.000	0.000
32	Sep/20/06	15:15:00	0.000	0.000	0.000
33	Sep/20/06	16:15:00	0.000	0.000	0.000
34	Sep/20/06	17:15:00	0.000	0.000	0.000
35	Sep/20/06	18:15:00	0.000	0.000	0.000
36	Sep/20/06	19:15:00	0.000	0.000	0.000
37	Sep/20/06	20:15:00	0.000	0.000	0.000
38	Sep/20/06	21:15:00	0.000	0.000	0.000
39	Sep/20/06	22:15:00	0.000	0.000	0.000
40	Sep/20/06	23:15:00	0.000	0.000	0.000
41	Sep/21/06	00:15:00	0.000	0.000	0.000
42	Sep/21/06	01:15:00	0.000	0.000	0.000
43	Sep/21/06	02:15:00	0.000	0.000	0.000
44	Sep/21/06	03:15:00	0.000	0.000	0.000
45	Sep/21/06	04:15:00	0.000	0.000	0.000
46	Sep/21/06	05:15:00	0.000	0.000	0.000
47	Sep/21/06	06:15:00	0.000	0.000	0.000
48	Sep/21/06	07:15:00	0.000	0.000	0.000
49	Sep/21/06	08:15:00	0.000	0.000	0.000
50	Sep/21/06	09:15:00	0.000	0.000	0.000
51	Sep/21/06	10:15:00	0.000	0.000	0.000
52	Sep/21/06	11:15:00	0.000	0.000	0.000
53	Sep/21/06	12:15:00	0.000	0.000	0.000
54	Sep/21/06	13:15:00	0.000	0.000	0.000
55	Sep/21/06	14:15:00	0.000	0.000	0.000
56	Sep/21/06	15:15:00	0.000	0.000	0.000
57	Sep/21/06	16:15:00	0.000	0.000	0.000
58	Sep/21/06	17:15:00	0.000	0.000	0.000
59	Sep/21/06	18:15:00	0.000	0.000	0.000
60	Sep/21/06	19:15:00	0.000	0.000	0.000
61	Sep/21/06	20:15:00	0.000	0.000	0.000
62	Sep/21/06	21:15:00	0.000	0.000	0.000
63	Sep/21/06	22:15:00	0.000	0.000	0.000
64	Sep/21/06	23:15:00	0.000	0.000	0.000
65	Sep/22/06	00:15:00	0.000	0.000	0.000
66	Sep/22/06	01:15:00	0.000	0.000	0.000
67	Sep/22/06	02:15:00	0.000	0.000	0.000
68	Sep/22/06	03:15:00	0.000	0.000	0.000
69	Sep/22/06	04:15:00	0.000	0.000	0.000
70	Sep/22/06	05:15:00	0.000	0.000	0.000
71	Sep/22/06	06:15:00	0.000	0.000	0.000
72	Sep/22/06	07:15:00	0.000	0.000	0.000
73	Sep/22/06	08:15:00	0.000	0.000	0.000
74	Sep/22/06	09:15:00	0.000	0.000	0.000
75	Sep/22/06	10:15:00	0.000	0.000	0.000
76	Sep/22/06	11:15:00	0.000	0.000	0.000
77	Sep/22/06	12:15:00	0.000	0.000	0.000
78	Sep/22/06	13:15:00	0.000	0.000	0.000
79	Sep/22/06	14:15:00	0.000	0.000	0.000
80	Sep/22/06	15:15:00	0.000	0.000	0.000
81	Sep/22/06	16:15:00	0.000	0.000	0.000
82	Sep/22/06	17:15:00	0.000	0.000	0.000
83	Sep/22/06	18:15:00	0.000	0.000	0.000
84	Sep/22/06	19:15:00	0.000	0.000	0.000
85	Sep/22/06	20:15:00	0.000	0.000	0.000
86	Sep/22/06	21:15:00	0.000	0.000	0.000
87	Sep/22/06	22:15:00	0.000	0.000	0.000
88	Sep/22/06	23:15:00	0.000	0.000	0.000
89	Sep/23/06	00:15:00	0.000	0.000	0.000
90	Sep/23/06	01:15:00	0.000	0.000	0.000
91	Sep/23/06	02:15:00	0.000	0.000	0.000
92	Sep/23/06	03:15:00	0.000	0.000	0.000
93	Sep/23/06	04:15:00	0.000	0.000	0.000
94	Sep/23/06	05:15:00	0.000	0.000	0.000
95	Sep/23/06	06:15:00	0.000	0.000	0.000
96	Sep/23/06	07:15:00	0.000	0.000	0.000
97	Sep/23/06	08:15:00	0.000	0.000	0.000
98	Sep/23/06	09:15:00	0.000	0.000	0.000
99	Sep/23/06	10:15:00	0.000	0.000	0.000
100	Sep/23/06	11:15:00	0.000	0.000	0.000
101	Sep/23/06	12:15:00	0.000	0.000	0.000
102	Sep/23/06	13:15:00	0.000	0.000	0.000
103	Sep/23/06	14:15:00	0.000	0.000	0.000
104	Sep/23/06	15:15:00	0.000	0.000	0.000
105	Sep/23/06	16:15:00	0.000	0.000	0.000
106	Sep/23/06	17:15:00	0.000	0.000	0.000
107	Sep/23/06	18:15:00	0.000	0.000	0.000
108	Sep/23/06	19:15:00	0.000	0.000	0.000
109	Sep/23/06	20:15:00	0.000	0.000	0.000
110	Sep/23/06	21:15:00	0.000	0.000	0.000
111	Sep/23/06	22:15:00	0.000	0.000	0.000
112	Sep/23/06	23:15:00	0.000	0.000	0.000
113	Sep/24/06	00:15:00	0.000	0.000	0.000
114	Sep/24/06	01:15:00	0.000	0.000	0.000
115	Sep/24/06	02:15:00	0.000	0.000	0.000
116	Sep/24/06	03:15:00	0.000	0.000	0.000
117	Sep/24/06	04:15:00	0.000	0.000	0.000
118	Sep/24/06	05:15:00	0.000	0.000	0.000
119	Sep/24/06	06:15:00	0.000	0.000	0.000
120	Sep/24/06	07:15:00	0.000	0.000	0.000
121	Sep/24/06	08:15:00	0.000	0.000	0.000
122	Sep/24/06	09:15:00	0.000	0.000	0.000
123	Sep/24/06	10:15:00	0.000	0.000	0.000
124	Sep/24/06	11:15:00	0.000	0.000	0.000
125	Sep/24/06	12:15:00	0.000	0.000	0.000
126	Sep/24/06	13:15:00	0.000	0.000	0.000
127	Sep/24/06	14:15:00	0.000	0.000	0.000
128	Sep/24/06	15:15:00	0.000	0.000	0.000
129	Sep/24/06	16:15:00	0.000	0.000	0.000
130	Sep/24/06	17:15:00	0.000	0.000	0.000
131	Sep/24/06	18:15:00	0.000	0.000	0.000
132	Sep/24/06	19:15:00	0.000	0.000	0.000
133	Sep/24/06	20:15:00	0.000	0.000	0.000
134	Sep/24/06	21:15:00	0.000	0.000	0.000
135	Sep/24/06	22:15:00	0.000	0.000	0.000
136	Sep/24/06	23:15:00	0.000	0.000	0.000
137	Sep/25/06	00:15:00	0.000	0.000	0.000
138	Sep/25/06	01:15:00	0.000	0.000	0.000
139	Sep/25/06	02:15:00	0.000	0.000	0.000
140	Sep/25/06	03:15:00	0.000	0.000	0.000
141	Sep/25/06	04:15:00	0.000	0.000	0.000
142	Sep/25/06	05:15:00	0.000	0.000	0.000
143	Sep/25/06	06:15:00	0.000	0.000	0.000
144	Sep/25/06	07:15:00	0.000	0.000	0.000
145	Sep/25/06	08:15:00	0.000	0.000	0.000
146	Sep/25/06	09:15:00	0.000	0.000	0.000
147	Sep/25/06	10:15:00	0.000	0.000	0.000
148	Sep/25/06	11:15:00	0.000	0.000	0.000
149	Sep/25/06	12:15:00	0.000	0.000	0.000
150	Sep/25/06	13:15:00	0.000	0.000	0.000
151	Sep/25/06	14:15:00	0.000	0.000	0.000
152	Sep/25/06	15:15:00	0.000	0.000	0.000
153	Sep/25/06	16:15:00	0.000	0.000	0.000
154	Sep/25/06	17:15:00	0.000	0.000	0.000
155	Sep/25/06	18:15:00	0.000	0.000	0.000
156	Sep/25/06	19:15:00	0.000	0.000	0.000
157	Sep/25/06	20:15:00	0.000	0.000	0.000
158	Sep/25/06	21:15:00	0.000	0.000	0.000
159	Sep/25/06	22:15:00	0.000	0.000	0.000
160	Sep/25/06	23:15:00	0.000	0.000	0.000
161	Sep/26/06	00:15:00	0.000	0.000	0.000
162	Sep/26/06	01:15:00	0.000	0.000	0.000
163	Sep/26/06	02:15:00	0.000	0.000	0.000
164	Sep/26/06	03:15:00	0.000	0.000	0.000
165	Sep/26/06	04:15:00	0.000	0.000	0.000
166	Sep/26/06	05:15:00	0.000	0.000	0.000
167	Sep/26/06	06:15:00	0.000	0.000	0.000
168	Sep/26/06	07:15:00	0.000	0.000	0.000
169	Sep/26/06	08:15:00	0.000	0.000	0.000
170	Sep/26/06	09:15:00	0.000	0.000	0.000
171	Sep/26/06	10:15:00	0.000	0.000	0.000
172	Sep/26/06	11:15:00	0.000	0.000	0.000
173	Sep/26/06	12:15:00	0.000	0.000	0.000
174	Sep/26/06	13:15:00	0.000	0.000	0.000
175	Sep/26/06	14:15:00	0.000	0.000	0.000
176	Sep/26/06	15:15:00	0.000	0.000	0.000
177	Sep/26/06	16:15:00	0.000	0.000	0.000
178	Sep/26/06	17:15:00	0.000	0.000	0.000
179	Sep/26/06	18:15:00	0.000	0.000	0.000
180	Sep/26/06	19:15:00	0.000	0.000	0.000
181	Sep/26/06	20:15:00	0.000	0.000	0.000
182	Sep/26/06	21:15:00	0.000	0.000	0.000
183	Sep/26/06	22:15:00	0.000	0.000	0.000
184	Sep/26/06	23:15:00	0.000	0.000	0.000
185	Sep/27/06	00:15:00	0.000	0.000	0.000
186	Sep/27/06	01:15:00	0.000	0.000	0.000
187	Sep/27/06	02:15:00	0.000	0.000	0.000
188	Sep/27/06	03:15:00	0.000	0.000	0.000
189	Sep/27/06	04:15:00	0.000	0.000	0.000
190	Sep/27/06	05:15:00	0.000	0.000	0.000
191	Sep/27/06	06:15:00	0.000	0.000	0.000
192	Sep/27/06	07:15:00	0.000	0.000	0.000
193	Sep/27/06	08:15:00	0.000	0.000	0.000
194	Sep/27/06	09:15:00	0.000	0.000	0.000
195	Sep/27/06	10:15:00	0.000	0.000	0.000
196	Sep/27/06	11:15:00	0.000	0.000	0.000
197	Sep/27/06	12:15:00	0.000	0.000	0.000
198	Sep/27/06	13:15:00	0.000	0.000	0.000
199	Sep/27/06	14:15:00	0.000	0.000	0.000
200	Sep/27/06	15:15:00	0.000	0.000	0.000
201	Sep/27/06	16:15:00	0.000	0.000	0.000
202	Sep/27/06	17:15:00	0.000	0.000	0.000
203	Sep/27/06	18:15:00	0.000	0.000	0.000
204	Sep/27/06	19:15:00	0.000	0.000	0.000
205	Sep/27/06	20:15:00	0.000	0.000	0.000
206	Sep/27/06	21:15:00	0.000	0.000	0.000
207	Sep/27/06	22:15:00	0.000	0.000	0.000
208	Sep/27/06	23:15:00	0.000	0.000	0.000
209	Sep/28/06	00:15:00	0.000	0.000	0.000
210	Sep/28/06	01:15:00	0.000	0.000	0.000
211	Sep/28/06	02:15:00	0.000	0.000	0.000
212	Sep/28/06	03:15:00	0.000	0.000	0.000
213	Sep/28/06	04:15:00	0.000	0.000	0.000
214	Sep/28/06	05:15:00	0.000	0.000	0.000
215	Sep/28/06	06:15:00	0.000	0.000	0.000
216	Sep/28/06	07:15:00	0.000	0.000	0.000
217	Sep/28/06	08:15:00	0.000	0.000	0.000
218	Sep/28/06	09:15:00	0.000	0.000	0.000
219	Sep/28/06	10:15:00	0.000	0.000	0.000
220	Sep/28/06	11:15:00	0.000	0.000	0.000
221	Sep/28/06	12:15:00	0.000	0.000	0.000
222	Sep/28/06	13:15:00	0.000	0.000	0.000
223	Sep/28/06	14:15:00	0.000	0.000	0.000
224	Sep/28/06	15:15:00	0.000	0.000	0.000
225	Sep/28/06	16:15:00	0.000	0.000	0.000
226	Sep/28/06	17:15:00	0.000	0.000	0.000
227	Sep/28/06	18:15:00	0.000	0.000	0.000
228	Sep/28/06	19:15:00	0.000	0.000	0.000
229	Sep/28/06	20:15:00	0.000	0.000	0.000
230	Sep/28/06	21:15:00	0.000	0.000	0.000
231	Sep/28/06	22:15:00	0.000	0.000	0.000
232	Sep/28/06	23:15:00	0.000	0.000	0.000
233	Sep/29/06	00:15:00	0.000	0.000	0.000
234	Sep/29/06	01:15:00	0.000	0.000	0.000
235	Sep/29/06	02:15:00	0.000	0.000	0.000
236	Sep/29/06	03:15:00	0.000	0.000	0.000
237	Sep/29/06	04:15:00	0.000	0.000	0.000
238	Sep/29/06	05:15:00	0.000	0.000	0.000
239	Sep/29/06	06:15:00	0.000	0.000	0.000
240	Sep/29/06	07:15:00	0.000	0.000	0.000
241	Sep/29/06	08:15:00	0.000	0.000	0.000
242	Sep/29/06	09:15:00	0.000	0.000	0.000
243	Sep/29/06	10:15:00	0.000	0.000	0.000
244	Sep/29/06	11:15:00	0.000	0.000	0.000
245	Sep/29/06	12:15:00	0.000	0.000	0.000
246	Sep/29/06	13:15:00	0.000	0.000	0.000
247	Sep/29/06	14:15:00	0.000	0.000	0.000
248	Sep/29/06	15:15:00	0.000	0.000	0.000
249	Sep/29/06	16:15:00	0.000	0.000	0.000
250	Sep/29/06	17:15:00	0.000	0.000	0.000
251	Sep/29/06	18:15:00	0.000	0.000	0.000
252	Sep/29/06	19:15:00	0.000	0.000	0.000
253	Sep/29/06	20:15:00	0.000	0.000	0.000
254	Sep/29/06	21:15:00	0.000	0.000	0.000
255	Sep/29/06	22:15:00	0.000	0.000	0.000
256	Sep/29/06	23:15:00	0.000	0.000	0.000
257	Sep/30/06	00:15:00	0.000	0.000	0.000
258	Sep/30/06	01:15:00	0.000	0.000	0.000
259	Sep/30/06	02:15:00	0.000	0.000	0.000
260	Sep/30/06	03:15:00	0.000	0.000	0.000

Baker Hughes

BAKER ATLAS

Well: QBR-7590
Field: Quebrada Blanca
County: Tarapacá
State: Tarapacá
Country: Chile
Other Services: Dual Induction Focused Log, Spectral Density Dual Spaced Neutron, Borehole Compensated Sonic, Gamma Ray, Caliper, Temperature
Permanent Datum: Ground Level
Elevation: 4,200 m
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing
Elevation: K.B. 4,204 m
D.F. 4,203 m
G.L. 4,200 m
Date: 09-Nov-06
Run Number: ONE
Depth Driller: 2,600 m
Depth Logger: 2,600 m
Bottom Logged Interval: 2,600 m
Top Logged Interval: 2,000 m
Casing Driller Size: 9 5/8 in @ 2,000 m
Casing Logger Size: 9 5/8 in @ 2,000 m
Bit Size: 8 1/2 in
Type Fluid in Hole: Water Based Mud
Density: 1.10 g/cm3
Viscosity: 45 s
Fluid Loss: 6.0 cc
Source of Sample: Flowline
Rm @ Measured Temp: 0.200 ohm-m @ 20 °C
Rmf @ Measured Temp: 0.150 ohm-m @ 20 °C
Rmc @ Measured Temp: 0.300 ohm-m @ 20 °C
Rm @ BHT: 0.100 ohm-m @ 90 °C
Max Recorded Temp: 90 °C
Equipment Number: 1-1-1
Location: Chile
Recorded By: Jorge Lopez
Witnessed By: Jorge Lopez

DUAL INDUCTION FOCUSED LOG
GAMMA RAY - SHORT SPACE
QBR-7590

Baker Atlas

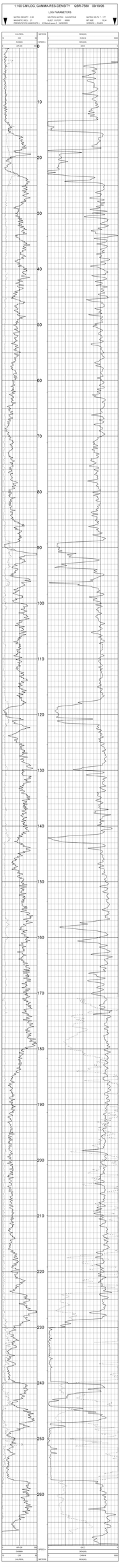
1:100 CM LOG, GAMMA-RES-DENSITY QBR-7590 09/19/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 MATRIX DELTA-T: 181
FLUID DENSITY: 1.00 FLUID DELTA-T: 189
PRESENT FLUID GRADIENT: 0.100 g/cm3 (water) SALINITY: 0.0000 ppm
SURFACE: 0.0 MPa

CALIPER 6 in 16 | MATRIX | MEDIAN 0 GAMMA API 150 | 0 DRHO g/cm3 0.5 | 0 DENSITY g/cm3 3

GAMMA API 0 in 150 | SPEED ~ | 0 CALIPER 6 in 16 | 0 DENSITY g/cm3 3 | 0 DRHO g/cm3 0.5



1:100 CM LOG, GAMMA-RES-DENSITY QBR-7590 09/19/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 MATRIX DELTA-T: 181
FLUID DENSITY: 1.00 FLUID DELTA-T: 189
PRESENT FLUID GRADIENT: 0.100 g/cm3 (water) SALINITY: 0.0000 ppm
SURFACE: 0.0 MPa

TOOL: CALIBRATION: QBR-7590 09/19/06 17:00
Tool Type: Tool Serial Number: Tool Name: Tool Length: Tool Diameter: 0 in

1	Start Time	09:06:00	0.0000	0.000	0.000	0.000	[LF]
2	Start Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
3	Stop Time	09:06:00	0.0000	0.000	0.000	0.000	[LF]
4	Stop Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
5	Start Time	10:19:00	0.0000	0.000	0.000	0.000	[LF]
6	Start Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
7	Stop Time	10:19:00	0.0000	0.000	0.000	0.000	[LF]
8	Stop Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
9	Start Time	12:31:00	0.0000	0.000	0.000	0.000	[LF]
10	Start Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
11	Stop Time	12:31:00	0.0000	0.000	0.000	0.000	[LF]
12	Stop Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
13	Start Time	14:43:00	0.0000	0.000	0.000	0.000	[LF]
14	Start Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
15	Stop Time	14:43:00	0.0000	0.000	0.000	0.000	[LF]
16	Stop Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
17	Start Time	16:54:00	0.0000	0.000	0.000	0.000	[LF]
18	Start Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
19	Stop Time	16:54:00	0.0000	0.000	0.000	0.000	[LF]
20	Stop Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
21	Start Time	19:06:00	0.0000	0.000	0.000	0.000	[LF]
22	Start Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]
23	Stop Time	19:06:00	0.0000	0.000	0.000	0.000	[LF]
24	Stop Depth	2600.00	0.0000	0.000	0.000	0.000	[LF]

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COMPANY	POSTROCK ENERGY CORPORATION
WELL	ROAMA 17TH
FIELD	WILDCAT - DEEPENED
COUNTY	TUMBLER RIDGE
STATE	BC
COUNTRY	CANADA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
AFI NO.	NA
SURVEY	NA
PROJECT WELL ID	NA
LOG MEASURED FROM	NA
DRILL MEASURED FROM	GL
ELEVATIONS	
ELEVATION OF KB	NA
ELEVATION OF DF	NA
ELEVATION OF GL	NA

OTHER SERVICES: NA

GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY RHTR 2005 - 04 DEEPENED

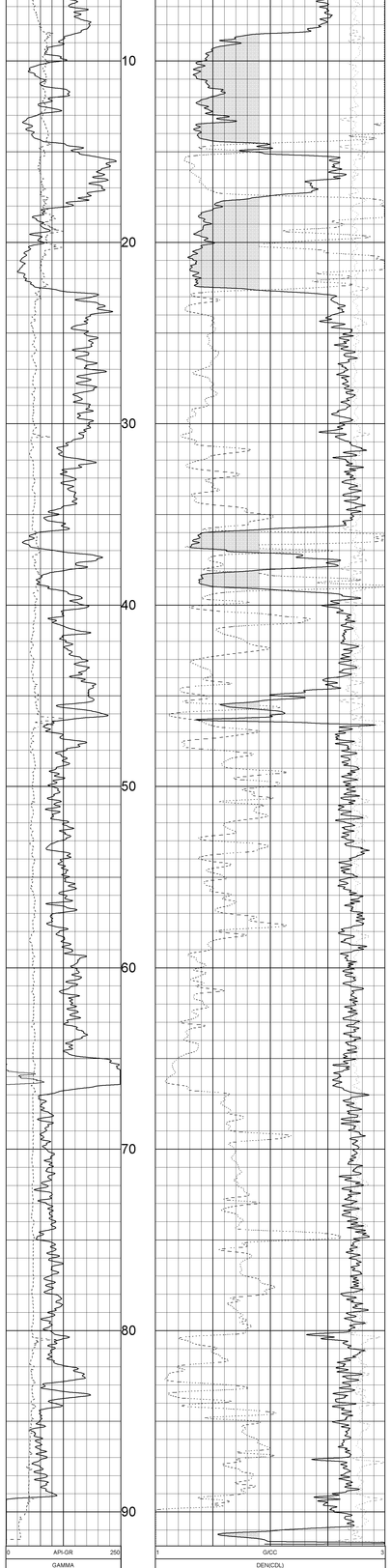
DATE	11/02/06
RUN NO.	1
DEPTH-DRILLER	97
DEPTH-LOGGER	96
BTM LOG INTERVAL	95.24
TOP LOG INTERVAL	8.26
CASING SIZE	9.5/8
CASING DEPTH	3
CASING BOTTOM	3
CASING DEPTH	3
BOREHOLE FLUID	WATER
FLUID LEVEL	FULL
RM TEMPERATURE	NA
RECORDED BY	MAD WRIGHT
WITNESSED BY	NA
VEHICLE	7-3
UNIT NO.	NA
OPERATOR	J. DEVANCE

TOOL STRING: RUGGEDFLEX/MAC/TRI-150 SNSRARES

ALL SERVICES UNDERGO SUBJECT TO CHANGES TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY RHTR 2005 - 04 11/02/06
DEEPENED
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C:0 10/25/2006		VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY RHTR 2005 - 04 11/02/06
DEEPENED
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C:0 10/25/2006		VERSION = 3.64EC

TOOL CALIBRATION RHTR 2005 - 04 11/02/06 11:13
TOOL 9239C TM VERSION 2016
SERIAL NUMBER 1268

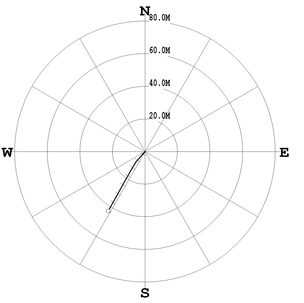
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct29,06	14:51:13	GAMMA	Default	[CPS]	Default	[CPS]
2	Oct29,06	14:51:13	GAMMA	283.000	[API-GR]	286.00	[CPS]
2	Oct29,06	14:51:37	VOLTAGE	3.650	[MV]	5358.00	[CPS]
2	Oct29,06	14:51:37	VOLTAGE	572.000	[MV]	76681.00	[CPS]
3	Oct29,06	14:53:08	CALIPER	2.540	[CM]	25725.00	[CPS]
3	Oct29,06	14:53:08	CALIPER	20.320	[CM]	433775.00	[CPS]
4	Oct29,06	14:53:26	DEN(LS)	1.000	[G/CC]	12604.00	[CPS]
4	Oct29,06	14:53:26	DEN(LS)	2.383	[G/CC]	1150.00	[CPS]
5	Oct29,06	14:53:44	DEN(SS)	1.000	[G/CC]	30487.00	[CPS]
5	Oct29,06	14:53:44	DEN(SS)	2.383	[G/CC]	8600.00	[CPS]
6	Oct29,06	14:54:07	CALIPER2L	10.160	[CM]	128735.00	[CPS]
6	Oct29,06	14:54:07	CALIPER2L	25.400	[CM]	304315.00	[CPS]
7	Oct29,06	14:54:27	CURRENT	99.600	[UA]	10946.00	[CPS]
7	Oct29,06	14:54:27	CURRENT	291.000	[UA]	29568.00	[CPS]
8	Oct29,06	14:54:52	F	Default	[CPS]		
9	Oct29,06	14:49:46	X	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RNTR 2005 - 04
DATE OF LOG: 11/02/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 80.08 M
AZIMUTH: 211.8
DISTANCE: 42.8 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



Century GEOPHYSICS CORP.
www.century-geo.com

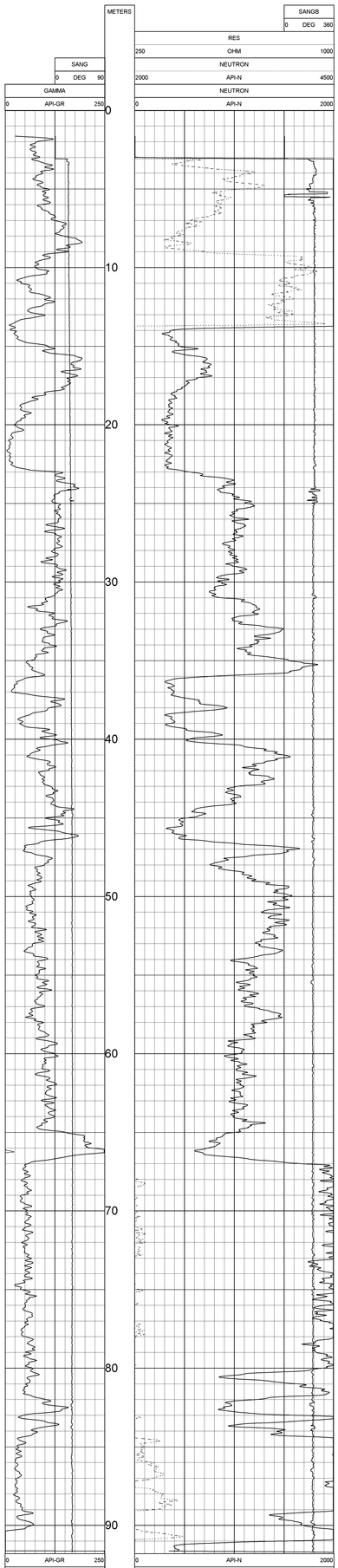
GAMMA - NEUTRON
RHTR 2005 - 04
DEEPENED

COMPANY	CONTINUE RESOURCES INC
WELL	RHTR 2005 - 04 DEEPENED
FIELD	ROSMAN KITH
COUNTY / PROVINCE	BRITISH COLUMBIA
LOCATION	NA
LOCATION	NA
TOWNSHIP	NA
RANGE	NA
LATITUDE	NA
LONGITUDE	NA
LANDGR WELL ID	NA
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILLING MEASURED FROM	GL
DATE	11/02/06
ELEVATION KB	NA
ELEVATION DF	NA
ELEVATION GL	NA
DATUM	SEA LEVEL
DENSITY	NA
BIT SIZE	15.24
DRILLER	9.14
LOG TOP	1.64
LOG BOTTOM	9.15
CASING SIZE	0.51
CASING BOTTOM	3
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
RM TEMPERATURE	NA
MAX TEMP	NA
MAX RES	NA
WITNESSED BY	NA
RECORDED BY	J. SINWACH
PROG VERSION	6.0
REMARKS 1	ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS
REMARKS 2	

100CM LOG, GAMMA-RES-NEUTRON RHTR 2005 - 04 11/02/06 DEEPENED

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9055A.0 10/29/2006 VERSION = 3.64EC



100CM LOG, GAMMA-RES-NEUTRON RHTR 2005 - 04 11/02/06 DEEPENED

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9055A.0 10/29/2006 VERSION = 3.64EC

TOOL CALIBRATION RHTR 2005 - 04 11/02/06 10:41
TOOL 9055A TM VERSION 3200
SERIAL NUMBER 237

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	08:41:30	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Sep27,06	08:41:30	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Feb25,99	00:19:39	POROSIT	Default	[CPS]		
3	Sep27,06	08:35:47	RES	0.000	[OHM]	9615.00	[CPS]
	Sep27,06	08:35:47	RES	100.000	[OHM]	7996.00	[CPS]
4	Sep27,06	08:36:00	SP	0.000	[MV]	1.00	[CPS]
	Sep27,06	08:36:00	SP	400.000	[MV]	2935.00	[CPS]
5	Oct10,06	12:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
	Oct10,06	12:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
6	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]
	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]

Company:	Continuum Geoservices Ltd.
Contact:	Continuum Geoservices Ltd.
Address:	3 Kingsway Place, Sherborne, Dorset, DT9 3QB, UK
Phone:	+44 (0) 1935 816 000
Fax:	+44 (0) 1935 816 001
Email:	continuum@geo.com
Operator:	Continuum Geoservices Ltd.
Contractor:	Continuum Geoservices Ltd.
Rig:	Continuum Geoservices Ltd.
Well:	RHTR 2006 - 04
Field:	Continuum Geoservices Ltd.
Location:	Continuum Geoservices Ltd.
Date:	09/05/06
Time:	11:43
Depth:	0.00 m
Comments:	

GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
RHTR 2006 - 04

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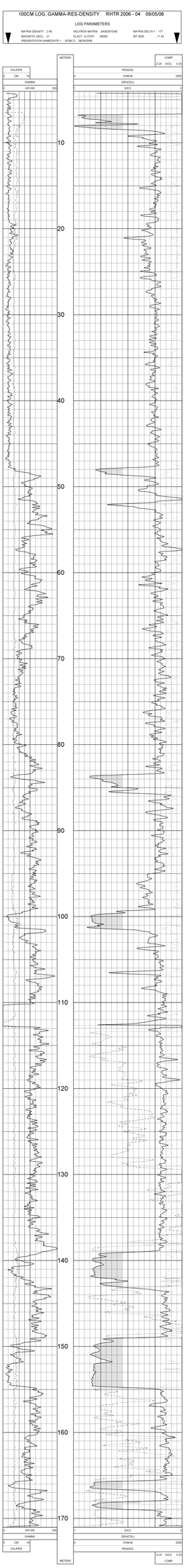


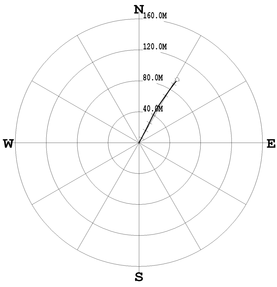
TOOL CALIBRATION: RHTR 2006 - 04 09/05/06 19:58
TOOL TYPE: 9206C.0 09/04/2006
SERIAL NUMBER: 4-0-0-0

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 04
DATE OF LOG: 09/05/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 20 M/CM
TRUE DEPTH: 147.22 M
AZIMUTH: 31.3
DISTANCE: 95.3 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



Baker Hughes INTEQ
www.bakerhughes.com
sdi@ap.spb.ru

GAMMA - DENSITY
(THERMOGRAPHIC)
RHTR 2006 - 04

Company:	Baker Hughes INTEQ
Contractor:	Sibdrilling
Rig:	Rhtr
Well:	Rhtr 2006 - 04
Field:	Rhtr
Region:	Yamal
Country:	Russia
Date:	08/29/06
Time:	00:00
Depth:	0 - 130 m
Operator:	Sibdrilling
Driller:	Sibdrilling
Logging Engineer:	Sibdrilling
Bit Size:	11.40
Mud Type:	Water
Mud Weight:	1.00
Mud Viscosity:	35
Mud Resistivity:	0.5
Mud Temperature:	10
Max Temperature:	10
Max Gamma:	300
Max Density:	3
Max Density Offset:	0.5
Max Density Offset:	0.5
Max Density Offset:	0.5

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continuum wireline ltd.
www.continuumwireline.com
Phone: 1-866-CWL-LOGS
Fax: 1-866-CWL-LOGS
Email: info@continuumwireline.com
Operator: Continuum Wireline Ltd.
Rig: Diamond Drill
Date: 08/29/06
Time: 11:45
Operator: Continuum Wireline Ltd.
Rig: Diamond Drill
Date: 08/29/06
Time: 11:45

GAMMA - NEUTRON (THRTR 2006 - 04)

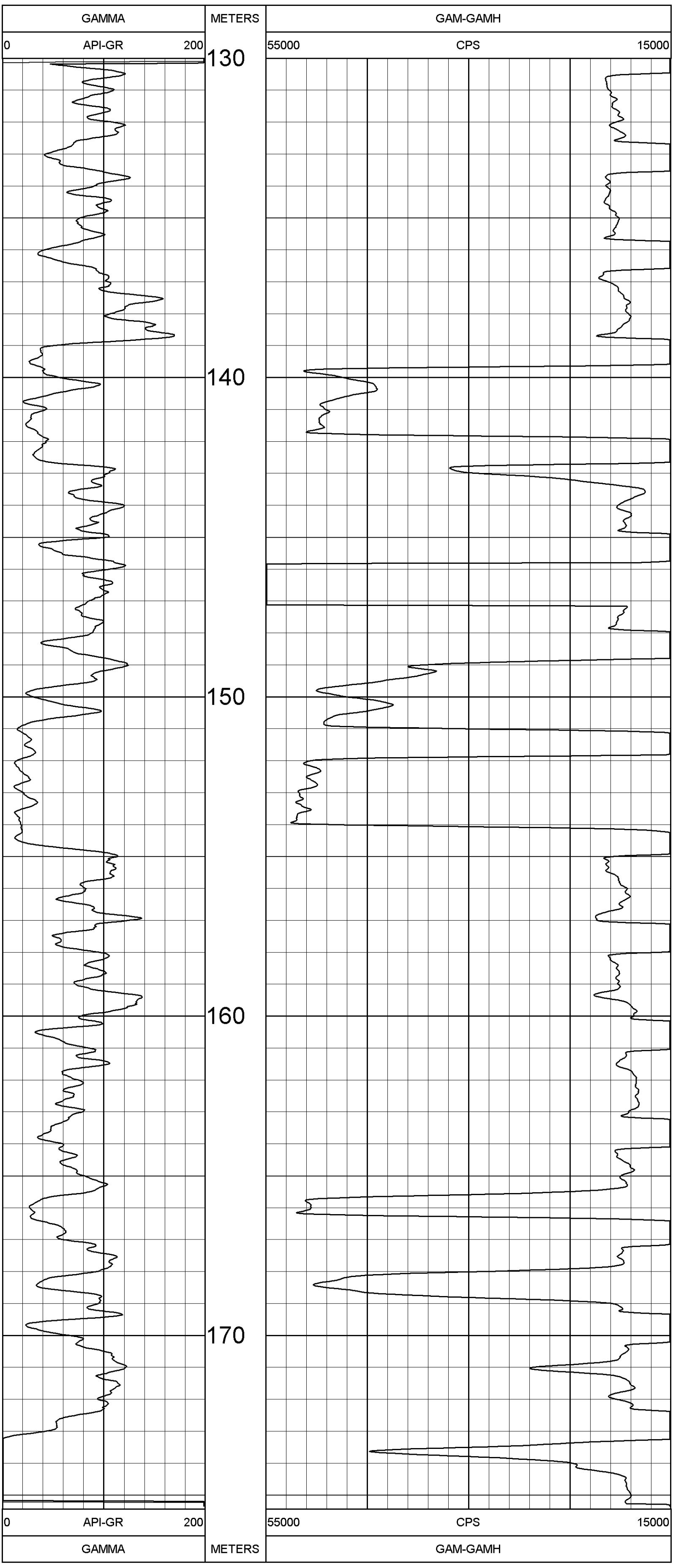
Hole Type: Diamond Drill
Hole Size: NQ
Casing: Not Cased
Fluid: Water
Logged From: 0.00 m
Logged To: 175.00 m
Logged Interval: 175.00 m
Logging Speed: 10 m/min
Logging Unit: 1
Logging Truck: 1
Logging Engineer: Brian Kerr
Witnessed By: Brian Kerr
Witnessed By: Brian Kerr

Drilling Company: Diamond Drill
Drilling Rig: Diamond Drill
Drill Bit: NQ
Drill Bit Depth: 175.00 m
Drill Bit Depth: 175.00 m
Drill Bit Depth: 175.00 m

100CM LOG, GAMMA-DENSITY SLIM 130m - RHTR 2006 - 04 08/29/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9068A.0 08/29/2006		



100CM LOG, GAMMA-DENSITY SLIM 130m - RHTR 2006 - 04 08/29/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9068A.0 08/29/2006		

TOOL CALIBRATION RHTR 2006 - 04 08/29/06 18:52
TOOL 9068A TM VERSION 3200
SERIAL NUMBER 640

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar06,02	11:27:22	GAMMA	Default	[CPS]	Default	[CPS]
	Mar06,02	11:27:22	GAMMA	105.000	[API-GR]	46.00	[CPS]

Century Geophysics

GAMMA - NEUTRON

RHTR 2006 - 04

Date	09/05/06
Time	11:45
Depth Scale	1:100
Depth Reference	GL
Logged Interval	0 - 170
Total Depth	170
Max Temp	30
Max Deviation	0
Fluid Level	Dry
Fluid Type	Air
Fluid Density	1.0
Fluid Viscosity	1.0
Fluid Resistivity	Infinite
Fluid Temp	30
Fluid Loss	0
Matrix Density	2.65
Neutron Matrix	Sandstone
Elect. Cutoff	50000
Bit Size	11.45
Casing Size	0
Casing Weight	0
Casing Depth	0
Cement Type	
Cement Density	
Cement Volume	
Cement Top	
Cement Bottom	
Equipment	1000CM GL
Recorded By	Bob Gorman
Witnessed By	Mr. Ryan
Operator	Bob Gorman
Comments	

Operator Signature

Witnessed By Signature

PRODUCED BY CENTURY GEOPHYSICAL CORPORATION, TULSA, OKLAHOMA

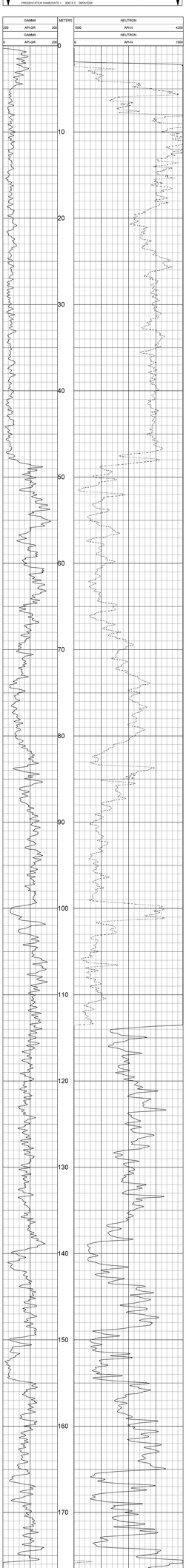
100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 04 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

MAGNETIC DECL. : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.45

PRESENTATION NAME/DATE = 90K7A.0 09/05/2006



100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 04 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

MAGNETIC DECL. : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.45

PRESENTATION NAME/DATE = 90K7A.0 09/05/2006

TOOL CALIBRATION: RHTR 2006 - 04 09/05/06 18:54
TOOL 90K7A TM VERSION 0200
SERIAL NUMBER 529

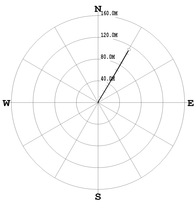
	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Mar01,02	15:09:58	GAMMA Default	[CPS]	Default [CPS]
2	Mar01,02	15:09:58	GAMMA Default	[API GR]	Default [CPS]
1	Feb22,06	09:07:12	NEUTRON Default	[CPS]	Default [CPS]
2	Feb22,06	09:07:12	NEUTRON Default	[CPS]	Default [CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: BONAR MTN
HOLE ID: BATH 2004 - 05
DATE OF LOG: 09/27/04
PROBE: 9411A/390:33

MAG DECL: 21.0

SCALE: 20 M/CM
TOTAL DEPTH: 148.50 M
AZIMUTH: 30.4
DISTANCE: 131.2 M
+ = 20 M INCR
O = BOTTOM OF HOLE



Century GEOPHYSICAL CORP.
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DIPMETER
RHTR 2006 - 05

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:RHTR 2006 - 05
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:
SECTION	:
TOWNSHIP	:
RANGE	:
API NO.	:
UNIQUE WELL ID.	:
PERMANENT DATUM	:GL ELEVATION KB :
LOG MEASURED FROM	:GL ELEVATION DF :
DRL MEASURED FROM	:GL ELEVATION GL :
DATE	:09/27/06
DEPTH DRILLER	:210
BIT SIZE	:7.62
LOG TOP	:175.00
LOG BOTTOM	:204.50
CASING OD	:15.24
CASING BOTTOM	:3.04
CASING TYPE	:STEEL
BOREHOLE FLUID	:
RM TEMPERATURE	:
MUD RES	:
MUD WEIGHT	:
WITNESSED BY	:NA
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

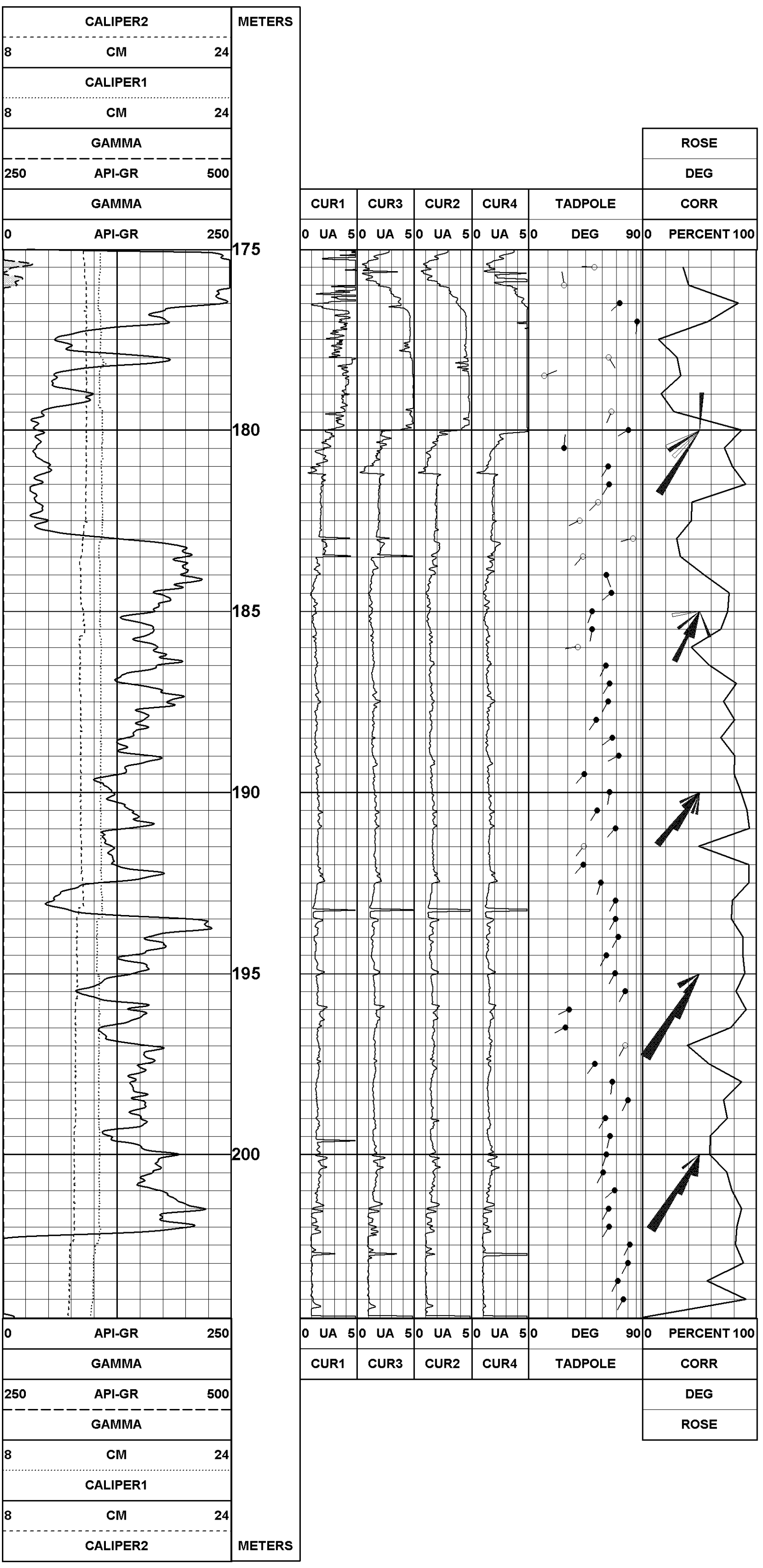
OTHER SERVICES:
DENSITY

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, DIPMETER RHTR 2006 - 05 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9411print j.0 08/24/2006



100CM LOG, DIPMETER RHTR 2006 - 05 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9411print j.0 08/24/2006

TOOL CALIBRATION RHTR 2006 - 05 09/27/06 19:17
TOOL 9056A TM VERSION 1
SERIAL NUMBER 33

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr18,06	06:59:19	GAMMA	Default	[CPS]	Default	[CPS]
	Apr18,06	06:59:19	GAMMA	Default	[CPS]	Default	[CPS]
2	Apr18,06	06:59:19	POROSIT	Default	[CPS]		
3	Apr18,06	06:59:19	RES	Default	[CPS]	Default	[CPS]
	Apr18,06	06:59:19	RES	Default	[CPS]	Default	[CPS]
4	Apr18,06	06:59:19	SP	Default	[CPS]	Default	[CPS]
	Apr18,06	06:59:19	SP	Default	[CPS]	Default	[CPS]
5	Apr18,06	06:59:19	NEUTRON	Default	[CPS]	Default	[CPS]
	Apr18,06	06:59:19	NEUTRON	Default	[CPS]	Default	[CPS]

Schlumberger

GAMMA, CALIPER, RESISTIVITY
UNCORRECTED DENSITY
RHTR 2006 - 6

www.slb.com

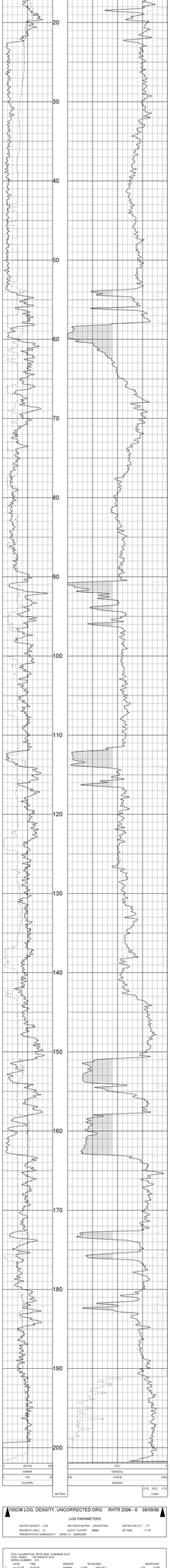
Well	RHTR 2006 - 6
Field	
County	
State	
Country	
Service Order	
Date	09/09/06
Time	
Logging Engineer	
Operating Rig Time	
Depth Reference	
Elevation	
Permanent Datum	
Log Measured From	
Drilling Measured From	
Max. Temp.	
Max. Rec. Temp.	
Circ. Stop Time	
Equipment Number	
Location	
Recorded By	
Witnessed By	
Run Number	1
Depth Driller	
Depth Logger	
Bottom Logged Interval	
Top Log Interval	
Casing Driller Size	
Casing Logger Size	
Bit Size	
Type Fluid in Hole	
Density	
Viscosity	
Fluid Loss	
Source of Sample	
Rm	
Rmf	
Rmc	
Rm @ Meas. Temp.	
Rmf @ Meas. Temp.	
Rmc @ Meas. Temp.	
Source Rmf / Rmc	
Rm @ BHT	
Time Since Circulation	
Time Since Cement Job	
Max. Rec. Temp.	
Equipment Location	
Recorded By	
Witnessed By	

Schlumberger Oilfield Services, 5599 San Felipe, Houston, Texas 77056

100CM LOG, DENSITY, UNCORRECTED ORG RHTR 2006 - 6 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX SANDSTONE MATRIX DELTA-T 177
MAGNETIC DECL : 21 ELECT. CUTOFF 50000 BIT SIZE 11.40
PRESENTATION NAMEDATE : SCHC 1.3 09/06/06



100CM LOG, DENSITY, UNCORRECTED ORG RHTR 2006 - 6 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX SANDSTONE MATRIX DELTA-T 177
MAGNETIC DECL : 21 ELECT. CUTOFF 50000 BIT SIZE 11.40
PRESENTATION NAMEDATE : SCHC 1.3 09/06/06

TOOL CALIBRATION: RHTR 2006 -6 SM3806 2D 47
TOOL TYPE: SLIM HOLE DENSITY
SERIAL NUMBER: 4410
ENGINEER: Jim Ryan

1	Aug22,06	19:58:38	GAMMA	0.000	[API GR]
2	Aug22,06	19:58:38	CALIPER	11.000	[CM]
3	Aug22,06	19:58:38	VOLTAGE	2.000	[MV]
4	Aug22,06	19:58:55	VOLTAGE	2016.000	[MV]
5	Aug22,06	19:58:55	CALIPER	11.000	[CM]
6	Aug22,06	19:58:55	CALIPER	17.780	[CM]
7	Aug22,06	19:58:55	GAMMA	0.000	[API GR]
8	Aug22,06	19:45:51	DENLEG	2.383	[G/CC]
9	Aug22,06	19:45:51	DENLEG	2.383	[G/CC]
10	Aug22,06	21:03:49	CALIPER1	8.490	[CM]
11	Aug22,06	21:03:49	CALIPER1	8.490	[CM]
12	Aug22,06	19:57:27	VOLTAGE	2.000	[MV]
13	Aug22,06	19:57:27	VOLTAGE	2.000	[MV]
14	Aug22,06	19:57:27	[illegible]	[illegible]	[illegible]
15	Aug22,06	19:57:27	Default	[illegible]	[illegible]

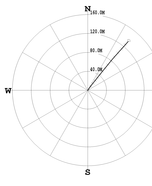
16	Aug22,06	19:57:27	Default	[illegible]	[illegible]
17	Aug22,06	19:57:27	Default	[illegible]	[illegible]
18	Aug22,06	19:57:27	Default	[illegible]	[illegible]
19	Aug22,06	19:57:27	Default	[illegible]	[illegible]
20	Aug22,06	19:57:27	Default	[illegible]	[illegible]
21	Aug22,06	19:57:27	Default	[illegible]	[illegible]
22	Aug22,06	19:57:27	Default	[illegible]	[illegible]
23	Aug22,06	19:57:27	Default	[illegible]	[illegible]
24	Aug22,06	19:57:27	Default	[illegible]	[illegible]
25	Aug22,06	19:57:27	Default	[illegible]	[illegible]
26	Aug22,06	19:57:27	Default	[illegible]	[illegible]
27	Aug22,06	19:57:27	Default	[illegible]	[illegible]
28	Aug22,06	19:57:27	Default	[illegible]	[illegible]
29	Aug22,06	19:57:27	Default	[illegible]	[illegible]
30	Aug22,06	19:57:27	Default	[illegible]	[illegible]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: BONNA MTM
HOLE ID: BATH 2004 - 6
DATE OF LOG: 09/09/04
CRUISE: 9411A 30G

MAG DECL: 21.0

SCALE: 20 M/CM
TRUE DEPTH: 149.49 M
AZIMUTH: 39.8
DISTANCE: 134.8 M
+ = 10 M INCR
* = BOTTOM OF HOLE



Company	Gardline Surveys
Contractor	Gardline Surveys
Vessel	Geoquest
Date	09/09/06
Time	11:45
Operator	Gardline Surveys
Supervisor	Gardline Surveys
Equipment	Gamma - Neutron
Location	Rhtr 2006 - 6
Comments	Gamma - Neutron
Depth Datum	Seabed
Tide Datum	Chart Datum
Tide	0.0
Water Depth	0.0
Layback	0.0
Cable Out	0.0
Winch Speed	0.0
Winch Tension	0.0
Ship Speed	0.0
Ship Course	0.0
Ship Heading	0.0
Ship Roll	0.0
Ship Pitch	0.0
Ship Heave	0.0
Ship Latitude	0.0
Ship Longitude	0.0
Ship Easting	0.0
Ship Northing	0.0
Ship Zone	0.0
Ship Datum	0.0
Ship Speed Over Ground	0.0
Ship Course Over Ground	0.0
Ship Heading Over Ground	0.0
Ship Roll Over Ground	0.0
Ship Pitch Over Ground	0.0
Ship Heave Over Ground	0.0
Ship Latitude Over Ground	0.0
Ship Longitude Over Ground	0.0
Ship Easting Over Ground	0.0
Ship Northing Over Ground	0.0
Ship Zone Over Ground	0.0
Ship Datum Over Ground

Geology

GAMMA - CALIPER - RESISTIVITY
COMPUTERISED TOMOGRAPHY
SCALE 1:50

RHTR 2006 - 10

Drilled		
Logged	06/07/06	
Checked		
Approved		

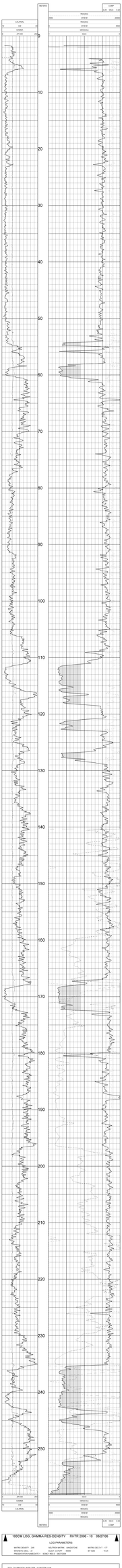
Hole Diameter	100 mm	
Casing Diameter		
Casing Depth		
Water Level		
Hole Inclination	Vertical	
Hole Azimuth		
Co-ordinates		
Grid		
Datum		
Elevation		
Total Depth	250 m	

Logged Interval	0 - 250 m
Max. Deflection	
Max. Temperature	
Max. Pressure	
Fluid Type	
Fluid Level	
Density	
Viscosity	
Operator	
Recorded by	
Witnessed by	

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 10 06/27/06

LOG PARAMETERS

MATRIX DENSITY: 2.65	NEUTRON MATRIX: SANDSTONE	MATRIX DELTA T: 171	
INFILLING DELL: 25	ELECT.CLIPOFF: 99999	MT SIZE:	HLM
PRESENTATION HORIZ.SCALE: 1	VERT.TRACE: 200	PER.DIV.	



100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 10 06/27/06

LOG PARAMETERS

MATRIX DENSITY: 2.65	NEUTRON MATRIX: SANDSTONE	MATRIX DELTA T: 171	
INFILLING DELL: 25	ELECT.CLIPOFF: 99999	MT SIZE:	HLM
PRESENTATION HORIZ.SCALE: 1	VERT.TRACE: 200	PER.DIV.	

TOOL CALIBRATION: BORE SIZE: 100 ELECTRODE: N.M.
TOOL TYPE: 2 ARM CALIPER
SERIAL NUMBER: 8421

1	Aug/22/06	16:06:56	CAMMA	0.000	API UNI	
2	Aug/22/06	16:06:56	CAMMA	0.000	API UNI	
3	Aug/22/06	16:06:56	CALIPER	0.000	CM	
4	Aug/22/06	16:06:56	CALIPER	0.000	CM	
5	Aug/22/06	16:06:56	CALIPER	0.000	CM	
6	Aug/22/06	16:06:56	CALIPER	0.000	CM	
7	Aug/22/06	16:06:56	CALIPER	0.000	CM	
8	Aug/22/06	16:06:56	CALIPER	0.000	CM	
9	Aug/22/06	16:06:56	CALIPER	0.000	CM	
10	Aug/22/06	16:06:56	CALIPER	0.000	CM	
11	Aug/22/06	16:06:56	CALIPER	0.000	CM	
12	Aug/22/06	16:06:56	CALIPER	0.000	CM	
13	Aug/22/06	16:06:56	CALIPER	0.000	CM	
14	Aug/22/06	16:06:56	CALIPER	0.000	CM	
15	Aug/22/06	16:06:56	CALIPER	0.000	CM	
16	Aug/22/06	16:06:56	CALIPER	0.000	CM	
17	Aug/22/06	16:06:56	CALIPER	0.000	CM	
18	Aug/22/06	16:06:56	CALIPER	0.000	CM	
19	Aug/22/06	16:06:56	CALIPER	0.000	CM	
20	Aug/22/06	16:06:56	CALIPER	0.000	CM	
21	Aug/22/06	16:06:56	CALIPER	0.000	CM	
22	Aug/22/06	16:06:56	CALIPER	0.000	CM	
23	Aug/22/06	16:06:56	CALIPER	0.000	CM	
24	Aug/22/06	16:06:56	CALIPER	0.000	CM	
25	Aug/22/06	16:06:56	CALIPER	0.000	CM	
26	Aug/22/06	16:06:56	CALIPER	0.000	CM	
27	Aug/22/06	16:06:56	CALIPER	0.000	CM	
28	Aug/22/06	16:06:56	CALIPER	0.000	CM	
29	Aug/22/06	16:06:56	CALIPER	0.000	CM	
30	Aug/22/06	16:06:56	CALIPER	0.000	CM	
31	Aug/22/06	16:06:56	CALIPER	0.000	CM	
32	Aug/22/06	16:06:56	CALIPER	0.000	CM	
33	Aug/22/06	16:06:56	CALIPER	0.000	CM	
34	Aug/22/06	16:06:56	CALIPER	0.000	CM	
35	Aug/22/06	16:06:56	CALIPER	0.000	CM	
36	Aug/22/06	16:06:56	CALIPER	0.000	CM	
37	Aug/22/06	16:06:56	CALIPER	0.000	CM	
38	Aug/22/06	16:06:56	CALIPER	0.000	CM	
39	Aug/22/06	16:06:56	CALIPER	0.000	CM	
40	Aug/22/06	16:06:56	CALIPER	0.000	CM	
41	Aug/22/06	16:06:56	CALIPER	0.000	CM	
42	Aug/22/06	16:06:56	CALIPER	0.000	CM	
43	Aug/22/06	16:06:56	CALIPER	0.000	CM	
44	Aug/22/06	16:06:56	CALIPER	0.000	CM	
45	Aug/22/06	16:06:56	CALIPER	0.000	CM	
46	Aug/22/06	16:06:56	CALIPER	0.000	CM	
47	Aug/22/06	16:06:56	CALIPER	0.000	CM	
48	Aug/22/06	16:06:56	CALIPER	0.000	CM	
49	Aug/22/06	16:06:56	CALIPER	0.000	CM	
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51	Aug/22/06	16:06:56	CALIPER	0.000	CM	
52	Aug/22/06	16:06:56	CALIPER	0.000	CM	
53	Aug/22/06	16:06:56	CALIPER	0.000	CM	
54	Aug/22/06	16:06:56	CALIPER	0.000	CM	
55	Aug/22/06	16:06:56	CALIPER	0.000	CM	
56	Aug/22/06	16:06:56	CALIPER	0.000	CM	
57	Aug/22/06	16:06:56	CALIPER	0.000	CM	
58	Aug/22/06	16:06:56	CALIPER	0.000	CM	
59	Aug/22/06	16:06:56	CALIPER	0.000	CM	
60	Aug/22/06	16:06:56	CALIPER	0.000	CM	
61	Aug/22/06	16:06:56	CALIPER	0.000	CM	
62	Aug/22/06	16:06:56	CALIPER	0.000	CM	
63	Aug/22/06	16:06:56	CALIPER	0.000	CM	
64	Aug/22/06	16:06:56	CALIPER	0.000	CM	
65	Aug/22/06	16:06:56	CALIPER	0.000	CM	
66	Aug/22/06	16:06:56	CALIPER	0.000	CM	
67	Aug/22/06	16:06:56	CALIPER	0.000	CM	
68	Aug/22/06	16:06:56	CALIPER	0.000	CM	
69	Aug/22/06	16:06:56	CALIPER	0.000	CM	
70	Aug/22/06	16:06:56	CALIPER	0.000	CM	
71	Aug/22/06	16:06:56	CALIPER	0.000	CM	
72	Aug/22/06	16:06:56	CALIPER	0.000	CM	
73	Aug/22/06	16:06:56	CALIPER	0.000	CM	
74	Aug/22/06	16:06:56	CALIPER	0.000	CM	
75	Aug/22/06	16:06:56	CALIPER	0.000	CM	
76	Aug/22/06	16:06:56	CALIPER	0.000	CM	
77	Aug/22/06	16:06:56	CALIPER	0.000	CM	
78	Aug/22/06	16:06:56	CALIPER	0.000	CM	
79	Aug/22/06	16:06:56	CALIPER	0.000	CM	
80	Aug/22/06	16:06:56	CALIPER	0.000	CM	
81	Aug/22/06	16:06:56	CALIPER	0.000	CM	
82	Aug/22/06	16:06:56	CALIPER	0.000	CM	
83	Aug/22/06	16:06:56	CALIPER	0.000	CM	
84	Aug/22/06	16:06:56	CALIPER	0.000	CM	
85	Aug/22/06	16:06:56	CALIPER	0.000	CM	
86	Aug/22/06	16:06:56	CALIPER	0.000	CM	
87	Aug/22/06	16:06:56	CALIPER	0.000	CM	
88	Aug/22/06	16:06:56	CALIPER	0.000	CM	
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90	Aug/22/06	16:06:56	CALIPER	0.000	CM	
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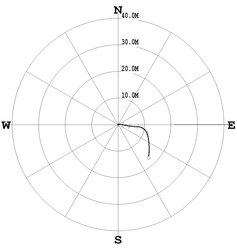
95	Aug/22/06	16:06:56	CALIPER	0.000	CM	
96	Aug/22/06	16:06:56	CALIPER	0.000	CM	
97	Aug/22/06	16:06:56	CALIPER	0.000	CM	
98	Aug/22/06	16:06:56	CALIPER	0.000	CM	
99	Aug/22/06	16:06:56	CALIPER	0.000	CM	
100	Aug/22/06	16:06:56	CALIPER	0.000	CM	

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RMTN 2004 - 10
DATE OF LOG: 08/27/04
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 256.92 M
AZIMUTH: 137.4
DISTANCE: 17.0 M
+ = 50 M INCR
◦ = BOTTOM OF HOLE



Baitty oilfield services
century geo.com

WELL	DIPMETER
FIELD	RHTR 2006 - 10
COUNTY	
STATE	
COMPANY	CENTURY GEOPHYSICAL INC
RIG	
DATE	08/27/06
ELEVATION	
DATUM	
DRILLER	
LOGGER	
BIT SIZE	
CASING	
DENSITY	
VISC	
PH	
FLUID LOSS	
RM @ MEAS TEMP	
RMF @ MEAS TEMP	
RMC @ MEAS TEMP	
RM @ BHT	
MAX REC TEMP	
EQUIP.	CH-TC-1010
LOC.	0 N 0 E
RECORDED BY	
WITNESSED BY	

REMARKS 1 DIPMETER RECORDED IN ONE LOG STACKED FOR MULTI DIP PROCESSING

REMARKS 2 SHOP

REMARKS 3 SHOP

REMARKS 4 SHOP

REMARKS 5 SHOP

REMARKS 6 SHOP

REMARKS 7 SHOP

REMARKS 8 SHOP

REMARKS 9 SHOP

REMARKS 10 SHOP

REMARKS 11 SHOP

REMARKS 12 SHOP

REMARKS 13 SHOP

REMARKS 14 SHOP

REMARKS 15 SHOP

REMARKS 16 SHOP

REMARKS 17 SHOP

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REMARKS 32 SHOP

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REMARKS 35 SHOP

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REMARKS 88 SHOP

REMARKS 89 SHOP

REMARKS 90 SHOP

REMARKS 91 SHOP

REMARKS 92 SHOP

REMARKS 93 SHOP

REMARKS 94 SHOP

REMARKS 95 SHOP

REMARKS 96 SHOP

REMARKS 97 SHOP

REMARKS 98 SHOP

REMARKS 99 SHOP

REMARKS 100 SHOP

NEUTRON MATRIX	SANDSTONE
ELECT. CUTOFF	50000
DIPMETER PROCESSING	
DIP CUTOFF	15 %
DIP SIGMA CUTOFF	20 %
DIP SIGMA CUTOFF	20 %
DIP SIGMA CUTOFF	20

Company	Geoby
Well	RHTR 2006 - 10
Field	
Location	
Date	09/27/06
Operator	
Comments	GAMMA - NEUTRON - RES
Depth Reference	
Elevation	
Logging Unit	
Logging Engineer	
Witnessed By	
Bit Size	
Casing Size	
Max Temp	
Max Deviation	
Max Dogleg	
Max Pull	
Max Speed	
Max Tension	
Max Pressure	
Max Flow	
Max Density	
Max Viscosity	
Max Chlorides	
Max Resistivity	
Max Sand	
Max Solids	
Max Water Loss	
Max Temp Duration	
Max Pressure Duration	
Max Flow Duration	
Max Density Duration	
Max Viscosity Duration	
Max Chlorides Duration	
Max Resistivity Duration	
Max Sand Duration	
Max Solids Duration	
Max Water Loss Duration	
Max Temp Date	
Max Pressure Date	
Max Flow Date	
Max Density Date	
Max Viscosity Date	
Max Chlorides Date	
Max Resistivity Date	
Max Sand Date	
Max Solids Date	
Max Water Loss Date	
Max Temp Time	
Max Pressure Time	
Max Flow Time	
Max Density Time	
Max Viscosity Time	
Max Chlorides Time	
Max Resistivity Time	
Max Sand Time	
Max Solids Time	
Max Water Loss Time	
Max Temp Depth	
Max Pressure Depth	
Max Flow Depth	
Max Density Depth	
Max Viscosity Depth	
Max Chlorides Depth	
Max Resistivity Depth	
Max Sand Depth	
Max Solids Depth	
Max Water Loss Depth

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GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY
RHTR 2006 - 14

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:RHTR 2006 - 14
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA

OTHER SERVICES:
NEUTRON
DIP
NA

LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID	:NA
PERMANENT DATUM	:GL
LOG MEASURED FROM	:GL
DRL MEASURED FROM	:GL

ELEVATION KB :NA
ELEVATION DF :NA
ELEVATION GL :NA

DATE	:09/05/06
DEPTH DRILLER	:60
BIT SIZE	:15.24
LOG TOP	:3.23
LOG BOTTOM	:58.51
CASING OD	:16.51
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:HOLE ANGLE: 60 DEGREES AZIMUTH: 25 DEGREES
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

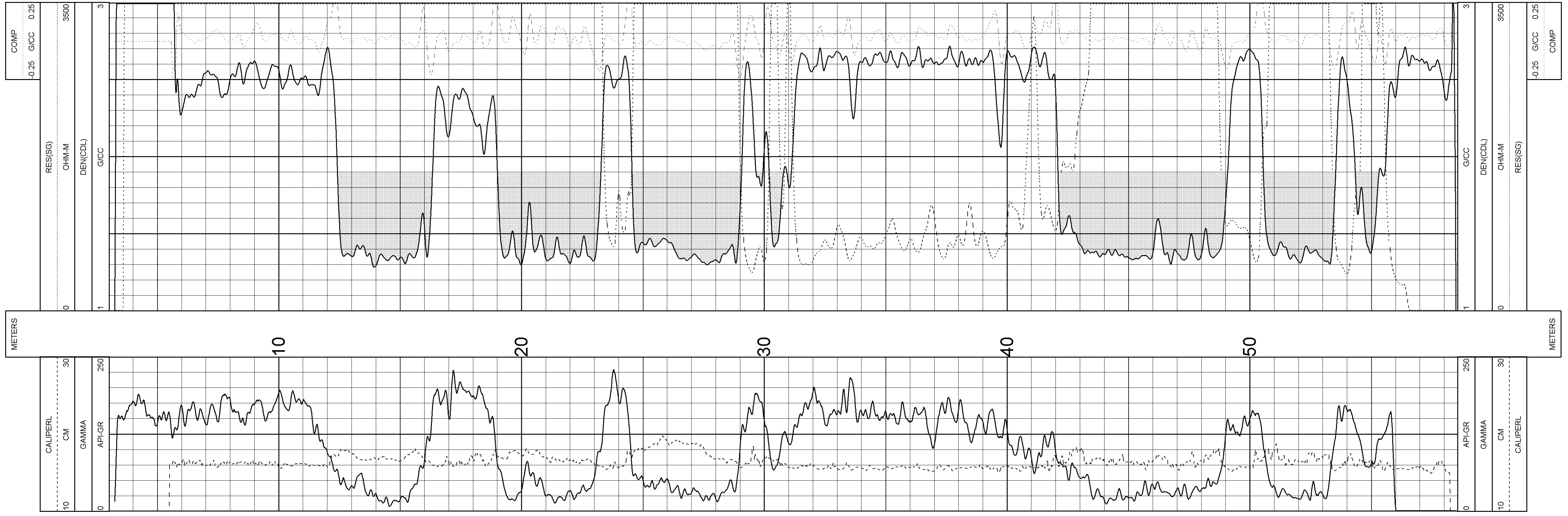
100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 14 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24



100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 14 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24

TOOL CALIBRATION RHTR 2006 - 14 09/05/06 14:16
SERIAL NUMBER : 9239C1
TOOL TYPE : TM VERSION 2015

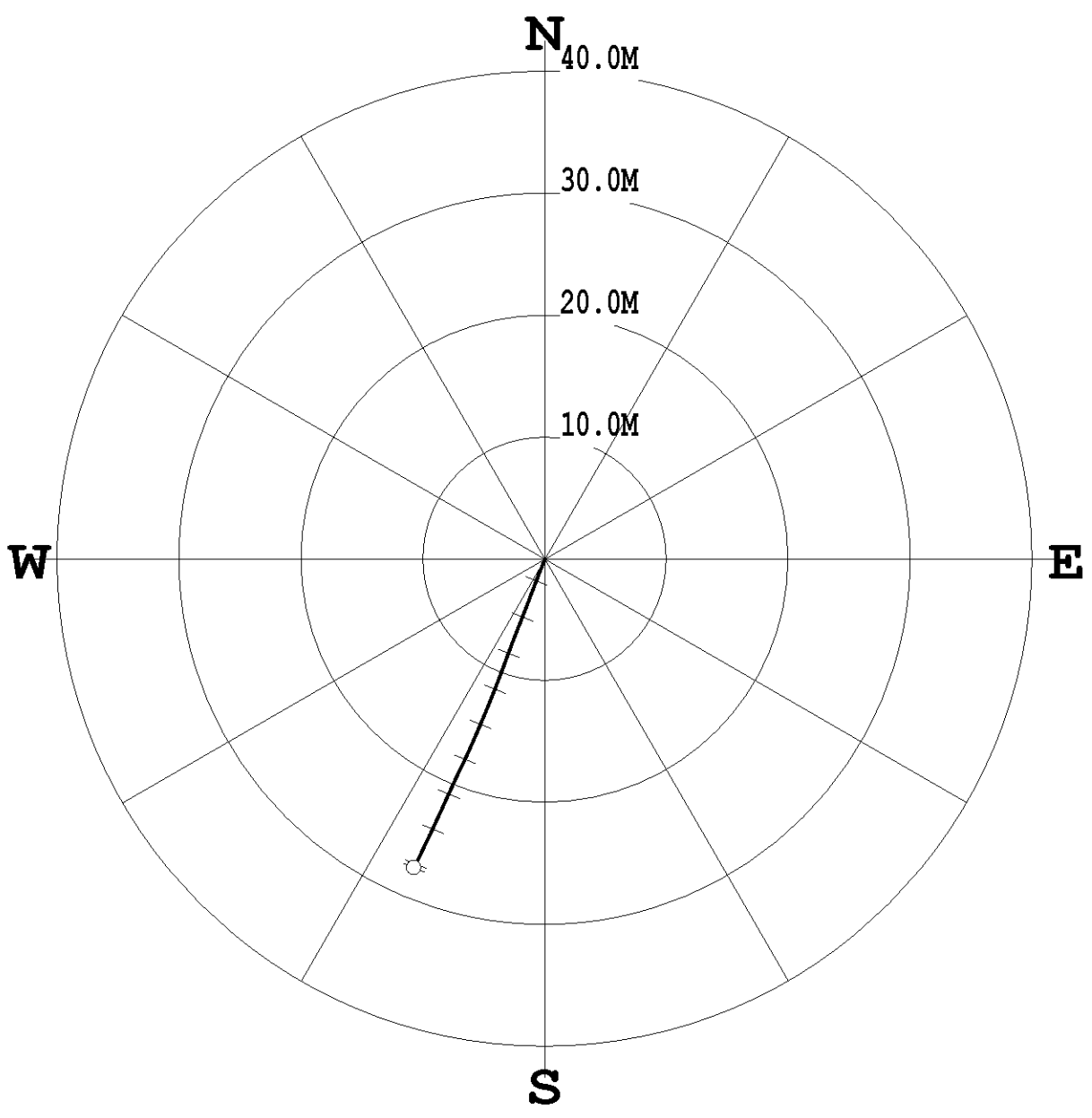
	DATE	TIME	SENSOR	STANDARD	RESPONSE
			GAMMA	0.000 [API/GR]	2.00 [CPS]
1	Aug22,08	18:59:38	GAMMA	283.000 [API/GR]	270.00 [CPS]
2	Aug22,08	18:59:38	VOLTAGE	1000.000 [MV]	4667.00 [CPS]
2	Aug22,08	18:59:55	VOLTAGE	2019.000 [MV]	27283.00 [CPS]
3	Aug22,08	18:59:55	CALIPER	8.880 [CM]	1535225.00 [CPS]
3	Aug22,08	20:50:53	CALIPER	17.780 [CM]	3400172.00 [CPS]
4	Aug22,08	20:50:53	DEN(LS)	1.000 [G/CC]	1253.00 [CPS]
4	Aug29,08	14:45:57	DEN(LS)	2.383 [G/CC]	1206.00 [CPS]
5	Aug29,08	14:45:57	DEN(SS)	1.000 [G/CC]	2700.00 [CPS]
5	Aug29,08	14:48:03	DEN(SS)	2.383 [G/CC]	8903.00 [CPS]
6	Aug29,08	14:48:03	CALIPER(L)	8.880 [CM]	1169715.00 [CPS]
6	Aug29,08	21:03:45	CALIPER(L)	25.400 [CM]	3080310.00 [CPS]
7	Aug29,08	21:03:45	CURRENT	0.000 [UA]	52710.00 [CPS]
7	Aug29,08	19:01:00	CURRENT	289.000 [UA]	26912.00 [CPS]
8	Aug29,08	19:01:00	F	Default [CPS]	
	Aug29,08	19:01:07			

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 14
DATE OF LOG: 09/05/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 50.52 M
AZIMUTH: 203.0
DISTANCE: 27.5 M
+ = 5 M INCR
○ = BOTTOM OF HOLE



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DIPMETER
RHTR 2006 - 14

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:RHTR 2006 - 14
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:09/05/06
DEPTH DRILLER	:60
BIT SIZE	:15.24
LOG TOP	:0.26
LOG BOTTOM	:57.50
CASING OD	:16.51
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:HOLE ANGLE: 60 DEGREES AZIMUTH: 25 DEGREES
REMARKS 2	:

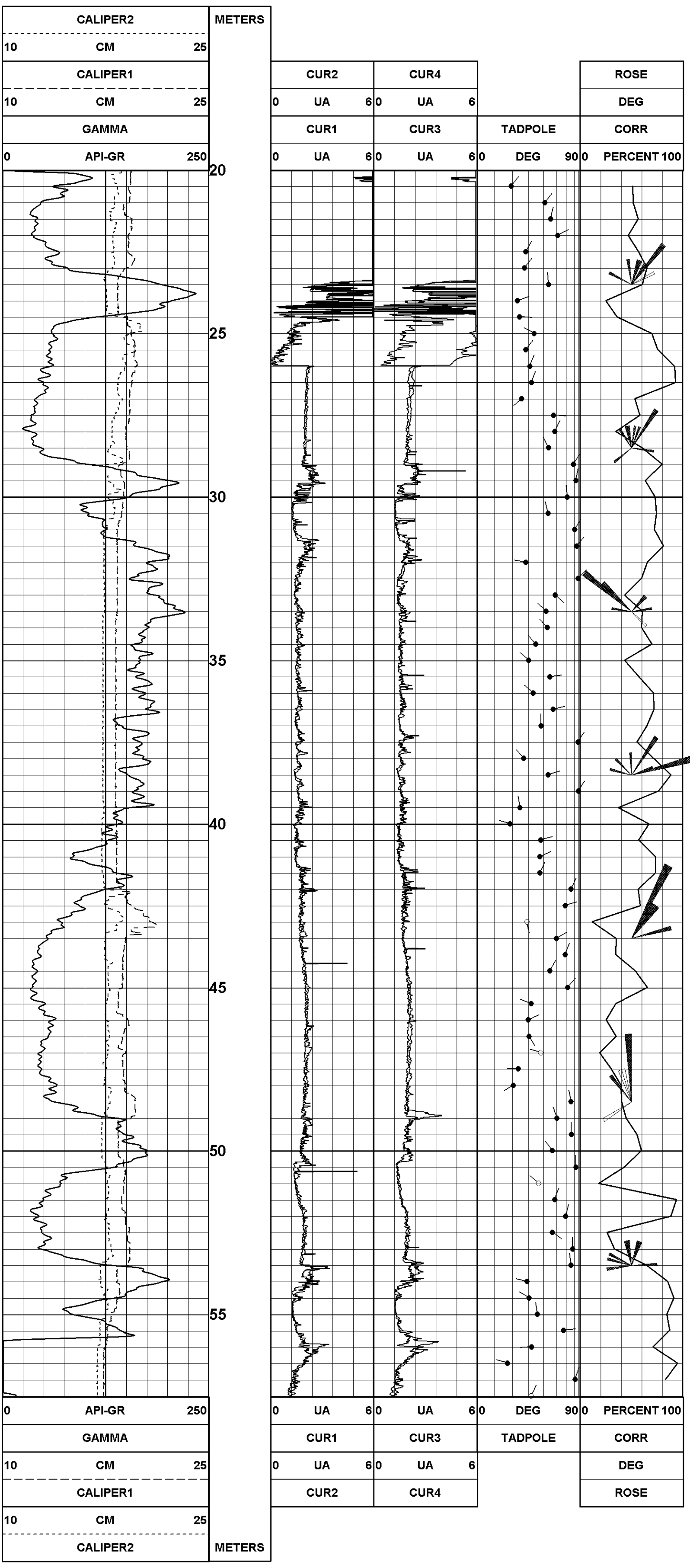
OTHER SERVICES:
DENSITY
NEUTRON
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, DIPMETER RHTR 2006 - 14 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = dipmcurrent-390.0 03/27/2006



100CM LOG, DIPMETER RHTR 2006 - 14 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = dipmcurrent-390.0 03/27/2006

TOOL CALIBRATION RHTR 2006 - 14 09/05/06 14:46
TOOL 9411A TM VERSION 9200
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,05	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
	Jul27,05	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,05	09:21:29	VOLTAG	104.800	[MV]	720.00	[CPS]
	Aug02,05	09:21:29	VOLTAG	350.700	[MV]	2360.00	[CPS]
3	Aug02,05	10:37:25	CUR1	4.213	[UA]	7855.00	[CPS]
	Aug02,05	10:37:25	CUR1	0.000	[UA]	80.00	[CPS]
4	Aug02,05	09:27:32	CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,05	09:27:32	CUR2	0.000	[UA]	105.00	[CPS]
5	Aug02,05	09:24:02	CUR3	4.250	[UA]	7900.00	[CPS]
	Aug02,05	09:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,05	09:26:09	CUR4	4.270	[UA]	7860.00	[CPS]
	Aug02,05	09:26:09	CUR4	0.000	[UA]	180.00	[CPS]
7	Feb18,06	10:59:53	CALIPER'	15.240	[INCH]	9145.00	[CPS]
	Feb18,06	10:59:53	CALIPER'	30.480	[INCH]	2208.00	[CPS]

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GAMMA - NEUTRON
RHTR 2006 - 14

COMPANY	NORTHERN ENERGY MINING INC.
WELL	RHTR 2006 - 14
FIELD	ROMAN MTN
COUNTY	TUMBLER RIDGE
STATE	BRITISH COLUMBIA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
API NO	NA
UNIQUE WELL ID	NA
PERMANENT DATUM : GL	
LOG MEASURED FROM GL	ELEVATION KB NA
DRL MEASURED FROM GL	ELEVATION DF NA
	ELEVATION GL NA
DATE	09/05/06
DEPTH DRILLER	60
BIT SIZE	15.24
LOG TOP	0.24
LOG BOTTOM	56.21
CASING OD	16.51
CASING BOTTOM	NA
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
RMT TEMPERATURE	NA
MUD RES	NA
MUD WEIGHT	NA
WITNESSED BY	NA
RECORDED BY	J. SIWACH
REMARKS 1	HOLE ANGLE: 90 DEGREES AZIMUTH: 25 DEGREES
REMARKS 2	

OTHER SERVICES: DENSITY, DIP, NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 14 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9067A.0 09/05/2006		

100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 14 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9067A.0 09/05/2006		

TOOL CALIBRATION RHTR 2006 - 14 09/05/06 14:31
TOOL 9067A TM VERSION 3200
SERIAL NUMBER 529

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar01,02	15:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01,02	15:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]
	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]

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COMPANY	ROCKHOUSE ENERGY CORPORATION
WELL	RHTR 2006 - 15
FIELD	RHTR
COUNTY	SUMMER ROSE
STATE	SASKATCHEWAN CANADA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
DATE	NA
LICENCE NO.	NA
API NO.	NA
LOGGED	NA
RUN NO.	ONE
DATE	09/05/06
DEPTH DRILLER	120.
DEPTH LOGGER	119.88
LOG BOTTOM	119.88
LOG INTERVAL	119.88
CASING SIZE	114.3
CASING BOTTOM	0.24
BIT SIZE	15.24
DRILL FLUID	WATER
BOREHOLE FLUID	WATER
PH	NA
RM TEMPERATURE	NA
MAX TEMPERATURE	NA
MAX WT.	NA
MAX WEIGHT	NA
RECORDED BY	J. STANSKI
WITNESS	J. STANSKI
REMARKS 1	
REMARKS 2	
1. TOOL CALIBRATION ON FILE WITH CENTURY GEOPHYSICAL CORPORATION	

DEPTH REFERENCE: KB
ELEVATION OF KB: NA
ELEVATION GL: NA

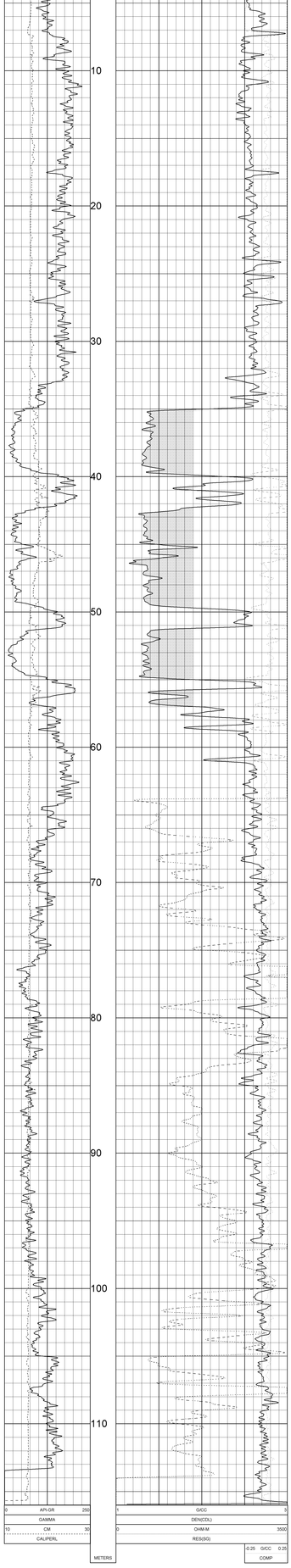
DATE OF SERVICE: 09/05/06
LOCATION: AR

GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY
RHTR 2006 - 15

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 15 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 923GC1 0 06/05/2006		



100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 15 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 923GC1 0 06/05/2006		

TOOL CALIBRATION: RHTR 2006 - 15 09/05/06 12:40
TOOL 923GC1 TM VERSION 2015
SERIAL NUMBER 410

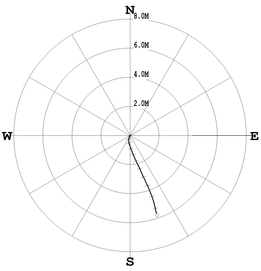
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22.06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22.06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22.06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22.06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22.06	20:50:53	CALIPER	7.620	[CM]	361025.00	[CPS]
	Aug22.06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug28.06	14:45:57	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Aug28.06	14:45:57	DEN(LS)	2.383	[G/CC]	1296.00	[CPS]
5	Aug28.06	14:46:03	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug28.06	14:46:03	DEN(SS)	2.383	[G/CC]	9503.00	[CPS]
6	Aug22.06	21:03:45	CALIPER1L	8.890	[CM]	116875.00	[CPS]
	Aug22.06	21:03:45	CALIPER1L	17.780	[CM]	116875.00	[CPS]
7	Aug22.06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22.06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22.06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROWAN MTN
HOLE ID: RETR 2006 - 15
DATE OF LOG: 09/05/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 115.83 M
AZIMUTH: 161.3
DISTANCE: 5.8 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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DIPMETER

RHTR 2006 - 15

COMPANY	:NORTHERN ENERGY MINING INC	OTHER SERVICES:	
WELL	:RHTR 2006 - 15	DENSITY	
FIELD	:ROMAN MTN	NEUTRON	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA		
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB :NA	
LOG MEASURED FROM	:GL	ELEVATION DF :NA	
DRL MEASURED FROM	:GL	ELEVATION GL :NA	
DATE	:09/05/06		
DEPTH DRILLER	:120		
BIT SIZE	:15.24		
LOG TOP	:0.40		
LOG BOTTOM	:115.50		
CASING OD	:16.51		
CASING BOTTOM	:NA		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:NA		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, DIPMETER RHTR 2006 - 15 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL : 21
PRESENTATION NAME/DATE = dipmcurvent:390.0 03/27/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24

100CM LOG, DIPMETER RHTR 2006 - 15 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL : 21
PRESENTATION NAME/DATE = dipmcurvent:390.0 03/27/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24

TOOL CALIBRATION RHTR 2006 - 15 09/05/06 13:23
TOOL 9411A TM VERSION 9200
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE
1	Jul27.05	10:45:12	GAMMA	Default	[CPS]	Default [CPS]
	Jul27.05	10:45:12	GAMMA	Default	[CPS]	Default [CPS]
2	Aug02.05	09:21:29	VOLTAG	104.800	[MV]	720.00 [CPS]
	Aug02.05	09:21:29	VOLTAG	354.000	[MV]	2430.00 [CPS]
3	Aug02.05	10:37:25	CUR1	4.213	[UA]	7855.00 [CPS]
	Aug02.05	10:37:25	CUR1	0.000	[UA]	80.00 [CPS]
4	Aug02.05	09:27:32	CUR2	4.177	[UA]	7910.00 [CPS]
	Aug02.05	09:27:32	CUR2	0.000	[UA]	80.00 [CPS]
5	Aug02.05	09:24:02	CUR3	4.259	[UA]	7900.00 [CPS]
	Aug02.05	09:24:02	CUR3	0.000	[UA]	140.00 [CPS]
6	Aug02.05	09:26:09	CUR4	4.270	[UA]	7860.00 [CPS]
	Aug02.05	09:26:09	CUR4	0.000	[UA]	180.00 [CPS]
7	Feb18.06	10:59:53	CALIPER:	15.000	[INCH]	91.00 [CPS]
	Feb18.06	10:59:53	CALIPER:	30.480	[INCH]	2208.00 [CPS]

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GAMMA - NEUTRON
RHTR 2006 - 15

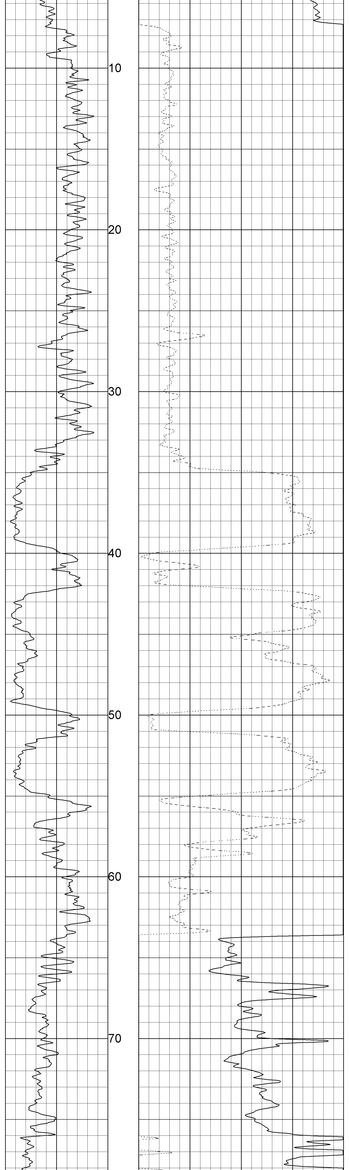
COMPANY	ROCKY HILL ENERGY CORPORATION
FIELD	NA
WELL	RHTR 2006 - 15
LOCATION	ROCKY HILL
STATE	BARTON COUNTY, KANSAS
COUNTY	NA
OTHER SERVICES	NA
TOWNSHIP	NA
RANGE	NA
SECTION	NA
API NO	NA
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILLING MEASURED FROM	GL
DATE	09/05/06
DEPTH DRILLER	120
LOG TOP	0.33
LOG BOTTOM	119.72
CASING SIZE	NA
CASING BOTTOM	NA
BIT SIZE	5 7/8
BOREHOLE FLUID	WATER
MAX RECORDED TEMP	NA
RIG TEMPERATURE	NA
MAX RECORDED TEMP	NA
MAX GRADIENT	NA
RECORDED BY	NA
WITNESSED BY	J. SWANSON
REMARKS 1	
REMARKS 2	
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS	

ELEVATIONS
KB ELEVATION OF NA
DF ELEVATION OF NA
GL ELEVATION OF NA

100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 15 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9067A 0 09/05/2006		



100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 15 09/05/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9067A 0 09/05/2006		

TOOL CALIBRATION RHTR 2006 - 15 09/05/06 13:03
TOOL 9067A TM VERSION 3200
SERIAL NUMBER: 529

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar01.02	15:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01.02	15:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22.06	09:07:12	NEUTRON	Default	[CPS]	Default	[CPS]
	Feb22.06	09:07:12	NEUTRON	Default	[CPS]	Default	[CPS]

Baker Hughes INTEQ

GAMMA - CALIPER - RESISTIVITY
CONDUCTIVITY - DENSITY
RHTR 2006 - 18

Baker Hughes INTEQ
Drilling & Evaluation
Houston, Texas

Date: 09/09/06
Time: 15:00
Depth: 1000 ft

Company: Chevron
Contractor: Nabors Drilling
Rig: Nabors 105
Well: Rhtr 2006-18
Field: Rhtr 2006
County: Harris
State: Texas
Country: USA
Latitude: 29.7 N
Longitude: 95.3 W
Elevation: 0 ft
Permanent Datum: Rotary Table
Log Measured From: Rotary Table
Drilling Measured From: Rotary Table
Elevation: 0 ft
Above Perm. Datum: 0 ft

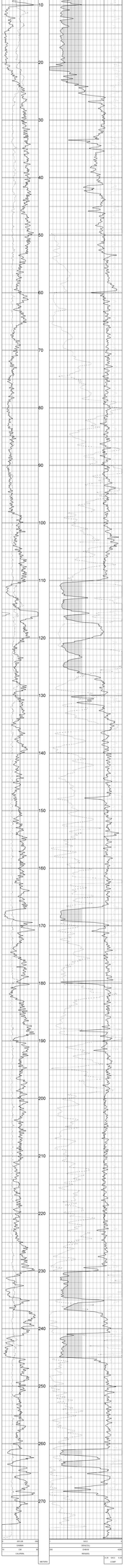
Bit Size: 8.75 in
Casing Size: 9.625 in
Casing Depth: 1000 ft
Mud Type: Water Based
Density: 8.4 lb/gal
Viscosity: 28 s/qt
Resistivity: 0.000 ohm-m
Temperature: 0.000 degF
Source: Flowline
Rm @ Meas. Temp: 0.000 ohm-m
Rmf @ Meas. Temp: 0.000 ohm-m
Rmc @ Meas. Temp: 0.000 ohm-m
Source Rmf: Flowline
Source Rmc: Flowline
Rm @ BHT: 0.000 ohm-m
Max Rec. Temp: 0.000 degF
Equipment: 8 miles N of Cut Off
Logging Engineer: Kevin Mc Ginnis
Witnessed By: Mr. Jim Ross

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 18 09/09/06

LOG PARAMETERS

NEUTRON MATRIX SANDSTONE MATRIX DELTA T 1/T
MAGNETIC DECL. 0 FLUID CUTOFF 0000 BIT SIZE 11 IN
PROJECTION AZIMUTH 0 DOWN TO 0 DIRECTION

COL/FINAL 0 / 30 TENSION
CHANNEL 1 CHANNEL 2
GR API 0 / 150 RESISTIVITY 0.2 / 2000 OHMM
DENSITY 1.95 / 2.95 G/CC
CALIPER 6 / 16 IN



100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 18 09/09/06

LOG PARAMETERS

NEUTRON MATRIX SANDSTONE MATRIX DELTA T 1/T
MAGNETIC DECL. 0 FLUID CUTOFF 0000 BIT SIZE 11 IN
PROJECTION AZIMUTH 0 DOWN TO 0 DIRECTION

DRLDR 0 / 300 DECC
CHANNEL 3 CHANNEL 4
COL/FINAL 0 / 30 RESISTIVITY 0.2 / 2000 OHMM
MATRIX 0.25 / 0.07 COMP

TOOL CALIBRATION: RHTR 2006 - 18 SENSOR 17.38
TOOL TYPE: DENSITY DETECTOR
TOOL SERIAL NUMBER: 0

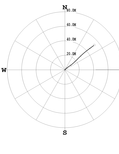
	DATE	TIME	SENSOR	STANDARD	DEVIATION
1	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
2	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
3	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
4	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
5	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
6	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
7	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
8	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
9	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
10	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
11	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
12	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
13	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
14	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
15	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
16	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
17	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
18	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
19	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
20	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
21	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
22	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
23	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
24	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
25	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
26	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
27	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
28	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
29	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
30	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
31	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]
32	Aug/22/06	08:00:00	2.70 G/CC	2.69 G/CC	0.01% [OK]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: WHITEHORN ENERGY MINING INC
LOCATION: BUNNA MTD
WELL ID: NOTE DIXN - 18
DATE: 2-Jun-2011 TIME: 10:00
DRUNKE FACIA 265

MAG DECL: 21.0

SCALE: 10 METER
TOTAL DEPTH: 270.00 M
AZIMUTH: 32.3
DISPLACEMENT: 0 M
+ = DIR DEPR
- = BOTTOM OF HOLE



Baffinland IRON MINES CORPORATION

DIPMETER
RHTR 2006 16

Start Depth	0.000 m
Stop Depth	279.000 m
Step	0.005 m
Min Depth	0.000 m
Max Depth	279.000 m

Company	Baffinland Iron Mines Corporation
Well	RHTR 2006 16
Field	Mary River
Province	Nunavut
Country	Canada
Service Company	Antrim Geophysics
Logging Date	09/09/06
Log Type	Dipmeter
Logging Method	Wireline
Logging Unit Number	1
Bit Size	0.000 mm
Casing Driller	0.000 m
Casing Logger	0.000 m
Top Log Interval	0.000 m
Bottom Log Interval	0.000 m
Maximum Temperature	0.000 C
Maximum Deviation	0.000 deg
Equipment Name	Dipmeter
Equipment Serial Number	1
Tool Model	Dipmeter
Tool Serial Number	1
Recorded Channels	4
Recorded Channels Name	CUR1 CUR2 CUR3 CUR4
Recorded Channels Units	Ohm Ohm Ohm Ohm
Recorded Channels Resolution	0.000 0.000 0.000 0.000
Recorded Channels Sampling Rate	0.000 0.000 0.000 0.000
Recorded Channels Sampling Mode	Point Point Point Point
Recorded Channels Sampling Type	Point Point Point Point
Recorded Channels Sampling Interval	0.000 0.000 0.000 0.000
Recorded Channels Sampling Unit	m m m m
Recorded Channels Sampling Direction	Down Down Down Down
Recorded Channels Sampling Start	0.000 0.000 0.000 0.000
Recorded Channels Sampling Stop	279.000 279.000 279.000 279.000
Recorded Channels Sampling Step	0.005 0.005 0.005 0.005
Recorded Channels Sampling Min	0.000 0.000 0.000 0.000
Recorded Channels Sampling Max	279.000 279.000 279.000 279.000
Recorded Channels Sampling Mean	0.000 0.000 0.000 0.000
Recorded Channels Sampling Standard Deviation	0.000 0.000 0.000 0.000
Recorded Channels Sampling Variance	0.000 0.000 0.000 0.000
Recorded Channels Sampling Skewness	0.000 0.000 0.000 0.000
Recorded Channels Sampling Kurtosis	0.000 0.000 0.000 0.000
Recorded Channels Sampling Median	0.000 0.000 0.000 0.000
Recorded Channels Sampling Mode	0.000 0.000 0.000 0.000
Recorded Channels Sampling Quartile 1	0.000 0.000 0.000 0.000
Recorded Channels Sampling Quartile 3	0.000 0.000 0.000 0.000
Recorded Channels Sampling Interquartile Range	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 1	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 99	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile Range	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 5	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 95	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile Range	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 10	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 90	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile Range	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 25	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 75	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile Range	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 50	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile Range	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 0	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile Range	0.000 0.000 0.000 0.000
Recorded Channels Sampling Percentile 100

Baker Hughes INTEQ

GAMMA - NEUTRON
RHTR 2006 - 16

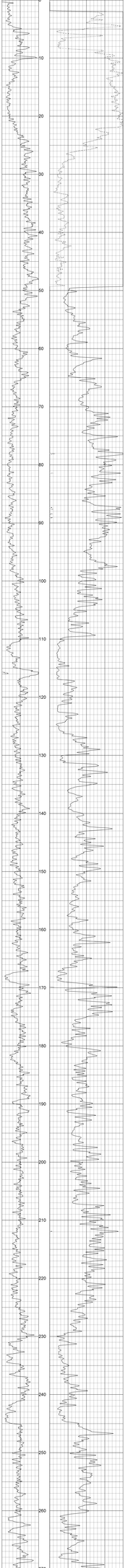
Company	Baker Hughes INTEQ
Field	Rhutrum
Well	RHTR 2006 - 16
Location	Rhutrum, Bhutan
Date	09/09/06
Time	11:46
Depth Unit	Meters
Log Type	GAMMA - NEUTRON
Log Interval	1750 - 4750
Log Speed	10
Tool Type	100CM LCG, GAMMA-NEUTRON SLIM
Tool Serial Number	0
Tool Length	0
Max Temperature	0
Max Pressure	0
Max Deviation	0
Max Tension	0
Min Tension	0
Max Speed	0
Min Speed	0
Max Gamma	0
Max Neutron	0
Max Caliper	0
Max Cable Speed	0
Min Cable Speed	0
Max Cable Tension	0
Min Cable Tension	0
Max Cable Temperature	0
Min Cable Temperature	0
Max Cable Pressure	0
Min Cable Pressure	0
Max Cable Deviation	0
Max Cable Length	0
Min Cable Length	0
Max Cable Resistance	0
Min Cable Resistance	0
Max Cable Capacitance	0
Min Cable Capacitance	0
Max Cable Inductance	0
Min Cable Inductance	0
Max Cable Voltage	0
Min Cable Voltage	0
Max Cable Current	0
Min Cable Current	0
Max Cable Power	0
Min Cable Power	0
Max Cable Frequency	0
Min Cable Frequency	0
Max Cable Phase	0
Min Cable Phase	0
Max Cable Amplitude	0
Min Cable Amplitude	0
Max Cable Noise	0
Min Cable Noise	0
Max Cable Signal	0
Min Cable Signal	0
Max Cable Quality	0
Min Cable Quality	0
Max Cable Error	0
Min Cable Error	0
Max Cable Warning	0
Min Cable Warning	0
Max Cable Alarm	0
Min Cable Alarm	0
Max Cable Status	0
Min Cable Status	0
Max Cable Code	0
Min Cable Code	0
Max Cable Checksum	0
Min Cable Checksum	0
Max Cable Parity	0
Min Cable Parity	0
Max Cable Stop Bits	0
Min Cable Stop Bits	0
Max Cable Start Bits	0
Min Cable Start Bits	0
Max Cable Baud Rate	0
Min Cable Baud Rate	0
Max Cable Data Bits	0
Min Cable Data Bits	0
Max Cable Protocol	0
Min Cable Protocol	0
Max Cable Version	0
Min Cable Version	0
Max Cable Serial Number	0
Min Cable Serial Number	0
Max Cable Manufacturer	0
Min Cable Manufacturer	0
Max Cable Model	0
Min Cable Model	0
Max Cable Firmware	0
Min Cable Firmware	0
Max Cable Hardware	0
Min Cable Hardware	0
Max Cable Software	0
Min Cable Software	0
Max Cable Checksum	0
Min Cable Checksum	0
Max Cable Parity	0
Min Cable Parity	0
Max Cable Stop Bits	0
Min Cable Stop Bits	0
Max Cable Start Bits	0
Min Cable Start Bits	0
Max Cable Baud Rate	0
Min Cable Baud Rate	0
Max Cable Data Bits	0
Min Cable Data Bits	0
Max Cable Protocol	0
Min Cable Protocol	0
Max Cable Version	0
Min Cable Version	0
Max Cable Serial Number	0
Min Cable Serial Number	0
Max Cable Manufacturer	0
Min Cable Manufacturer	0
Max Cable Model	0
Min Cable Model	0
Max Cable Firmware	0
Min Cable Firmware	0
Max Cable Hardware	0
Min Cable Hardware	0
Max Cable Software	0
Min Cable Software	0

100CM LCG, GAMMA-NEUTRON SLIM RHTR 2006 - 16 09/09/06

LOG PARAMETERS

MATRIX DENSITY 2.65 NEUTRON MATRIX SANDSTONE MATRIX DELTA-T 177
MAGNETIC DECL. 0° BLIND OUTPUT 0000 DF MSL 11.46

PROJECTION CABLEDATA SAFE TO MANAGER



100CM LCG, GAMMA-NEUTRON SLIM RHTR 2006 - 16 09/09/06

LOG PARAMETERS

MATRIX DENSITY 2.65 NEUTRON MATRIX SANDSTONE MATRIX DELTA-T 177
MAGNETIC DECL. 0° BLIND OUTPUT 0000 DF MSL 11.46

PROJECTION CABLEDATA SAFE TO MANAGER

TOOL CALIBRATION: WATER 0000 - 18 09/09/06 12:57
TOOL SERIAL - NUMBER:0000
TOOL TYPE: 100CM LCG

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	09/09/06	09:06:00	GAMMA Cs137	[CPS]	Cs137 [CPS]
2	09/09/06	09:07:00	GAMMA Cs137	[CPS]	Cs137 [CPS]
3	09/09/06	09:07:10	NEUTRON CalcAP	[CPS]	CalcAP [CPS]
	09/09/06	09:07:20	NEUTRON CalcAP	[CPS]	CalcAP [CPS]

Century GEOPHYSICAL CORP.

centurygeo.com

GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY RHTR 2006 - 17

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 17
FIELD	RHTR 2006
COUNTY	THABLER RIDGE
STATE	BRITISH COLUMBIA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
API NO	NA
UNIQUE WELL ID	NA
PERMANENT DATUM	GL
LOG MEASURED FROM GL	0.00
DRILL MEASURED FROM GL	0.00
DATE	090505
DEPTH DRILLER	70
BIT SIZE	11-43
LOG TOP	0.24
LOG BOTTOM	71.02
CASING DEPTH	11.52
CASING BOTTOM	3.04
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
RM TEMPERATURE	NA
RM RESIST	NA
MAX TEMP	NA
WITNESSED BY	NA
RECORDED BY	J. SRAKICH
REMARKS 1	HOLE ANGLE 70 DEGREES AZIMUTH: 215 DEGREES
REMARKS 2	

OTHER SERVICES: NEUTRON

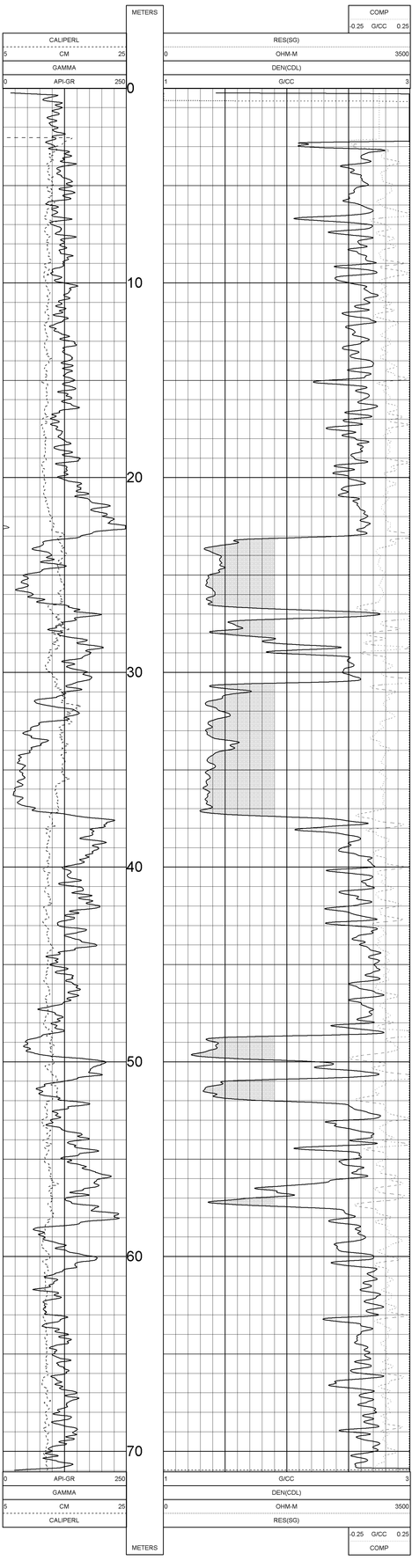
ELEVATION KB NA
ELEVATION DF NA
ELEVATION GL NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 17 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006



100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 17 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C1.0 09/05/2006

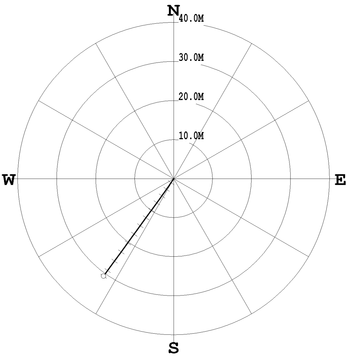
TOOL CALIBRATION RHTR 2006 - 17 09/09/06 10:48
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug29,06	14:45:57	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Aug29,06	14:45:57	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Aug29,06	14:46:03	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug29,06	14:46:03	DEN(SS)	2.383	[G/CC]	9503.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	1169715.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	288.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 17
DATE OF LOG: 09/08/06
PROBE: 9411A 390

SCALE: 5 M/CM
TRUE DEPTH: 67.94 M
AZIMUTH: 215.8
DISTANCE: 30.8 M
+ = 5 M INCR
○ = BOTTOM OF HOLE



Century GEOPHYSICAL CORP.
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GAMMA - NEUTRON

RHTR 2006 - 17

COMPANY	NORTHERN ENERGY MINING INC	COMPANY	OILFIELD SERVICES
WELL	RHTR 2006 - 17	WELL	RHTR 2006 - 17
FIELD	ROMAN MTN	FIELD	ROMAN MTN
COUNTY	TUMBLER RIDGE	COUNTY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA	PROVINCE	BRITISH COLUMBIA
LOCATION	NA	LOCATION	NA
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
LONGITUDE	NA		
LATITUDE	NA		
UNIQUE WELL ID	NA		
PERMANENT DATUM	GL		
LOG MEASURED FROM GL	ELEVATION 0M NA		
DRL MEASURED FROM GL	ELEVATION 0F NA		
	ELEVATION GL NA		

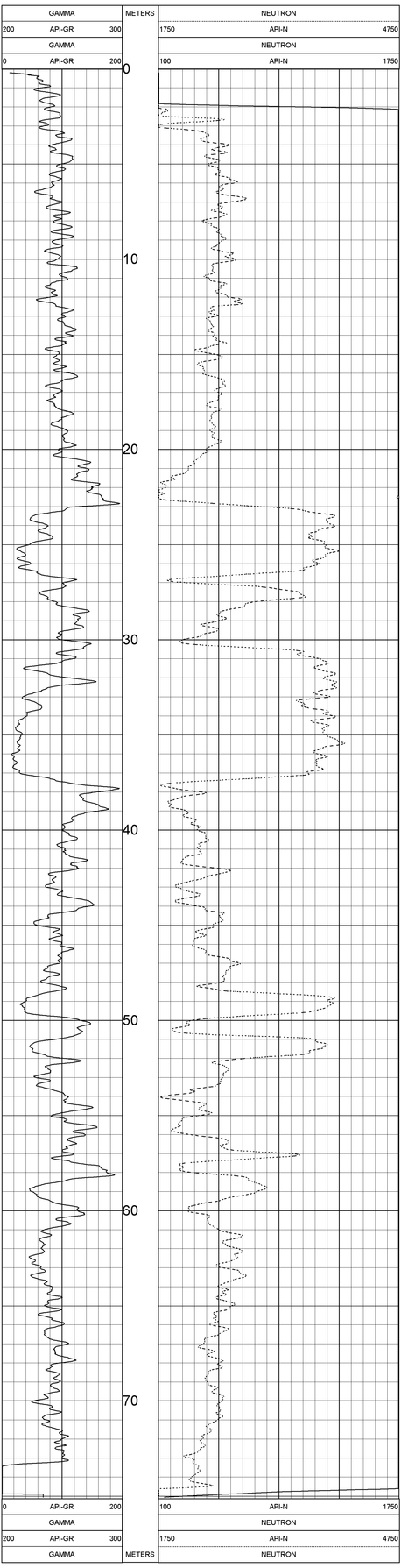
DATE	09/08/06		
DATE LOGGED	09/08/06		
BIT SIZE	11.43		
LOG TOP	0.20		
LOG BOTTOM	75.10		
CASING DEPTH	75.24		
CASING DIAMETER	15.00		
CASING TYPE	SURFACE		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	NA		
MUD RES	NA		
MUD RESISTIVITY	NA		
WITNESSED BY	NA		
RECORDED BY	J. SWANICH		
REMARKS 1	HOLE ANGLE: 70 DEGREES AZIMUTH: 315 DEGREES		
REMARKS 2			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 17 09/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9067A.0 09/08/2006		



100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 17 09/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9067A.0 09/08/2006		

TOOL CALIBRATION RHTR 2006 - 17 09/08/06 20:06
TOOL 9067A TM VERSION 3200
SERIAL NUMBER 529

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar01,02	15:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01,02	15:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]
	Feb22,06	09:07:12	NEUTROI	Default	[CPS]	Default	[CPS]

Century Geophysical Corp.

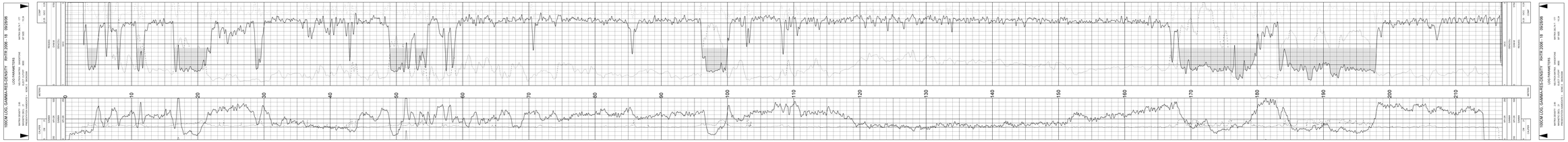
century-geo.com

GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
RHTR 2006 - 18

COMPANY	HOOT WIND ENERGY GROUP, INC.	
WELL	RHTR 2006 - 18	OTHER SERVICES
FIELD	WHITE RIVER	CBL
COUNTY	TUMBLER RIDGE	GR
STATE	BRITISH COLUMBIA	NL
LOCATION	NA	
SECTION	NA	
TOWNSHIP	NA	
RANGE	NA	
DATUM	NA	
ABOVE WELL @	NA	
PERMANENT DATUM	GL	ELEVATION 0M NA
LOG MEAS.FROM PL	GL	0.00 ELEVATION 0M NA
DRILL MEAS.FROM KB	GL	0.00 ELEVATION 0M NA

RUN NO.	ONE	
DATE	09/29/06	
DEPTH DRILLER	216	
DT SIZE	15.24	
DEPTH LOGGED	216	
LOG BOTTOM	216.07	
CASING OD	14.00	
CASING WEIGHT	NA	
CASING TYPE	NA/PIPE	
DENSITY/V.S. FLUID	WATER	
PH/FLUID LOSS/ml	NA	
MAX REC. TEMP.	NA	
BHT/TIME	NA	
EQUIP.NO/LOC	2 DENVER	
RECORDED BY		
WITNESS		

NO SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

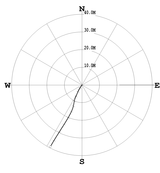


PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY HOLDING INC
LOCATION: BONAR NEW
WELL ID: BATH 2004 - 10
DATE OF LOG: 09/28/04
BRUSH: NULLA 240

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 212.78 M
AZIMUTH: 207.1
DISTANCE: 50.2 M
* = 5 M/CM
+ = BOTTOM OF HOLE



Gearhart Geophysics

DIPMETER
RHTR 2006 - 18

1	10/01/06	10:00:00
2	10/01/06	10:00:00
3	10/01/06	10:00:00
4	10/01/06	10:00:00
5	10/01/06	10:00:00
6	10/01/06	10:00:00
7	10/01/06	10:00:00
8	10/01/06	10:00:00
9	10/01/06	10:00:00
10	10/01/06	10:00:00
11	10/01/06	10:00:00
12	10/01/06	10:00:00
13	10/01/06	10:00:00
14	10/01/06	10:00:00
15	10/01/06	10:00:00
16	10/01/06	10:00:00
17	10/01/06	10:00:00
18	10/01/06	10:00:00
19	10/01/06	10:00:00
20	10/01/06	10:00:00
21	10/01/06	10:00:00
22	10/01/06	10:00:00
23	10/01/06	10:00:00
24	10/01/06	10:00:00
25	10/01/06	10:00:00
26	10/01/06	10:00:00
27	10/01/06	10:00:00
28	10/01/06	10:00:00
29	10/01/06	10:00:00
30	10/01/06	10:00:00
31	10/01/06	10:00:00
32	10/01/06	10:00:00
33	10/01/06	10:00:00
34	10/01/06	10:00:00
35	10/01/06	10:00:00
36	10/01/06	10:00:00
37	10/01/06	10:00:00
38	10/01/06	10:00:00
39	10/01/06	10:00:00
40	10/01/06	10:00:00
41	10/01/06	10:00:00
42	10/01/06	10:00:00
43	10/01/06	10:00:00
44	10/01/06	10:00:00
45	10/01/06	10:00:00
46	10/01/06	10:00:00
47	10/01/06	10:00:00
48	10/01/06	10:00:00
49	10/01/06	10:00:00
50	10/01/06	10:00:00
51	10/01/06	10:00:00
52	10/01/06	10:00:00
53	10/01/06	10:00:00
54	10/01/06	10:00:00
55	10/01/06	10:00:00
56	10/01/06	10:00:00
57	10/01/06	10:00:00
58	10/01/06	10:00:00
59	10/01/06	10:00:00
60	10/01/06	10:00:00
61	10/01/06	10:00:00
62	10/01/06	10:00:00
63	10/01/06	10:00:00
64	10/01/06	10:00:00
65	10/01/06	10:00:00
66	10/01/06	10:00:00
67	10/01/06	10:00:00
68	10/01/06	10:00:00
69	10/01/06	10:00:00
70	10/01/06	10:00:00
71	10/01/06	10:00:00
72	10/01/06	10:00:00
73	10/01/06	10:00:00
74	10/01/06	10:00:00
75	10/01/06	10:00:00
76	10/01/06	10:00:00
77	10/01/06	10:00:00
78	10/01/06	10:00:00
79	10/01/06	10:00:00
80	10/01/06	10:00:00
81	10/01/06	10:00:00
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83	10/01/06	10:00:00
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85	10/01/06	10:00:00
86	10/01/06	10:00:00
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89	10/01/06	10:00:00
90	10/01/06	10:00:00
91	10/01/06	10:00:00
92	10/01/06	10:00:00
93	10/01/06	10:00:00
94	10/01/06	10:00:00
95	10/01/06	10:00:00
96	10/01/06	10:00:00
97	10/01/06	10:00:00
98	10/01/06	10:00:00
99	10/01/06	10:00:00
100	10/01/06	10:00:00

100CM LOG, DIPMETER RHTR 2006 - 18 09/28/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA-T: 177
MAGNETIC DECL.: 20 ELECT. CUTOFF: 4000 BIT SIZE: 15.24
PRESENTATION NAMEGRATE: MPlotPLot3 DECNSER

CALIPER2 METERS
CSI
CALIPER1
GAMMA
APLGR

CURI CURJ CURK CURL TADPOLE ROSE
DEG
CURR
DIG MED PERCENT INC

100CM LOG, DIPMETER RHTR 2006 - 18 09/28/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA-T: 177
MAGNETIC DECL.: 20 ELECT. CUTOFF: 4000 BIT SIZE: 15.24
PRESENTATION NAMEGRATE: MPlotPLot3 DECNSER

TOOL CALIBRATION: RHTR 2006 - 10 06/2006 17:47
TOOL MATRIX: TW VERSION 9200
SERIAL NUMBER: 300

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,06	10:08:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Jul27,06	10:45:13	GAMMA	Default	[CPS]	Default	[CPS]
3	Aug03,06	10:21:20	VOLTAGE	300.000	[V]	2000.00	[CPS]
4	Aug03,06	10:21:20	VOLTAGE	300.000	[V]	2000.00	[CPS]
5	Aug03,06	10:57:26	CURI	1.313	[UA]	7889.00	[CPS]
6	Aug03,06	10:57:26	CURJ	1.313	[UA]	7889.00	[CPS]
7	Aug03,06	10:57:26	CURJ	4.177	[UA]	7819.00	[CPS]
8	Aug03,06	10:57:26	CURJ	0.000	[UA]	1558.00	[CPS]
9	Aug03,06	10:57:26	CURJ	0.000	[UA]	1558.00	[CPS]
10	Aug03,06	10:57:26	CURJ	0.000	[UA]	1558.00	[CPS]
11	Aug03,06	10:58:09	CURK	0.000	[UA]	100.00	[CPS]
12	Aug03,06	10:58:09	CURK	0.000	[UA]	100.00	[CPS]
13	Aug03,06	10:58:09	CALIPER	0.000	[IN]	0.00	[CPS]
14	Aug03,06	10:58:09	CALIPER	0.000	[IN]	0.00	[CPS]

100CM LOG, DIPMETER RHTR 2006 - 18 09/28/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA-T: 177
MAGNETIC DECL.: 20 ELECT. CUTOFF: 4000 BIT SIZE: 15.24
PRESENTATION NAMEGRATE: MPlotPLot3 DECNSER

CALIPER2 METERS
CSI
CALIPER1
GAMMA
APLGR

CURI CURJ CURK CURL TADPOLE ROSE
DEG
CURR
DIG MED PERCENT INC

Gallery Services
GEOPHYSICAL SERVICES

GAMMA - NEUTRON
RHTR 2006 - 18

Date: 09/28/06
Scale: 1:200
Operator: Gallery Services
Recorded by: Gallery Services
Witnessed by: Gallery Services

Depth Reference: Ground Level
Elevation: 0 m
Permanent Datum: Ground Level
Log Measured from: Ground Level
Drilling Measured from: Ground Level

Total Depth: 210.0 m
Casing Shoe: 0.0 m
Casing Size: 0.0 mm
Casing Weight: 0.0 kg/m
Casing Type: Steel
Casing Fluid: Air
Bit Size: 0.0 mm
Bit Type: Tricone
Fluid Type: Air
Fluid Level: 0.0 m
Max Temp: 0.0 °C
Max Temp Time: 0 hrs
Max Temp Depth: 0.0 m
Max Rec Temp: 0.0 °C
Max Rec Temp Time: 0 hrs
Max Rec Temp Depth: 0.0 m
Max Rec Temp Date: 00/00/00
Max Rec Temp Source: Estimated
Max Rec Temp Method: Estimated
Max Rec Temp Comment: Estimated

Logging Company: Gallery Services
Logging Date: 09/28/06
Logging Time: 14:00
Logging Unit: 1
Logging Truck: 1
Logging Engineer: Gallery Services
Logging Assistant: Gallery Services
Logging Witnessed by: Gallery Services
Logging Witnessed by: Gallery Services
Logging Witnessed by

Century GEOPHYSICAL CORP.

century-geo.com

GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY RHTR 2006 - 19

COMPANY	NORTHERN DISTRICT MINING INC	OTHER SERVICES	
WELL	RHTR 2006 - 19	1	GR
FIELD	ROSMULLETA	2	SP
COUNTY	TUMBLER RIDGE	3	NA
STATE	BRITISH COLUMBIA		
LOCATION	NA		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
MERIDIAN	NA		
UNIQUE WELL ID	NA		
PERMANENT DATUM	GL	ELEVATION KB	NA
LOG MEASURED FROM	GL	ELEVATION DF	NA
DRL MEASURED FROM	GL	ELEVATION GL	NA

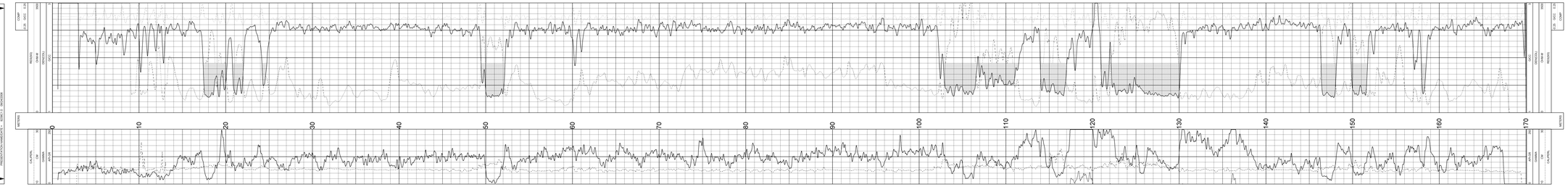
RUN	ONE	
DEPTH DRILLER	179	
BIT SIZE	15.24	
LOG TOP	0.00	
LOG BOTTOM	175.00	
CASING TYPE	STEEL	
CASING BOTTOM	0	
CASING TYPE	SURFACE	
BORHOLE FLUID	WATER	
RM TEMPERATURE	NA	
BIAS REC	0	
BIAS WEIGHT	0	
WITNESSED BY		
RECORDED BY	J. SINSKAY	
REMARKS 1	HOLE ANGLE 90 DEGREES AZIMUTH: 210 DEGREES	
REMARKS 2		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG: GAMMA-RES-DENSITY RHTR 2006 - 19 06/30/06

LOG PARAMETERS
ELECTRICAL SAMPLE INTERVAL 0.05 METRES
ELECTRICAL SAMPLE SMOOTHING 5 POINTS
DENSITY SMOOTHING 5 POINTS
PRODUCTION SUMMARY: 0 DENSITY, 0 SONIC

MATRIX DENSITY 2.65
MATRIX DT(SEC/M) 0.0000
PRODUCTION SUMMARY



100CM LOG: GAMMA-RES-DENSITY RHTR 2006 - 19 06/30/06

LOG PARAMETERS
ELECTRICAL SAMPLE INTERVAL 0.05 METRES
ELECTRICAL SAMPLE SMOOTHING 5 POINTS
DENSITY SMOOTHING 5 POINTS
PRODUCTION SUMMARY: 0 DENSITY, 0 SONIC

MATRIX DENSITY 2.65
MATRIX DT(SEC/M) 0.0000
PRODUCTION SUMMARY

TOTAL COUNTS: 1 TO 175 (175 POINTS), STEPSIZE 1.0

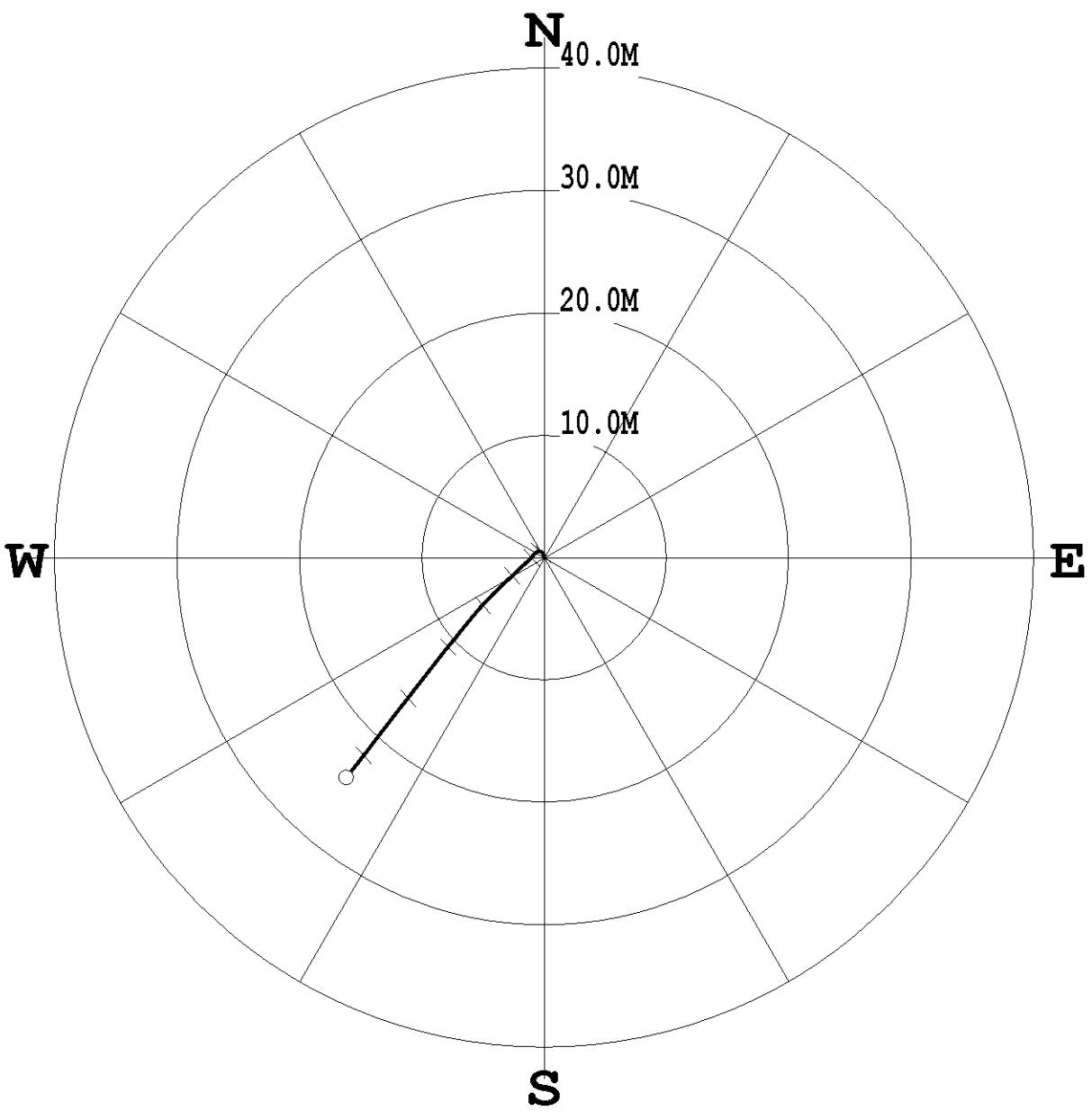
DATE	TIME	BRANCH	STRAIGHT	RESISTIVITY
06/30	14:40	0.00	0.00	12.00
06/30	14:40	0.00	0.00	12.00
06/30	21:00:00	0.00	0.00	12.00
06/30	21:00:01	0.00	0.00	12.00
06/30	21:00:02	0.00	0.00	12.00
06/30	21:00:03	0.00	0.00	12.00
06/30	21:00:04	0.00	0.00	12.00
06/30	21:00:05	0.00	0.00	12.00
06/30	21:00:06	0.00	0.00	12.00
06/30	21:00:07	0.00	0.00	12.00
06/30	21:00:08	0.00	0.00	12.00
06/30	21:00:09	0.00	0.00	12.00
06/30	21:00:10	0.00	0.00	12.00
06/30	21:00:11	0.00	0.00	12.00
06/30	21:00:12	0.00	0.00	12.00
06/30	21:00:13	0.00	0.00	12.00
06/30	21:00:14	0.00	0.00	12.00
06/30	21:00:15	0.00	0.00	12.00
06/30	21:00:16	0.00	0.00	12.00
06/30	21:00:17	0.00	0.00	12.00
06/30	21:00:18	0.00	0.00	12.00
06/30	21:00:19	0.00	0.00	12.00
06/30	21:00:20	0.00	0.00	12.00
06/30	21:00:21	0.00	0.00	12.00
06/30	21:00:22	0.00	0.00	12.00
06/30	21:00:23	0.00	0.00	12.00
06/30	21:00:24	0.00	0.00	12.00
06/30	21:00:25	0.00	0.00	12.00
06/30	21:00:26	0.00	0.00	12.00
06/30	21:00:27	0.00	0.00	12.00
06/30	21:00:28	0.00	0.00	12.00
06/30	21:00:29	0.00	0.00	12.00
06/30	21:00:30	0.00	0.00	12.00
06/30	21:00:31	0.00	0.00	12.00
06/30	21:00:32	0.00	0.00	12.00
06/30	21:00:33	0.00	0.00	12.00
06/30	21:00:34	0.00	0.00	12.00
06/30	21:00:35	0.00	0.00	12.00
06/30	21:00:36	0.00	0.00	12.00
06/30	21:00:37	0.00	0.00	12.00
06/30	21:00:38	0.00	0.00	12.00
06/30	21:00:39	0.00	0.00	12.00
06/30	21:00:40	0.00	0.00	12.00
06/30	21:00:41	0.00	0.00	12.00
06/30	21:00:42	0.00	0.00	12.00
06/30	21:00:43	0.00	0.00	12.00
06/30	21:00:44	0.00	0.00	12.00
06/30	21:00:45	0.00	0.00	12.00
06/30	21:00:46	0.00	0.00	12.00
06/30	21:00:47	0.00	0.00	12.00
06/30	21:00:48	0.00	0.00	12.00
06/30	21:00:49	0.00	0.00	12.00
06/30	21:00:50	0.00	0.00	12.00
06/30	21:00:51	0.00	0.00	12.00
06/30	21:00:52	0.00	0.00	12.00
06/30	21:00:53	0.00	0.00	12.00
06/30	21:00:54	0.00	0.00	12.00
06/30	21:00:55	0.00	0.00	12.00
06/30	21:00:56	0.00	0.00	12.00
06/30	21:00:57	0.00	0.00	12.00
06/30	21:00:58	0.00	0.00	12.00
06/30	21:00:59	0.00	0.00	12.00
06/30	21:01:00	0.00	0.00	12.00
06/30	21:01:01	0.00	0.00	12.00
06/30	21:01:02	0.00	0.00	12.00
06/30	21:01:03	0.00	0.00	12.00
06/30	21:01:04	0.00	0.00	12.00
06/30	21:01:05	0.00	0.00	12.00
06/30	21:01:06	0.00	0.00	12.00
06/30	21:01:07	0.00	0.00	12.00
06/30	21:01:08	0.00	0.00	12.00
06/30	21:01:09	0.00	0.00	12.00
06/30	21:01:10	0.00	0.00	12.00
06/30	21:01:11	0.00	0.00	12.00
06/30	21:01:12	0.00	0.00	12.00
06/30	21:01:13	0.00	0.00	12.00
06/30	21:01:14	0.00	0.00	12.00
06/30	21:01:15	0.00	0.00	12.00
06/30	21:01:16	0.00	0.00	12.00
06/30	21:01:17	0.00	0.00	12.00
06/30	21:01:18	0.00	0.00	12.00
06/30	21:01:19	0.00	0.00	12.00
06/30	21:01:20	0.00	0.00	12.00

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 19
DATE OF LOG: 09/30/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 166.97 M
AZIMUTH: 222.0
DISTANCE: 24.1 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



Cathedral Energy Services Inc.
cathedral-ges.com

Well:	100MCM LOG, DIPMETER
Field:	RHTR 2006 - 19
Prospect:	
Province:	Alberta
Country:	Canada
Surface Location:	100MCM LOG, DIPMETER RHTR 2006 - 19
Latitude:	
Longitude:	
Elevation:	
Date:	09/30/06
Time:	
Operator:	
Logging Company:	Cathedral Energy Services Inc.
Logging Engineer:	
Logging Unit:	
Logging Truck:	
Bit Size:	15.24
Mud Type:	
Mud Density:	
Mud Viscosity:	
Mud Resistivity:	
Mud Temperature:	
Max Temp:	
Max Deviation:	
Max Deviation Depth:	
Max Dogleg:	
Max Dogleg Depth:	
Max Pressure:	
Max Pressure Depth:	
Max Flow:	
Max Flow Depth:	
Max Gas:	
Max Gas Depth:	
Max Chlorides:	
Max Chlorides Depth:	
Max Hardness:	
Max Hardness Depth:	
Max Sand:	
Max Sand Depth:	
Max Pump Rate:	
Max Pump Rate Depth:	
Max Pump Pressure:	
Max Pump Pressure Depth:	
Max Annular Velocity:	
Max Annular Velocity Depth:	
Max Cut Volume:	
Max Cut Volume Depth:	
Max Cut Weight:	
Max Cut Weight Depth:	
Max Cut Temp:	
Max Cut Temp Depth:	
Max Cut Length:	
Max Cut Length Depth:	
Max Cut Time:	
Max Cut Time Depth:	
Max Cut Speed:	
Max Cut Speed Depth:	
Max Cut Pressure:	
Max Cut Pressure Depth:	
Max Cut Flow:	
Max Cut Flow Depth:	
Max Cut Gas:	
Max Cut Gas Depth:	
Max Cut Chlorides:	
Max Cut Chlorides Depth:	
Max Cut Hardness:	
Max Cut Hardness Depth:	
Max Cut Sand:	
Max Cut Sand Depth:	
Max Cut Pump Rate:	
Max Cut Pump Rate Depth:	
Max Cut Pump Pressure:	
Max Cut Pump Pressure Depth:	
Max Cut Annular Velocity:	
Max Cut

Gamma Services Inc.
sales@gsi-gsi.com

GAMMA - NEUTRON
RHTR 2006 - 19

Date: 09/30/06
Time: 13:59:59
Operator: Jim Hamilton
Comments: Tested & Verified
Depth Reference: Ground Level
Elevation: 0.0 m
Logged Interval: 0.0 m - 170.0 m
Direction: Down
Speed: 10.0 m/min
Tool Type: GAMMA-NEUTRON
Tool Serial Number: 529
Tool Length: 1.0 m
Tool Weight: 0.0 kg
Tool Diameter: 0.0 mm
Tool Calibration: RHTR 2006 - 19
Tool Version: 3.0
Tool Calibration Date: 09/30/2006
Tool Calibration Time: 13:59:59
Tool Calibration Type: Gamma Neutron
Tool Calibration Comments: Gamma Neutron Test
Calibration Time: 0.0 s
Calibration Count: 0.0
Calibration Mean: 0.0
Calibration Deviation: 0.0
Calibration Error: 0.0
Calibration Comments: Gamma Neutron Test
Gamma Calibration Type: Gamma Neutron
Gamma Calibration Time: 0.0 s
Gamma Calibration Count: 0.0
Gamma Calibration Mean: 0.0
Gamma Calibration Deviation: 0.0
Gamma Calibration Error: 0.0
Gamma Calibration Comments: Gamma Neutron Test
Neutron Calibration Type: Gamma Neutron
Neutron Calibration Time: 0.0 s
Neutron Calibration Count: 0.0
Neutron Calibration Mean: 0.0
Neutron Calibration Deviation: 0.0
Neutron Calibration Error: 0.0
Neutron Calibration Comments: Gamma Neutron Test
Gamma Neutron Calibration Type: Gamma Neutron
Gamma Neutron Calibration Time: 0.0 s
Gamma Neutron Calibration Count: 0.0
Gamma Neutron Calibration Mean: 0.0
Gamma Neutron Calibration Deviation: 0.0
Gamma Neutron Calibration Error: 0.0
Gamma Neutron Calibration Comments: Gamma Neutron Test

Century GEOPHYSICAL CORP.
century-geo.com

GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
RHTR 2006 - 21

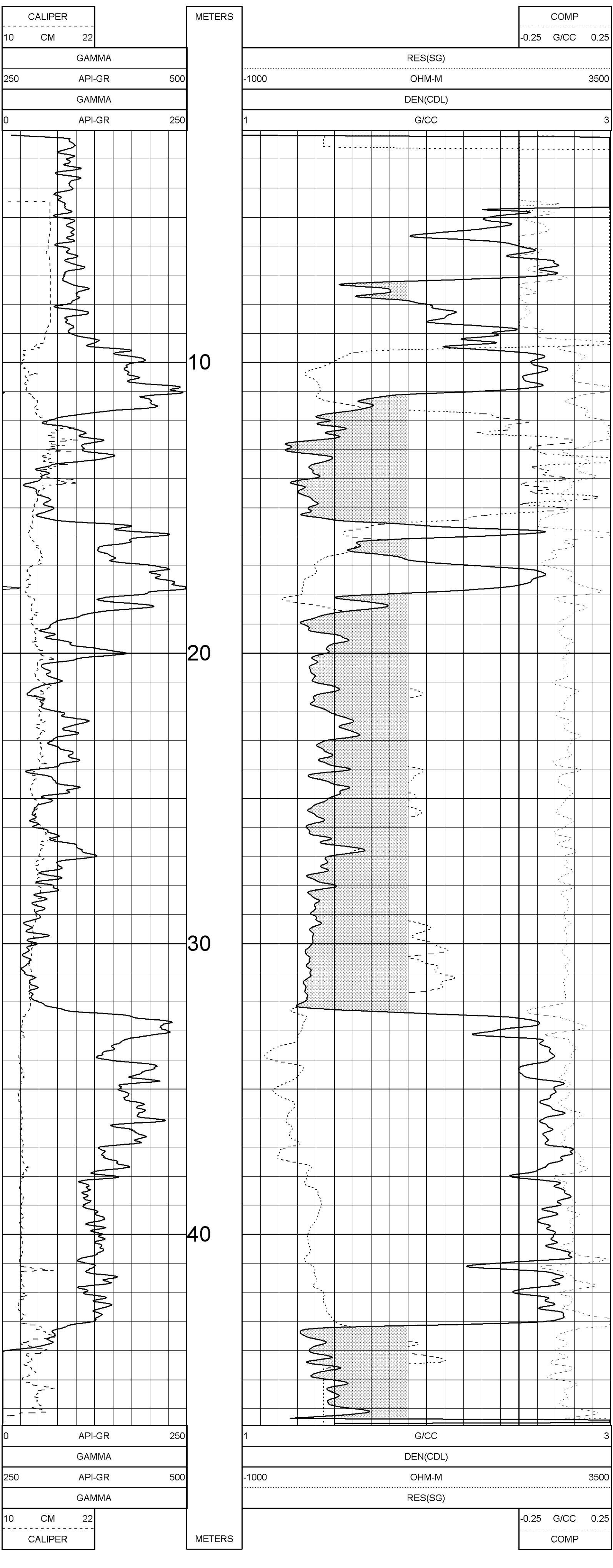
COMPANY	:NORTHERN ENERGY MINING INC	OTHER SERVICES:	
WELL	:RHTR 2006 - 21	NEUTRON	
FIELD	:ROMAN MTN	NA	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA		
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB :NA	
LOG MEASURED FROM	:GL	ELEVATION DF :NA	
DRL MEASURED FROM	:GL	ELEVATION GL :NA	
DATE	:10/13/06		
DEPTH DRILLER	:111.28		
BIT SIZE	:11.43		
LOG TOP	:2.17		
LOG BOTTOM	:46.53		
CASING OD	:15.24		
CASING BOTTOM	:9.14		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:1.0		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 21 10/13/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C.0 10/13/2006		VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 21 10/13/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9239C.0 10/13/2006		VERSION = 3.64EC

TOOL CALIBRATION RHTR 2006 - 21 10/13/06 18:57
TOOL 9239C TM VERSION 2015
SERIAL NUMBER 1268

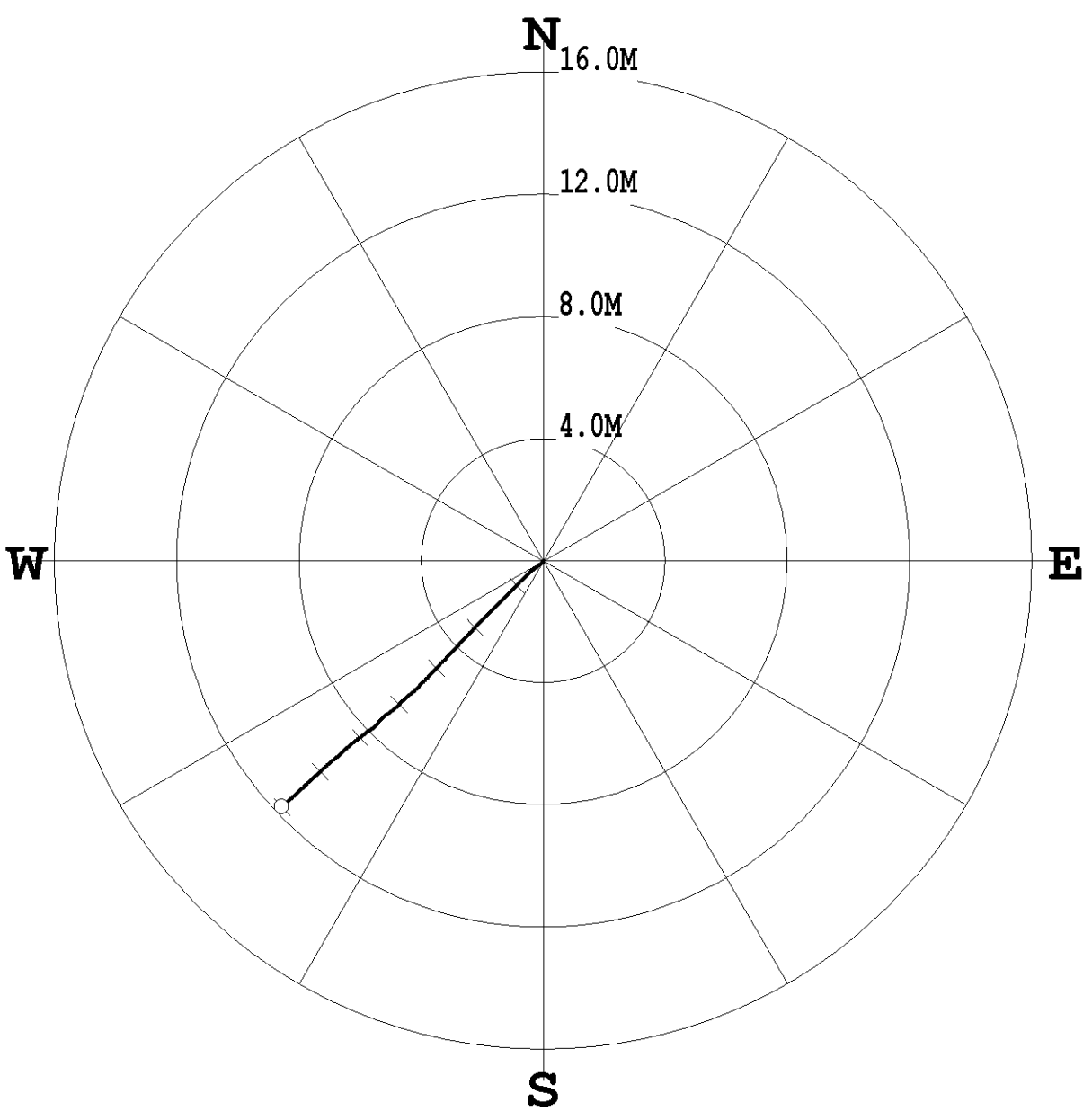
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13,06	18:54:55	GAMMA	Default	[CPS]	Default	[CPS]
	Oct13,06	18:54:55	GAMMA	283.000	[API-GR]	286.00	[CPS]
2	Sep26,06	12:24:39	VOLTAGE	2031.000	[MV]	273023.00	[CPS]
	Sep26,06	12:20:34	CALIPER	3.000	[INCH]	123752.00	[CPS]
3	Oct13,06	18:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
	Oct13,06	18:33:01	CALIPER	2.540	[INCH]	25725.00	[CPS]
4	Oct13,06	19:07:50	DEN(LS)	1.000	[G/CC]	13504.00	[CPS]
	Oct13,06	19:04:49	DEN(LS)	2.383	[G/CC]	1250.00	[CPS]
5	Oct13,06	19:07:50	DEN(SS)	1.000	[G/CC]	20287.00	[CPS]
	Oct13,06	18:54:08	DEN(SS)	2.383	[G/CC]	8800.00	[CPS]
6	Sep26,06	12:24:59	CALIPERL	Default	[CPS]	Default	[CPS]
	Sep26,06	12:24:45	CURRENT	0.000	[UA]	5355.00	[CPS]
7	Sep26,06	12:24:45	CURRENT	291.000	[UA]	29568.00	[CPS]
	Sep26,06	12:05:58	F	Default	[CPS]		
8	Sep26,06	12:05:58	X	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 21
DATE OF LOG: 10/13/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 2 M/CM
TRUE DEPTH: 44.78 M
AZIMUTH: 226.8
DISTANCE: 11.8 M
+ = 5 M INCR
○ = BOTTOM OF HOLE



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GAMMA - NEUTRON
RHTR 2006 - 21

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:RHTR 2006 - 21
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:10/13/06
DEPTH DRILLER	:111.28
BIT SIZE	:11.43
LOG TOP	:1.51
LOG BOTTOM	:46.88
CASING OD	:15.24
CASING BOTTOM	:9.14
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:1.0
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:HOLE ANGLE: 70 DEGREES AZIMUTH: 215 DEGREES
REMARKS 2	:

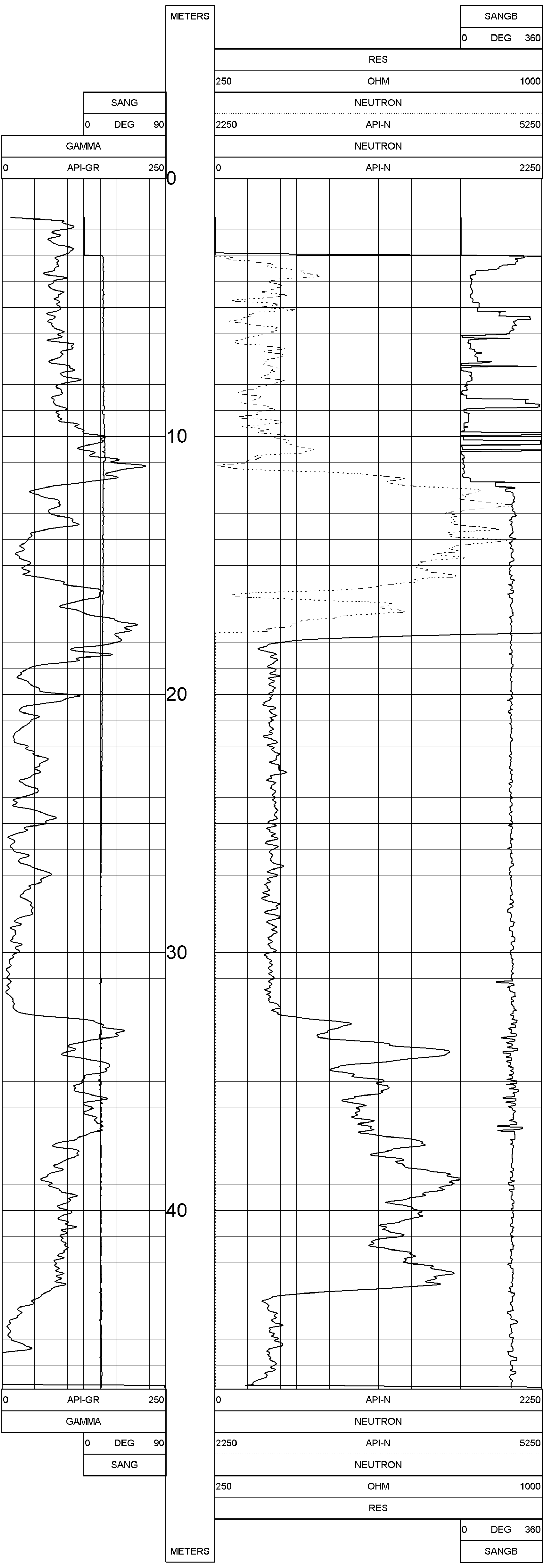
OTHER SERVICES:
DENSITY
DIP
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 21 10/13/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 9500 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9055A.0 10/11/2006 VERSION = 3.64EC



100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 21 10/13/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 9500 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9055A.0 10/11/2006 VERSION = 3.64EC

TOOL CALIBRATION RHTR 2006 - 21 10/13/06 18:22
TOOL 9055A TM VERSION 3200
SERIAL NUMBER 237

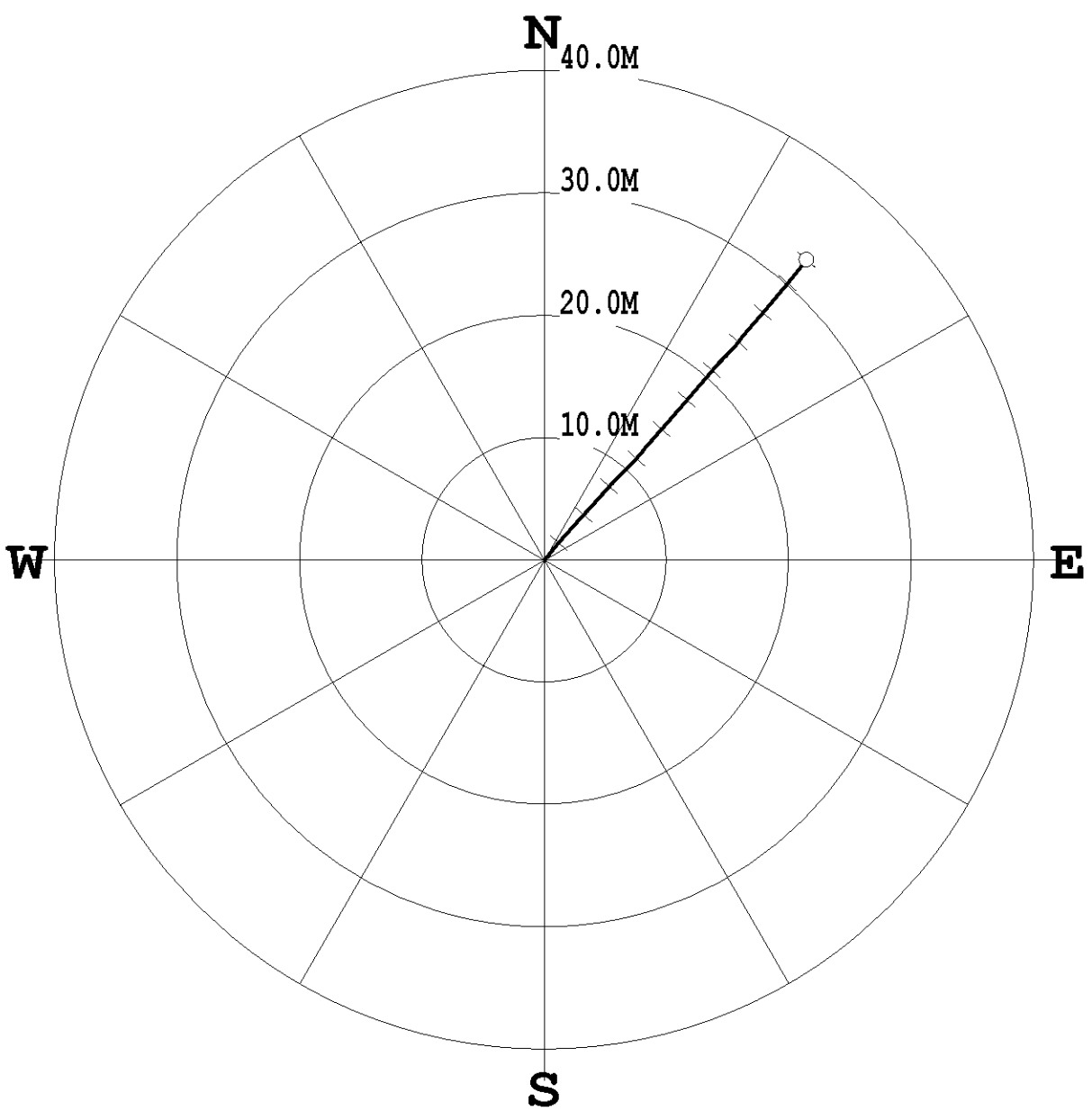
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	08:41:30	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Sep27,06	08:41:30	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Feb25,99	00:19:39	POROSIT	Default	[CPS]		
3	Sep27,06	08:35:47	RES	0.000	[OHM]	9615.00	[CPS]
	Sep27,06	08:35:47	RES	100.000	[OHM]	7996.00	[CPS]
4	Sep27,06	08:36:00	SP	0.000	[MV]	1.00	[CPS]
	Sep27,06	08:36:00	SP	400.000	[MV]	2935.00	[CPS]
5	Oct10,06	12:37:04	NEUTROI	Default	[CPS]	Default	[CPS]
	Oct10,06	12:37:04	NEUTROI	Default	[CPS]	Default	[CPS]
6	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]
	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 22
DATE OF LOG: 10/13/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 63.90 M
AZIMUTH: 41.1
DISTANCE: 32.5 M
+ = 5 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
RHTR 2006 - 27

COMPANY	:NORTHERN ENERGY MINING INC		
WELL	:RHTR 2006 - 27		
FIELD	:ROMAN MTN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUMBIA		
LOCATION	:NA	OTHER SERVICES:	
SECTION	:NA	NEUTRON	
TOWNSHIP	:NA	NA	
RANGE	:NA	NA	
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB :NA	
LOG MEASURED FROM	:GL	ELEVATION DF :NA	
DRL MEASURED FROM	:GL	ELEVATION GL :NA	
DATE	:10/23/06		
DEPTH DRILLER	:56		
BIT SIZE	:15.24		
LOG TOP	:0.23		
LOG BOTTOM	:55.18		
CASING OD	:16.51		
CASING BOTTOM	:12.19		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:1.0		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:HOLE ANGLE:50 DEGREES AZIMUTH: 035 DEGREES		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 27 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C.0 10/17/2006 VERSION = 3.64EC

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 27 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C.0 10/17/2006 VERSION = 3.64EC

TOOL CALIBRATION RHTR 2006 - 27 10/23/06 15:57
TOOL 9239C TM VERSION 2015
SERIAL NUMBER 1268

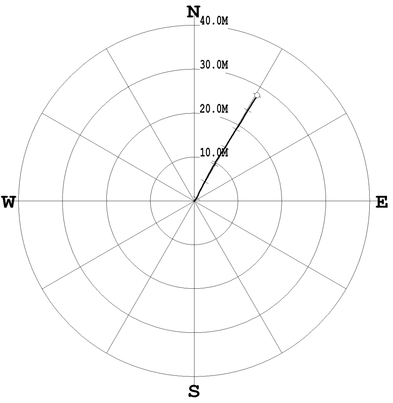
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13,06	18:54:55	GAMMA	Default	[CPS]	Default	[CPS]
	Oct13,06	18:54:55	GAMMA	283.000	[API-GR]	286.00	[CPS]
2	Oct14,06	11:07:04	VOLTAGE	31.850	[MV]	5358.00	[CPS]
	Oct14,06	11:07:04	VOLTAGE	572.000	[MV]	76681.00	[CPS]
3	Oct13,06	18:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
	Oct13,06	18:33:01	CALIPER	2.540	[INCH]	25725.00	[CPS]
4	Oct23,06	15:56:31	DEN(LS)	1.000	[G/CC]	12504.00	[CPS]
	Oct23,06	15:56:31	DEN(LS)	2.383	[G/CC]	1150.00	[CPS]
5	Oct23,06	16:13:41	DEN(SS)	1.000	[G/CC]	20587.00	[CPS]
	Oct23,06	16:13:18	DEN(SS)	2.383	[G/CC]	9200.00	[CPS]
6	Oct13,06	20:38:56	CALIPERL	10.160	[INCH]	128735.00	[CPS]
	Oct13,06	20:38:56	CALIPERL	25.400	[INCH]	304375.00	[CPS]
7	Oct14,06	11:07:25	CURRENT	99.600	[UA]	10840.00	[CPS]
	Oct14,06	11:07:25	CURRENT	291.000	[UA]	29568.00	[CPS]
8	Sep26,06	12:05:58	X	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 27
DATE OF LOG: 10/23/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 43.81 M
AZIMUTH: 30.8
DISTANCE: 28.0 M
+ = 5 M INCR
○ = BOTTOM OF HOLE



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GAMMA - NEUTRON
RHTR 2006 - 27

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 27
FIELD	ROMAN MTN
COUNTY	TUMBLER RIDGE
STATE	BRITISH COLUMBIA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
API NO.	NA
UNIQUE WELL ID	NA
PERMANENT DATUM	GL
LOG MEASURED FROM GL	ELEVATION KB NA
DRL MEASURED FROM GL	ELEVATION DF NA
	ELEVATION GL NA
DATE	10/23/06
DEPTH DRILLER	56
BIT SIZE	15.24
LOG TOP DEPTH	13.32
LOG BOTTOM	55.16
CASING OD	16.51
CASING BOTTOM	12.19
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
RM TEMPERATURE	NA
MUD RES	NA
MUD WEIGHT	1.0
WITNESSED BY	NA
RECORDED BY	J. SKIWICH
REMARKS 1	HOLE ANGLE:90 DEGREES AZIMUTH: 000 DEGREES
REMARKS 2	

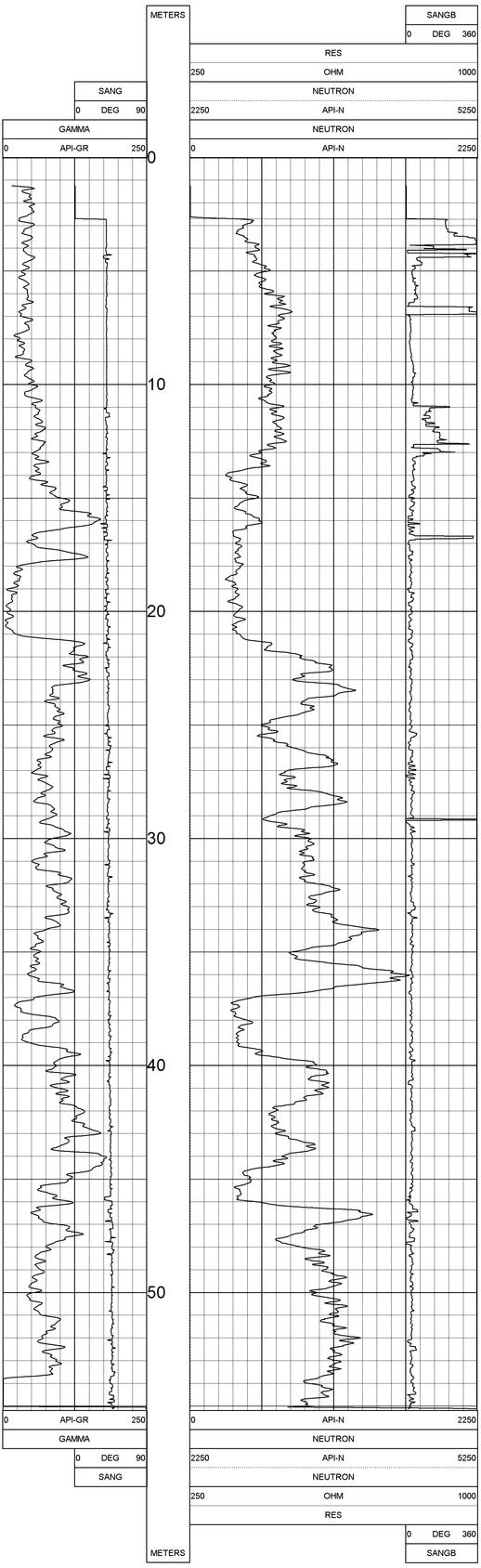
OTHER SERVICES: DENSITY NA NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 27 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9055A.0 10/11/2006		VERSION = 3.64EC



100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 27 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9055A.0 10/11/2006		VERSION = 3.64EC

TOOL CALIBRATION RHTR 2006 - 27 10/23/06 15:34
TOOL 9055A TM VERSION 3200
SERIAL NUMBER 237

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	08:41:30	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Sep27,06	08:41:30	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Feb25,99	00:19:39	POROSIT	Default	[CPS]		
3	Sep27,06	08:35:47	RES	0.000	[OHM]	9615.00	[CPS]
	Sep27,06	08:35:47	RES	100.000	[OHM]	7996.00	[CPS]
4	Sep27,06	08:36:00	SP	0.000	[MV]	1.00	[CPS]
	Sep27,06	08:36:00	SP	400.000	[MV]	2935.00	[CPS]
5	Oct10,06	12:37:04	NEUTROI	Default	[CPS]	Default	[CPS]
	Oct10,06	12:37:04	NEUTROI	Default	[CPS]	Default	[CPS]
6	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]
	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]

Schlumberger

GAMMA, CALIPER, RESISTIVITY
COMPACT SONIC & DENSITY

Company	Petroleum Development Oman
Well	Fahud 1
Field	Fahud
Country	Sultanate of Oman
Date	26-Jan-2006
Time	15:00
Log Number	1
Run Number	1
Depth Reference	Rotary Table
Elevation	0 m
Permanent Datum	Ground Level
Log Measured From	Rotary Table
Drilling Measured From	Rotary Table
Max. Recorded Temp.	90 °C
Bottom Hole Temp.	90 °C
Equipment Number	2
Location	Fahud
Recorded By	Ali Al Ghafri
Witnessed By	Mr. Ali Al Ghafri

100CM LOG: GAMMA-RES-DENSITY RHTR 2006 - 9 06/24/06

LOG PARAMETERS

MATRIX DENSITY 2.65	MUD FILTRATE DENSITY 1.00	MATRIX DELTA T 57	
MAGNETIC DECL. 0	SURF. CORR. 0.000	BIT SIZE 6.0 in	
GAMMA RAY CURVE CARDIFF L. ; ALSO : MAGNIFIED			

DEPTH
1:240 m
1:1000 m

GAMMA RAY
0 API 100 API

CALIPER
6 in 16 in

DEPTH
1:240 m
1:1000 m

COMP. SONIC
57 us/ft 137 us/ft

DENSITY
2.0 g/cc 3.0 g/cc

RESISTIVITY
0.2 Ohm.m 2000 Ohm.m

100CM LOG: GAMMA-RES-DENSITY RHTR 2006 - 9 06/24/06

LOG PARAMETERS

MATRIX DENSITY 2.65	MUD FILTRATE DENSITY 1.00	MATRIX DELTA T 57	
MAGNETIC DECL. 0	SURF. CORR. 0.000	BIT SIZE 6.0 in	
GAMMA RAY CURVE CARDIFF L. ; ALSO : MAGNIFIED			

LOG: CALIBRATION, SERVICING, CALIBRATION TO AIR
LOG SCALE: 100 CM/DEPTH UNITS
LOG TYPE: MAIN PASS

1	2006-06-24	09:00:00	0	0	0	0	0
2	2006-06-24	09:00:00	0	0	0	0	0
3	2006-06-24	09:00:00	0	0	0	0	0
4	2006-06-24	09:00:00	0	0	0	0	0
5	2006-06-24	09:00:00	0	0	0	0	0
6	2006-06-24	09:00:00	0	0	0	0	0
7	2006-06-24	09:00:00	0	0	0	0	0
8	2006-06-24	09:00:00	0	0	0	0	0
9	2006-06-24	09:00:00	0	0	0	0	0
10	2006-06-24	09:00:00	0	0	0	0	0
11	2006-06-24	09:00:00	0	0	0	0	0
12	2006-06-24	09:00:00	0	0	0	0	0
13	2006-06-24	09:00:00	0	0	0	0	0
14	2006-06-24	09:00:00	0	0	0	0	0
15	2006-06-24	09:00:00	0	0	0	0	0
16	2006-06-24	09:00:00	0	0	0	0	0
17	2006-06-24	09:00:00	0	0	0	0	0
18	2006-06-24	09:00:00	0	0	0	0	0
19	2006-06-24	09:00:00	0	0	0	0	0
20	2006-06-24	09:00:00	0	0	0	0	0
21	2006-06-24	09:00:00	0	0	0	0	0
22	2006-06-24	09:00:00	0	0	0	0	0
23	2006-06-24	09:00:00	0	0	0	0	0
24	2006-06-24	09:00:00	0	0	0	0	0
25	2006-06-24	09:00:00	0	0	0	0	0
26	2006-06-24	09:00:00	0	0	0	0	0
27	2006-06-24	09:00:00	0	0	0	0	0
28	2006-06-24	09:00:00	0	0	0	0	0
29	2006-06-24	09:00:00	0	0	0	0	0
30	2006-06-24	09:00:00	0	0	0	0	0
31	2006-06-24	09:00:00	0	0	0	0	0
32	2006-06-24	09:00:00	0	0	0	0	0
33	2006-06-24	09:00:00	0	0	0	0	0
34	2006-06-24	09:00:00	0	0	0	0	0
35	2006-06-24	09:00:00	0	0	0	0	0
36	2006-06-24	09:00:00	0	0	0	0	0
37	2006-06-24	09:00:00	0	0	0	0	0
38	2006-06-24	09:00:00	0	0	0	0	0
39	2006-06-24	09:00:00	0	0	0	0	0
40	2006-06-24	09:00:00	0	0	0	0	0
41	2006-06-24	09:00:00	0	0	0	0	0
42	2006-06-24	09:00:00	0	0	0	0	0
43	2006-06-24	09:00:00	0	0	0	0	0
44	2006-06-24	09:00:00	0	0	0	0	0
45	2006-06-24	09:00:00	0	0	0	0	0
46	2006-06-24	09:00:00	0	0	0	0	0
47	2006-06-24	09:00:00	0	0	0	0	0
48	2006-06-24	09:00:00	0	0	0	0	0
49	2006-06-24	09:00:00	0	0	0	0	0
50	2006-06-24	09:00:00	0	0	0	0	0
51	2006-06-24	09:00:00	0	0	0	0	0
52	2006-06-24	09:00:00	0	0	0	0	0
53	2006-06-24	09:00:00	0	0	0	0	0
54	2006-06-24	09:00:00	0	0	0	0	0
55	2006-06-24	09:00:00	0	0	0	0	0
56	2006-06-24	09:00:00	0	0	0	0	0
57	2006-06-24	09:00:00	0	0	0	0	0
58	2006-06-24	09:00:00	0	0	0	0	0
59	2006-06-24	09:00:00	0	0	0	0	0
60	2006-06-24	09:00:00	0	0	0	0	0
61	2006-06-24	09:00:00	0	0	0	0	0
62	2006-06-24	09:00:00	0	0	0	0	0
63	2006-06-24	09:00:00	0	0	0	0	0
64	2006-06-24	09:00:00	0	0	0	0	0
65	2006-06-24	09:00:00	0	0	0	0	0
66	2006-06-24	09:00:00	0	0	0	0	0
67	2006-06-24	09:00:00	0	0	0	0	0
68	2006-06-24	09:00:00	0	0	0	0	0
69	2006-06-24	09:00:00	0	0	0	0	0
70	2006-06-24	09:00:00	0	0	0	0	0
71	2006-06-24	09:00:00	0	0	0	0	0
72	2006-06-24	09:00:00	0	0	0	0	0
73	2006-06-24	09:00:00	0	0	0	0	0
74	2006-06-24	09:00:00	0	0	0	0	0
75	2006-06-24	09:00:00	0	0	0	0	0
76	2006-06-24	09:00:00	0	0	0	0	0
77	2006-06-24	09:00:00	0	0	0	0	0
78	2006-06-24	09:00:00	0	0	0	0	0
79	2006-06-24	09:00:00	0	0	0	0	0
80	2006-06-24	09:00:00	0	0	0	0	0
81	2006-06-24	09:00:00	0	0	0	0	0
82	2006-06-24	09:00:00	0	0	0	0	0
83	2006-06-24	09:00:00	0	0	0	0	0
84	2006-06-24	09:00:00	0	0	0	0	0
85	2006-06-24	09:00:00	0	0	0	0	0
86	2006-06-24	09:00:00	0	0	0	0	0
87	2006-06-24	09:00:00	0	0	0	0	0
88	2006-06-24	09:00:00	0	0	0	0	0
89	2006-06-24	09:00:00	0	0	0	0	0
90	2006-06-24	09:00:00	0	0	0	0	0
91	2006-06-24	09:00:00	0	0	0	0	0
92	2006-06-24	09:00:00	0	0	0	0	0
93	2006-06-24	09:00:00	0	0	0	0	0
94	2006-06-24	09:00:00	0	0	0	0	0
95	2006-06-24	09:00:00	0	0	0	0	0
96	2006-06-24	09:00:00	0	0	0	0	0
97	2006-06-24	09:00:00	0	0	0	0	0
98	2006-06-24	09:00:00	0	0	0	0	0
99	2006-06-24	09:00:00	0	0	0	0	0
100	2006-06-24	09:00:00	0	0	0	0	0

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: PETROBRA ENERGY MINERAL
WELL NAME: 1-BRSA-
RIG NAME: 1-BRSA-
DATE OF LOG: 24/10/79
ORIGINAL DATUM: 0

MAG DECL: 21.0

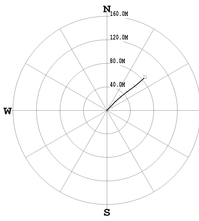
SCALE: 20 METER
DEPTH INTERVAL: 40 M
AZIMUTH: 90.0
DISPLACEMENT: 97.3 M
AT A DEPTH OF:
* = BOTTOM OF HOLE

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: BONAR MTM
HOLE ID: BRTM 2006 - 9
DATE OF LOG: 08/24/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 20 M/CM
TRUE DEPTH: 246.19 M
AZIMUTH: 48.9
DISTANCE: 86.2 M
+ = 50 M INCR
□ = BOTTOM OF HOLE



Century Drilling
Corporation
century.com

DIPMETER
RHTR 2006 - 9

WELL:	RHTR 2006 - 9
FIELD:	
COUNTY, STATE:	
ELEVATION:	
SECTION:	NA
TOWNSHIP:	NA
RANGE:	NA
LOCATION:	NA
DATE:	NA
DRILLING CONTRACTOR:	NA
RIG:	NA
DRILLING FLUID:	NA
MAX DEVIATION:	NA
DRILL PIPE:	NA
DRILL COLLAR:	NA
HOLE SIZE:	NA
CASING SIZE:	NA
DIP SOURCE:	NA
DIP DATE:	NA
DIP BY:	NA
DIP CALIBRATION:	NA
DIP SERIAL NUMBER:	NA
DIP ANALYST:	NA
DIP ANALYSIS DATE:	NA
ELEVATION: GL:	NA
ELEVATION: DF:	NA
ELEVATION: KB:	NA

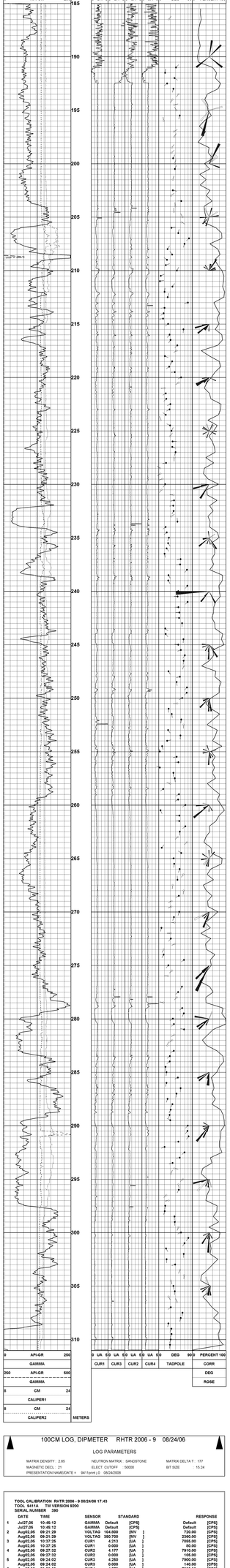
DOWN HOLE SERVICES
CONTACT:
PHONE:
FAX:
EMAIL:
WEBSITE:
ADDRESS:
CITY, STATE, ZIP:

DIPMETER
RHTR 2006 - 9
08/24/06
SERIAL NUMBER: 390
DIP ANALYST:
DIP ANALYSIS DATE:
ELEVATION: GL: NA
ELEVATION: DF: NA
ELEVATION: KB: NA

100CM LOG, DIPMETER RHTR 2006 - 9 08/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL. : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9411pmlj.0 09/24/2006



100CM LOG, DIPMETER RHTR 2006 - 9 08/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL. : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9411pmlj.0 09/24/2006

TOOL CALIBRATION RHTR 2006 - 9 09/24/06 17:43
TOOL 9411A TIM VERSION 9200
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,06	10:46:12	GAMMA	Default	[CPS]	Default	[CPS]
	Jul27,06	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,06	09:21:29	VOLTAG	184.000	[MV]	720.00	[CPS]
	Aug02,06	09:21:29	VOLTAG	350.700	[MV]	2390.00	[CPS]
3	Aug02,06	10:37:26	CUR1	4.313	[UA]	7855.00	[CPS]
	Aug02,06	10:37:26	CUR1	0.000	[UA]	00.00	[CPS]
4	Aug02,06	09:27:32	CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,06	09:27:32	CUR2	0.000	[UA]	105.00	[CPS]
5	Aug02,06	09:24:02	CUR3	4.260	[UA]	7960.00	[CPS]
	Aug02,06	09:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,06	09:26:09	CUR4	4.270	[UA]	7980.00	[CPS]
	Aug02,06	09:26:09	CUR4	0.000	[UA]	105.00	[CPS]
7	Feb18,06	10:59:53	CALIPER	15.240	[INCH]	9145.00	[CPS]
	Feb18,06	10:59:53	CALIPER	30.480	[INCH]	2209.00	[CPS]

Baker Hughes INTEQ

GAMMA / NEUTRON / RES

RUN # 3/2D/1 R

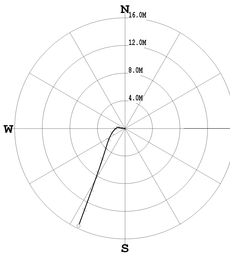
DATE	08-Jul-06
DATUM	MSL
DRILLING MEASURED FROM	RKB
ELEVATION	0.00

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: NETR 2006 - 20
DATE OF LOG: 10/02/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 2 M/CM
TRUE DEPTH: 116.89 M
AZIMUTH: 205.6
DISTANCE: 15.6 M
* = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
RHTR 2006 - 22

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 22
FIELD	ROMAN MTN
MUNICIPALITY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
COORDINATES	
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO.	N/A
UNIQUE WELL ID	
LOC MEASURED FROM GL	ELEVATION KB N/A
LOG MEASURED FROM GL	ELEVATION DF N/A
DRL MEASURED FROM GL	ELEVATION GL N/A

OTHER SERVICES: NEUTRON

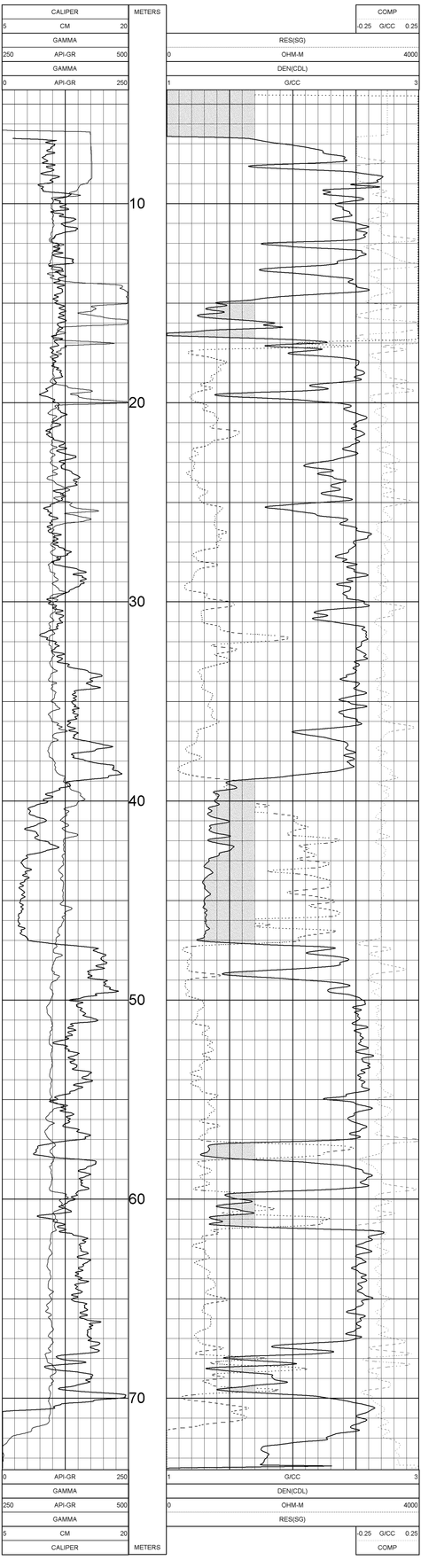
DATE	10/03/06
RUN NO.	:1
DEPTH DRILLER	:79.2
DEPTH LOGGER	:77.2
BTM LOG INT	:77.2
TOP LOG INT	:73.53
CASING OD	:15.24
CASING BOTTOM	:9.1
CASING TYPE	:SURFACE
BOREHOLE FLUID	
RM SUPPLIER	
RM MEASURE	
MAX REC TEMP	
MATRIX DENSITY	2.65
NEUTRON MATRIX	SANDSTONE
ELECT. CUTOFF	9500
BIT SIZE	7.62
MATRIX DELTA T	177
MAGNETIC DECL	21
RECORDED BY	7 : BOGS
WITNESSED BY	
REMARKS 1	90 DEGREE EAGLE
REMARKS 2	140 DEGREE AZIMUTH

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES--DENSITY RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62	



1:100 CM LOG, GAMMA-RES--DENSITY RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62	

TOOL CALIBRATION RHTR 2006 - 22 10/03/06 14:19
TOOL 9239C
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	18:30:09	GAMMA	0.000	[API-GR]	12.00	[CPS]
	Sep27,06	17:30:09	GAMMA	283.000	[API-GR]	290.00	[CPS]
2	Sep27,06	17:30:26	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Sep27,06	17:30:26	VOLTAGE	572.000	[MV]	76881.10	[CPS]
3	Oct03,06	00:28:08	CALIPER	8.890	[INCH]	218140.00	[CPS]
	Oct03,06	00:28:08	CALIPER	15.240	[INCH]	355650.00	[CPS]
4	Sep27,06	17:32:02	DEN(LS)	1.000	[G/CC]	14011.00	[CPS]
	Sep27,06	17:32:02	DEN(LS)	2.383	[G/CC]	1125.00	[CPS]
5	Sep27,06	17:32:36	DEN(SS)	1.000	[G/CC]	22981.00	[CPS]
	Sep27,06	17:32:36	DEN(SS)	2.383	[G/CC]	9150.00	[CPS]
6	Oct03,06	00:27:50	CALIPERL	15.240	[INCH]	242068.00	[CPS]
	Oct03,06	00:27:50	CALIPERL	25.400	[INCH]	375794.00	[CPS]
7	Sep27,06	17:33:04	CURRENT	99.600	[UA]	10840.00	[CPS]
	Sep27,06	17:33:04	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	16:47:07	F	0.790	[ ]		

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RHTR 2006 - 22

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 22
FIELD	ROMAN MTN
COUNTY	TUMBLER RIDGE
STATE	BRITISH COLUMBIA
LOCATION	
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO.	
UNIQUE WELL ID.	
PERMANENT DATUM	GL
LOG MEASURED FROM GL	ELEVATION KB N/A
DRL MEASURED FROM GL	ELEVATION DF N/A
	ELEVATION GL N/A

OTHER SERVICES: NEUTRON DENSITY

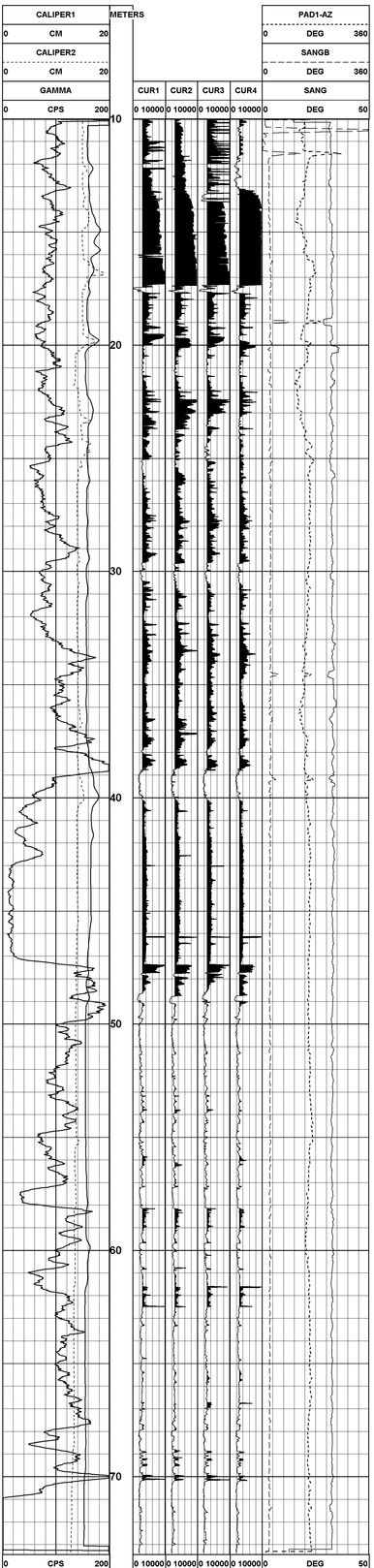
DATE	03/10/06
RUN NO.	ONE
DEPTH DRILLER	79.2
DEPTH LOGGER	78.8
BIT SIZE	7.62
LOG TOP	10.00
LOG BOTTOM	73.40
CASING OD	15.24
CASING WT. & TYPE	9.1
CASING FLUID	SURFACE
MAX. REC. TEMP.	
RM TEMPERATURE	
MUD RES.	
MUD WEIGHT	
VISCOSITY	
RECORDED BY	T. BOOS
REMARKS 1	60 DEGREE ANGLE
REMARKS 2	45 DEGREE AZIMUTH

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100, DIPMETER QC LOG RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 9500 BIT SIZE : 7.62
PRESENTATION NAME/DATE = CANDIPQCMETRIC.0 03/15/2006 VERSION = 3.64EB



1:100, DIPMETER QC LOG RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 9500 BIT SIZE : 7.62
PRESENTATION NAME/DATE = CANDIPQCMETRIC.0 03/15/2006 VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 22 10/03/06 16:26
TOOL 9411A TM VERSION 1
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,05	11:45:12	GAMI	Default	[CPS]	Default	[CPS]
	Jul27,05	11:45:12	GAMI	Default	[CPS]	Default	[CPS]
2	Aug02,0510:21:29		VOL'	104.800	[MV]	720.00	[CPS]
	Aug02,0510:21:29		VOL'	350.700	[MV]	2360.00	[CPS]
3	Aug02,0511:37:25		CUR1	4.213	[UA]	7855.00	[CPS]
	Aug02,0511:37:25		CUR1	0.000	[UA]	90.00	[CPS]
4	Aug02,0510:27:32		CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,0510:27:32		CUR2	0.000	[UA]	105.00	[CPS]
5	Aug02,0510:24:02		CUR3	4.250	[UA]	7900.00	[CPS]
	Aug02,0510:24:02		CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,0510:26:09		CUR4	4.270	[UA]	7860.00	[CPS]
	Aug02,0510:26:09		CUR4	0.000	[UA]	180.00	[CPS]
7	Oct04,06 14:28:46		CALII	15.240	[INCH]	9145.00	[CPS]
	Oct04,06 14:28:46		CALII	30.480	[INCH]	2208.00	[CPS]

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GAMMA - CALIPER - RESISTIVITY
DENSITY - LONG SPACE
RHTR 2006 - 22

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 22
FIELD	ROMAN MTN
MUNICIPALITY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
SECTION	
LOCATION	
TOWNSHIP	N/A
RANGE	N/A
W.M.	N/A
API NO.	
UNIQUE WELL ID	
PERMANENT DATUM	GL
LOG MEASURED FROM GL	ELEVATION KB N/A
DRL MEASURED FROM GL	ELEVATION DF N/A
	ELEVATION GL N/A
DATE	10/03/06
RUN NO.	1
DEPTH DRILLER	79.2
BIT SIZE	7.62
CASING	4.27
LOG TOP	73.53
LOG BOTTOM	15.34
CASING OD	9.1
CASING BOTTOM	SURFACE
CIRCULATING FLUID	
RM TEMPERATURE	
MUD RES	
WITNESSED BY	
RECORDED BY	T. BOOS
REMARKS 1	90 DEGREE ANGLE
REMARKS 2	45 DEGREE AZIMUTH

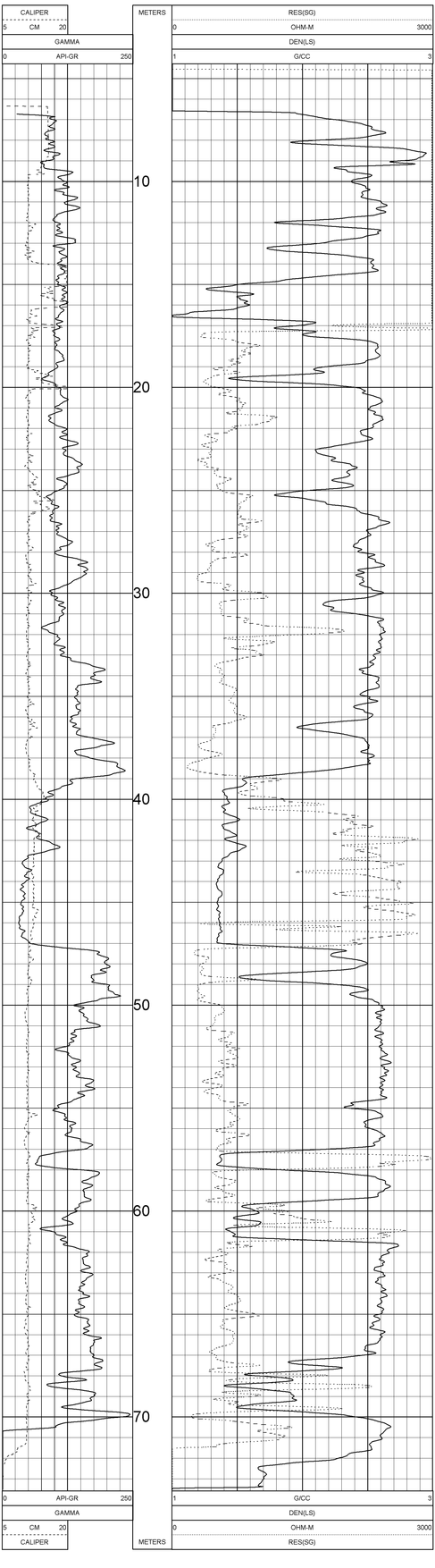
OTHER SERVICES: DIP, NEUTRON

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62

TOOL CALIBRATION RHTR 2006 - 22 10/03/06 14:19
TOOL 9239C
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	17:30:09	GAMMA	0.000	[API-GR]	12.00	[CPS]
	Sep27,06	17:30:09	GAMMA	283.000	[API-GR]	290.00	[CPS]
2	Sep27,06	17:30:26	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Sep27,06	17:30:26	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	Oct03,06	00:28:08	CALIPER	8.890	[INCH]	218140.00	[CPS]
	Oct03,06	00:28:08	CALIPER	15.240	[INCH]	355650.00	[CPS]
4	Sep27,06	17:32:02	DEN(LS)	1.000	[G/CC]	14011.00	[CPS]
	Sep27,06	17:32:02	DEN(LS)	2.383	[G/CC]	1125.00	[CPS]
5	Sep27,06	17:32:36	DEN(SS)	1.000	[G/CC]	22981.00	[CPS]
	Sep27,06	17:32:36	DEN(SS)	2.383	[G/CC]	9150.00	[CPS]
6	Oct03,06	00:27:50	CALIPERL	15.240	[INCH]	242068.00	[CPS]
	Oct03,06	00:27:50	CALIPERL	25.400	[INCH]	375794.00	[CPS]
7	Sep27,06	17:33:04	CURRENT	99.600	[UA]	10840.00	[CPS]
	Sep27,06	17:33:04	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	16:47:07	F	0.790	[ ]		

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GAMMA - NEUTRON
OPEN HOLE
RHTR 2006 - 22

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 22
FIELD	HOLDEN MINING
MUNICIPALITY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
LOCATION	
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO	
UNIQUE WELL ID	
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILL MEASURED FROM	GL
ELEVATION KB	N/A
ELEVATION DF	N/A
ELEVATION GL	N/A

OTHER SERVICES: NEUTRON, DIP

RUN NO	3
DEPTH DRILLER	79.2
BIT SIZE	7.62
LOG TOP	0.23
LOG BOTTOM	75.32
CASING OD	11.24
CASING TYPE	SURFACE
CASING BOTTOM	9.1
BOREHOLE FLUID	
MAX RECORDED TEMPERATURE	
WITNESSED BY	
RECORDED BY	T. BOGS
REMARKS 1	60 DEGREE INCLE
REMARKS 2	49 DEGREE AZIMUTH

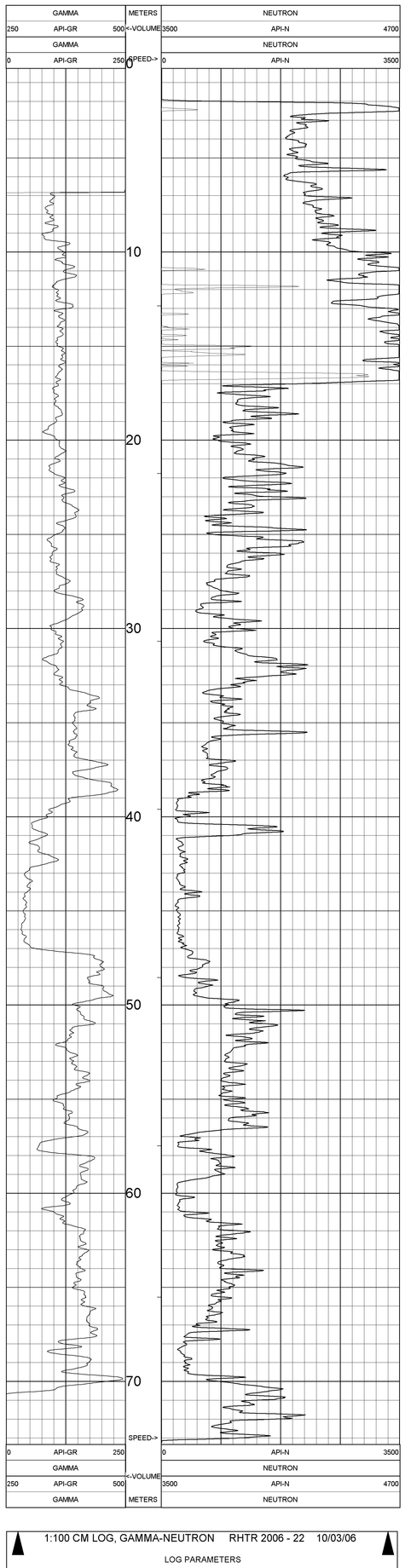
DATE: 03/06/06

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-NEUTRON RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62



1:100 CM LOG, GAMMA-NEUTRON RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62

TOOL CALIBRATION RHTR 2006 - 22 10/03/06 16:49
TOOL 9067A
SERIAL NUMBER 529

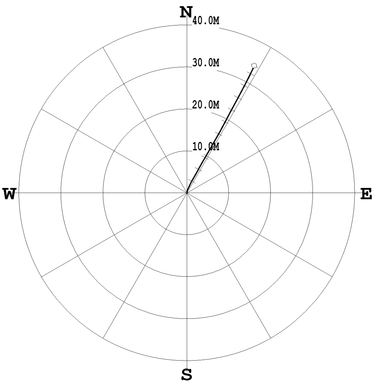
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar01,02	22:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01,02	22:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22,06	16:07:12	NEUTROI	Default	[CPS]	Default	[CPS]
	Feb22,06	16:07:12	NEUTROI	Default	[CPS]	Default	[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 22
DATE OF LOG: 10/03/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 63.22 M
AZIMUTH: 27.9
DISTANCE: 34.3 M
+ = 5 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
RHTR 2006 - 22

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 22
FIELD	ROMAN MTN
MUNICIPALITY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
SECTION	
LOCATION	
TOWNSHIP	N/A
RANGE	N/A
BLOCK	N/A
API NO.	
UNIQUE WELL ID	
PERMANENT DATUM	GL
LOG MEASURED FROM GL	ELEVATION KB N/A
DRL MEASURED FROM GL	ELEVATION DF N/A
	ELEVATION GL N/A

OTHER SERVICES: DIP, NEUTRON

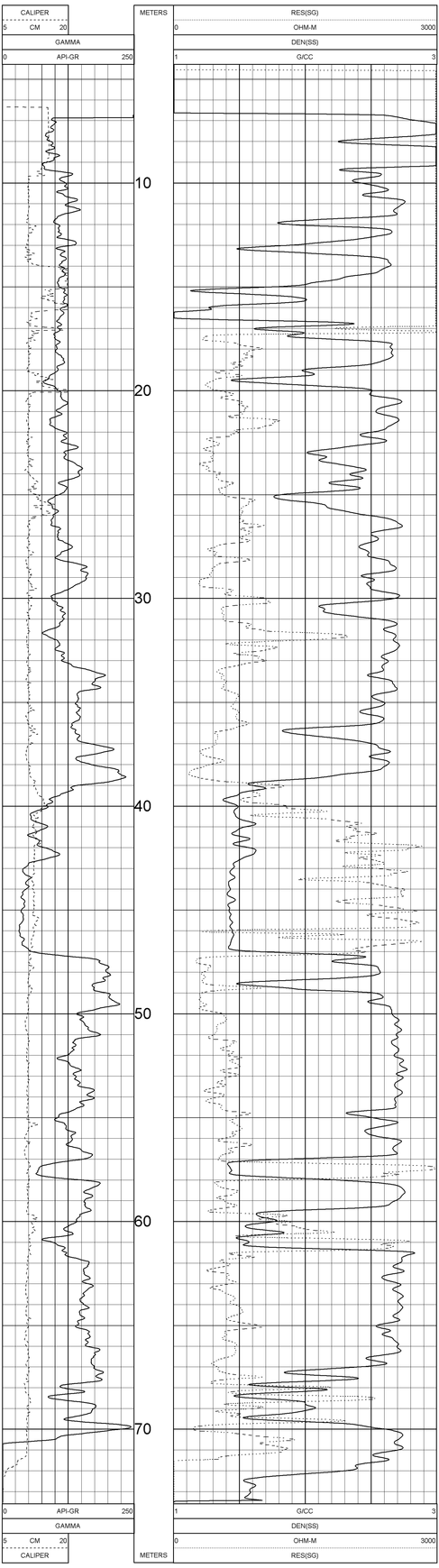
DATE	10/03/06	MATRIX DENSITY	2.65
RUN NO.	ONE	NEUTRON MATRIX	SANDSTONE
DEPTH DRILLER	79.2	ELECT. CUTOFF	9500
BIT SIZE	7.62	BIT SIZE	7.62
CASING	4-27	MATRIX DELTA T	177
LOG TOP	73.53	MAGNETIC DECL.	21
CASING OD	15.24		
CASING BOTTOM	9.1		
CASING TYPE	SURFACE		
CASING WEIGHT			
MUD TEMPERATURE			
MUD RES			
WITNESSED BY			
RECORDED BY	T. BOOS		
REMARKS 1	90 DEGREE ANGLE		
REMARKS 2	45 DEGREE AZIMUTH		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 22 10/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62

TOOL CALIBRATION RHTR 2006 - 22 10/03/06 14:19
TOOL 9239C
SERIAL NUMBER 1245

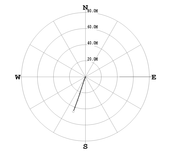
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	17:30:09	GAMMA	0.000	[API-GR]	12.00	[CPS]
	Sep27,06	17:30:09	GAMMA	283.000	[API-GR]	290.00	[CPS]
2	Sep27,06	17:30:26	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Sep27,06	17:30:26	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	Oct03,06	00:28:08	CALIPER	8.890	[INCH]	218140.00	[CPS]
	Oct03,06	00:28:08	CALIPER	15.240	[INCH]	355650.00	[CPS]
4	Sep27,06	17:32:02	DEN(LS)	1.000	[G/CC]	14011.00	[CPS]
	Sep27,06	17:32:02	DEN(LS)	2.383	[G/CC]	1125.00	[CPS]
5	Sep27,06	17:32:36	DEN(SS)	1.000	[G/CC]	22981.00	[CPS]
	Sep27,06	17:32:36	DEN(SS)	2.383	[G/CC]	9150.00	[CPS]
6	Oct03,06	00:27:50	CALIPERL	15.240	[INCH]	242068.00	[CPS]
	Oct03,06	00:27:50	CALIPERL	25.400	[INCH]	375794.00	[CPS]
7	Sep27,06	17:33:04	CURRENT	99.600	[UA]	10840.00	[CPS]
	Sep27,06	17:33:04	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	16:47:07	F	0.790	[ ]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC.
LOCATION: SIMON MINE
HOLE ID: DDH 2005 - 23
DATE OF SAV: 10/02/06
PROBE: 9411A - 390

MAG DECL: 21.0

SCALE: 10 METER
TOTAL DEPTH: 130.10 M
AZIMUTH: 149.0
DISTANCE: 41.0 M
+ = 20 M DEP
= BOTTOM OF HOLE



Geotech
GEOTECH (UK) LIMITED

GAMMA - DENSITY - RESISTIVITY COMPENSATED RESISTIVITY RHTR 2006 - 23

COMPANY	ENERGY EXPLORATION & DEVELOPMENT NL
WELL	RHTR 2006 - 23
FIELD	ROMAR BASIN
COUNTY	BEAVERHILL LAKE
STATE	NORTHWEST TERRITORIES
COUNTRY	CANADA
API NO.	N/A
LOCATION	N/A
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
PERMANENT DATUM	GL
LOG MEASURED FROM	KB 5.0 METRES ABOVE PERM. DATUM
DRILLING MEASURED FROM	KB
ELEV.: PERM. DATUM	GL
ELEV.: KB	5.0
ELEV.: DF	N/A
ELEV.: GL	0.0
DATE	10/02/06
RUN NO.	ONE
DEPTH-DRILLER	150.0 METRES
DEPTH-LOGGER	150.0 METRES
BTM LOG INTERVAL	150.0 METRES
TOP LOG INTERVAL	0.0 METRES
CASING-DRILLER	12.00" @ 12.0 METRES
CASING-LOGGER	N/A
BIT SIZE	7.62
TYPE FLUID IN HOLE	WATER
DENSITY	N/A
VISCOSITY	N/A
PH	N/A
FLUID LOSS	N/A
SOURCE OF SAMPLE	FLOWLINE
RM @ MEASURED TEMP.	N/A
RMF @ MEASURED TEMP.	N/A
RMC @ MEASURED TEMP.	N/A
SOURCE: RMF / RMC	N/A
RM @ BHT	N/A
TIME CIRC. ended	N/A
TIME LOGGER on BOTTOM	N/A
MAX. REC. TEMP.	N/A
EQUIP. LOCATION	N/A
RECORDED BY	N/A
WITNESSED BY	N/A

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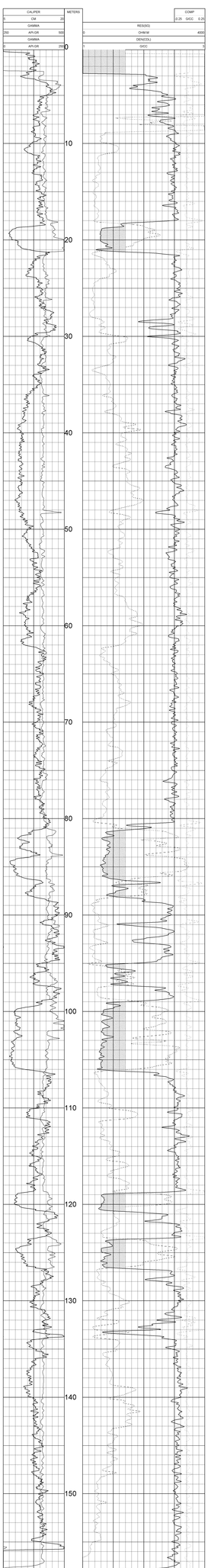
1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T: 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T: 177
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62

TOOL CALIBRATION: RHTR 2006 - 23 10/02/06 17:24
TOOL: 9230C
TOOL NUMBER : 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	17:30:38	GAMMA	0.000	[API-GR]	12.00	[CPS]
2	Sep27,06	17:30:58	GAMMA	200.000	[API-GR]	2300.00	[CPS]
3	Sep27,06	17:50:28	VOLTAGE	10.000	[MV]	10000.00	[CPS]
4	Sep27,06	17:50:38	VOLTAGE	15.000	[MV]	16665.10	[CPS]
5	Sep27,06	17:50:48	CALIPER	8.500	[INCH]	2181400.00	[CPS]
6	Sep27,06	17:50:58	CALIPER	12.000	[INCH]	1333300.00	[CPS]
7	Sep27,06	17:52:02	DENS.SL	1.000	[G/CC]	14071.00	[CPS]
8	Sep27,06	17:52:12	DENS.SL	2.383	[G/CC]	7329.00	[CPS]
9	Sep27,06	17:52:32	DENS(SS)	1.000	[G/CC]	11000.00	[CPS]
10	Sep27,06	17:52:38	DENS(SS)	2.383	[G/CC]	6150.00	[CPS]
11	Sep27,06	17:53:08	CALIPER	10.245	[INCH]	242666.00	[CPS]
12	Sep27,06	17:53:14	CALIPER	12.000	[INCH]	333300.00	[CPS]
13	Sep27,06	17:53:54	CURRENT	88.600	[UA]	10840.00	[CPS]
14	Sep27,06	17:53:04	CURRENT	252.500	[UA]	25120.00	[CPS]
15	Apr14,06	16:47:37	F	0.750	[ ]		

Geotech Services Limited

DIAMETER
RHTR 2006 - 23

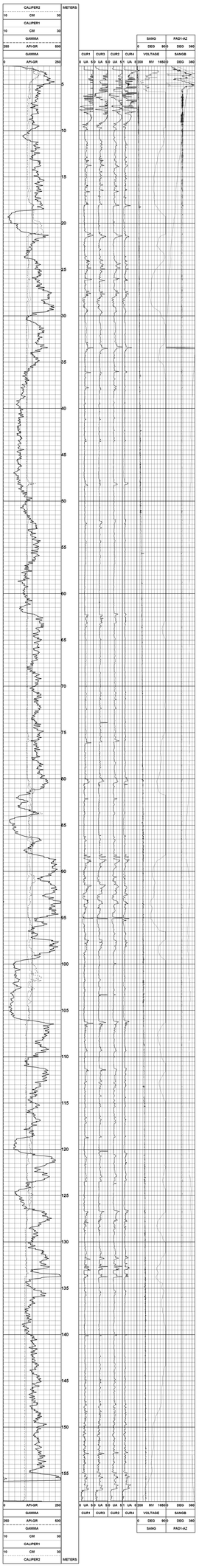
Company	Geotech Services Limited
Well	RHTR 2006 - 23
Field	
County	
State	
Country	
Latitude	
Longitude	
Elevation	
Date	
Time	
Logging Unit	
Logging Engineer	
Witnessed By	

Depth Reference	Ground Level
Log Measured From	
Drilling Measured From	
Permanent Datum	
Elevation	
Depth Datum	
Depth Control	
Depth Mode	
Depth Source	
Drill Collar	
Drill Pipe	
Drill Bit	
Mud Type	
Mud Density	
Mud Viscosity	
Mud Resistivity	
Mud Filtrate Resistivity	
Mud Cake Resistivity	
Mud Temperature	
Mud Filtrate Temperature	
Mud Cake Temperature	
Max Recorded Temperature	
Bottom Hole Temperature	
Circulation Stopped	
Logging Started	
Logging Completed	
Equipment Number	
Location	
Recorded By	
Witnessed By	

1:100 CM LOG, GAMMA-CURRENT-DIP RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65		NEUTRON MATRIX : SANDSTONE		MATRIX DELTA T : 177	
MAGNETIC DECL. : 21		ELECT. CUTOFF : 9500		BIT SIZE : 7.62	
PRESENTATION: NAMEGATE =	94114.0	10/02/2006		VERSION = 3.64EB	



1:100 CM LOG, GAMMA-CURRENT-DIP RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65		NEUTRON MATRIX : SANDSTONE		MATRIX DELTA T : 177	
MAGNETIC DECL. : 21		ELECT. CUTOFF : 9500		BIT SIZE : 7.62	
PRESENTATION: NAMEGATE =	94114.0	10/02/2006		VERSION = 3.64EB	

TOOL CALIBRATION RHTR 2006 - 23 10/02/06 18:07
TOOL 3411A TH VERSION 1
SERIAL NUMBER 350

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,06	09:46:12	GAMMA	Default	[CPS]	Default	[CPS]
	Jul27,06	09:46:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,06	09:21:29	VOLTAG	350.000	[MV]	2350.00	[CPS]
	Aug02,06	09:21:29	VOLTAG	350.700	[MV]	2350.00	[CPS]
3	Aug02,06	09:37:26	CUR1	4.213	[UA]	7888.00	[CPS]
	Aug02,06	09:37:26	CUR1	0.000	[UA]	95.00	[CPS]
4	Aug02,06	09:37:32	CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,06	09:37:32	CUR2	0.000	[UA]	95.00	[CPS]
5	Aug02,06	09:24:02	CUR3	4.050	[UA]	7950.00	[CPS]
	Aug02,06	09:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,06	09:26:09	CUR4	4.270	[UA]	7990.00	[CPS]
	Aug02,06	09:26:09	CUR4	0.000	[UA]	190.00	[CPS]
7	Feb01,06	10:58:53	CALIPER	30.480	[INCH]	2555.00	[CPS]
	Feb01,06	10:58:53	CALIPER	30.480	[INCH]	2555.00	[CPS]

Geology Geophysics Geochemistry
Corbitt Wireline Services
corbitt-gm.com

Operator:	Corbitt Wireline Services
Field:	Kalgoorlie
Well:	RHTR 2006 - 23
Description:	gamma caliper resistivity density
Date:	10/02/06
Time:	09:00
Logged Interval:	0 - 150.0 m
Max Depth:	150.0 m
Drill Method:	RC
Hole Size:	5.5 in
Bit Type:	Blade
Bit Size:	5.5 in
Casing Type:	5.5 in
Casing Size:	5.5 in
Casing Depth:	0 m
Bit Depth:	150.0 m
Water Level:	Dry
Rig Type:	Rotary
Rig Name:	Rotary
Logged By:	Corbitt Wireless
Witnessed By:	Client Representative
Equipment Number:	1245
Calibration Date:	10/02/06
Calibration Number:	20
Tool Type:	Gamma Caliper Density Resistivity
Tool Serial Number:	1245
Density Source:	Cs137
Density Serial Number:	2812
Resistivity Array:	Single Point Resistance
Resistivity Electrode Spacing:	0.4 m
Resistivity Serial Number:	1245
Gamma Serial Number:	1245
Caliper Serial Number:	1245
Gamma Offset:	0.00 m
Density Offset:	0.00 m
Resistivity Offset:	0.00 m
Caliper Offset:	0.00 m
Depth Reference:	Ground Level
Elevation:	0.00 m
Datum:	
Depth Correction:	
Comments:	

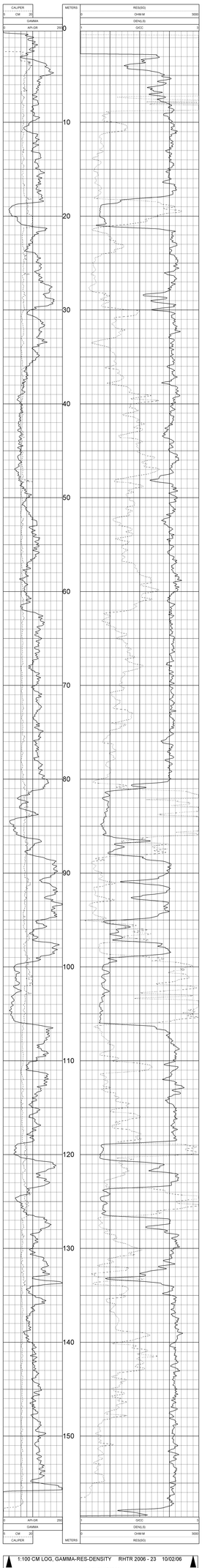
GAMMA - CALIPER - RESISTIVITY DENSITY - LONG SPACE RHTR 2006 - 23

Client Representative

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	9500	BIT SIZE :	7.62



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	9500	BIT SIZE :	7.62

TOOL CALIBRATION RHTR 2006 - 23 10/02/06 17:24
TOOL SCALING
EQUIPMENT NUMBER : 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	17:30:09	GAMMA	0.000	[API-GR]	12.00	[CPS]
2	Sep27,06	17:30:14	VOLTAGE	12.000	[MV]	12000.00	[CPS]
3	Sep27,06	17:30:26	VOLTAGE	31.000	[MV]	5200.10	[CPS]
3	Sep27,06	17:30:26	VOLTAGE	572.000	[MV]	79861.10	[CPS]
4	Sep27,06	17:32:01	CALIPER	10.000	[INCH]	1000.00	[CPS]
4	Sep27,06	17:32:02	CALIPER	15.240	[INCH]	305600.00	[CPS]
4	Sep27,06	17:32:02	DENS(S)	1.000	[G/CC]	14011.00	[CPS]
5	Sep27,06	17:32:36	DENS(S)	1.000	[G/CC]	2000.00	[CPS]
5	Sep27,06	17:32:36	DENS(S)	1.200	[G/CC]	2391.00	[CPS]
6	Sep27,06	17:32:38	DENS(S)	2.583	[G/CC]	9150.00	[CPS]
6	Sep27,06	17:32:38	DENS(S)	2.800	[G/CC]	10000.00	[CPS]
7	Sep27,06	17:33:00	CALIPER	35.490	[INCH]	370294.00	[CPS]
7	Sep27,06	17:33:04	CURRENT	98.600	[UA]	13840.00	[CPS]
8	Sep27,06	17:33:04	CURRENT	202.300	[UA]	20120.00	[CPS]
9	April4,06	16:47:07	F	0.790	[ ]		

Company:	Geophysical Services International	Field:	Kinsella
Contractor:	Geophysical Services International	County:	Kingman
Rig Number:	Mobile 5	State:	Kansas
Date:	10/02/2006	Lat:	
Time:		Long:	
Elevation:	KB 1700 ft		
Permanent Datum:	Ground Level	Elev.:	1700 ft
Log Measured From:	KB 12 ft above Permanent Datum		
Drilling Measured From:	KB		

Geophysical Services International

GAMMA - NEUTRON
OPEN HOLE
RHTR 2006 - 23

Run Number:	One	Date:	10/02/06
Depth Driller:	1700 ft	Depth Logged:	1700 ft
Schlumberger:			
Bottom Log Interval:	1700 ft	Top Log Interval:	0 ft
Casing Driller:	8.625 @ 0 ft	Casing Logger:	8.625 @ 0 ft
Bit Size:	7.875 in	Type Fluid in Hole:	Water
Density:	N/A	Viscosity:	N/A
PH:	N/A	Fluid Loss:	N/A
Source:	N/A	Rm @ Meas. Temp:	N/A
Rm @ BHT:	N/A	Rmf @ Meas. Temp:	N/A
Rmc @ Meas. Temp:	N/A	Max Rec. Temp:	N/A
Equipment:	SGS-1700-1000	Location:	Kingman, Kansas
Recorded By:	Bob Hoffman	Witnessed By:	Kyle Hoffman

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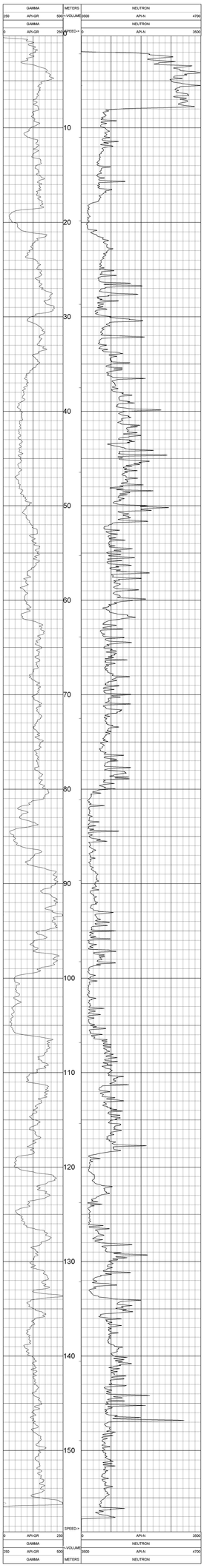
1:100 CM LOG, GAMMA-NEUTRON RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	9500	BIT SIZE :	7.62



1:100 CM LOG, GAMMA-NEUTRON RHTR 2006 - 23 10/02/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	9500	BIT SIZE :	7.62

TOOL CALIBRATION: RHTR 2006 - 23 10/02/06 19:13
TOOL: 9067A
SERIAL NUMBER: 529

	DATE	TIME	SENSOR	STANDARD		RESPONSE
1	Mar01.02	23:09:58	GAMMA	Default	[CPS]	Default [CPS]
	Mar01.02	22:09:58	GAMMA	100.000	[API-GR]	53.00 [CPS]
2	Feb02.06	16:07:12	NEUTRON	Default	[CPS]	Default [CPS]
	Feb02.06	16:07:12	NEUTRON	Default	[CPS]	Default [CPS]
3	Aug02.05	17:37:25	CUR1	4.213	[UA]	7855.00 [CPS]
	Aug02.05	17:37:25	CUR1	0.080	[UA]	80.00 [CPS]
4	Aug02.05	16:27:32	CUR2	4.177	[UA]	7910.00 [CPS]
	Aug02.05	16:27:32	CUR2	0.080	[UA]	80.00 [CPS]
5	Aug02.05	16:24:02	CUR3	4.290	[UA]	7900.00 [CPS]
	Aug02.05	16:24:02	CUR3	0.000	[UA]	140.00 [CPS]
6	Aug02.05	16:26:09	CUR4	4.275	[UA]	7860.00 [CPS]
	Aug02.05	16:26:09	CUR4	0.000	[UA]	165.00 [CPS]
7	Feb02.06	17:59:53	CALIPER	7.500	[INCH]	2208.00 [CPS]
	Feb02.06	17:59:53	CALIPER	35.480	[INCH]	2208.00 [CPS]

Century GEOMATICS Corp.
century-geo.com

Operator:	Century Geomatics Corporation
Field:	Kimberley
Well:	23
Description:	gamma caliper
Date:	10/02/06
Company:	Century Geomatics Corp.
Rig:	Kimberley
Operator:	Kimberley
Witnessed by:	Andrew Kirkham
Logged by:	Andrew Kirkham
Unit/Truck:	

GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
RHTR 2006 - 23

Andrew Kirkham
10/02/06

Operator:	Kimberley	Date:	10/02/06
Company:	Kimberley	Time:	17:24
Rig:	Kimberley	Depth:	0
Field:	Kimberley	Speed:	10
Well:	23	Tool:	1245
Description:	gamma caliper	Tool Type:	GAMMA
Witnessed by:	Andrew Kirkham	Tool Type:	CALIPER
Logged by:	Andrew Kirkham	Tool Type:	RESISTIVITY
Unit/Truck:		Tool Type:	DENSITY
		Tool Type:	SHORT SPACE
		Tool Type:	
		Tool Type:	
		Tool Type:

Century GEOPHYSICS CORP.
century-geo.com

GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY RHTR 2006 - 24

COMPANY	ROCKY MOUNTAIN ENERGY MINING INC
WELL	RHTR 2006 - 24
FIELD	ROMAN PETE
COUNTY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
COUNTRY	CANADA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
APIWELL#	NA
PERMIT	NA
PRODUCING ZONE	NA
ELEVATION KB RM	NA
ELEVATION DF RM	NA
ELEVATION GL RM	NA
DATE	10/17/06
DEPTH DRILLER	100
DEPTH LOGGER	96.06
BIT SIZE	15.24
LOG TOP	0
LOG BOTTOM	97.54
CASING DD	8.194
CASING BOTTOM	NA
CASING TYPE	NA
CASING SIZE	NA
BOREHOLE FLUID	WATER
RM TEMPERATURE	NA
RM MEASURE	NA
RECORDED BY	D. WRIGHT
WITNESSED BY	NA
REMARKS 1	*PICKS MADE IN DEGREES
REMARKS 2	

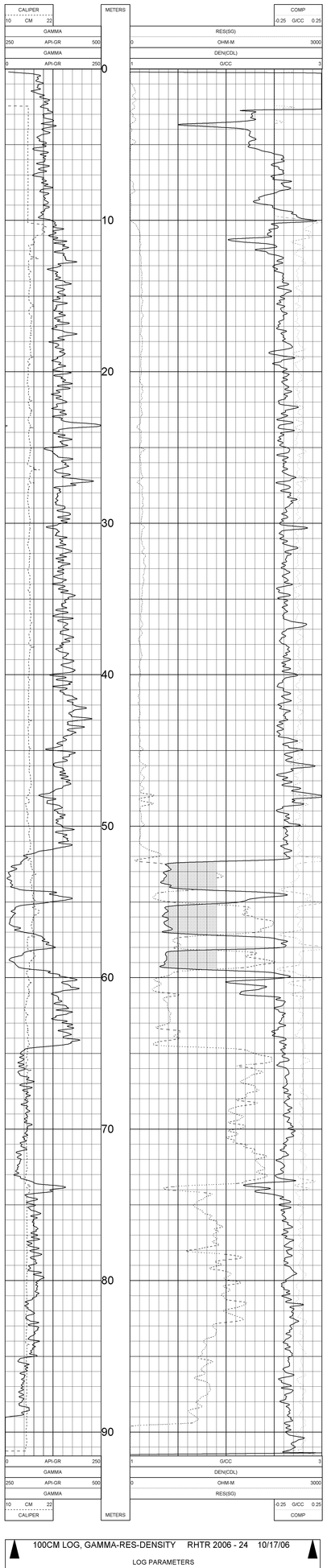
OTHER SERVICES
NEUTRON
NA

ALL SERVICES UNCHECKED SUBJECT TO STANDARDS, TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 24 10/17/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 923BC.0 10/17/2006		VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 24 10/17/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 923BC.0 10/17/2006		VERSION = 3.64EC

TOOL CALIBRATION RHTR 2006 - 24 10/17/06 14:52
TOOL 9239C TM VERSION 2015
SERIAL NUMBER 1268

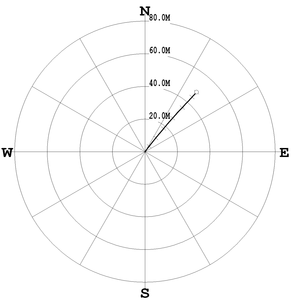
	DATE	TIME	SENSOR	STANDARD			RESPONSE	
1	Oct13,06	18:54:55	GAMMA	Default	[CPS]		Default	[CPS]
	Oct13,06	18:54:55	GAMMA	283.000	[API-GR]		288.00	[CPS]
2	Oct14,06	11:07:04	VOLTAGE	31.850	[MV]		5358.00	[CPS]
	Oct14,06	11:07:04	VOLTAGE	572.000	[MV]		76681.00	[CPS]
3	Oct13,06	18:33:01	CALIPER	20.320	[INCH]		433775.00	[CPS]
	Oct13,06	18:33:01	CALIPER	2.540	[INCH]		25725.00	[CPS]
4	Oct17,06	14:51:24	DEN(LS)	1.000	[G/CC]		13504.00	[CPS]
	Oct17,06	14:51:24	DEN(LS)	2.383	[G/CC]		1150.00	[CPS]
5	Oct17,06	15:49:06	DEN(SS)	1.000	[G/CC]		21587.00	[CPS]
	Oct17,06	14:51:31	DEN(SS)	2.383	[G/CC]		8900.00	[CPS]
6	Oct13,06	20:38:56	CALIPER(L	10.160	[INCH]		129735.00	[CPS]
	Oct13,06	20:38:56	CALIPER(L	20.400	[INCH]		304375.00	[CPS]
7	Oct14,06	11:07:25	CURRENT	99.600	[UA]		10846.00	[CPS]
	Oct14,06	11:07:25	CURRENT	291.000	[UA]		29568.00	[CPS]
8	Sep26,06	12:05:58	X	Default	[CPS]			

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RNTR 2006 - 24
DATE OF LOG: 10/17/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 74.78 M
AZIMUTH: 40.9
DISTANCE: 48.3 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



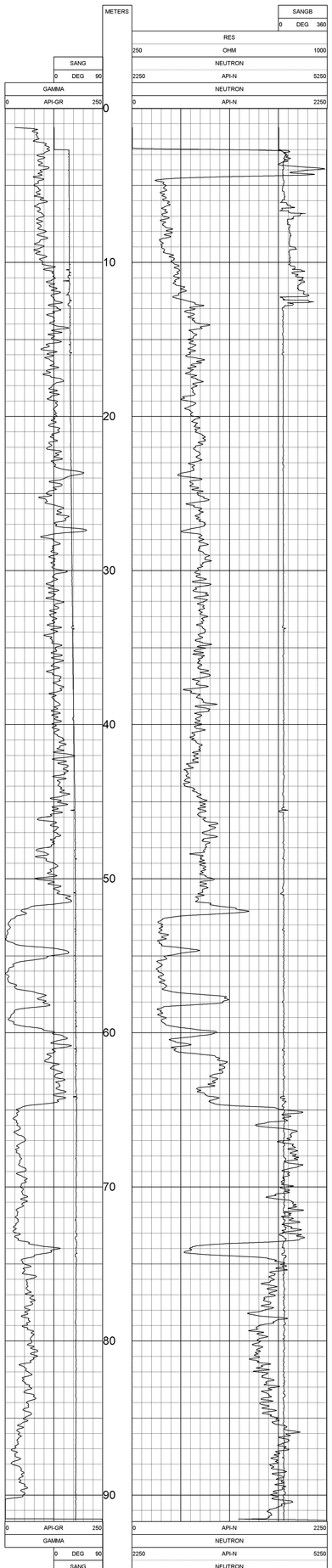
Century GEOPHYSICAL CORP.
www.cgc.ca
century-geo.com

GAMMA - NEUTRON
RHTR 2006 - 24

COMPANY	TRANSCANADA PIPELINES LIMITED
WELL	RHTR 2006 - 24
FIELD	ROSSMAN KLIPPE
COUNTY	CHETWYND
STATE	BRITISH COLUMBIA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILLING MEASURED FROM	GL
ELEVATION	GL 0
DATE	10/17/06
DEPTH DRILLER	150
DEPTH LOGGER	150
LOG TOP	1.24
LOG BOTTOM	91.66
LOG INTERVAL	90.42
CASING BOTTOM	NA
CASING TYPE	SURFACE
CASING DIAMETER	8 5/8
BIT SIZE	7 7/8
RM TEMPERATURE	NA
RM SAMPLE	NA
MUD RES	NA
MUD TYPE	NA
WITNESSED BY	NA
RECORDED BY	J. SKWARCH
PROCESSED BY	NA
REMARKS	NA

CONTRACTOR
SERVICE COMPANY
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS



100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 24 10/17/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	10000	BIT SIZE :	15.24
PRESENTATION NAME/DATE =	9055A.0 10/11/2006			VERSION =	3.64EC

100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 24 10/17/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	10000	BIT SIZE :	15.24
PRESENTATION NAME/DATE =	9055A.0 10/11/2006			VERSION =	3.64EC

TOOL CALIBRATION RHTR 2006 - 24 10/17/06 13:23
TOOL 9055A TM VERSION 3200
SERIAL NUMBER 237

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	08:41:30	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Sep27,06	08:41:30	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Feb25,99	00:19:39	POROSIT	Default	[CPS]		
3	Sep27,06	08:35:47	RES	0.000	[OHM]	9615.00	[CPS]
	Sep27,06	08:35:47	RES	100.000	[OHM]	7996.00	[CPS]
4	Sep27,06	08:36:00	SP	0.000	[MV]	1.00	[CPS]
	Sep27,06	08:36:00	SP	400.000	[MV]	2935.00	[CPS]
5	Oct10,06	12:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
	Oct10,06	12:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
6	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]
	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]

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GAMMA - DENSITY (THROUGH RODS) RHTR 2006 - 26

COMPANY	NORTHERN ENERGY MINING INC.
WELL	RHTR 2006 - 26
FIELD	RHTR 2006 - 26
LOCATION	TUMBLER RIDGE
SECTION	
COUNTY	BRITISH COLUMBIA
STATE	
COUNTRY	
API NO.	N/A
RANGE	N/A
TOWNSHIP	N/A
SECTION	N/A
LATITUDE	
LONGITUDE	
OTHER SERVICES:	
DIP	
DENSITY	
NEUTRON	
GAMMA	

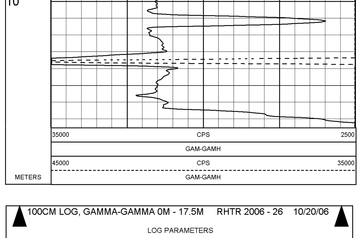
PERMANENT DATUM	N/A
ELEVATION OF PERM. DATUM	N/A
LOG MEASURED FROM	GROUND LEVEL
ELEVATION OF GL	N/A
DRILLING MEASURED FROM	GROUND LEVEL
ELEVATION OF KB	N/A
DATE	10/20/06
RUN NUMBER	ONE
BIT SIZE	7.62
BIT TOP	0.27
LOG TOP	0.27
LOG BOTTOM	90.85
CASING DD	
CASING BOTTOM	6
CASING WT.	SURFACE
BOREHOLE FLUID	
RIG NO.	
MAX TEMPERATURE	
MUD WEIGHT	
VISCOSITY	
PH	
FLUID LOSS	
RM @ MEASURED TEMP.	
RMF @ MEASURED TEMP.	
RMC @ MEASURED TEMP.	
SOURCE OF RMF & RMC	
RM @ BHT	
TIME CIRC. STOPPED	
TIME LOGGER ON BOTTOM	
MAX. REC. TEMP.	
EQUIPMENT NO.	
LOCATION	
RECORDED BY	
WITNESSED BY	
REMARKS 1	
REMARKS 2	1 RODS

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-GAMMA 0M - 17.5M RHTR 2006 - 26 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9066A-1.0 10/23/2006		VERSION = 3.64EC



100CM LOG, GAMMA-GAMMA 0M - 17.5M RHTR 2006 - 26 10/20/06

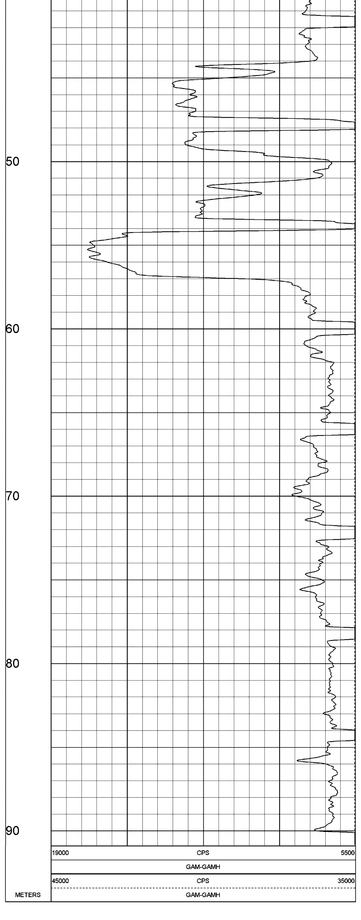
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9066A-1.0 10/23/2006		VERSION = 3.64EC

100CM LOG, GAMMA-GAMMA 17.5M - 91M RHTR 2006 - 26 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9066A-1.0 10/23/2006		VERSION = 3.64EC



100CM LOG, GAMMA-GAMMA 17.5M - 91M RHTR 2006 - 26 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9066A-1.0 10/23/2006		VERSION = 3.64EC

TOOL CALIBRATION RHTR 2006 - 26 R 10/20/06 1948
TOOL TM VERSION 0
SERIAL NUMBER

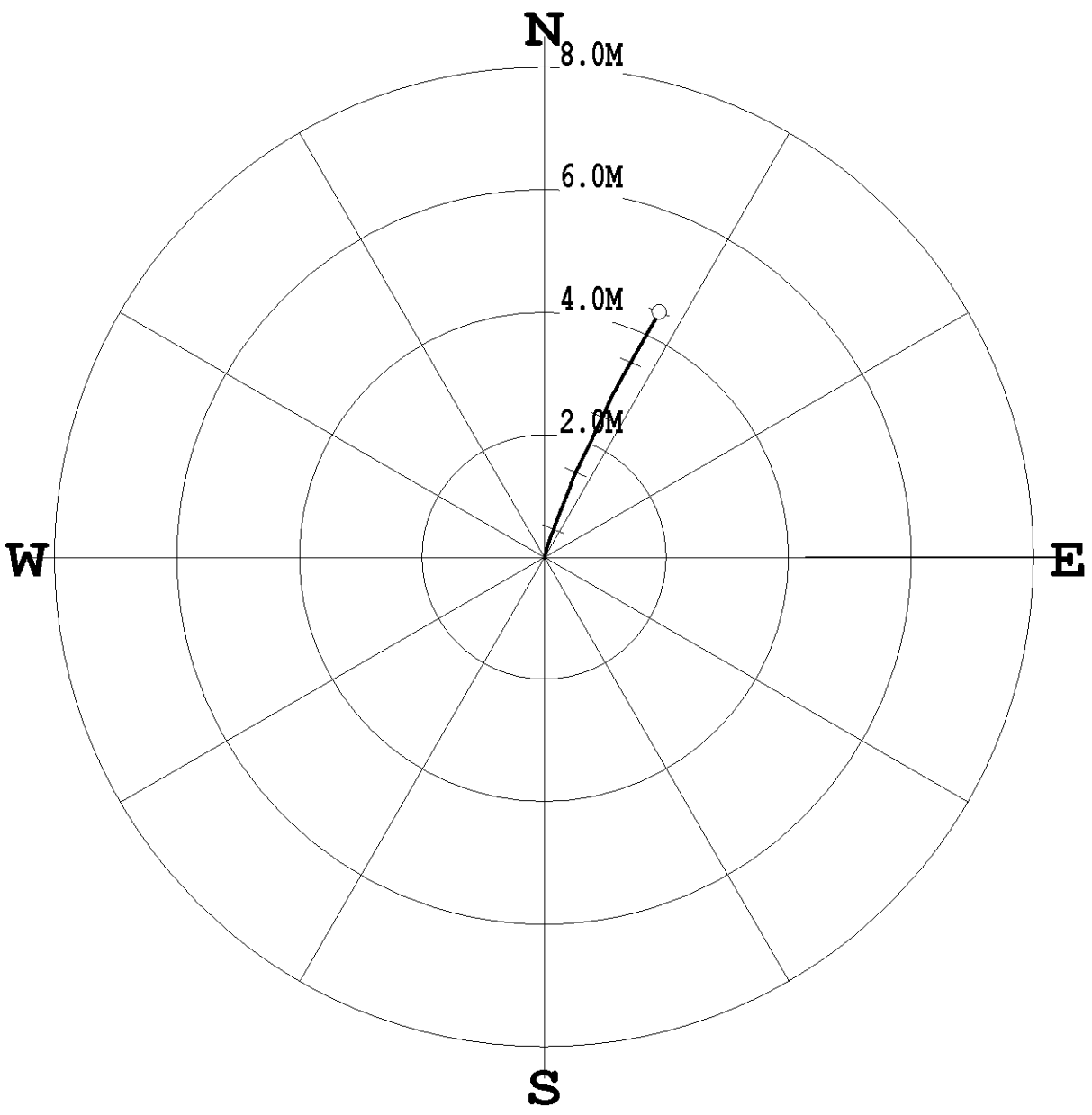
	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Dec31,99	17:00:00	Default	[CPS]	

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 28
DATE OF LOG: 11/02/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 17.90 M
AZIMUTH: 25.1
DISTANCE: 4.4 M
+ = 2 M INCR
○ = BOTTOM OF HOLE



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GAMMA - NEUTRON
RHTR 2006 - 28

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:RHTR 2006 - 28
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:11/02/06
DEPTH DRILLER	:146
BIT SIZE	:11.43
LOG TOP	:1.21
LOG BOTTOM	:18.94
CASING OD	:16.51
CASING BOTTOM	:6
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:1.0
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:HOLE ANGLE: 70 DEGREES AZIMUTH: 035 DEGREES
REMARKS 2	:

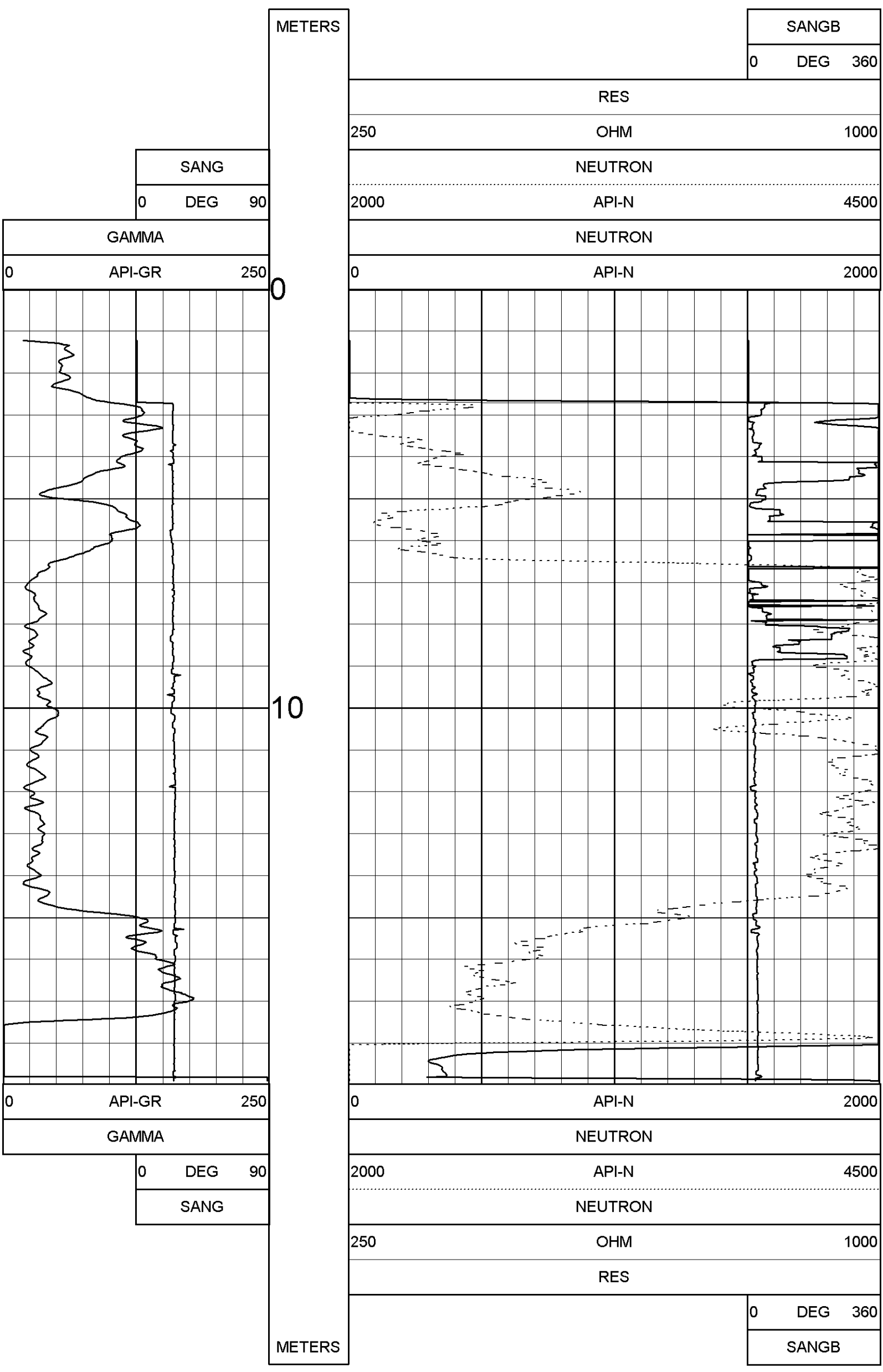
OTHER SERVICES:
DENSITY
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 28 11/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9055A.0 10/29/2006 VERSION = 3.64EC



100CM LOG, GAMMA-RES-NEUTRON RHTR 2006 - 28 11/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9055A.0 10/29/2006 VERSION = 3.64EC

TOOL CALIBRATION RHTR 2006 - 28 11/02/06 11:56
TOOL 9055A TM VERSION 3200
SERIAL NUMBER 237

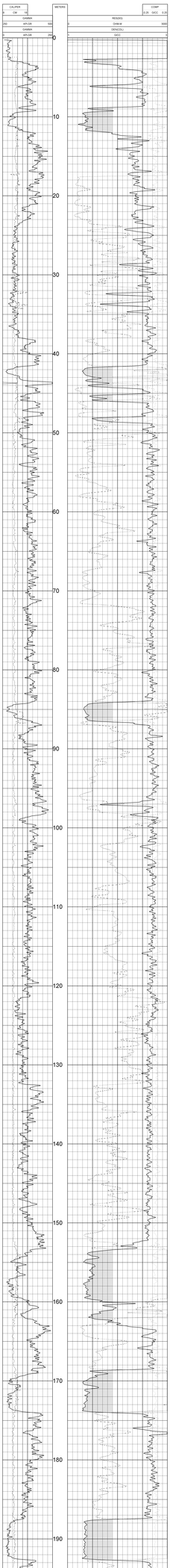
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	08:41:30	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Sep27,06	08:41:30	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Feb25,99	00:19:39	POROSIT	Default	[CPS]		
3	Sep27,06	08:35:47	RES	0.000	[OHM]	9615.00	[CPS]
	Sep27,06	08:35:47	RES	100.000	[OHM]	7996.00	[CPS]
4	Sep27,06	08:36:00	SP	0.000	[MV]	1.00	[CPS]
	Sep27,06	08:36:00	SP	400.000	[MV]	2935.00	[CPS]
5	Oct10,06	12:37:04	NEUTROI	Default	[CPS]	Default	[CPS]
	Oct10,06	12:37:04	NEUTROI	Default	[CPS]	Default	[CPS]
6	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]
	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]

Company	Geotech Geophysics
Well	GAMMA - CALIPER - RESISTITY - COMPENSTED DENSITY DEEPENED
Field	
County	
State	
Country	
Other Services	
Permanent Datum	
Log Measured From	
Drilling Measured From	
Elevation	
Date	11/26/06
Run Number	3
Depth Driller	
Depth Logger	
Bottom Log Interval	
Top Log Interval	
Casing Driller	
Casing Logger	
Bit Size	
Type Fluid in Hole	
Density	
Viscosity	
Fluid Loss	
Source of Sample	
Rm	
Rmf	
Rmc	
Rm @ Meas. Temp.	
Rmf @ Meas. Temp.	
Rmc @ Meas. Temp.	
Source Rmf / Rmc	
Rm @ BHT	
Time Since Circulation	
Time Since Stop	
Max Recorded Temp.	
Equipment Number	
Location	
Recorded By	
Witnessed By	

geotech geophysics

100CM LOG, GAMMA-RES-DENSITY RHTR 2005 - 3 11/26/06
DEEPENED
LOG PARAMETERS

MATRIX DENSITY - 2.65 NEUTRON MATRIX - SANDSTONE MATRIX DELTA T - 177
MAGNETIC DECL. - 21 ELECT. CUTOFF - 10000 BIT SIZE - 11.45
PRESENTATION NAMECRATE = ECSC 2 10/25/2006 VERSION = 3.0A6C



100CM LOG, GAMMA-RES-DENSITY RHTR 2005 - 3 11/26/06
DEEPENED
LOG PARAMETERS

MATRIX DENSITY - 2.65 NEUTRON MATRIX - SANDSTONE MATRIX DELTA T - 177
MAGNETIC DECL. - 21 ELECT. CUTOFF - 10000 BIT SIZE - 11.45
PRESENTATION NAMECRATE = ECSC 2 10/25/2006 VERSION = 3.0A6C

TOOL CALIBRATION: RHTR 2005 - 3 11/26/06 18:07
TOOL: ECSC TM VERSION 2010
CALIBRATOR: ECSC 2

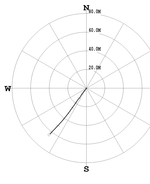
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct10.06	18:54:55	GAMMA	Default	[CPS]	Default	[CPS]
2	Oct10.06	18:57:06	VOLTAGE	10.000	[V]	10.000	[V]
3	Oct10.06	19:07:06	VOLTAGE	20.000	[V]	20.000	[V]
4	Oct10.06	17:07:54	VOLTAGE	972.000	[MV]	75991.00	[CPS]
5	Oct10.06	19:10:54	CALIPER	2.000	[IN]	2.000	[IN]
6	Oct10.06	19:16:01	CALIPER	6.000	[IN]	6.000	[IN]
7	Oct10.06	19:18:01	CALIPER	10.000	[IN]	10.000	[IN]
8	Oct20.06	15:56:51	DENS(G)	2.380	[GCC]	1100.00	[CPS]
9	Oct20.06	15:58:51	DENS(G)	2.680	[GCC]	1400.00	[CPS]
10	Oct20.06	16:00:51	DENS(G)	2.330	[GCC]	1050.00	[CPS]
11	Oct10.06	20:38:08	CALIPER	10.000	[INCH]	10230.00	[CPS]
12	Oct10.06	20:38:08	CALIPER	11.450	[INCH]	12000.00	[CPS]
13	Oct10.06	20:38:08	CALIPER	30.000	[INCH]	31500.00	[CPS]
14	Nov20.06	12:05:06	X	Default	[CPS]	2999.00	[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC.
LOCATION: BONNER MTM
HOLE ID: BOTH 2003 - 3
DATE OF LOG: 10/26/04
COURSE: NSTAA 237

MAG DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 106.11 M
AZIMUTH: 218.4
DISTANCE: 64.1 M
+ = 20 M INCH
* = BOTTOM OF HOLE

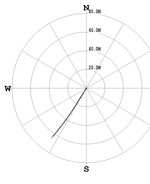


PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC.
LOCATION: BONNER MTM
HOLE ID: BOTH 2003 - 3
DATE OF LOG: 11/26/04
COURSE: 041A 300

MAG DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 165.44 M
AZIMUTH: 215.1
DISTANCE: 64.4 M
+ = 20 M INCH
\| = BOTTOM OF HOLE



Century Geophysics Corporation

DIPMETER
RHTR 2005 - 3
DEEPENED

Company	Chevron USA Inc.
Well	Rhatrh 2005-3
Field	Rhatrh
County	Uinta
State	Utah
Location	Sec 32 T1N R3W
Elevation	KB 6,000 ft
Permanent Datum	Ground Level
Log Measured From	KB 12 ft above Permanent Datum
Drilling Measured From	KB
Date	11/26/06
Run Number	3
Depth Driller	10,000 ft
Depth Logger	9,996 ft
Bottom Log Interval	9,996 ft
Top Log Interval	9,000 ft
Casing Driller	9 5/8 @ 3,000 ft
Casing Logger	9 5/8 @ 3,000 ft
Bit Size	11.43 in
Type Fluid in Hole	Water
Density	8.4 lb/gal
Viscosity	26 s
Fluid Loss	10 cc
Source of Sample	Pit
Rm @ Meas. Temp.	0.0 @ 0 F
Rmf @ Meas. Temp.	0.0 @ 0 F
Rmc @ Meas. Temp.	0.0 @ 0 F
Source Rmf / Rmc	Calculated
Rm @ BHT	0.0 @ 0 F
Time Since Circulation	0 hrs
Max. Recorded Temp.	0 F
Equipment / Location	3 / Vernal
Recorded By	Jones / Bowden
Witnessed By	Mr. Bill Rife

Remarks: Logged with 1 Arm Caliper. Tool Failure at 9,996 ft. Tool Failure at 9,000 ft. Tool Failure at 8,000 ft. Tool Failure at 7,000 ft. Tool Failure at 6,000 ft. Tool Failure at 5,000 ft. Tool Failure at 4,000 ft. Tool Failure at 3,000 ft. Tool Failure at 2,000 ft. Tool Failure at 1,000 ft. Tool Failure at 0 ft. Tool Failure at 0 ft. Tool Failure at 0

Company:	Century Drilling
Well:	RHTR 2005 - 3
Field:	DEEPENED
County:	Sweetwater
State:	Wyoming
Other Services:	Gamma Ray - Neutron
Date:	10/26/2006
Time:	16:11:00
Depth Reference:	Ground Level
Elevation:	0 ft
Permanent Datum:	Ground Level
Log Measured From:	Ground Level
Drilling Measured From:	Ground Level
Elevation:	0 ft
Gamma Ray	
Logging Date:	10/26/2006
Run Number:	1
Depth Driller:	200 ft
Depth Logged:	200 ft
Top Log Interval:	0 ft
Bottom Log Interval:	200 ft
Casing Driller:	0 ft @ 0 ft
Casing Logger:	0 ft
Bit Size:	0 in
Type Fluid in the Hole:	Air
Density:	0 lb/gal
Viscosity:	0 s
Fluid Level:	0 ft
Max Recorded Temp:	0 deg F
Estimated Cement Top:	0 ft
Time Circulation Ended:	0 hr
Time Logger At Bottom:	0 hr
Equipment:	10000CS-DT
Location:	Rock Springs, WY
Recorded By:	D. Schwartz
Witnessed By:	Mr. Jones

GAMMA - NEUTRON
RHTR 2005 - 3
DEEPENED

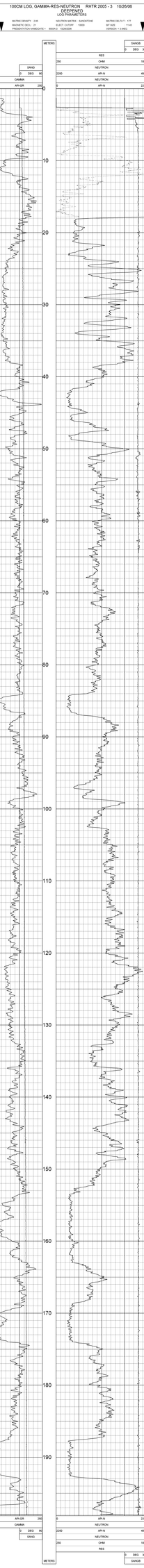
Gamma Ray - Neutron

Schlumberger

Schlumberger reserves the right to make changes in specifications and prices without notice or obligation.

100CM LOG, GAMMA-RES-NEUTRON RHTR 2005 - 3 10/26/06
DEEPENED
LOG PARAMETERS

MATRIX DENSITY 2.65 NEUTRON MATRIX SANDSTONE MATRIX DELTA-T 173
MAGNETIC DECL. 21 ELECT. CUTOFF 10000 BIT SIZE 11.45
PRESENTATION NAMECAT4 = BRSA-3 10/26/2006 VERSION = 3.5462



100CM LOG, GAMMA-RES-NEUTRON RHTR 2005 - 3 10/26/06
DEEPENED
LOG PARAMETERS

MATRIX DENSITY 2.65 NEUTRON MATRIX SANDSTONE MATRIX DELTA-T 173
MAGNETIC DECL. 21 ELECT. CUTOFF 10000 BIT SIZE 11.45
PRESENTATION NAMECAT4 = BRSA-3 10/26/2006 VERSION = 3.5462

TOOL CALIBRATION: RHTR 2005 - 3 10/26/06 16:11
TOOL TYPE: 10000CS-DT VERSION 2006
SERIAL NUMBER: 2215

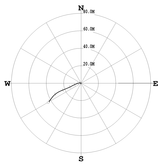
	DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Sep27,06	08:41:35	GAMMA 0.000	API-GR [ ]	2.00	[CPS]
2	Sep27,06	08:44:20	GAMMA 20.000	API-GR [ ]	324.00	[CPS]
3	Sep27,06	08:51:37	RES 0.000	OHM [ ]		
4	Sep27,06	08:54:47	RES 1.000	OHM [ ]	3609.00	[CPS]
5	Sep27,06	08:57:00	RES 10.000	OHM [ ]	7608.00	[CPS]
6	Sep27,06	08:58:00	SP 0.000	MV	1.00	[CPS]
7	Sep27,06	08:59:00	SP 100.000	MV	2500.00	[CPS]
8	Oct16,06	12:27:04	NEUTRON Default	[CPS]	Default	
9	Oct16,06	12:27:04	NEUTRON Default	[CPS]	Default	
10	Feb28,06	06:16:39	TEMP Default	[CPS]	Default	
11	Feb28,06	06:16:39	TEMP Default	[CPS]	Default	

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: MDMC
LOCATION: BONAR MOUNTAIN
WELL ID: STRATUS-2
DATE OF LOG: 08/08/96
GRAPHIC NUMBER: 39

MAG DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 358.44 M
AZIMUTH: 18.1
DISPLACEMENT: 0 M
0.00 N 0.00 E
+ = BOTTOM OF HOLE



```
* * * * * * COMPUTED * VERTICAL DEVIATION * * * * * *

 ********************************************************************
 *                                                                  *
 *  FIELD NAME : Ketapang                   BLOCK NO Line : KETAPANG2*
 *  WELL NAME  : KETAPANG-2                 TYPE OF SURVEY : DIRECTIONAL*
 *  DATE FROM  :                            TO DATE        :          *
 *  DATE       : 21-JAN                     PAGE NO        : 33       *
 *  DATA FORMAT: KETAPANG_2RUN4RS_TOTAL_FT_DA_PAS_NP_DRS.log
 *                                                                  *
 ********************************************************************

DEPTH DEPTH DEPTH DEPTH DEG. EAST DEG. DISTANCE AZIMUTH MODU DRAWN
 ft    ft    ft    ft   ft    ft    ft    ft    ft    ft    ft    ft
  0.0   0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
  5.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
  6.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 17.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 27.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 37.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 47.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 57.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 67.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 77.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 87.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
 97.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
107.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
117.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
127.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
137.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
147.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
157.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
167.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
177.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
187.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
197.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
207.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
217.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
227.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
237.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
247.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
257.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
267.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
277.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
287.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
297.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
307.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
317.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
327.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
337.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
347.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
357.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
367.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
377.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
387.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
397.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
407.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
417.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
427.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
437.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
447.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
457.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
467.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
477.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
487.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
497.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
507.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
517.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
527.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
537.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
547.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
557.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
567.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
577.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
587.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
597.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
607.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
617.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
627.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
637.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
647.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
657.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
667.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
677.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
687.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
697.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
707.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
717.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
727.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
737.0   0.08  0.00  0.00  0.00  0.00  0.00  0.00  0.0  0.00  0.0  0.00
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* * * * * * COMPUTED * VERTICAL DEVIATION * * * * * *

                                                                    PAGE 1
 ------------------------------------------------------------------------
 SLANT HOLE  : 0 (VERTICAL                    HOLE OF 1mm : 0DEGREES)
 DATE        : 2013/10/11                     TRAVEL DIST : 0.000 METRES
 DATA FROM   :   0.00-2600.                   TRAVEL DATUM : DATUM     :    33
 ------------------------------------------------------------------------
 DATA: PUNGLOAD_2013-09-21_1140_NOVAS_V5_C_34_165.RT_2013.log

CHAINS DEPTH TRUE DEPTH SCATER DEV.  BARTT DEV.  DISTANCE ELEVATION  HEAD  DRAGS
 0.00   0.00    0.00    +0.00    +0.00    +0.00    0.0    200.0    0.0   0.00
 0.75   0.75    0.75    +0.00    +0.00    +0.00    0.0    200.0    0.0   0.00
 1.50   1.50    1.50    +0.00    +0.00    +0.00    0.0    200.0    0.0   0.00
 2.25   2.25    2.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 3.00   3.00    3.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 3.75   3.75    3.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 4.50   4.50    4.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 5.25   5.25    5.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 6.00   6.00    6.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 6.75   6.75    6.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 7.50   7.50    7.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 8.25   8.25    8.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 9.00   9.00    9.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
 9.75   9.75    9.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
10.50  10.50   10.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
11.25  11.25   11.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
12.00  12.00   12.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
12.75  12.75   12.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
13.50  13.50   13.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
14.25  14.25   14.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
15.00  15.00   15.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
15.75  15.75   15.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
16.50  16.50   16.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
17.25  17.25   17.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
18.00  18.00   18.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
18.75  18.75   18.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
19.50  19.50   19.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
20.25  20.25   20.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
21.00  21.00   21.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
21.75  21.75   21.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
22.50  22.50   22.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
23.25  23.25   23.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
24.00  24.00   24.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
24.75  24.75   24.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
25.50  25.50   25.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
26.25  26.25   26.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
27.00  27.00   27.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
27.75  27.75   27.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
28.50  28.50   28.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
29.25  29.25   29.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
30.00  30.00   30.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
30.75  30.75   30.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
31.50  31.50   31.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
32.25  32.25   32.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
33.00  33.00   33.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
33.75  33.75   33.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
34.50  34.50   34.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
35.25  35.25   35.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
36.00  36.00   36.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
36.75  36.75   36.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
37.50  37.50   37.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
38.25  38.25   38.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
39.00  39.00   39.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
39.75  39.75   39.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
40.50  40.50   40.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
41.25  41.25   41.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
42.00  42.00   42.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
42.75  42.75   42.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
43.50  43.50   43.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
44.25  44.25   44.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
45.00  45.00   45.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
45.75  45.75   45.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
46.50  46.50   46.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
47.25  47.25   47.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
48.00  48.00   48.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
48.75  48.75   48.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
49.50  49.50   49.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
50.25  50.25   50.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
51.00  51.00   51.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
51.75  51.75   51.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
52.50  52.50   52.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
53.25  53.25   53.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
54.00  54.00   54.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
54.75  54.75   54.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
55.50  55.50   55.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
56.25  56.25   56.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
57.00  57.00   57.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
57.75  57.75   57.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
58.50  58.50   58.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
59.25  59.25   59.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
60.00  60.00   60.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
60.75  60.75   60.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
61.50  61.50   61.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
62.25  62.25   62.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
63.00  63.00   63.00    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
63.75  63.75   63.75    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
64.50  64.50   64.50    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
65.25  65.25   65.25    +0.00    +0.18    +0.18    0.2    200.0    0.0   0.00
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* * * * * * COMPUTED * VERTICAL DEVIATION * * * * * *

                                                                    PAGE 1
 FIELD NAME : Prudhoe Bay                    WELL NAME : MPS-01
 BOREHOLE : MPS-01                           SURVEY NAME : MPS-01
 DATE RUN : 1                                PAGE NUMBER : 33
 DATE PROCESSED : 21-DEC-2001                TAPE NAME : 3
 DISK DATA:DSKD:[2401PB01.IVAN]MPS_01_3_MD_MD_MT.DAT
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CHOKE DATE	TUBE DEPTH	SCANS	SPEED	BASE DEV.	DISPERSE	ELEVATION	MAGS	GRAVS
270.1	2016.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2016.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2016.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2016.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2017.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2017.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2017.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2017.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2018.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2018.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2018.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2018.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2019.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2019.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2019.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2019.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2020.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2020.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2020.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2020.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2021.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2021.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2021.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2021.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2022.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2022.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2022.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2022.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2023.00	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2023.25	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2023.50	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2023.75	48.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2024.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2024.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2024.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2024.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2025.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2025.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2025.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2025.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2026.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2026.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2026.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2026.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2027.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2027.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2027.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2027.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2028.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2028.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2028.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2028.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2029.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2029.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2029.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2029.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2030.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2030.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2030.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2030.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2031.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2031.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2031.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2031.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2032.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2032.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2032.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2032.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2033.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2033.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2033.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2033.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2034.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2034.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2034.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2034.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2035.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2035.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2035.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2035.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2036.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2036.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2036.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2036.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2037.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2037.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2037.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2037.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2038.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2038.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2038.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2038.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2039.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2039.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2039.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2039.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2040.00	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2040.25	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2040.50	47.00	42.00	0.0	0.0	0.0	0.0	0.0
270.1	2040.75	47.00	42.00	0.0	0.0	0.0	0.0	0.0

```
> > > > > > COMPUTED > VERTICAL DEVIATION > > > > > >

 ------------------------------------------------------------------------
 CLIENT COMPANY : ENERGOTEAM                  RIGHT OF WAY : ENERGOTEAM
 WELL NAME      : ENERGOTEAM                  DATE OF RUN  : 08/08/2003
 DATA FROM      :  21.0000                    PROBE NO     : 9070A  *    33
                                              PROBE TYPE   : 9070A
 DATA FILE      : ENERGOTEAM_20030808_1040_9070A_33_DA_RAW_MF_DEV.log
 ------------------------------------------------------------------------

 RANGE DEPTH TRUE DEPTH NORTH/SOUTH  EAST/WEST  DISPLACE  ALTERTON  DOGL  DOGRE
   0.0    0.0    0.0      0.00        0.00       0.0      0.0     0.0    0.0
  27.5   27.5   27.5     -0.00       -0.00       0.0      0.0     0.0    0.0
  57.5   57.5   57.5     -0.00       -0.00       0.0      0.0     0.0    0.0
  87.5   87.5   87.5     -0.00       -0.00       0.0      0.0     0.0    0.0
 117.5  117.5  117.5     -0.00       -0.00       0.0      0.0     0.0    0.0
```

Schlumberger

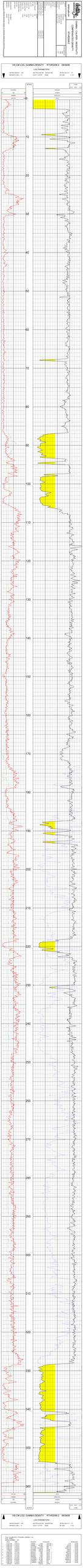
Company	ENERGY XXI (GULF COAST), INC.
Well	CHAPPELLET ET AL GAS UNIT 1
Field	WILDCAT
County	CALHOUN
State	TEXAS
Other Services	DSN/SDL/DLL/MSFL/GR
Date	08-Sep-2006
Location	Other Services: DSN/SDL/DLL/MSFL/GR
Elevation	KB: 0 ft DF: 0 ft GL: 0 ft

100 CM LOG: GAMMA-DENSITY RT=HCS:0ft-J 08/09/06

LOG PARAMETERS

MATRIX DENSITY: 2.65	MATRIX PHOTO DENSITY:	MATRIX DELTA-T: 55.5	
MUD DENSITY: 10.0	FLUID DENSITY: 1.000	MUD DELTA-T: 189	
FLUID DELTA-T: 189			

CALIBER		GAMMA RAY	
6 IN	16 IN	0 API	150 API
DENSITY			
1.95 G/CM3	2.95 G/CM3		
DELTA-T			
189 US/F	55.5 US/F		



100 CM LOG: GAMMA-DENSITY RT=HCS:0ft-J 08/09/06

LOG PARAMETERS

MATRIX DENSITY: 2.65	MATRIX PHOTO DENSITY:	MATRIX DELTA-T: 55.5	
MUD DENSITY: 10.0	FLUID DENSITY: 1.000	MUD DELTA-T: 189	
FLUID DELTA-T: 189			

CALIBER		GAMMA RAY	
6 IN	16 IN	0 API	150 API
DENSITY			
1.95 G/CM3	2.95 G/CM3		
DELTA-T			
189 US/F	55.5 US/F		

100 CM LOG: GAMMA-DENSITY RT=HCS:0ft-J 08/09/06

LOG PARAMETERS

MATRIX DENSITY: 2.65	MATRIX PHOTO DENSITY:	MATRIX DELTA-T: 55.5	
MUD DENSITY: 10.0	FLUID DENSITY: 1.000	MUD DELTA-T: 189	
FLUID DELTA-T: 189			

CALIBER		GAMMA RAY	
6 IN	16 IN	0 API	150 API
DENSITY			
1.95 G/CM3	2.95 G/CM3		
DELTA-T			
189 US/F	55.5 US/F		

100 CM LOG: GAMMA-DENSITY RT=HCS:0ft-J 08/09/06

LOG PARAMETERS

MATRIX DENSITY: 2.65	MATRIX PHOTO DENSITY:	MATRIX DELTA-T: 55.5	
MUD DENSITY: 10.0	FLUID DENSITY: 1.000	MUD DELTA-T: 189	
FLUID DELTA-T: 189			

CALIBER		GAMMA RAY	
6 IN	16 IN	0 API	150 API
DENSITY			
1.95 G/CM3	2.95 G/CM3		
DELTA-T			
189 US/F	55.5 US/F		

TOP: 10 BOTTOM: 370 DEPTH UNIT: FT

10	0.00	0.00	0.00
20	0.00	0.00	0.00
30	0.00	0.00	0.00
40	0.00	0.00	0.00
50	0.00	0.00	0.00
60	0.00	0.00	0.00
70	0.00	0.00	0.00
80	0.00	0.00	0.00
90	0.00	0.00	0.00
100	0.00	0.00	0.00
110	0.00	0.00	0.00
120	0.00	0.00	0.00
130	0.00	0.00	0.00
140	0.00	0.00	0.00
150	0.00	0.00	0.00
160	0.00	0.00	0.00
170	0.00	0.00	0.00
180	0.00	0.00	0.00
190	0.00	0.00	0.00
200	0.00	0.00	0.00
210	0.00	0.00	0.00
220	0.00	0.00	0.00
230	0.00	0.00	0.00
240	0.00	0.00	0.00
250	0.00	0.00	0.00
260	0.00	0.00	0.00
270	0.00	0.00	0.00
280	0.00	0.00	0.00
290	0.00	0.00	0.00
300	0.00	0.00	0.00
310	0.00	0.00	0.00
320	0.00	0.00	0.00
330	0.00	0.00	0.00
340	0.00	0.00	0.00
350	0.00	0.00	0.00
360	0.00	0.00	0.00

Company	Petrobras
Well	1-RTM-2036-2
Field	Rio Tarabuna
County	
State	
Country	Brazil
Date	09-Nov-06
Time	00:00
Depth	0 m
Operator	
Rig	
Elevation	
Bit Size	8.5 in
Mud Type	
Mud Weight	
Max Temp	
Max Deg	
Max Rec	
Max Dev	
Max Dog	
Max Tension	
Max Speed	
Max Pressure	
Max Flow	
Max Volume	
Max Time	
Max Depth	
Max Rate	
Max Load	
Max Torque	
Max Power	
Max Energy	
Max Force	
Max Stress	
Max Strain	
Max Vibration	
Max Noise	
Max Temperature	
Max Humidity

Schlumberger

SCHLUMBERGER

CDN - PHOTOPEL - VARIAN

ST. CHARLES

ST. CHARLES

**ST. CHARLES

Schlumberger

WELL: CHEVRON ETAL ROSEBUD
COUNTY: Williams County
STATE: North Dakota

Company:	CHEVRON ETAL
Well:	ROSEBUD
Field:	Wildcat
County:	Williams County
State:	North Dakota
Location:	
Elevation:	
Date:	09-Nov-2006
Time:	12:00
Depth Reference:	KB
Log Measured From:	KB
Permanent Datum:	MSL
Elevation:	0 ft
Log Measured From:	KB
Drilling Measured From:	KB
Elevation:	0 ft
Run Number:	1
Depth Driller:	0 ft
Depth Logger:	0 ft
Bottom Log Interval:	0 ft
Top Log Interval:	0 ft
Casing Driller Size:	0 in @ 0 ft
Casing Logger Size:	0 in @ 0 ft
Bit Size:	0 in
Type Fluid in Hole:	
Density:	0 lb/gal
Viscosity:	0 s
Fluid Loss:	0 cc
Source of Sample:	
Rm:	0 @ 0 °F
Rmf:	0 @ 0 °F
Rmc:	0 @ 0 °F
Rm at BHT:	0 @ 0 °F
Max Recorded Temp:	0 °F
Equipment Number:	
Location:	
Recorded By:	
Witnessed By:	

Schlumberger

1/8 CM LOG, SS DENSITY - RT=R2X06.2 - 09/09/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	MATRIX DELTA-T :	47.5
MATRIX PE :	5.8	MATRIX :	LIME
FLUID DENSITY :	1.000		
FLUID DELTA-T :	189.0		

CALIPER		GR		DENSITY		PHIND
6	16 in	0	150 API	2.0	3 g/cc	0.45
						-0.15

Schlumberger

1/8 CM LOG, SS DENSITY - RT=R2X06.2 - 09/09/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	MATRIX DELTA-T :	47.5
MATRIX PE :	5.8	MATRIX :	LIME
FLUID DENSITY :	1.000		
FLUID DELTA-T :	189.0		

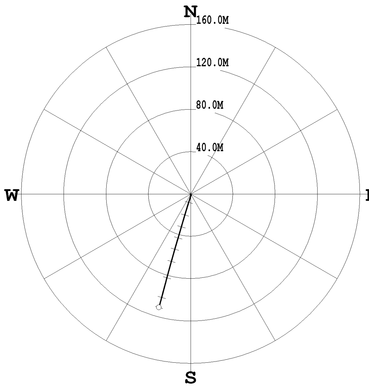
CALIPER		GR		DENSITY		PHIND
6	16 in	0	150 API	2.0	3 g/cc	0.45
						-0.15

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RHTR 2006 - 5
DATE OF LOG: 09/27/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 20 M/CM
TRUE DEPTH: 169.28 M
AZIMUTH: 195.7
DISTANCE: 111.1 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



Company:	Centaur Resources Ltd.
Well:	Gamma Ridge 1
Field:	Gamma Ridge
County/Parish:	Sandoval
State:	New Mexico
Country:	USA
API Number:	30-043-20966
Surface Location:	1980 FSL 1980 FEL
Section:	36
Township:	19 N
Range:	1 W
Elevation:	KB: 7,140 ft
Date:	09/27/2006
Time:	12:00
Log Interval:	1:100
Depth Reference:	KB
Log Type:	Gamma Ray - Neutron - Density
Logging Company:	Centaur Resources Ltd.
Logging Equipment:	Mt. Sopris Model 2000
Logging Engineer:	Jim Ryan
Witnessed by:	Jim Ryan
Comments:	Gamma Ray - Neutron - Density

Centaur

GAMMA - NEUTRON - DENSITY
CORRECTED - RESISTIVITY
RHTR 2006 - 5

Centaur Resources Ltd.

Gamma Ridge 1

Sandoval

New Mexico

USA

30-043-20966

Date: 09/27/06

Time: 12:00

Log Interval: 1:100

Depth Reference: KB

Log Type: Gamma Ray - Neutron - Density

Logging Company: Centaur Resources Ltd.

Logging Equipment: Mt. Sopris Model 2000

Logging Engineer: Jim Ryan

Witnessed by: Jim Ryan

Comments: Gamma Ray - Neutron - Density

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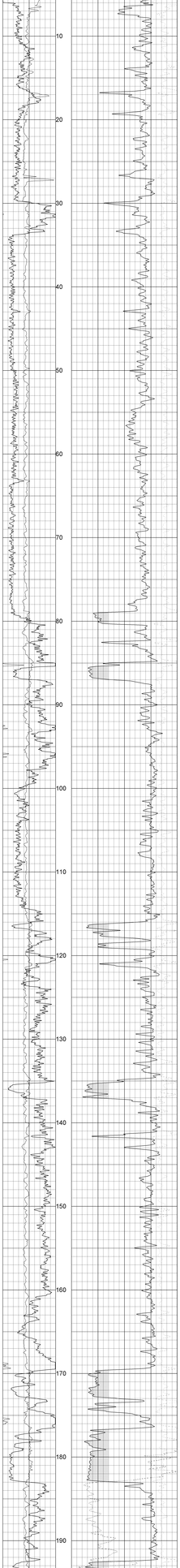
1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 5 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT CUTOFF : 10000 BIT SIZE : 7.62
PRESENTATION NAMEDATE : KOM.C SW1500M VERSION : 3.54MB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 5 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT CUTOFF : 10000 BIT SIZE : 7.62
PRESENTATION NAMEDATE : KOM.C SW1500M VERSION : 3.54MB

TOOL CALIBRATION: RHTR 2006 - 5 ENCTOR 11.45
TOOL TYPE: DENSITY-NEUTRON 2574
SERIAL NUMBER: 1.245

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep27-06	08:50:00	0.000	API GR	22.00 [CPS]
2	Sep27-06	08:50:01	GAMMA 20.000	API GR	100.00 [CPS]
3	Sep27-06	08:50:02	GAMMA 40.000	API GR	200.00 [CPS]
4	Sep27-06	08:50:05	STA.RES 573.000	RH	7890.00 [CPS]
5	Sep27-06	08:50:06	CALIPER 0.000	INCH	0.00 [CPS]
6	Sep27-06	08:50:07	CALIPER 10.000	INCH	2000.00 [CPS]
7	Sep27-06	08:50:08	DENS.(L) 0.000	GCC	1.00 [CPS]
8	Sep27-06	08:50:09	DENS.(L) 2.500	GCC	1725.00 [CPS]
9	Sep27-06	08:50:10	DENS.(S) 0.000	GCC	1.00 [CPS]
10	Sep27-06	08:50:11	DENS.(S) 2.500	GCC	1725.00 [CPS]
11	Sep27-06	08:50:12	CALIPER 15.240	INCH	26089.00 [CPS]
12	Sep27-06	08:50:13	CALIPER 30.480	INCH	52178.00 [CPS]
13	Sep27-06	08:50:14	DENS.(L) 0.000	GCC	1.00 [CPS]
14	Sep27-06	08:50:15	DENS.(L) 2.500	GCC	1725.00 [CPS]
	AUG18-06	08:47:37	0.000		0.00 [CPS]
			2.500		1725.00 [CPS]

Century GEOPHYSICAL CORP.
century-geo.com

DIPMETER
RHTR 2006 - 5

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:RHTR 2006 - 5
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:
UNIQUE WELL ID.	:

OTHER SERVICES:
DENSITY

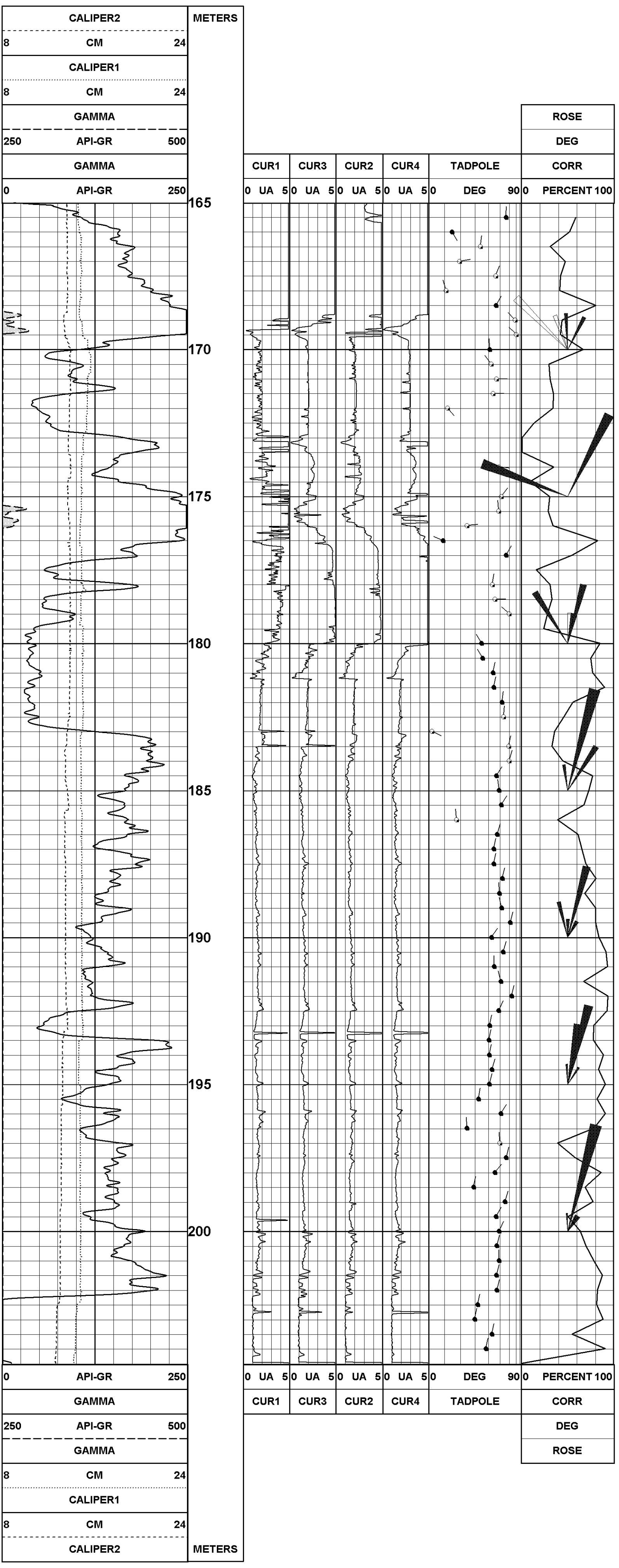
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:09/27/06		
DEPTH DRILLER	:203.12		
BIT SIZE	:7.62		
LOG TOP	:165.00		
LOG BOTTOM	:204.50		
CASING OD	:15.24		
CASING BOTTOM	:3.05		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:		
RM TEMPERATURE	:		
MUD RES	:		
MUD WEIGHT	:		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:60 DEGREE ANGLE		
REMARKS 2	:35 DEGREE AZIMUTH		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:40 CM LOG, GAMMA-CURRENT-DIP RHTR 2006 - 5 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9411print j.0 09/24/2006		VERSION = 3.64EB



1:40 CM LOG, GAMMA-CURRENT-DIP RHTR 2006 - 5 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9411print j.0 09/24/2006		VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 5 09/27/06 10:47
TOOL 9411A TM VERSION 1
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,05	09:45:12	GAMMA	Default	[CPS]	Default	[CPS]
	Jul27,05	09:45:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,05	08:21:29	VOLTAG	104.800	[MV]	720.00	[CPS]
	Aug02,05	08:21:29	VOLTAG	350.700	[MV]	2360.00	[CPS]
3	Aug02,05	09:37:25	CUR1	4.213	[UA]	7855.00	[CPS]
	Aug02,05	09:37:25	CUR1	0.000	[UA]	80.00	[CPS]
4	Aug02,05	08:27:32	CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,05	08:27:32	CUR2	0.000	[UA]	105.00	[CPS]
5	Aug02,05	08:24:02	CUR3	4.250	[UA]	7900.00	[CPS]
	Aug02,05	08:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,05	08:26:09	CUR4	4.270	[UA]	7860.00	[CPS]
	Aug02,05	08:26:09	CUR4	0.000	[UA]	180.00	[CPS]
7	Feb18,06	10:59:53	CALIPER'	15.240	[INCH]	9145.00	[CPS]
	Feb18,06	10:59:53	CALIPER'	30.480	[INCH]	2208.00	[CPS]

Company:	Centaur Consultants
Well:	RHTR 2006 - 5
Field:	Rhytar
Province:	Saskatchewan
Country:	Canada
Surface Location:	4-5-26-W3
Latitude:	49.0000
Longitude:	-102.8000
Nad:	27
Elevation:	0 m
Log Date:	09/27/06
Run Number:	1
Depth Driller:	0 m
Depth Logged:	0 m
Bottom Log Interval:	0 m
Top Log Interval:	0 m
Casing Driller:	0 m @ 0 m
Casing Logged:	0 m
Bit:	0 mm
Drilling Fluid Type:	Water
Density:	0 kg/m³
Viscosity:	0 s
Fluid Loss:	0 ml
Resistivity:	0 ohm-m @ 0 °C
Source:	0 ohm-m @ 0 °C
Rm:	0 ohm-m @ 0 °C
Rmf:	0 ohm-m @ 0 °C
Rmc:	0 ohm-m @ 0 °C
Max Rec Temp:	0 °C
Equipment:	Truck
Recorded By:	Kevin Kirkham
Witnessed By:	Jeff Bauer

Centaur

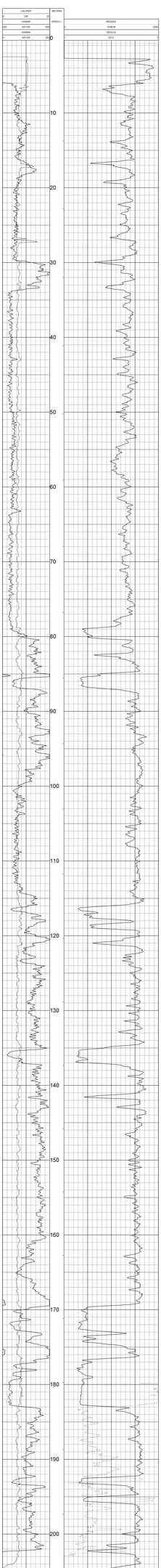
GAMMA-RAY - LONG SPACE DENSITY
RHTR 2006 - 5

Scale 1:100

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 5 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT CUTOFF : 10000 BIT SIZE : 7.42
PRESENTATION NAMEDATA : W:\Wong-laserset\C D - 09072006 VERSION : 4.54MB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 5 09/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT CUTOFF : 10000 BIT SIZE : 7.42
PRESENTATION NAMEDATA : W:\Wong-laserset\C D - 09072006 VERSION : 4.54MB

TOOL CALIBRATION: RHTR 2006 - 5 ENCTOR 11.45
TOOL CALIBRATION: RHTR 2006 - 5 PCH 2014
LOGGING NUMBER: 1.LAS

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	09:50:00	GAMMA	0.000	API GR	0.00	[CPS]
2	Sep27,06	09:50:01	GAMMA	200.000	API GR	200.00	[CPS]
3	Sep27,06	09:50:02	GAMMA	400.000	API GR	400.00	[CPS]
4	Sep27,06	09:50:05	STA.TRCE	972.000	INV	78991.00	[CPS]
5	Sep27,06	09:50:06	CALIPER	10.000	INCH	10.000	[CPS]
6	Sep27,06	09:50:07	CALIPER	15.000	INCH	20.000000	[CPS]
7	Sep27,06	09:50:08	CALIPER	20.000	INCH	30.000000	[CPS]
8	Sep27,06	09:50:09	DENL(S)	2.500	G/C3	1725.00	[CPS]
9	Sep27,06	09:50:10	DENL(S)	2.000	G/C3	1375.00	[CPS]
10	Sep27,06	09:50:11	DENL(S)	1.500	G/C3	1025.00	[CPS]
11	Sep27,06	09:50:12	CALIPER	15.240	INCH	26089.00	[CPS]
12	Sep27,06	09:50:13	CALIPER	20.320	INCH	35000.00	[CPS]
13	Sep27,06	09:50:14	CALIPER	25.400	INCH	43900.00	[CPS]
14	Sep27,06	09:50:15	DCI(C)	0.000	G/C3	0.00	[CPS]
15	Sep27,06	09:50:16	DCI(C)	0.750	G/C3	1300.00	[CPS]

CANWEST GLOBAL COMMUNITY
GAMMA-RAY - SHORT SPACE
RHTR 2006 - 5

Canwest Global Communications Corp.
Suite 1000 - 1200 Bay Street
Toronto, Ontario M5R 2A5
Tel: (416) 967-1174
Fax: (416) 967-1243

Baker Hughes INTEQ	GAMMA, CALIPER, RESISTIVITY, CORRECTED DENSITY, PHOTOGRAPH
Company:	
Well:	
Field:	
County:	
State:	
Date:	
Time:	
Depth Reference:	
Logging Engineer:	
Operator:	
Comments:	
Depth Scale:	
Log Scale:	
Log Type:	
Log Date:	
Log Time:	
Log Number:	
Run Number:	
Depth Reference:	
Logging Engineer:	
Operator:	
Comments:	
Depth Scale:	
Log Scale:	
Log Type:	
Log Date:	
Log Time:	
Log Number:	
Run Number:	

100 CM LOG, GAMMA-DENSITY RHTR2005-7 05/18/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 SECTION MATRIX : SANDSTONE SECTION DELTA T : 171
MUDWT (SG) : 1 FLUID TYPE : WATER MT SIZE : 11.00
PRESENTATION NUMBER(S) : SCALE : 5M/100M

CALIPER
6 16.00

GAMMA
0 200

DENSITY
1.95 2.95

SECTION

LOAD
0.00 0.01 0.02

RESIST.
0 200

CHAN B
0 200

DENSITY
1.95 2.95

MEAS
0 1

TEMPERATURE
0 200

RUNNER
0.00 0.01 0.02

LOAD

SECTION

100 CM LOG, GAMMA-DENSITY RHTR2005-7 05/18/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 SECTION MATRIX : SANDSTONE SECTION DELTA T : 171
MUDWT (SG) : 1 FLUID TYPE : WATER MT SIZE : 11.00
PRESENTATION NUMBER(S) : SCALE : 5M/100M

CALIPER
6 16.00

GAMMA
0 200

DENSITY
1.95 2.95

SECTION

LOAD
0.00 0.01 0.02

RESIST.
0 200

CHAN B
0 200

DENSITY
1.95 2.95

MEAS
0 1

TEMPERATURE
0 200

RUNNER
0.00 0.01 0.02

LOAD

SECTION

TOOL CALIBRATION: RUNNER 1 GAMMA ID 0.0
TOOL TYPE: 1 DENSITY CAL
TOOL NUMBER: 0

	DATE	TIME	SERVICE	STATUS	SECTION
1	05/18/06	10:18:00	CALIBRATE	DONE	
2	05/18/06	10:18:00	CALIBRATE	DONE	
3	05/18/06	10:18:00	CALIBRATE	DONE	
4	05/18/06	10:18:00	CALIBRATE	DONE	
5	05/18/06	10:18:00	CALIBRATE	DONE	
6	05/18/06	10:18:00	CALIBRATE	DONE	
7	05/18/06	10:18:00	CALIBRATE	DONE	
8	05/18/06	10:18:00	CALIBRATE	DONE	
9	05/18/06	10:18:00	CALIBRATE	DONE	
10	05/18/06	10:18:00	CALIBRATE	DONE	
11	05/18/06	10:18:00	CALIBRATE	DONE	
12	05/18/06	10:18:00	CALIBRATE	DONE	
13	05/18/06	10:18:00	CALIBRATE	DONE	
14	05/18/06	10:18:00	CALIBRATE	DONE	
15	05/18/06	10:18:00	CALIBRATE	DONE	
16	05/18/06	10:18:00	CALIBRATE	DONE	
17	05/18/06	10:18:00	CALIBRATE	DONE	
18	05/18/06	10:18:00	CALIBRATE	DONE	
19	05/18/06	10:18:00	CALIBRATE	DONE	
20	05/18/06	10:18:00	CALIBRATE	DONE	
21	05/18/06	10:18:00	CALIBRATE	DONE	
22	05/18/06	10:18:00	CALIBRATE	DONE	
23	05/18/06	10:18:00	CALIBRATE	DONE	
24	05/18/06	10:18:00	CALIBRATE	DONE	
25	05/18/06	10:18:00	CALIBRATE	DONE	
26	05/18/06	10:18:00	CALIBRATE	DONE	
27	05/18/06	10:18:00	CALIBRATE	DONE	
28	05/18/06	10:18:00	CALIBRATE	DONE	
29	05/18/06	10:18:00	CALIBRATE	DONE	
30	05/18/06	10:18:00	CALIBRATE	DONE	
31	05/18/06	10:18:00	CALIBRATE	DONE	
32	05/18/06	10:18:00	CALIBRATE	DONE	
33	05/18/06	10:18:00	CALIBRATE	DONE	
34	05/18/06	10:18:00	CALIBRATE	DONE	
35	05/18/06	10:18:00	CALIBRATE	DONE	
36	05/18/06	10:18:00	CALIBRATE	DONE	
37	05/18/06	10:18:00	CALIBRATE	DONE	
38	05/18/06	10:18:00	CALIBRATE	DONE	
39	05/18/06	10:18:00	CALIBRATE	DONE	
40	05/18/06	10:18:00	CALIBRATE	DONE	
41	05/18/06	10:18:00	CALIBRATE	DONE	
42	05/18/06	10:18:00	CALIBRATE	DONE	
43	05/18/06	10:18:00	CALIBRATE	DONE	
44	05/18/06	10:18:00	CALIBRATE	DONE	
45	05/18/06	10:18:00	CALIBRATE	DONE	
46	05/18/06	10:18:00	CALIBRATE	DONE	
47	05/18/06	10:18:00	CALIBRATE	DONE	
48	05/18/06	10:18:00	CALIBRATE	DONE	
49	05/18/06	10:18:00	CALIBRATE	DONE	
50	05/18/06	10:18:00	CALIBRATE	DONE	
51	05/18/06	10:18:00	CALIBRATE	DONE	
52	05/18/06	10:18:00	CALIBRATE	DONE	
53	05/18/06	10:18:00	CALIBRATE	DONE	
54	05/18/06	10:18:00	CALIBRATE	DONE	
55	05/18/06	10:18:00	CALIBRATE	DONE	
56	05/18/06	10:18:00	CALIBRATE	DONE	
57	05/18/06	10:18:00	CALIBRATE	DONE	
58	05/18/06	10:18:00	CALIBRATE	DONE	
59	05/18/06	10:18:00	CALIBRATE	DONE	
60	05/18/06	10:18:00	CALIBRATE	DONE	
61	05/18/06	10:18:00	CALIBRATE	DONE	
62	05/18/06	10:18:00	CALIBRATE	DONE	
63	05/18/06	10:18:00	CALIBRATE	DONE	
64	05/18/06	10:18:00	CALIBRATE	DONE	
65	05/18/06	10:18:00	CALIBRATE	DONE	
66	05/18/06	10:18:00	CALIBRATE	DONE	
67	05/18/06	10:18:00	CALIBRATE	DONE	
68	05/18/06	10:18:00	CALIBRATE	DONE	
69	05/18/06	10:18:00	CALIBRATE	DONE	
70	05/18/06	10:18:00	CALIBRATE	DONE	
71	05/18/06	10:18:00	CALIBRATE	DONE	
72	05/18/06	10:18:00	CALIBRATE	DONE	
73	05/18/06	10:18:00	CALIBRATE	DONE	
74	05/18/06	10:18:00	CALIBRATE	DONE	
75	05/18/06	10:18:00	CALIBRATE	DONE	
76	05/18/06	10:18:00	CALIBRATE	DONE	
77	05/18/06	10:18:00	CALIBRATE	DONE	
78	05/18/06	10:18:00	CALIBRATE	DONE	
79	05/18/06	10:18:00	CALIBRATE	DONE	
80	05/18/06	10:18:00	CALIBRATE	DONE	
81	05/18/06	10:18:00	CALIBRATE	DONE	
82	05/18/06	10:18:00	CALIBRATE	DONE	
83	05/18/06	10:18:00	CALIBRATE	DONE	
84	05/18/06	10:18:00	CALIBRATE	DONE	
85	05/18/06	10:18:00	CALIBRATE	DONE	
86	05/18/06	10:18:00	CALIBRATE	DONE	
87	05/18/06	10:18:00	CALIBRATE	DONE	
88	05/18/06	10:18:00	CALIBRATE	DONE	
89	05/18/06	10:18:00	CALIBRATE	DONE	
90	05/18/06	10:18:00	CALIBRATE	DONE	
91	05/18/06	10:18:00	CALIBRATE	DONE	
92	05/18/06	10:18:00	CALIBRATE	DONE	
93	05/18/06	10:18:00	CALIBRATE	DONE	
94	05/18/06	10:18:00	CALIBRATE	DONE	
95	05/18/06	10:18:00	CALIBRATE	DONE	
96	05/18/06	10:18:00	CALIBRATE	DONE	
97	05/18/06	10:18:00	CALIBRATE	DONE	
98	05/18/06	10:18:00	CALIBRATE	DONE	
99	05/18/06	10:18:00	CALIBRATE	DONE	
100	05/18/06	10:18:00	CALIBRATE	DONE	

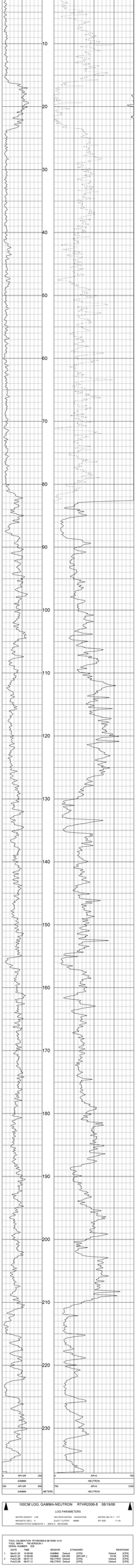
Company	Petroleum Geo-Services
Well	RHTR2005-7
Field	
Date	08/18/06
Operator	
Comments	
Depth Reference	
Elevation	
Depth Reference Elevation	
Depth Reference Elevation Type	
Depth Reference Elevation Units	
Depth Reference Elevation Date	
Depth Reference Elevation Comments	
Depth Reference Elevation Source	
Depth Reference Elevation Method	
Depth Reference Elevation Accuracy	
Depth Reference Elevation Precision	
Depth Reference Elevation Resolution	
Depth Reference Elevation Uncertainty	
Depth Reference Elevation Confidence

Baker Hughes INTEQ

GAMMA - NEUTRON

RTHR2006-B

Company	Baker Hughes INTEQ
Well	RTHR2006-B
Field	Rathburn
County	Hancock
State	Maine
Country	USA
Surface Location	Lat: 44.5 Long: -68.4
Permanent Datum	Ground Level
Elevation	0 m
Log Measured From	Rotary Table
Drilling Measured From	Rotary Table
Date	08/19/06
Run Number	1
Depth Driller	250 m
Depth Logger	250 m
Bottom Logged Interval	250 m
Top Logged Interval	0 m
Casing Driller	0 m @ 0 m
Casing Logger	0 m
Bit Size	0 in
Type Fluid in Hole	Air
Density	-
Viscosity	-
pH	-
Fluid Loss	-
Source of Sample	-
Rm @ Measured Temp	-
Rmf @ Measured Temp	-
Rmc @ Measured Temp	-
Source Rmf / Rmc	-
Rm @ BHT	-
Time Since Circulation	-
Time Since Stop	-
Max Recorded Temp	-
Equipment Number	-
Location	-
Recorded By	-
Witnessed By	-



TOOL CALIBRATION RTHR2006-B 09/18/06 14:21
TOOL SNECK TM-EPSCION 1
TOOL SERIAL NO. 529

	DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Mon01-02	15:09:58	GAMMA Default	[CPS]	Default	[CPS]
2	Mon01-02	15:09:58	GAMMA Default	[CPS] Ch 1	Default	[CPS]
3	Fri02-06	08:07:12	NEUTRON Default	[CPS]	Default	[CPS]
4	Fri02-06	08:07:12	NEUTRON Default	[CPS]	Default	[CPS]

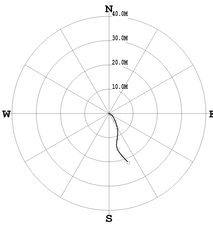
100CM LOG, GAMMA-NEUTRON RTHR2006-B 08/19/06
LOG PARAMETERS
MATRIX DENSITY 2.65 NEUTRON MATRIX SANDSTONE MATRIX DELTA T 0 T/
MAGNETIC DECL. 0 ELECT. CUTOFF 10000 BIT SIZE 11.40
PRESERVATION NAME/DATE + MON-2 09/18/2006

PLAN VIEW
COMPU-LOG DEVIATION

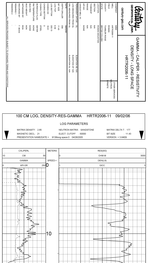
CLIENT: NRMI
LOCATION: ROMAN
HOLE ID: RRTS2006-11
DATE OF LOG: 09/02/06
PROBE: 8411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 332.19 M
AZIMUTH: 158.6
DISTANCE: 21.9 M
+ = 50 M INCR
○ = BOTTOM OF HOLE



Geology GEOPHYSICAL CORP.
COTTON OPS.DOC
Company: Hess
Field: Ridgway
Well: HRTR2006-11
Location: Ridgway, Colorado
Elevation: N/A
Date: 09/02/06
Time: 11:43
Operator: Jim Cotton
Witnesses: N/A
Comments: Tool Number: 5411A
Tool Serial Number: 390
Calibration Date: 09/02/06
Calibration Time: 16:17
Calibration Type: Pre-Logging
Calibration Results: Acceptable
Equipment Id: N/A
Equipment Type: N/A
Equipment Id: N/A
Equipment Type: N/A
Equipment Id: N/A
Equipment Type: N/A


Geophysics
Geophysics
Geophysics

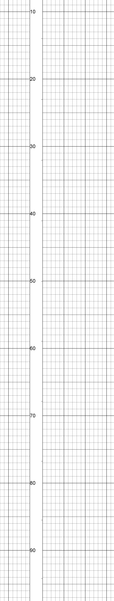
COMPANY	Schlumberger
WELL	15/9-F-15
FIELD	GULLFAKS
COUNTY	
STATE	
LOCATION	
OTHER SERVICES	
PERMANENT DATUM	MSL
ELEVATION	0 M
LOG MEASURED FROM	RKB 55 M ABOVE PERM. DATUM
DRILLING MEASURED FROM	RKB
API SERIAL NO.	
SECTION	
TOWNSHIP	
RANGE	
DATE	9-Mar-2006
RUN NO.	ONE
TYPE FLUID IN HOLE	SEAWATER
DENSITY	1.03
VISCOSITY	
PH	
FLUID LOSS	
SOURCE OF SAMPLE	
RM @ MEASURED TEMP.	
RMF @ MEASURED TEMP.	
RMC @ MEASURED TEMP.	
SOURCE RMF	
SOURCE RMC	
RM @ BHT	
MAX. RECORDED TEMP.	
BOTTOM INTERVAL	1100 M
TOP INTERVAL	0 M
CASING - DRILLER	30" @ 0 M
CASING - LOGGER	
BIT SIZE	36"
TYPE OF FLUID	
LOGGING UNIT NO.	
LOGGING ENGINEER	
WITNESS	

CHECKSHOT

100 CM LOG, NEUTRON-GAMMA - HRTK2006.11 - 09/02/06

LOG PRINTING DATA

DEPTH SCALE(1") : 20M	DEPTH PRINTED : 1000M/100M	DEPTH SELECT : 1:1	
GAMMA SCALE(1") : 10	PLOT CUTOFF : NONE	AP CALIB : 0M	
GAMMA FILTER(SEC) : 0.5	DATA : NEUTRON	DEPTH : 1.0000	



100 CM LOG, NEUTRON-GAMMA - HRTK2006.11 - 09/02/06

LOG PRINTING DATA

DEPTH SCALE(1") : 20M	DEPTH PRINTED : 1000M/100M	DEPTH SELECT : 1:1	
GAMMA SCALE(1") : 10	PLOT CUTOFF : NONE	AP CALIB : 0M	
GAMMA FILTER(SEC) : 0.5	DATA : NEUTRON	DEPTH : 1.0000	

TOOL CALIBRATION: HRTK2006-11 CHECKS: N.O.
TOOL TYPE: HRT-A
SERIAL NUMBER: 1206
TOOL STRING: HRT-A / HNGS

				STANDARD		RESPONSE	
1	Begin CS:	10:00:00	1000	1000	API-GR	1000	API-GR
2	Begin CS:	10:00:00	1000	1000	NPL%	1000	NPL%
3	Begin CS:	10:00:00	1000	1000	NPL%	1000	NPL%
4	Begin CS:	10:00:00	1000	1000	API-GR	1000	API-GR

Geophysics

Schlumberger

Schlumberger Canada Limited
2700, 425 - 1st Street S.W.
Calgary, Alberta T2P 3L8

WELL NAME: HRTR2006-11
FIELD: Hartree
LOCATION: 10-11-29-20 W2M
PROVINCE: Saskatchewan
COUNTRY: Canada

DATE: 04/02/06
RUN NUMBER: 1
DEPTH DATUM: KB
DRILLING MEASURED FROM: KB
ELEVATION: KB 1000.00 m
GROUND ELEVATION: 1000.00 m

DENSITY-GAMMA RAY
DUAL LATERLOG-GAMMA RAY

DENSITY-GAMMA RAY
DUAL LATERLOG-GAMMA RAY

Log Interpretation by:
Schlumberger Canada Limited
Calgary, Alberta

Log Analyst:
Schlumberger Canada Limited
Calgary, Alberta

Log Analyst Approval:
Schlumberger Canada Limited
Calgary, Alberta

Log Analyst Approval Date

Baker Hughes

INTEQ

HRT-R2006-11 - 09/02/06

HORIZONTAL RESISTIVITY
VERTICAL GAMMA

Company	Baker Hughes INTEQ
Field	Hoxa Hoxa
Well	HRT-R2006-11
Date	09/02/06
Time	00:00:00
Depth Unit	Meters
Time Unit	Seconds
Log Type	Raw
Log Mode	Time
Log Interval	0.1
Log Direction	Down
Tool Type	Resistivity Gamma
Tool Serial Number	0
Tool Length	0
Tool Offset	0
Sensor Offset	0
Bit Offset	0
Bit Size	0
Hole Size	0
Mud Type	Water
Mud Weight	0
Mud Viscosity	0
Mud Resistivity	0
Mud Temperature	0
Max Temperature	0
Max Pressure	0
Max Vibration	0
Max Shock	0
Max Rotation	0
Max Inclination	0
Max Azimuth	0
Max Gamma	0
Max Resistivity

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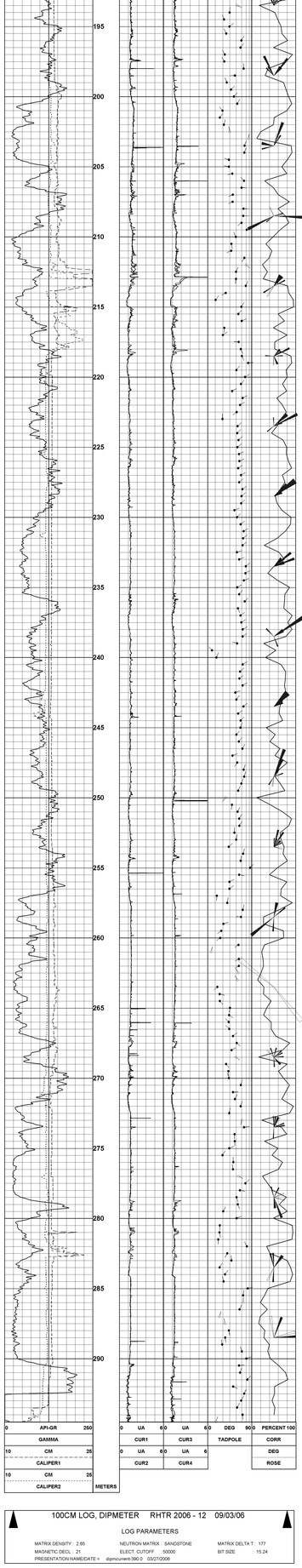
COMPANY	BRITISH BORNEO INC
WELL	RHTR 2006 - 12
FIELD	ROKAN IV PK
COUNTY	KUTAI BARAT
STATE	BORNEO ISLAND
	INDONESIA
	SA
SECTION	
TOWNSHIP	
RANGE	
APINO	
PERMANENT DATUM	GROUND LEVEL
LOG MEASURED FROM	GL
DRILLING MEASURED FROM	GROUND
ELEVATION OF GL	
ELEVATION OF KB	
ELEVATION OF DF	
ELEVATION OF SL	
OTHER SERVICES	
	SA

DIPMETER
RHTR 2006 - 12

100CM LOG, DIPMETER RHTR 2006 - 12 09/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = dipmcurrent-390 0 03/27/2006



100CM LOG, DIPMETER RHTR 2006 - 12 09/03/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = dipmcurrent-390 0 03/27/2006

TOOL CALIBRATION RHTR 2006 - 12 09/03/06 23:04
TOOL 8411A TM VERSION 9200
SERIAL NUMBER 390

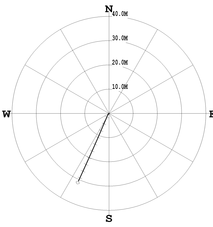
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,06	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
	Jul27,06	10:46:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,06	09:21:29	VOLTAG	104.800	[MV]	720.00	[CPS]
	Aug02,06	09:21:29	VOLTAG	350.700	[MV]	2360.00	[CPS]
3	Aug02,06	10:37:26	CUR1	4.213	[UA]	7856.00	[CPS]
	Aug02,06	10:37:26	CUR1	0.000	[UA]	80.00	[CPS]
4	Aug02,06	09:27:32	CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,06	09:27:32	CUR2	0.000	[UA]	105.00	[CPS]
5	Aug02,06	09:24:02	CUR3	4.260	[UA]	7900.00	[CPS]
	Aug02,06	09:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,06	09:26:09	CUR4	4.270	[UA]	7080.00	[CPS]
	Aug02,06	09:26:09	CUR4	0.000	[UA]	180.00	[CPS]
7	Feb18,06	10:59:53	CALIPER	15.240	[INCH]	9145.00	[CPS]
	Feb18,06	10:59:53	CALIPER	30.480	[INCH]	2205.00	[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NRMI
LOCATION: ROMAN
HOLE ID: RRTS2004-13
DATE OF LOG: 09/02/06
PROBE: 8411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 58.48 M
AZIMUTH: 204.3
DISTANCE: 31.3 M
+ = 5 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY (THROUGH RODS) RHTR 2006 - 13

COMPANY	ROCKYMTN DENSITY MINING INC
FIELD	RHTR 2006 - 13
COUNTY	ROSIKA UTH
SECTION	TUMBLER HOUSE
COORDINATES	NA
LOCATION	BEAVER DAM COLORADO
DATE	09/03/06
DATE - TIMELAB	09/03/06 15:44
BIT SIZE	11.43
LOG TOP/TOW	0.0
LOG BOT/BOW	102.0
Casing OD	13.24
Casing TYPE	SURFACE
Casing WEIGHT	NA
MUD WEIGHT	NA
RECORDED BY	J. BRANCH
WITNESSED BY	NA
REMARKS 1	100CM LOG, GAMMA-GAMMA SLIM, AZIMUTH: 315 DEGREES
REMARKS 2	ALL DEPTHS TAKEN FROM BUILDER TO CHAINAGE TRAMS AND CONDITIONS

STATION	
NA	
NA	

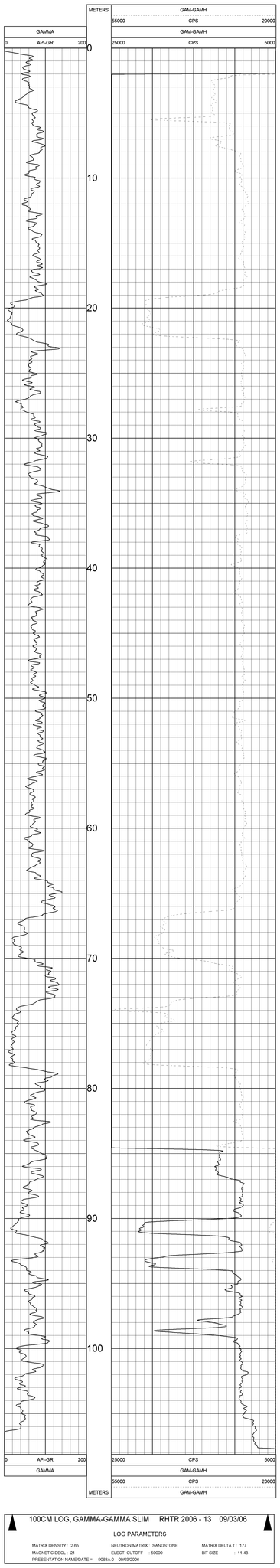
OTHER SERVICES

DRILLING CONTRACTOR	ELEVATION KB NA
DRILLING METHOD	ELEVATION DF NA
DRILL MEASURED FROM	ELEVATION GL NA
LENGTH	
DRILL STEM	
DRILL STEM DIA	
DRILL STEM WEIGHT	
DRILL STEM TYPE	
DRILL STEM LENGTH	
BOREHOLE FLUID	WATER
BOREHOLE FLUID LEVEL	
MAX DEG	NA
MAX DEG DEPTH	NA
MAX DEPTH	NA
RECORDED BY	J. BRANCH
WITNESSED BY	NA
REMARKS 1	100CM LOG, GAMMA-GAMMA SLIM, AZIMUTH: 315 DEGREES
REMARKS 2	ALL DEPTHS TAKEN FROM BUILDER TO CHAINAGE TRAMS AND CONDITIONS

100CM LOG, GAMMA-GAMMA SLIM RHTR 2006 - 13 09/03/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	50000	BIT SIZE :	11.43
PRESENTATION NAME/DATE =	9068A.0 09/03/2006				



100CM LOG, GAMMA-GAMMA SLIM RHTR 2006 - 13 09/03/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	50000	BIT SIZE :	11.43
PRESENTATION NAME/DATE =	9068A.0 09/03/2006				

TOOL CALIBRATION RHTR 2006 - 13 09/03/06 15:44
TOOL 9068A TM VERSION 3200
SERIAL NUMBER 640

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar06,02	11:27:22	GAMMA	Default	[CPS]	Default	[CPS]
	Mar06,02	11:27:22	GAMMA	105.000	[API-GR]	46.00	[CPS]

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GAMMA - NEUTRON (THROUGH RODS) RHTR 2006 - 13

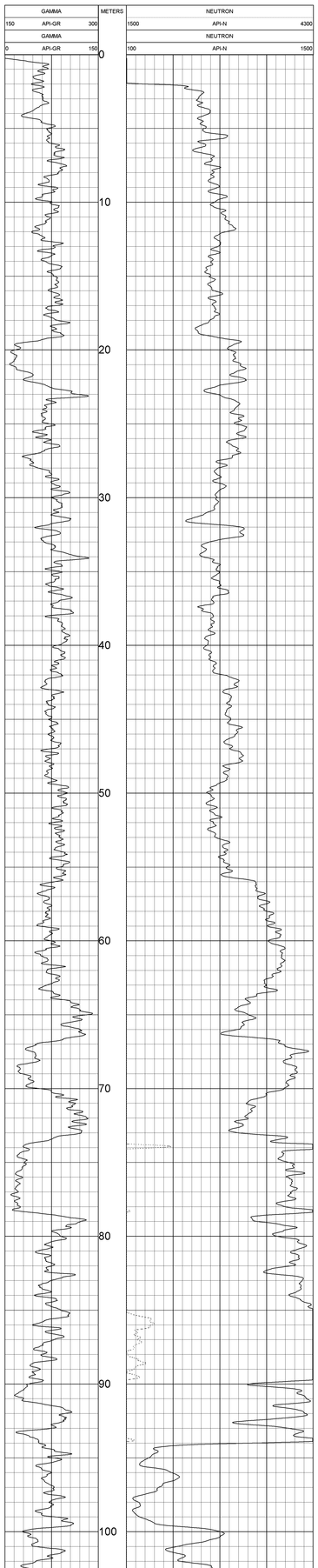
COMPANY	ROCKY MOUNTAIN ENERGY MINING INC.
FIELD	RHTR 2006 - 13
COUNTY	ROSEBUD
STATE	MONTANA
LOCATION	SE/SE/SE/SE/
SECTION	NA
TOWNSHIP	NA
RANGE	NA
ELEVATION	NA
LONGITUDE WELL G.	NA
LATITUDE WELL G.	NA
DRILLING MEASURED FROM	GL
ELEVATIONS KB	NA
DF	NA
GL	NA
DATE	09/03/06
DRILLER	0 - 0
BIT SIZE	11.43
LOG TOP/TOW	0.0
LOG BOTTOM	105.0
CASING DD	15.24
CASING DRILLER	15.24
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
RIG NO	NA
MUD DENSITY	NA
MUD VISCOSITY	NA
MUD WEIGHT	NA
RECORDED BY	J. BRANCH
WITNESSED BY	NA
REMARKS 1	LOG THROUGH RODS, PIPE
REMARKS 2	ALL DEPTHS THROUGH RODS, BUT SET TO STANDARD TRAVEL AND CONDITIONS

DRILLER RIGS USED
DRILLING
NA
NA

100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 13 09/03/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	50000	BIT SIZE :	11.43
PRESENTATION NAME/DATE =	9067A.0 09/03/2006				



100CM LOG, GAMMA-NEUTRON SLIM RHTR 2006 - 13 09/03/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	50000	BIT SIZE :	11.43
PRESENTATION NAME/DATE =	9067A.0 09/03/2006				

TOOL CALIBRATION RHTR 2006 - 13 09/03/06 15:21
TOOL 9067A TM VERSION 3200
SERIAL NUMBER 529

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Mar01,02	15:09:58	GAMMA	Default	[CPS]	Default	[CPS]
	Mar01,02	15:09:58	GAMMA	105.000	[API-GR]	53.00	[CPS]
2	Feb22,06	09:07:12	NEUTRON	Default	[CPS]	Default	[CPS]
	Feb22,06	09:07:12	NEUTRON	Default	[CPS]	Default	[CPS]

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Company	ANTARES ENERGY LTD
Well	RHTR2006-18
Field	
County	
State	
Country	NEW ZEALAND
Service	
Date	27/09/06
Time	
Depth Unit	METERS
Log Type	
Log Interval	
Log Speed	
Log Direction	
Log Scale	
Tool Type	
Tool Serial Number	
Tool Length	
Tool Diameter	
Tool Weight	
Tool Position	
Sensor Offset	
Sensor Position	
Mud Type	
Mud Density	
Mud Viscosity	
Mud Resistivity	
Mud Temperature	
Mud Resistivity Temperature	
Max Temperature	
Max Deviation	
Max Deviation Depth	
Max Dogleg	
Max Dogleg Depth	
Max Tension	
Max Tension Depth	
Min Tension	
Min Tension Depth	
Max Speed	
Max Speed Depth	
Min Speed	
Min Speed Depth	
Max Pressure	
Max Pressure Depth	
Min Pressure	
Min Pressure Depth	
Max Temperature	
Max Temperature Depth	
Min Temperature	
Min Temperature Depth	
Max Acceleration	
Max Acceleration Depth	
Min Acceleration	
Min Acceleration Depth	
Max Shock	
Max Shock Depth	
Min Shock	
Min Shock Depth	
Max Vibration	
Max Vibration Depth	
Min Vibration	
Min Vibration Depth	
Max Stick	
Max Stick Depth	
Min Stick	
Min Stick Depth	
Max Torque	
Max Torque Depth	
Min Torque	
Min Torque

Gamma Ray Density Porosity Neutron Porosity Caliper Temperature Resistivity Spontaneous Potential Sonic Velocity Density Porosity Neutron Porosity Caliper Temperature Resistivity Spontaneous Potential Sonic Velocity

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918 663-5700
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GAMMA - DENSITY - RESSIVITY
COMPENSATED DENSITY
RHTR 2006 - 20

COMPANY	ROCKY MOUNTAIN NATURAL GAS INC
WELL	RHTR 2006 - 20
FIELD	
COUNTY	SUBLETTE COUNTY
STATE	WYOMING
LOCATION	SEC 20 T34N R108W
COORDINATES	NA
TOWNSHIP	NA
RANGE	NA
SECTION	NA
ELEV.	NA
DATE	09/28/06
DRILL. MEAS.	NA
DEPTH	NA
DRILLER	NA
LOG MEAS.	NA
BASE LOG MEAS.	NA
PRIMARY FIELD	
SECONDARY FIELD	
LOG TYPE	GAMMA - DENSITY - RESSIVITY
LOG DATE	09/28/06
LOG RUN NO.	ONE
DEPTH DRILLER	9500
DEPTH LOGGER	9529
BTM LOG INTERVAL	9529
TOP LOG INTERVAL	20
CASING DRILLER	13 3/8 @ 1000
CASING LOGGER	NA
BIT SIZE	11
TYPE FLUID IN HOLE	WATER
DENSITY	8.4
VISCOSITY	27
PH	NA
FLUID LOSS	NA
SOURCE OF SAMPLE	FLOWLINE
RM @ MEAS. TEMP.	NA
RMF @ MEAS. TEMP.	NA
RMC @ MEAS. TEMP.	NA
SOURCE RMF	NA
SOURCE RMC	NA
RM @ BHT	NA
TIME CIRC.	NA
MAX. REC. TEMP.	NA
EQUIP. LOCATION	NA
RECORDED BY	NA
WITNESSED BY	NA
REMARKS 1	
REMARKS 2	
REMARKS 3	
REMARKS 4	
REMARKS 5	
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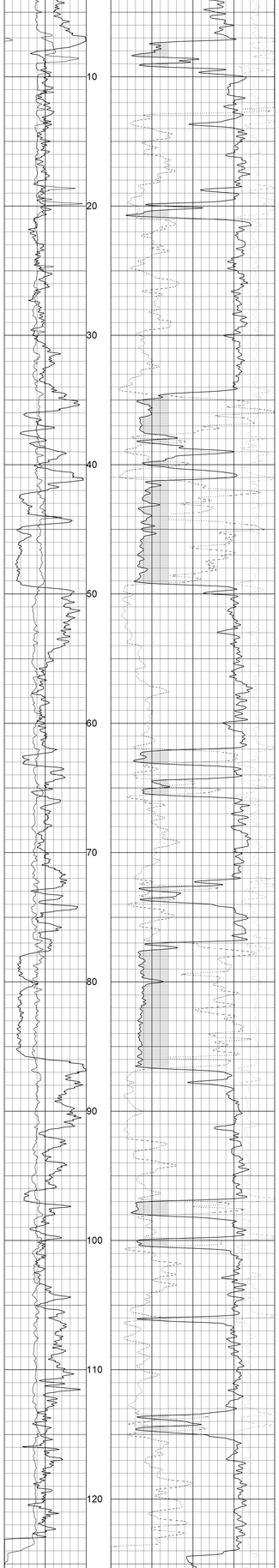
THE SERVICES PROVIDED IS SUBJECT TO CONTRACT TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 20 09/28/06

LOG PARAMETERS

MATRIX DENSITY 2.65	NEUTRON MATRIX SANDSTONE	MATRIX DELTA T 177
MAGNETIC DECL. 21	ELECT. CUTOFF 9500	BIT SIZE 11.43
PRESENTATION NAME/DATE = 9229C.S 09/17/2006		VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 20 09/28/06

LOG PARAMETERS

MATRIX DENSITY 2.65	NEUTRON MATRIX SANDSTONE	MATRIX DELTA T 177
MAGNETIC DECL. 21	ELECT. CUTOFF 9500	BIT SIZE 11.43
PRESENTATION NAME/DATE = 9229C.S 09/17/2006		VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 20 09/28/06 20:29
TOOL SCSIC TM VERSION 2013
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep25.06	11:49:22	GAMMA	0.000	API-GR	12.00	[CPS]
	Sep25.06	11:49:22	GAMMA	200.000	API-GR	240.00	[CPS]
2	Sep21.06	22:00:15	VOLTAGE	31.650	MV	1658.35	[CPS]
3	Sep21.06	22:00:15	VOLTAGE	57.900	MV	3033.00	[CPS]
4	Sep25.06	15:28:06	CALIPER	8.990	CM	218140.00	[CPS]
	Sep25.06	15:28:08	CALIPER	15.240	CM	355800.00	[CPS]
5	Sep24.06	12:24:22	DENLSL	1.000	G/CC	14011.00	[CPS]
	Sep24.06	12:24:32	DENLSL	2.360	G/CC	1125.00	[CPS]
6	Sep24.06	12:24:36	DENSSL	1.000	G/CC	14011.00	[CPS]
	Sep24.06	12:24:38	DENSSL	2.360	G/CC	9100.00	[CPS]
7	Sep21.06	22:01:14	CALIPERL	15.240	CM	256068.00	[CPS]
	Sep21.06	22:01:14	CALIPERL	25.400	CM	385764.00	[CPS]
8	Sep21.06	22:01:49	CURRENT	38.600	UA	10840.00	[CPS]
	Sep21.06	22:01:49	CURRENT	232.000	UA	20120.00	[CPS]
9	Sep21.06	22:02:21	F	0.790			

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Calgary, Alberta
T2C 2E7
(403)262-5506
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EMAIL: calgary@century-geo.com
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DIAMETER
RHTR 2006 - 20

COMPANY	PETRO-CANADA OIL & GAS
WELL	RHTR 2006 - 20
FIELD	RHINOCEROS
COUNTY	MACKENZIE MOUNTAINS
STATE	NORTHWEST TERRITORIES
COUNTRY	CANADA
LOCATION	NA
TOWNSHIP	NA
RANGE	NA
SECTION	NA
API NO.	NA
PERMANENT DATUM	NA
LOG MEASURED FROM	NA
DRILLING MEASURED FROM	NA
ELEVATION	NA
ELEVATION KB	NA
ELEVATION DF	NA
ELEVATION GL	NA
DATE	10/02/06
RUN NUMBER	ONE
DEPTH DRILLER	177.00
DEPTH LOGGER	177.00
BOTTOM LOG INTERVAL	177.00
TOP LOG INTERVAL	SURFACE
CASING TYPE	NA
CASING SIZE	NA
BIT SIZE	11.43
TYPE FLUID IN HOLE	NA
DENSITY	NA
VISCOSITY	NA
PH	NA
FLUID LOSS	NA
SOURCE OF SAMPLE	NA
RM @ MEASURED TEMP	NA
RMF @ MEASURED TEMP	NA
RMC @ MEASURED TEMP	NA
SOURCE OF RMF & RMC	NA
RM @ BHT	NA
TIME CIRC. STOPPED	NA
TIME LOGGER ON BOTTOM	NA
MAX. REC. TEMP.	NA
EQUIPMENT NO.	NA
LOCATION	NA
RECORDED BY	NA
WITNESSED BY	NA

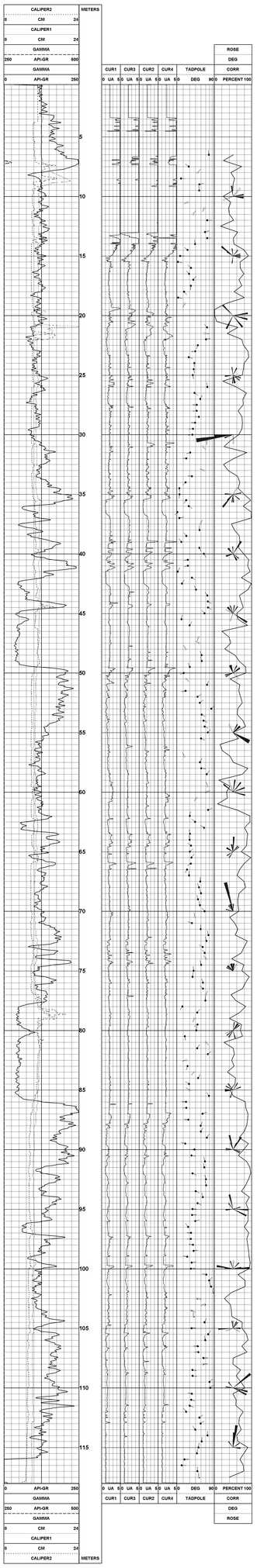
CONTRACTOR: DOWNHOLE SURVEYS INC.
RIG: NA
TOOL TYPE: DIAMETER
TOOL NO.: 3.54
TOOL SERIAL NO.: 390
TOOL LENGTH: 11.00
TOOL DIAMETER: 3.54
TOOL WEIGHT: 15.00
MAX. RECORDED TEMP.: NA
MAX. OPERATING TEMP.: NA
MAX. OPERATING PRESSURE: NA
DATA SAMPLE RATE: 0.0500
DATA FORMAT: ASCII
DATA TYPE: RAW
DATA SOURCE: DIGITAL
DATA CONVERSION: NA
DATA CORRECTED: NA
DATA SMOOTHED: NA
DEPTH CORRECTED: NA
DEPTH SHIFTED: NA
DEPTH SHIFT: NA
DEPTH REFERENCE: NA
DEPTH CORRECTION: NA
DEPTH REFERENCE: NA
DEPTH CORRECTION: NA

ALL SERVICES PROVIDED SUBJECT TO CANADIAN TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-CURRENT-DIP RHTR 2006 - 20 10/02/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	9500	BIT SIZE	11.43
PRESENTATION NAME/DATE =	9411print	0 09/24/2006		VERSION = 3.64EB	



1:100 CM LOG, GAMMA-CURRENT-DIP RHTR 2006 - 20 10/02/06

LOG PARAMETERS

MATRIX DENSITY :	2.65	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	177
MAGNETIC DECL. :	21	ELECT. CUTOFF :	9500	BIT SIZE	11.43
PRESENTATION NAME/DATE =	9411print	0 09/24/2006		VERSION = 3.64EB	

TOOL CALIBRATION RHTR 2006 - 20 10/02/06 11:24
TOOL 8411A TIII VERSION 1
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,06	09:45:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,06	08:21:29	GAMMA	Default	[CPS]	Default	[CPS]
1	Aug02,06	08:21:29	VOLTAG	104.800	[MV]	720.00	[CPS]
2	Aug02,06	08:21:29	VOLTAG	350.700	[MV]	2360.00	[CPS]
3	Aug02,06	08:37:26	CUR1	0.000	[UA]	70.00	[CPS]
4	Aug02,06	08:37:26	CUR1	5.203	[UA]	55.00	[CPS]
1	Aug02,06	08:37:32	CUR2	4.177	[UA]	7810.00	[CPS]
2	Aug02,06	08:37:32	CUR2	0.000	[UA]	105.00	[CPS]
5	Aug02,06	08:24:02	CUR3	4.260	[UA]	7900.00	[CPS]
6	Aug02,06	08:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,06	08:26:09	CUR4	4.270	[UA]	7860.00	[CPS]
7	Aug02,06	08:26:09	CUR4	0.000	[UA]	190.00	[CPS]
1	Feb18,06	10:59:53	CALIPER	15.240	[INCH]	9145.00	[CPS]
2	Feb18,06	10:59:53	CALIPER	30.480	[INCH]	2208.00	[CPS]

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GAMMA - CALIPER - RESSTIVITY
DENSITY - LONG SPACE
RHTR 2006 - 20

COMPANY	NORTHERN TERRITORY ENERGY INC
WELL	RHTR 2006 - 20
FIELD	
COUNTY	
PROVINCE	NORTHWEST TERRITORIES
LOCATION	
LOCATION 2	
LOCATION 3	
LATITUDE	NA
LONGITUDE	NA
ELEVATION	NA
KB	NA
DF	NA
GL	NA
DATE	09/28/06
RUN NUMBER	ONE
DEPTH DRILLER	9130
DEPTH LOGGER	9130
PRIMARY DEPTH CONTROL	DRILLER
LOGGING UNIT NUMBER	10
LOGGING ENGINEER	ELEVATON 16 VA
WITNESS	ELEVATON 16 VA

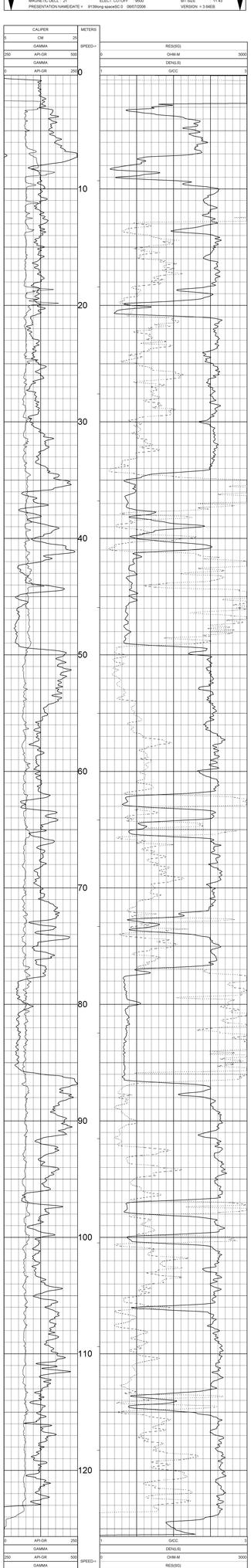
MATRIX DENSITY	2.65	NEUTRON MATRIX	SANDSTONE
MAGNETIC DECL.	21	ELECT. CUTOFF	9500
PRESENTATION NAME/DATE	9136long space/SC:0 06/07/2006		

MATRIX DELTA T	177
BIT SIZE	11.43
VERSION	= 3.64EB

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 20 09/28/06

LOG PARAMETERS

MATRIX DENSITY:	2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T: 177
MAGNETIC DECL. :	21	ELECT. CUTOFF : 9500	BIT SIZE : 11.43
PRESENTATION NAME/DATE =	9136long space/SC:0 06/07/2006		VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 20 09/28/06

LOG PARAMETERS

MATRIX DENSITY:	2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T: 177
MAGNETIC DECL. :	21	ELECT. CUTOFF : 9500	BIT SIZE : 11.43
PRESENTATION NAME/DATE =	9136long space/SC:0 06/07/2006		VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 20 09/28/06 20:29
TOOL SC35C TM VERSION 2013
SERIAL NUMBER 1245

	DATE	TIME	SENSOR		STANDARD		RESPONSE	
1	Sep25.06	11:49:22	GAMMA	0.000	API-GR		12.00	[CPS]
	Sep25.06	11:49:22	GAMMA	283.000	API-GR		240.00	[CPS]
2	Sep21.06	22:00:15	VOLTAGE	31.650	MV		5558.30	[CPS]
3	Sep25.06	11:29:06	VOLTAGE	57.000	MV		10000.00	[CPS]
3	Sep25.06	11:29:06	CALIPER	8.660	CM		219140.00	[CPS]
	Sep25.06	15:28:08	CALIPER	15.240	CM		355800.00	[CPS]
4	Sep24.06	12:24:22	DENL(S)	1.000	G/CC		14011.00	[CPS]
	Sep24.06	12:24:22	DENL(S)	2.360	G/CC		1125.00	[CPS]
5	Sep21.06	22:01:14	DENS(S)	1.000	G/CC		1125.00	[CPS]
	Sep24.06	12:24:36	DENS(S)	2.360	G/CC		9100.00	[CPS]
6	Sep21.06	22:01:14	CALIPER(L	15.240	CM		256068.00	[CPS]
7	Sep21.06	22:01:14	CALIPER(L	25.400	CM		385764.00	[CPS]
	Sep21.06	22:01:49	CURRENT	98.600	UA		10840.00	[CPS]
8	Sep21.06	22:02:21	CURRENT	225.000	UA		20100.00	[CPS]
	Sep21.06	22:02:21	F	0.790				

Century GEOPHYSICAL CORP.

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GAMMA - NEUTRON

OPEN HOLE

RHTR 2006 - 20

COMPANY	NORTHERN ENERGY MINING INC	OTHER SERVICES	
WELL	RHTR 2006 - 20	DENSITY	
FIELD	ROMAN MTN	DIP	
MUNICIPALITY	TUMBLER RIDGE	NA	
PROVINCE	BRITISH COLUMBIA		
LOCATION	NA		
SECTION	NA		
TOWNSHIP	NA		
RANGE	NA		
API NO.	NA		
UNIQUE WELL ID	NA		
PERMANENT DATUM	GL	ELEVATION KB	NA
LOG MEASURED FROM	GL	ELEVATION DF	NA
DRL MEASURED FROM	GL	ELEVATION GL	NA
DATE	10/02/06		
RUN NO.	3		
DEPTH DRILLER	128.94		
BIT SIZE	11.43		
LOG TOP	0.22		
LOG BOTTOM	128.65		
CASING OD	19.24		
CASING BOTTOM	3.05		
CASING TYPE	SURFACE		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	NA		
MUD RES	NA		
WITNESSED BY	RON		
RECORDED BY	T.BOOS		
REMARKS 1			
REMARKS 2			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

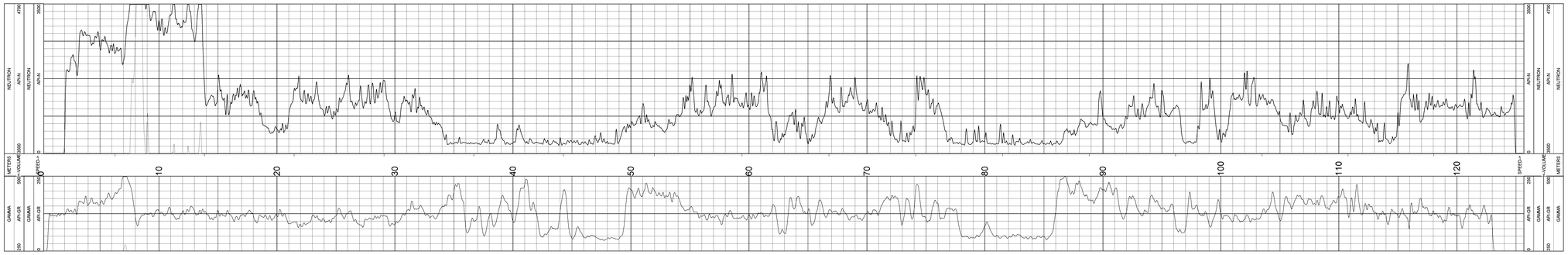
1:100 CM LOG, GAMMA-NEUTRON RHTR 2006 - 20 10/02/06

LOG PARAMETERS

NEUTRON MATRIX SANDSTONE
ELECT CUTOFF 9000

MATRIX DENSITY 2.65
MAGNETIC DECL 21

MATRIX DELTA T 177
BIT SIZE 11.43



1:100 CM LOG, GAMMA-NEUTRON RHTR 2006 - 20 10/02/06

LOG PARAMETERS

NEUTRON MATRIX SANDSTONE
ELECT CUTOFF 9000

MATRIX DENSITY 2.65
MAGNETIC DECL 21

MATRIX DELTA T 177
BIT SIZE 11.43

TOOL CALIBRATION RHTR 2006 - 20 10/02/06 13:16
TOOL TYPE SONDE
SERIAL NUMBER 529

					STANDARD		RESPONSE
1	Mar01.02	23/09/98		GAMMA	Default	[CPS]	Default
	Jan01.02	12/07/99		NEUTRON	50,000	[CPS]	50,000
	Feb01.00	22/01/03		NEUTRON	1,000	[CPS-HR]	1,000
	Feb02.06	16/07/12		NEUTRON	Default	[CPS]	Default
			2				

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GEOPHYSICAL CORP.

COMPANY	NOVATEK NORDAY RUSSIAN INC
WELL	RHTR 2006 - 20
FIELD	
COUNTY	
STATE	
COUNTRY	RUSSIA
LOCATION	
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
PERMANENT DATUM	N/A
LOG MEASURED FROM	N/A
DRILLING MEASURED FROM	N/A
ELEVATION	N/A
ELEVATION KB	N/A
ELEVATION DF	N/A
ELEVATION GL	N/A

RUN NUMBER	ONE
DATE	
DEPTH DRILLER	20
DEPTH LOGGER	20
BOTTOM LOGGED INTERVAL	20
TOP LOGGED INTERVAL	SURFACE
CASING SIZE	N/A
CASING WEIGHT	N/A
CASING TYPE	N/A
CASING DEPTH	N/A
BIT SIZE	7 7/8
TYPE FLUID IN HOLE	N/A
DENSITY	N/A
VISCOSITY	N/A
PH	N/A
FLUID LOSS	N/A
SOURCE OF SAMPLE	N/A
RM @ MEASURED TEMP	N/A
RMF @ MEASURED TEMP	N/A
RMC @ MEASURED TEMP	N/A
SOURCE RMF & RMC	N/A
RM @ BHT	N/A
MAXIMUM RECORDED TEMP	N/A
EQUIPMENT NUMBER	N/A
LOCATION	N/A
RECORDED BY	N/A
WITNESSED BY	N/A

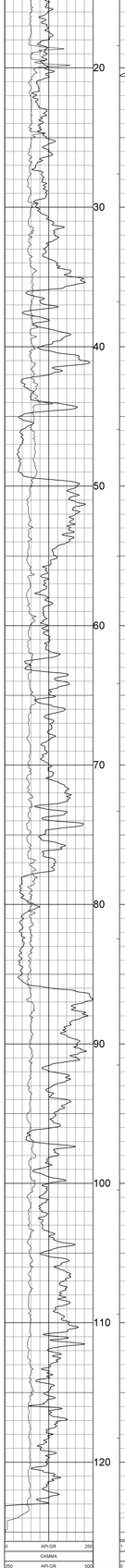
REMARKS 1
REMARKS 2
REMARKS 3
REMARKS 4 ALL SERVICES PROVIDED SUBJECT TO CONTRACT TERMS AND CONDITIONS.

GAMMA - CALIPER - RESSTIVITY DENSITY - SHORT SPACE
RHTR 2006 - 20

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 20 09/28/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T: 177
MAGNETIC DECL : 21 ELECT CUTOFF : 9500 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9136ehort space/SC 0 06/07/2006 VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 20 09/28/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T: 177
MAGNETIC DECL : 21 ELECT CUTOFF : 9500 BIT SIZE : 11.43
PRESENTATION NAME/DATE = 9136ehort space/SC 0 06/07/2006 VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 20 09/28/06 20:29
TOOL SCSC TM VERSION 2013
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep25.06	11.49.22	GAMMA	0.000	API-GR	12.00	[CPS]
2	Sep25.06	11.49.22	GAMMA	200.000	API-GR	290.00	[CPS]
3	Sep21.06	22.00.15	VOLTAGE	31.850	MV	5558.38	[CPS]
4	Sep25.06	11.49.22	VOLTAGE	57.000	MV	10000.00	[CPS]
5	Sep25.06	15.28.08	CALIPER	8.990	CM	219140.00	[CPS]
	Sep25.06	15.28.08	CALIPER	15.240	CM	355850.00	[CPS]
6	Sep24.06	12.24.32	DENLSL	1.000	G/CC	14011.00	[CPS]
	Sep24.06	12.24.32	DENLSL	2.360	G/CC	1125.00	[CPS]
7	Sep21.06	22.01.14	DENSSL	1.000	G/CC	14011.00	[CPS]
	Sep24.06	12.24.36	DENSSL	2.360	G/CC	9100.00	[CPS]
8	Sep21.06	22.01.14	CALIPERL	15.240	CM	256068.00	[CPS]
7	Sep21.06	22.01.14	CALIPERL	25.400	CM	385764.00	[CPS]
7	Sep21.06	22.01.49	CURRENT	98.600	UA	10840.00	[CPS]
8	Sep21.06	22.01.49	CURRENT	220.000	UA	20120.00	[CPS]
8	Sep21.06	22.02.21	F	0.790			

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GAMMA - DENSITY (CPS)
(THROUGH RODS)
RHTR 2006 - 21

COMPANY	NORTHERN ENERGY MINING INC
WELL	RHTR 2006 - 21
FIELD	ROMAN MTN
MUNICIPALITY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA

OTHER SERVICES:
NEUTRON
DIP
DENSITY

LOCATION	
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO.	
UNIQUE WELL ID.	:
PERMANENT DATUM - GL	ELEVATION KB N/A
LOG MEASURED FROM GL	ELEVATION DF N/A
DRL MEASURED FROM GL	ELEVATION GL N/A
DATE	10/03/06
RUN NO.	1
DEPTH DRILLER	94.48
BIT SIZE	7.62
LOG TOP	0.28
LOG BOTTOM	93.03
CASING OD	15.24
CASING BOTTOM	9.1
CASING TYPE	SURFACE
BOREHOLE FLUID	:
RM TEMPERATURE	:
MUD RES	:
WITNESSED BY	
RECORDED BY	T. BOOS
REMARKS 1	70 DEGREE ANGLE
REMARKS 2	215 DEGREE AZIMUTH

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-GAMMA RHTR 2006 - 21 10/03/06

LOG PARAMETERS

MATRIX DENSITY 2.65 MATRIX DELTA T 177
NEUTRON MATRIX SANDSTONE BIT SIZE 7.62
ELECT. CUTOFF 9500
MAGNETIC DECL. 21

1:100 CM LOG, GAMMA-GAMMA RHTR 2006 - 21 10/03/06

LOG PARAMETERS

MATRIX DENSITY 2.65 MATRIX DELTA T 177
NEUTRON MATRIX SANDSTONE BIT SIZE 7.62
ELECT. CUTOFF 9500
MAGNETIC DECL. 21

TOOL CALIBRATION RHTR 2006 - 21 10/03/06 17:22
TOOL NAME GAMMA
SERIAL NUMBER 640

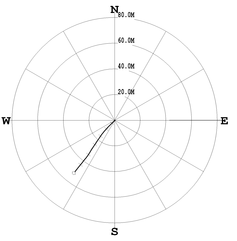
	DATE	TIME	SENSOR	STANDARD		RESPONSE
			GAMMA	Define	Actual	[CPS]
1	Mar06.02	18:22:22	GAMMA	105.000	[API-GR]	46.00

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RETR 2006 - 25
DATE OF LOG: 10/21/06
PROBE: 9055A 237

M&G DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 133.26 M
AZIMUTH: 213.7
DISTANCE: 52.0 M
* = 20 M INCR
= BOTTOM OF HOLE

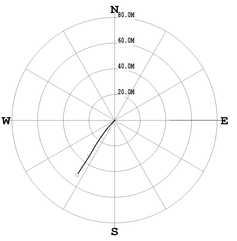


PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: RETR 2006 - 25
DATE OF LOG: 10/21/06
PROBE: 9411A 390

M&G DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 130.30 M
AZIMUTH: 214.6
DISTANCE: 51.7 M
* = 20 M INCR
= BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
RHTR 2006 - 25

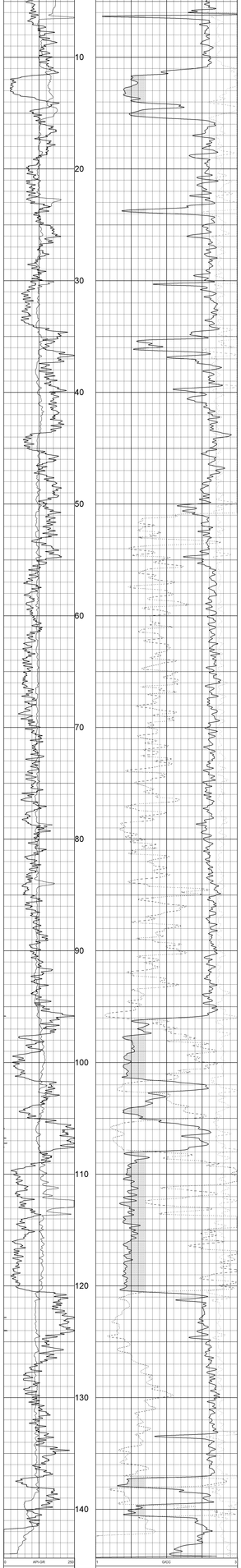
CONTRACTOR	Nova Scotia Nuclear Control Inc
WELL	RHAWN 75
FIELD	Rawdon Hills
STATE	Nova Scotia
COUNTY	Hants
SERVICE DATE	10/21/06
RUN NO.	1
DATUM	GROUND
ELEVATION	0
DRILLER'S TD	9500
LOGGER'S TD	9500
BOREHOLE FLUID	WATER
MAX. REC. TEMP.	N/A
EQUIP. NO.	5
LOCATION	8
RECORDED BY	D. CHAPMAN
WITNESSED BY	J. CHAPMAN
BIT SIZE	7.62
CASING DRILLER	N/A
CASING SIZE	N/A
CASING WEIGHT	N/A
CASING DEPTH	N/A
TUBING	N/A
TUBING DEPTH	N/A
PUMP TYPE	N/A
PUMP SIZE	N/A
PUMP DEPTH	N/A
PUMP SPEED	N/A
PRIMARY MEAS.	N/A
DATE	10/21/06
TIME	17:54:55
RUN NUMBER	1
DEPTH DRILLER	9500
DEPTH LOGGER	9500
BTM LOG INTERVAL	9500
TOP LOG INTERVAL	0
CASING - DRILLER	N/A
CASING - LOGGER	N/A
BIT SIZE	7.62
TYPE FLUID IN HOLE	WATER
DENSITY	N/A
LEVEL	FULL
MAX. REC. TEMP.	N/A
ESTIMATED CEMENT TOP	N/A
TIME CIRCULATION ENDED	N/A
TIME LOGGER ON BOTTOM	N/A
LOGGING UNIT NUMBER	5
LOGGER	D. CHAPMAN
WITNESSED BY	J. CHAPMAN
EQUIPMENT NUMBER	8
LOCATION	SUMMERVILLE
RECORDED BY	D. CHAPMAN
WITNESSED BY	J. CHAPMAN

GEOPHYSICAL DATA PRESENTED ON THIS REPORT INCLUDES THE FOLLOWING RUN(S): 1

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 25 10/21/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 9500 BIT SIZE : 7.62
PRESENTATION NAME/DATE = 8236C.0 09/17/2006 VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 25 10/21/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 9500 BIT SIZE : 7.62
PRESENTATION NAME/DATE = 8236C.0 09/17/2006 VERSION = 3.64EB

TOOL CALIBRATION: RHTR 2006 - 25 10/21/06 14:34
TOOL TYPE: 2 DENSITY, 1 RESISTIVITY
SERIAL NUMBER: 1 X 8

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13,06	17:54:55	GAMMA	Default	[CPS]	Default	[CPS]
2	Oct13,06	17:54:55	GAMMA	263.000	[API-GR]	286.00	[CPS]
3	Oct13,06	17:54:55	VOLTAGE	10.000	[MV]	10000.00	[CPS]
4	Oct13,06	10:07:04	VOLTAGE	10.000	[MV]	7999.00	[CPS]
3	Oct13,06	17:33:01	CALIPER	20.320	[INCH]	43577.00	[CPS]
4	Oct13,06	17:33:01	CALIPER	2.540	[INCH]	20125.00	[CPS]
4	Oct17,06	13:51:24	DENS.B	1.000	[G/CC]	15004.00	[CPS]
5	Oct17,06	13:51:31	DENS.B	2.500	[G/CC]	30000.00	[CPS]
5	Oct17,06	13:51:31	DENSED	1.000	[G/CC]	20007.00	[CPS]
6	Oct17,06	13:51:31	DENSED	2.383	[G/CC]	8900.00	[CPS]
6	Oct17,06	18:58:58	CALIPER	12.700	[INCH]	30000.00	[CPS]
7	Oct17,06	18:58:58	CALIPER	25.400	[INCH]	324375.00	[CPS]
7	Oct14,06	10:07:25	CURRENT	99.600	[UA]	10640.00	[CPS]
8	Oct14,06	10:07:25	CURRENT	29.900	[UA]	29988.00	[CPS]
8	Sep26,06	11:05:58	X	Default	[CPS]		

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DIPMETER
RHTR 2006 - 25

COMPANY	NORTH CANADIAN OILS LIMITED
WELL	RHTR 2006 - 25
FIELD	RHTR
COUNTY	
PROVINCE	ALBERTA
COORDINATES	10-04-040-02-W5M
LOCATION	1-04-040-02-W5M
LATITUDE	N/A
LONGITUDE	N/A
ELEVATION	N/A
APIWI	N/A
LOGGING DATE	10/21/2006
RUN NUMBER	ONE
DEPTH DRILLER	1:1:0
DEPTH LOGGER	1:1:0
BOTTOM LOG INTERVAL	1:1:0
TOP LOG INTERVAL	0
CASING SIZE	8 5/8"
CASING DEPTH	0
BIT SIZE	7 7/8"
TYPE FLUID IN HOLE	WATER
DENSITY	1.0
VISCOSITY	0
PH	0
FLUID LOSS	0
SOURCE OF SAMPLE	
RM @ MEASURED TEMP	
RMF @ MEASURED TEMP	
RMC @ MEASURED TEMP	
SOURCE RMF & RMC	
RM @ BHT	
MAX REC TEMP	
EQUIP. LOCATION	
RECORDED BY	
WITNESSED BY	
TOOL NO.	DIP-MC-1
PAD LENGTH	15.0
PAD WIDTH	2.5
CALIPER	1
DIP ANGLE	0
DIP AZIMUTH	0
DIP SCALE	10
DIP FILTER	1
CURVE SELECTION	8
RHOB/NPHI FLAG	0
RHOB/NPHI FILTER	0
DIP CALIBRATION	
MAX DIP	90
MIN DIP	0
DIP ERROR	0
DIP ERROR %	0
DIP ERROR %	0
DIP ERROR %

Century Geophysics Corporation
tel (918) 627-1817 fax (918) 627-1818
email: sales@century-geo.com
tulsa, ok 74146-3818
5729 s. yale ave.

GAMMA - CALIPER - RESISTIVITY
DENSITY - SINGLE
RHTR 2006 - 25

COMPANY	CONOCO PHILLIPS CO.
WELL	RHTR 2006 - 25
FIELD	SOUTH RHTRA
COUNTY	SUBLETTE
STATE	WYOMING
OTHER SERVICES	NONE
PERMANENT DATUM	GL
LOG MEASURED FROM	KB 10 FT ABOVE PERM. DATUM
DRILLING MEASURED FROM	KB
API SERIAL NO.	49-035-21-00-00
SECTION	25
TOWNSHIP	35N
RANGE	118W
DATE	10/21/06
RUN NO.	ONE
TYPE FLUID IN HOLE	FRESH WATER
DENSITY	8.4
VISCOSITY	26
PH	9.0
FLUID LOSS	N/A
SOURCE OF SAMPLE	PIT
RM @ MEAS. TEMP.	N/A
RMF @ MEAS. TEMP.	N/A
RMC @ MEAS. TEMP.	N/A
SOURCE RMF / RMC	
RM @ BHT	N/A
TIME CIRC. STOPPED	9:30
TIME LOGGER ON BOTTOM	14:31
MAX. REC. TEMP.	75 F
EQUIP. LOCATION	8
RECORDED BY	SCHAUB
WITNESSED BY	NONE

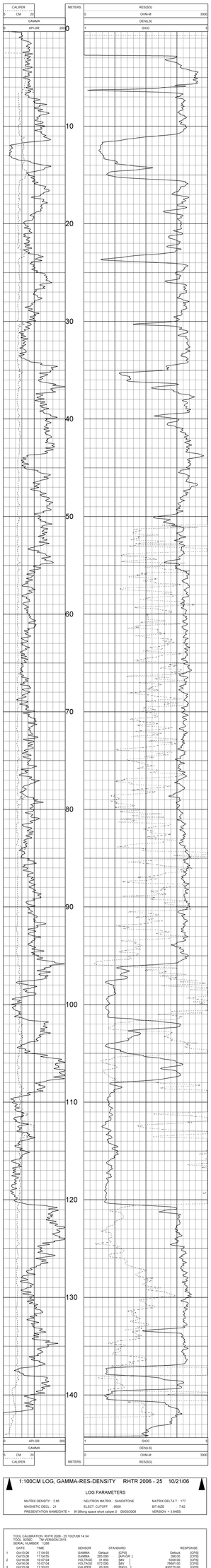
MATRIX DENSITY	2.85
MATRIX DELTA T	177
NEUTRON MATRIX	SANDSTONE
ELECT. CUTOFF	9500
BIT SIZE	7.62
PRESENTATION NAME/DATE	913Along space short cutper 2 05/03/2006
VERSION	3.54EB

REMARKS: ALL DEPTHS REFERENCED TO GROUND LEVEL UNLESS OTHERWISE NOTED

1:100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 25 10/21/06

LOG PARAMETERS

MATRIX DENSITY :	2.85	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. :	21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62
PRESENTATION NAME/DATE =	913Along space short cutper 2 05/03/2006		VERSION = 3.54EB



1:100CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 25 10/21/06

LOG PARAMETERS

MATRIX DENSITY :	2.85	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL. :	21	ELECT. CUTOFF : 9500	BIT SIZE : 7.62
PRESENTATION NAME/DATE =	913Along space short cutper 2 05/03/2006		VERSION = 3.54EB

TOOL CALIBRATION RHTR 2006 - 25 10/21/06 14:34
TOOL TYPE : DENSITY VERSION 2015
SERIAL NUMBER : 1286

	DATE	TIME	SENSOR	STANDARD			RESPONSE	
1	Oct13,06	17:54:55	GAMMA	Default	[CPS]		Default	[CPS]
	Oct13,06	17:54:55	GAMMA	283.000	[API-GR]		286.00	[CPS]
2	Oct14,06	10:07:24	VOLTAGE	8.000	[MV]		7999.00	[CPS]
	Oct14,06	10:07:24	VOLTAGE	672.000	[MV]		79991.00	[CPS]
3	Oct13,06	17:33:01	CALIPER	20.320	[INCH]		433775.00	[CPS]
	Oct13,06	17:33:01	CALIPER	2.540	[INCH]		33025.00	[CPS]
4	Oct17,06	13:51:24	DENS(S)	1.000	[G/CC]		1004.00	[CPS]
	Oct17,06	13:51:24	DENS(S)	3.393	[G/CC]		33025.00	[CPS]
5	Oct17,06	13:51:31	DENS(S)	1.000	[G/CC]		2057.00	[CPS]
	Oct17,06	13:51:31	DENS(S)	2.383	[G/CC]		8800.00	[CPS]
6	Oct17,06	13:58:58	CALIPER.	2.540	[INCH]		12000.00	[CPS]
	Oct17,06	13:58:58	CALIPER.	25.400	[INCH]		30475.00	[CPS]
7	Oct14,06	10:07:21	CURRENT	38.600	[UA]		13940.00	[CPS]
	Oct14,06	10:07:21	CURRENT	231.500	[UA]		26956.00	[CPS]
8	Sep26,06	11:05:58	X	Default	[CPS]			

Baker Hughes INTEQ

GAMMA - NEUTRON - RES

RHTR 2006 - 25

Company:	Baker Hughes INTEQ
Well:	RHTR 2006 - 25
Field:	Rhourde Chouaskem
Region:	Algeria
Country:	Algeria
Rig:	Rhourde Rouge
Date:	10/21/06
Time:	14:00
Depth:	9000
Hole Size:	8.500
Mud Type:	Water Base
Density:	9.6
Viscosity:	48
Chlorides:	0
Resistivity:	0.0
Ph:	9.5
Fluid Loss:	4.0
Sand:	0.0
Solids:	0.0
Oil:	0.0
Water:	100.0
Gas:	0.0
Temp:	0.0
Comment:	

Drilled Solids(%)

Barite(%)

Chemical(ppb)

Bentonite(ppb)

Dispersant(ppb)

Thinner(ppb)

Flocculant(ppb)

Lime(ppb)

Salt(ppb)

Calcium(ppb)

Cement(ppb)

Starch(ppb)

Soda Ash(ppb)

Bicarb Soda(ppb)

Kcl(%)

Glycol(%)

Pf/Mf

Pm/Mf

Pm/Pf

Alkalinity Mud

Alkalinity Filtrate

Hardness

Mf/Pf

Chlorides(mg/l)

Calcium(mg/l)

Magnesium(mg/l)

Potassium(mg/l)

Sulphates(mg/l)

Lime(mg/l)

Solids(%)

Sand(%)

Oil(%)

Water(%)

Gas(%)

Temp(°C)

Comment

Drilled Solids(ppb)

Barite(ppb

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GAMMA - CALIPER - RESISTIVITY
DENSITY - SONIC - PACKAGE
RHTR 2006 - 25

Date: 10/21/06	Logging Engineer:
Time: 9:00 AM - 9:00 PM	Operator:
Elevation:	Equipment Number:
Depth Datum:	Equipment Serial Number:
Depth Reference:	Equipment Type:
Permanent Datum:	Equipment Specifications:
Measured From:	
Log Measured From:	
Drilling Measured From:	
Max Temp:	
Max Time Since Circ.:	
Max Rec. Temp.:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	1
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	2
Depth Driller:	1.00
Depth Logged:	1.00
Bottom Log Interval:	1.00
Top Log Interval:	0.00
Casing Driller:	8
Casing Logged:	8
Bit Size:	7.875
Type Fluid in Hole:	FRESH
Density:	8.4
Viscosity:	28
Fluid Level:	FULL
Max Rec. Temp.:	64
Estimated Cement Top:	
Equipment Location:	1A41
Recorded By:	S.CHAMBERS
Witnessed By:	

Run Number:	3
Depth Driller:	1.00
Depth Logged:	1.00
Bottom Log Interval:	1.00
Top Log Interval:	0.00
Casing Driller:	8
Casing Logged:	8
Bit Size:	7.875
Type Fluid in Hole:	FRESH
Density:	8.4
Viscosity:	28
Fluid Level:	FULL
Max Rec. Temp.:	64
Estimated Cement Top:	
Equipment Location:	1A41
Recorded By:	S.CHAMBERS
Witnessed By:	

Run Number:	4
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	5
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	6
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	7
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	8
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	9
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	10
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	11
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	12
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	13
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	14
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	15
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	16
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	17
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	18
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	19
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	20
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	21
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	22
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	23
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	24
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	25
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

Run Number:	26
Depth Driller:	
Depth Logged:	
Bottom Log Interval:	
Top Log Interval:	
Casing Driller:	
Casing Logged:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
Fluid Level:	
Max Rec. Temp.:	
Estimated Cement Top:	
Equipment Location:	
Recorded By:	
Witnessed By:	

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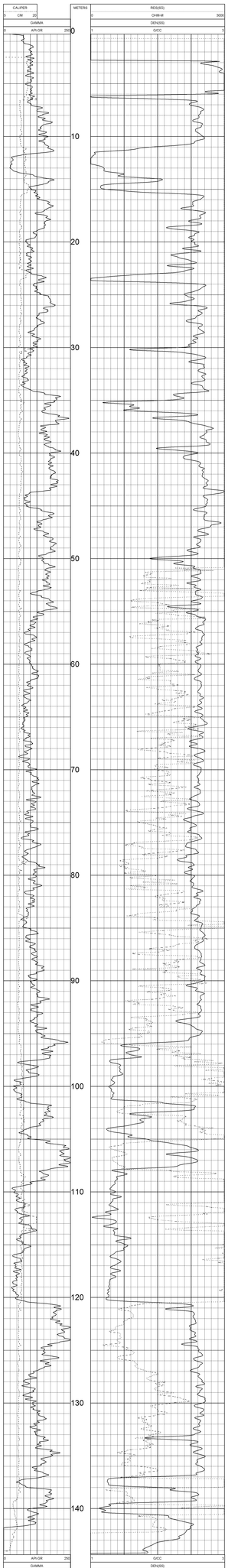
1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 25 10/21/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9900	BIT SIZE : 7.62	
PRESENTATION NAMEDATE = 913Robot space short output 2- 05/03/2006		VERSION = 3.54EB	



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 25 10/21/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 21	ELECT. CUTOFF : 9900	BIT SIZE : 7.62	
PRESENTATION NAMEDATE = 913Robot space short output 2- 05/03/2006		VERSION = 3.54EB	

TOOL CALIBRATION RHTR 2006 - 25 10/21/06 14:34
TOOL TYPE : 3.54EB VERSION 2015
SERIAL NUMBER : 1266

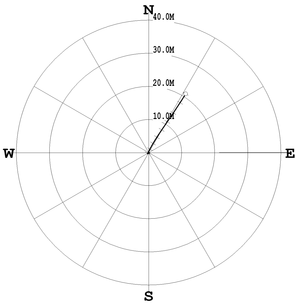
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
				Default	[CPS]	Default	[CPS]
1	Oct13,06	17:54:55	GAMMA	283.000	[API-GR]	286.00	[CPS]
2	Oct13,06	17:54:55	GAMMA	283.000	[API-GR]	286.00	[CPS]
	Oct14,06	10:01:04	VOLTAGE	672.000	[MV]	39991.00	[CPS]
3	Oct13,06	17:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
4	Oct13,06	17:33:24	CALIPER	1.540	[INCH]	10025.00	[CPS]
5	Oct13,06	13:51:24	DEN(LS)	2.383	[G/CC]	7504.00	[CPS]
	Oct17,06	13:51:24	DEN(LS)	1.000	[G/CC]	1000.00	[CPS]
	Oct17,06	13:51:31	DEN(SS)	1.000	[G/CC]	2050.00	[CPS]
	Oct17,06	13:51:31	DEN(SS)	2.383	[G/CC]	8800.00	[CPS]
6	Oct13,06	18:38:58	CALIPER(L	20.400	[INCH]	128000.00	[CPS]
	Oct13,06	18:38:58	CALIPER(L	29.400	[INCH]	304375.00	[CPS]
7	Oct14,06	10:07:25	CURRENT	98.600	[UA]	10940.00	[CPS]
	Oct14,06	10:07:25	CURRENT	251.500	[UA]	26956.00	[CPS]
8	Sep26,06	11:05:58	X	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BHTR 2006 - 01
DATE OF LOG: 10/20/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 87.73 M
AZIMUTH: 32.2
DISTANCE: 21.0 M
+ = 10 M INCR
○ = BOTTOM OF HOLE

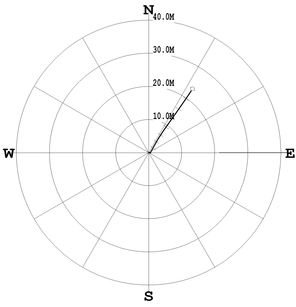


PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BHTR 2006 - 01
DATE OF LOG: 10/20/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 5 M/CM
TRUE DEPTH: 88.25 M
AZIMUTH: 34.5
DISTANCE: 23.4 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY COMPENSATED DENSITY RHTR 2006 - 01

COMPANY	ROCKY MOUNTAIN ENERGY MINING INC
WELL	RHTR 2006 - 01
FIELD	ROMAN PETE
COUNTY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
LOCATION	N/A
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
APIWELL	
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILL MEASURED FROM	GL
ELEVATION KB	N/A
ELEVATION OF DF	N/A
ELEVATION GL	N/A
OTHER SERVICES	NEUTRON GR
	DIP

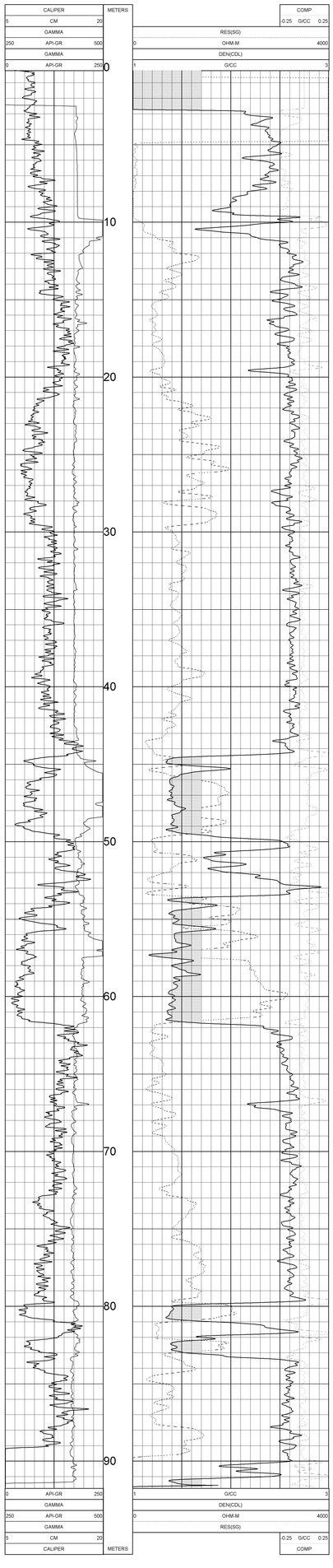
DATE	10-20-06		
DEPTH DRILLER	34.48		
BIT SIZE	7.62		
LOG TOP	0.00		
CASING BOTTOM	8.70		
CASING DD	10.34		
BOTTOM	10		
BOREHOLE FLUID			
RM TEMPERATURE			
RMF			
RMC			
RM @ MEASURED TEMP			
RMF @ MEASURED TEMP			
RMC @ MEASURED TEMP			
SOURCE RMF		SOURCE RMC	
RM @ BHT			
MAX TEMPERATURE			
EQUIPMENT			
LOGGING UNIT			
LOGGER			
VEHICLE			
RECORDED BY			
WITNESSED BY			
3D SCORE		3D SCORE AZIMUTH	
REMARKS 1			
REMARKS 2			

ALL SERVICES PROVIDED SUBJECT TO STANDARDS, TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9239C.0 09/17/2006		VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9239C.0 09/17/2006		VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 01 10/20/06 18:27
TOOL 9239C TM VERSION 2015
SERIAL NUMBER 1268

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13,06	17:54:55	GAMMA	Default	[CPS]	Default	[CPS]
	Oct13,06	17:54:55	GAMMA	283.000	[API-GR]	288.00	[CPS]
2	Oct14,06	10:07:04	VOLTAGE	31.850	[MV]	5358.00	[CPS]
	Oct14,06	10:07:04	VOLTAGE	572.000	[MV]	76681.00	[CPS]
3	Oct13,06	17:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
	Oct13,06	17:33:01	CALIPER	2.540	[INCH]	25725.00	[CPS]
4	Oct17,06	13:51:24	DEN(LS)	1.000	[G/CC]	13504.00	[CPS]
	Oct17,06	13:51:24	DEN(LS)	2.383	[G/CC]	1150.00	[CPS]
5	Oct17,06	13:51:31	DEN(SS)	1.000	[G/CC]	20587.00	[CPS]
	Oct17,06	13:51:31	DEN(SS)	2.383	[G/CC]	8900.00	[CPS]
6	Oct13,06	19:38:56	CALIPER(L)	10.160	[INCH]	129735.00	[CPS]
	Oct13,06	19:38:56	CALIPER(L)	20.400	[INCH]	304375.00	[CPS]
7	Oct14,06	10:07:25	CURRENT	99.600	[UA]	10846.00	[CPS]
	Oct14,06	10:07:25	CURRENT	291.000	[UA]	29568.00	[CPS]
8	Sep26,06	11:05:58	X	Default	[CPS]		

Century GEOPHYSICS CORP.

GAMMA - CALIPER - RESISTIVITY
DENSITY - LONG SPACE
RHTR 2006 - 01

COMPANY	CENTURY GEOPHYSICS CORP.
WELL	RHTR 2006 - 01
FIELD	ROMAN MTN
COUNTY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
LOCATION	N/A
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
APIWELL	
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILL MEASURED FROM	GL
ELEVATION KB	N/A
ELEVATION DF	N/A
ELEVATION GL	N/A
DATE	10/20/06
DEPTH-DRILLER	34.48
DEPTH-LOGGER	2.62
BIT SIZE	8.75
CASING-DRILLER	34.48
CASING-LOGGER	2.62
BTM LOG INTERVAL	34.48
TOP LOG INTERVAL	2.62
CASING SIZE	8.75
CASING WGHT	0
TYPE FLUID	AIR
DENSITY / VISC	N/A
PH / FLUID LOSS	N/A
SOURCE OF SAMPLE	
RM @ MEASURED TEMP	
RMF @ MEASURED TEMP	
RMC @ MEASURED TEMP	
SOURCE RMF / RMC	
RM @ BHT	
MAX RECORDED TEMP	
CIRCULATION STOPPED	
LOGGER ON BOTTOM	
UNIT NUMBER	1
WITNESSED BY	
RECORDED BY	
RUN NUMBER	2
TOOL NO.	9239C
DIS. TO SENSOR	8.00
DIS. TO SENSOR ANGLE	
DIS. TO SENSOR AZIMUTH	

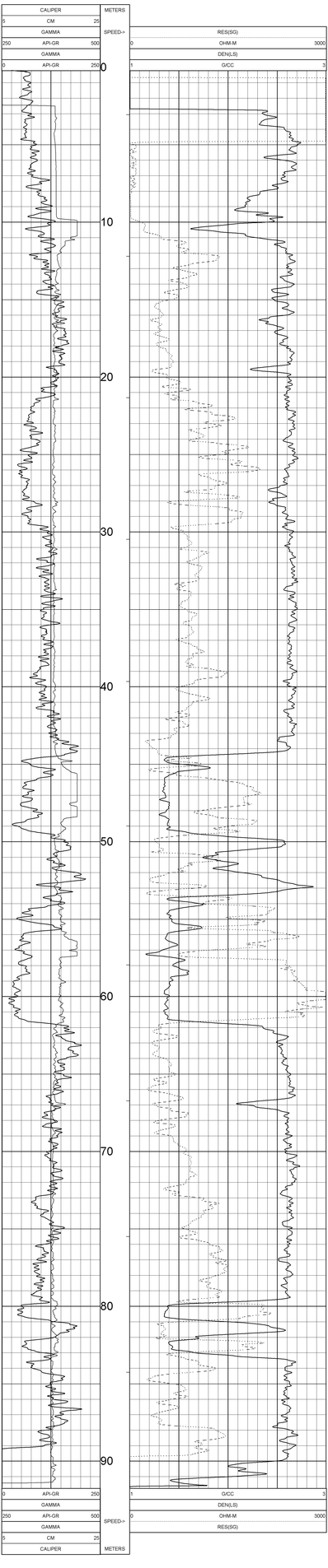
OTHER SERVICES
NEUTRON
DIP

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9138long spacesC 0 06/07/2006 VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 7.62
PRESENTATION NAME/DATE = 9138long spacesC 0 06/07/2006 VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 01 10/20/06 18:27
TOOL 9239C TM VERSION 2015
SERIAL NUMBER 1268

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13,06	17:54:55	GAMMA	Default	[CPS]	Default	[CPS]
	Oct13,06	17:54:55	GAMMA	283.000	[API-GR]	288.00	[CPS]
2	Oct14,06	10:07:04	VOLTAGE	31.850	[MV]	5358.00	[CPS]
	Oct14,06	10:07:04	VOLTAGE	572.000	[MV]	76681.00	[CPS]
3	Oct13,06	17:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
	Oct13,06	17:33:01	CALIPER	2.540	[INCH]	25725.00	[CPS]
4	Oct17,06	13:51:24	DEN(L/S)	1.000	[G/CC]	13504.00	[CPS]
	Oct17,06	13:51:24	DEN(L/S)	2.383	[G/CC]	1150.00	[CPS]
5	Oct17,06	13:51:31	DEN(SS)	1.000	[G/CC]	20587.00	[CPS]
	Oct17,06	13:51:31	DEN(SS)	2.383	[G/CC]	8900.00	[CPS]
6	Oct13,06	19:38:56	CALIPER1	10.160	[INCH]	129735.00	[CPS]
	Oct13,06	19:38:56	CALIPER1	20.400	[INCH]	304375.00	[CPS]
7	Oct14,06	10:07:25	CURRENT	99.600	[UA]	10846.00	[CPS]
	Oct14,06	10:07:25	CURRENT	291.000	[UA]	29568.00	[CPS]
8	Sep26,06	11:05:58	X	Default	[CPS]		

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GAMMA - NEUTRON - RES
RHTR 2006 - 01

COMPANY	PORTSMUTH ENERGY MINING INC
WELL	RHTR 2006 - 01
FIELD	RHTR 2006 - 01
COUNTY	THUNDER RIDGE
STATE	BRITISH COLUMBIA
DATE	
SECTION	
TOWNSHIP	N/A
RANGE	N/A
UNIQUE WELL ID	
PERMANENT DATUM	GL
LOG MEASURED FROM	ELEVATION N/A
DRILL MEASURED FROM	ELEVATION N/A
DATE	10/20/06
RUN NUMBER	ONE
DEPTH DRILLER	7.62
BIT SIZE	7.62
LOG TOP	1.29
CASING BOTTOM	15.24
CASING OD	15.24
LOGGING DISTRICT	
CASING FLUID TYPE	
BOREHOLE FLUID	SURFACE
RM TEMPERATURE	
RM @ MEASURED TEMP	
MATRIX	
MATRIX DENSITY	2.65
NEUTRON MATRIX	SANDSTONE
RECORDED BY	T. BOOS
WITNESSED BY	
RUN NUMBER	ONE
DRILLER'S TD	
LOGGER'S TD	
BOREHOLE AZIMUTH	
RUN NO.	1
360 DEGREE AZIMUTH	

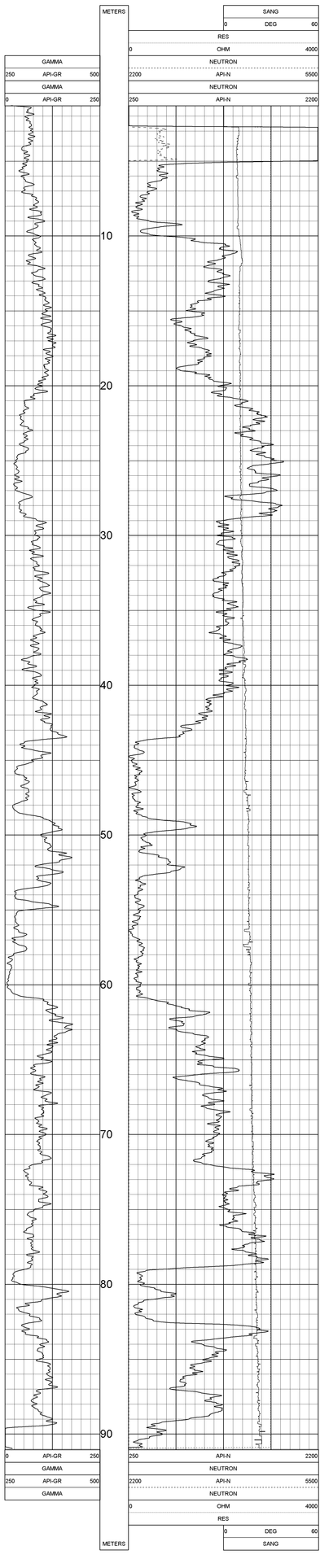
OTHER SERVICES: DIP, SONDE

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-NEUTRON-RES RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 7.62	
PRESENTATION NAME/DATE = 9055A 0 03/22/2006		VERSION = 3.64EB	



1:100 CM LOG, GAMMA-NEUTRON-RES RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 7.62	
PRESENTATION NAME/DATE = 9055A 0 03/22/2006		VERSION = 3.64EB	

TOOL CALIBRATION RHTR 2006 - 01 10/20/06 17:48
TOOL 9055A TM VERSION 1
SERIAL NUMBER 237

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	07:41:30	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Sep27,06	07:41:30	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Feb25,99	00:19:39	POROSIT	Default	[CPS]		
3	Sep27,06	07:35:47	RES	0.000	[OHM]	9615.00	[CPS]
	Sep27,06	07:35:47	RES	100.000	[OHM]	7996.00	[CPS]
4	Sep27,06	07:36:00	SP	0.000	[MV]	1.00	[CPS]
	Sep27,06	07:36:00	SP	400.000	[MV]	2935.00	[CPS]
5	Oct10,06	11:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
	Oct10,06	11:37:04	NEUTRON	Default	[CPS]	Default	[CPS]
6	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]
	Feb25,99	00:19:39	TEMP	Default	[CPS]	Default	[CPS]

Century GEOPHYSICS CORP.
century-geo.com

GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
RHTR 2006 - 01

SCHLUMBERGER

COMPANY	ROCKY NORTH ENERGY MANAG INC
WELL	RHTR 2006 - 01
FIELD	ROMAN NTH
COUNTY	TUMBLER RIDGE
PROVINCE	BRITISH COLUMBIA
LOCATION	N/A
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO.	N/A
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILL MEASURED FROM	GL
ELEVATION KB N/A	
ELEVATION OF	N/A
ELEVATION GL	N/A
DATE	10/20/06
DEPTH DRILLER	1268
DEPTH LOGGER	1266
BIT SIZE	7.62
CASING DRILLER	9.625
LOG TOP	0
LOG BOTTOM	1266
CASING OD	9.625
CASING BOTTOM	31
DENSITY MATRIX	2.65
BOREHOLE FLUID	SANDSTONE
RM TEMPERATURE	15
RM	0.370
RMF	0.370
RMC	0.370
MAX TEMPERATURE	15
RECORDED BY	
WITNESSED BY	
MAG VARIANT	
DECLINATION	
RIG	
BOOM ANGLE	
30 DEGREE AZIMUTH	
REMARKS 1	
REMARKS 2	

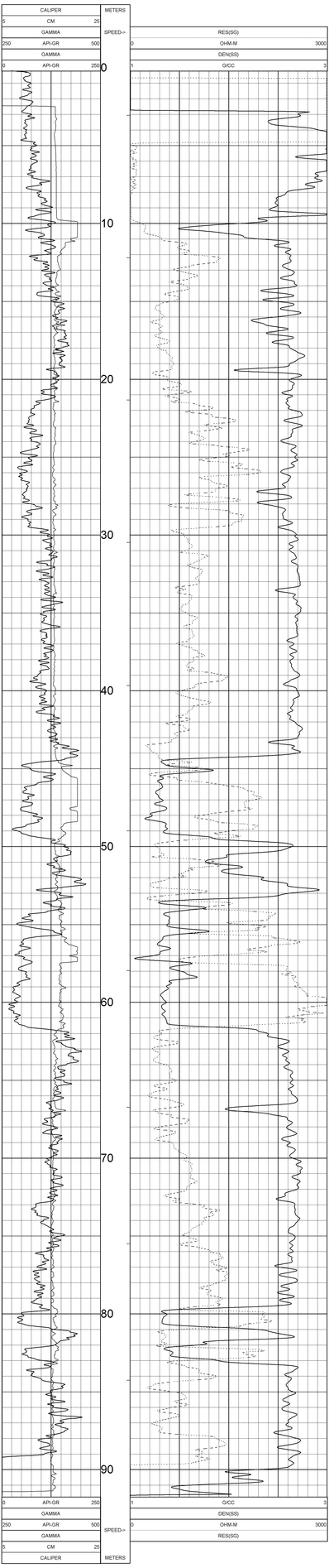
SOHER SERVICES
NORTH
DIP

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT CUTOFF : 10000	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 913ishort spaceSC.0 06/07/2006		VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY RHTR 2006 - 01 10/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT CUTOFF : 10000	BIT SIZE : 7.62
PRESENTATION NAME/DATE = 913ishort spaceSC.0 06/07/2006		VERSION = 3.64EB

TOOL CALIBRATION RHTR 2006 - 01 10/20/06 18:27
TOOL 9239C TM VERSION 2015
SERIAL NUMBER 1268

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13.06	17:54:55	GAMMA	Default	[CPS]	Default	[CPS]
	Oct13.06	17:54:55	GAMMA	283.000	[API-GR]	288.00	[CPS]
2	Oct14.06	10:07:04	VOLTAGE	31.850	[MV]	5358.00	[CPS]
	Oct14.06	10:07:04	VOLTAGE	572.000	[MV]	76681.00	[CPS]
3	Oct13.06	17:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
	Oct13.06	17:33:01	CALIPER	2.540	[INCH]	25725.00	[CPS]
4	Oct17.06	13:51:24	DEN(LS)	1.000	[G/CC]	13504.00	[CPS]
	Oct17.06	13:51:24	DEN(LS)	2.383	[G/CC]	1150.00	[CPS]
5	Oct17.06	13:51:31	DEN(SS)	1.000	[G/CC]	20587.00	[CPS]
	Oct17.06	13:51:31	DEN(SS)	2.383	[G/CC]	8900.00	[CPS]
6	Oct13.06	19:38:56	CALIPER1L	10.160	[INCH]	129735.00	[CPS]
	Oct13.06	19:38:56	CALIPER1L	20.400	[INCH]	304375.00	[CPS]
7	Oct14.06	10:07:25	CURRENT	99.600	[UA]	10846.00	[CPS]
	Oct14.06	10:07:25	CURRENT	291.000	[UA]	29568.00	[CPS]
8	Sep26.06	11:05:58	X	Default	[CPS]		

Century Geophysics

century.com

OPERATOR	ENERGY RESOURCES
FIELD	ROANN MOUNTAIN
PROPERTY	ROANN MOUNTAIN
WELL	2006-999
SECTION	
RANGE	
TOWNSHIP	
COUNTY	BRITISH COLUMBIA

GAMMA - NEUTRON - RES

RHTR2006-9999

CASING SIZE	9 5/8
CASING DEPTH	60

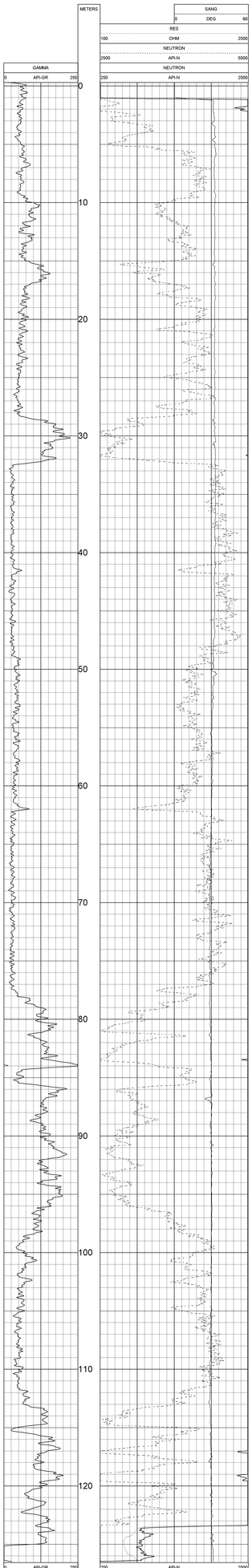
DATE STARTED	08/10/06
DATE FINISHED	08/10/06
DRILLING MEASURED FROM	KB
DEPTH DRILLER	3800.0
DEPTH LOGGER	3800.0
LOG TOP	0.0
LOG BOTTOM	3800.0
CASING SIZE	13.38
CASING DEPTH	60.0
CASING TYPE	STEEL
BIT SIZE	8.5
BIT TYPE	
MUD WEIGHT	
VISCOSITY	
MUD RES	
MUD TEMP	
MUD PH	
FLUID LOSS	
RUN NUMBER	ONE
REMARKS 1	
REMARKS 2	DRILLER SIDESTICH
REMARKS 3	
REMARKS 4	ENERGY RESOURCES BURNER 0.5 SIDEWALKS TERRA AND CONDITIONS

ELEVATION KB
ELEVATION GL
ELEVATION DF
DRILL MEASURED FROM KB
ELEVATION GL

100 CM LOG, GAMMA-NEUTRON RHTR2006-999 08/10/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 | NEUTRON MATRIX : SANDSTONE | MATRIX DELTA T : 177
MAGNETIC DECL : 21 | ELECT. CUTOFF : 50000 | BIT SIZE : 8.5



100 CM LOG, GAMMA-NEUTRON RHTR2006-999 08/10/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 | NEUTRON MATRIX : SANDSTONE | MATRIX DELTA T : 177
MAGNETIC DECL : 21 | ELECT. CUTOFF : 50000 | BIT SIZE : 8.5

TOOL CALIBRATION RHTR2006-999 08/10/06 19:17
TOOL 9056A
SERIAL NUMBER 33

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr18,06	14:59:19	GAMMA	Default	[CPS]	Default	[CPS]
	Apr18,06	13:59:19	GAMMA	Default	[CPS]	Default	[CPS]
2	Apr18,06	13:59:19	PORCGT	Default	[CPS]		
3	Apr18,06	13:59:19	RES	Default	[CPS]	Default	[CPS]
	Apr18,06	13:59:19	RES	Default	[CPS]	Default	[CPS]
4	Apr18,06	13:59:19	SP	Default	[CPS]	Default	[CPS]
	Apr18,06	13:59:19	SP	Default	[CPS]	Default	[CPS]
5	Apr18,06	13:59:19	NEUTRON	Default	[CPS]	Default	[CPS]
	Apr18,06	13:59:19	NEUTRON	Default	[CPS]	Default	[CPS]

Company	Schlumberger
Well	RTHR2006-3
Field	
County	
State	
Country	
Date	08/08/06
Time	
Run	1
Depth Reference	
Elevation	
Logging Unit	
Logging Engineer	
Operator Witness	
Comments	

Schlumberger

DIPMETER

RTHR2006-3

08/08/06 ver.6.0.1.0

Schlumberger

Dipmeter Advisor

Dip Type: Dip Azimuth

Dip Quality: Dip Azimuth Quality

Dip Azimuth Quality Limit: 0.0

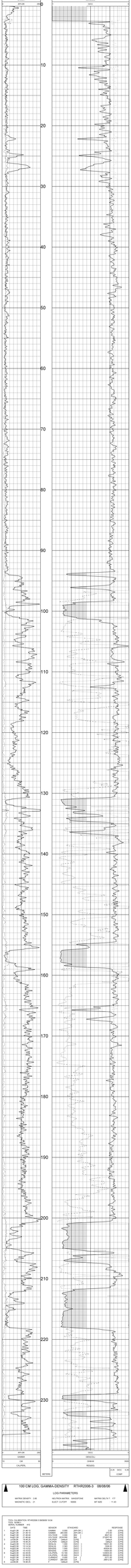
Dip Azimuth Quality Limit: 0.0

Dip Azimuth Quality Limit: 0.0

GAMMA - CALIPER - GEOMETRY COMPENSATED DENSITY

RTHR2006-3

Well	RTHR2006-3
Field	Rathburn
County	Hancock
State	Illinois
Date	08/08/06
Time	11:45
Run	1
Depth Reference	Ground Level
Elevation	0 ft
Log Measured From	Ground Level
Drilling Measured From	Ground Level
Permanent Datum	Ground Level
Elevation	0 ft
Logging Company	Mitchell Energy
Logging Engineer	Jeremy Ashcraft
Equipment	2 Inch Logging Unit
Truck	2 Inch Logging Unit
Comments	Gamma, Caliper, Density, Geometry Compensated Density



TOOL CALIBRATION: RTHR2006-3 DENSITY 18.54
TOOL NUMBER: 413
LOG DATE: 08/08/06

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug01,06	07:46:00	GAMMA	API UNIT 0	0.00 [LOW]
2	Aug01,06	07:46:00	GAMMA	API UNIT 200	212.00 [LOW]
3	Aug01,06	07:46:00	CALIPER	6 INCHES	6.00 [LOW]
4	Aug01,06	07:46:00	CALIPER	16 INCHES	16.00 [LOW]
5	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
6	Aug01,06	07:46:00	CALIPER	Manual	10.84 [LOW]
7	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
8	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
9	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
10	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
11	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
12	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
13	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
14	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
15	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
16	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
17	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
18	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
19	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]
20	Aug01,06	07:46:00	DENSITY	2.65 GM/CC	2.65 [LOW]

```
* * * * * * * * * COMPUTED VERTICAL DEFLECTION * * * * * * * * *

PROJECT NAME :                                   DATE OF RUN : 09/09/2014
PROJECT NUMBER : 2014-0001                       RUN BY : MARTIN
TEST DATE :                                      DIRECTION : 1
TEST SPECIMEN : 12.0X0                           SPAN DEPTH : 9 METERS
                                                 SPAN WIDTH : 9 METERS
                                                                                  Page 1
TEST SETUP : SIMPLE SPAN, STATIC, WITH 1 POINT LOAD AT MIDSPAN
```

TIME (SECS)	DEFL (MM)	DEFL (MM)	DEFL (MM)	DEFL (MM)	LOAD (KN)	DEFLECTION	TEMP1	TEMP2
0.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
1.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
2.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
3.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
4.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
5.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
6.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
7.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
8.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
9.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
10.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
11.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
12.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
13.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
14.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
15.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
16.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
17.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
18.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
19.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
20.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
21.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
22.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
23.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
24.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
25.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
26.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
27.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
28.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
29.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
30.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
31.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
32.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
33.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
34.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
35.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
36.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
37.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
38.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
39.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
40.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
41.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
42.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
43.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
44.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
45.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
46.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
47.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
48.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
49.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
50.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
51.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
52.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
53.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
54.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
55.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
56.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
57.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
58.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
59.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
60.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
61.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
62.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
63.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
64.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
65.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
66.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
67.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
68.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
69.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
70.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
71.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
72.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
73.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
74.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
75.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
76.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
77.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
78.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
79.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
80.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
81.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
82.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
83.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
84.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
85.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
86.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
87.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
88.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
89.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
90.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
91.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
92.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
93.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
94.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
95.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
96.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
97.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
98.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
99.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0
100.0	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.0

```
* * * * * * * COMPOSITE * VERTICAL DEFLECTION * * * * * *

PROJECT 0000000
PLANT NAME:A - 1 PLANT                                  DATE 07-Nov-1 DEVICE:0
PROBE NAME:                                             DATE 07-Nov-1 OPERATOR:
MEAS. MODE:                                             DATE 00-00-0 PAGE:   1
PROBE SPECIFICATION:  .25-100                           DATE 00-00-0 METER:
VERTICAL DEFLECTION, STATIC MEASUREMENT, ALL DATA ARE IN MICRONS
```

DATE	TIME	TEMP	RH	MEAS. DEV.	STATIC	DEVIATION	MEAS.	DEVIATION
11-Jul	12:00	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:01	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:02	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:03	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:04	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:05	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:06	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:07	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:08	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:09	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:10	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:11	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:12	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:13	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:14	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:15	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:16	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:17	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:18	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:19	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:20	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:21	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:22	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:23	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:24	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:25	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:26	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:27	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:28	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:29	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:30	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:31	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:32	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:33	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:34	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:35	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:36	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:37	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:38	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:39	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:40	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:41	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:42	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:43	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:44	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:45	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:46	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:47	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:48	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:49	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:50	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:51	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:52	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:53	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:54	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:55	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:56	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:57	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:58	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	12:59	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:00	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:01	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:02	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:03	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:04	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:05	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:06	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:07	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:08	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:09	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:10	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:11	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:12	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:13	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:14	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:15	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:16	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:17	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:18	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:19	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:20	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:21	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:22	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:23	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:24	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:25	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:26	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:27	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:28	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:29	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:30	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:31	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:32	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:33	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:34	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:35	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:36	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:37	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:38	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:39	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:40	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:41	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:42	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:43	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:44	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:45	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:46	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:47	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:48	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:49	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:50	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:51	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:52	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:53	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:54	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:55	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:56	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:57	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:58	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	13:59	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:00	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:01	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:02	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:03	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:04	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:05	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:06	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:07	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:08	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:09	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:10	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:11	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:12	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:13	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:14	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:15	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:16	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:17	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:18	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:19	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:20	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:21	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:22	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:23	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:24	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:25	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:26	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:27	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:28	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:29	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:30	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:31	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:32	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:33	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:34	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:35	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:36	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:37	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:38	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:39	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:40	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:41	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:42	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:43	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:44	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:45	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:46	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:47	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:48	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:49	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:50	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:51	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:52	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:53	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:54	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:55	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:56	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:57	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:58	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	14:59	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:00	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:01	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:02	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:03	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:04	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:05	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:06	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:07	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:08	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:09	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:10	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:11	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:12	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:13	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:14	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:15	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:16	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:17	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:18	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:19	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:20	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:21	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:22	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:23	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:24	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:25	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:26	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:27	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:28	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:29	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:30	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:31	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:32	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:33	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:34	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:35	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:36	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:37	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:38	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:39	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:40	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:41	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:42	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:43	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:44	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:45	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:46	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:47	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:48	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:49	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:50	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:51	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:52	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:53	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:54	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:55	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:56	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:57	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:58	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	15:59	72.0	48.0	+00.000	0.0	100.0	0.0	100.0
11-Jul	16:00	72.0	48.0	+00.000	0.0	100.0	0.0	100.0

```
* * * * * * * * COMPUTER= VERTICAL ORIENTED * * * * * * * *

PROJECT NAME = TEST                                 DATE = 1/ 1/ 0
PROJECT NUMBER = 0                                  NAME OF RUN = DEFAULT
MAX. ACCEL. = 1.00 G                                DATA SAMPLE RATE = 50
MAX. DATA                                           DATA SAMPLE = DEFAULT
DATA SAMPLE = 1.00 SECS                             DATA SAMPLE = DEFAULT
DATA SAMPLE = 1.00 SECS

 TIME  DEFLECTION  TEMP CENTER  TEMP OUTER  TEMP MID.  MAXT.DIF.  LOAD CELL  DEFLECTION  TEMPC  TEMPOC
 0.00      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.02      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.04      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.06      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.08      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.10      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.12      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.14      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.16      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.18      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.20      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.22      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.24      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.26      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.28      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.30      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.32      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.34      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.36      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.38      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.40      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.42      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.44      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.46      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.48      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.50      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.52      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.54      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.56      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.58      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.60      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.62      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.64      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.66      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.68      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.70      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.72      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.74      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.76      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.78      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.80      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.82      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.84      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.86      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.88      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.90      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.92      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.94      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.96      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 0.98      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
 1.00      0.00       0.00        0.00       0.00       0.00       0.00       0.00       0.0    0.0
```

Company	Mobil Oil Corporation
Well	Rathbone Hill 2
Field	Rathbone Hill
County	Sublette
State	Wyoming
Other Services	Dipmeter
Date	08/08/06
Run No.	3
Depth Driller	10,000
Depth Logger	10,000
Bottom Log Interval	9,996
Top Log Interval	2,000
Casing Driller	9 5/8 @ 2,000
Casing Logger	9 5/8 @ 2,000
Bit Size	8 1/2
Type Fluid in Hole	Water Gel
Density	9.2
Viscosity	40
Fluid Loss	8.0
Source of Sample	Flowline
Rm @ Meas. Temp.	0.0 @ 0
Rmf @ Meas. Temp.	0.0 @ 0
Rmc @ Meas. Temp.	0.0 @ 0
Source Rmf / Rmc	Calculated / Calculated
Rm @ BHT	0.0 @ 0
Time Since Circulation	0
Time Since Last Log	0
Max. Rec. Temp.	0
Equipment Location	Pinedale / Rock Springs
Recorded By	Jim Ryan / Jim Ryan
Witnessed By	Mr. Jim Ryan

Schlumberger

DIPMETER

RTHR2006-3

Mobil Oil Corporation

Rathbone Hill 2

Rathbone Hill

Sublette

Wyoming

Other Services: Dipmeter

Date: 08/08/06

Run No.: 3

Depth Driller: 10,000

Depth Logger: 10,000

Bottom Log Interval: 9,996

Top Log Interval: 2,000

Casing Driller: 9 5/8 @ 2,000

Casing Logger: 9 5/8 @ 2,000

Bit Size: 8 1/2

Type Fluid in Hole: Water Gel

Density: 9.2

Viscosity: 40

Fluid Loss: 8.0

Source of Sample: Flowline

Rm @ Meas. Temp.: 0.0 @ 0

Rmf @ Meas. Temp.: 0.0 @ 0

Rmc @ Meas. Temp.: 0.0 @ 0

Source Rmf / Rmc: Calculated / Calculated

Rm @ BHT: 0.0 @ 0

Time Since Circulation: 0

Time Since Last Log: 0

Max. Rec. Temp.: 0

Equipment Location: Pinedale / Rock Springs

Recorded By: Jim Ryan / Jim Ryan

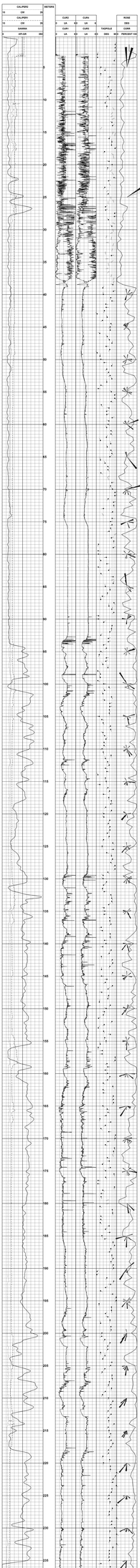
Witnessed By: Mr. Jim Ryan

100 CM LOG, DIPMETER RTHR2006-3 08/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 HELITCH-WATTS SENSOR/TOOL MATRIX DELTA-T : 177

MAGNETIC DECL. : 21 SELECT CUTOFF : 50000 INT SIZE : 11.40



100 CM LOG, DIPMETER RTHR2006-3 08/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 HELITCH-WATTS SENSOR/TOOL MATRIX DELTA-T : 177

MAGNETIC DECL. : 21 SELECT CUTOFF : 50000 INT SIZE : 11.40

TOOL CALIBRATION: RTHR2006-3 SESSION 10-01
TOOL: 3412A
TOOL SERIAL NUMBER: 380

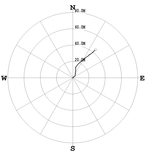
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	JUL27,06	10:46:12	GAMMA	Default	[GPA]	Default	[GPA]
2	Aug02,06	14:21:00	HELITCH-WATTS	50000.00	[DEG]	50000.00	[DEG]
3	Aug02,06	14:21:00	VOLTAGE	24.000	[V]	100.00	[V]
4	Aug02,06	14:21:00	COLTAG	384.000	[DV]	0000.00	[DV]
5	Aug02,06	14:21:00	CURI	0.000	[DA]	0.000	[DA]
6	Aug02,06	14:21:00	CURO	0.000	[DA]	0.000	[DA]
7	Aug02,06	16:07:00	CURI	0.000	[DA]	100.00	[DA]
8	Aug02,06	16:07:00	CURO	0.000	[DA]	100.00	[DA]
9	Aug02,06	16:07:00	CURI	0.000	[DA]	200.00	[DA]
10	Aug02,06	16:07:00	CURO	0.000	[DA]	200.00	[DA]
11	Aug02,06	17:08:08	CURI	0.000	[DA]	100.00	[DA]
12	Aug02,06	17:08:08	CURO	0.000	[DA]	100.00	[DA]
13	Aug02,06	17:08:08	CURI	0.000	[DA]	200.00	[DA]
14	Aug02,06	17:08:08	CURO	0.000	[DA]	200.00	[DA]
15	Aug02,06	17:08:08	CALIPER	10.000	[CM]	10.000	[CM]
16	Aug02,06	17:08:08	GAMMA	0.000	[API]	0.000	[API]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: MOMC
LOCATION: BONER MONTACH
RIG: CANRIG 1000
DATE OF RUN: 08/08/94
DATE OF LOG: 08/08/94
PROBE: 5411A 390

MAG DECL: 21.0

SCALE: 10 M/CM
TRUE DEPTH: 149.77 M
MAX DEVIATION:
DISTANCE: 64.7 M
+ = 20 M INCH
- = BOTTOM OF HOLE



Baker Hughes Gamma

GAMMA - CALIPER - RESISTIVITY
DENSITY - LONG SPACE

RTHR2006-3

Date: 06/08/06
Time: 08:00
Depth: 0 - 250

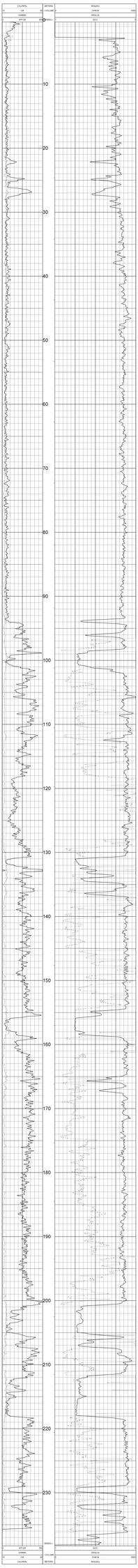
Company: Baker Hughes Gamma
Well: RTHR2006-3
Field: Rutherford
County: Rutherford
State: Tennessee
Country: USA
Latitude: 35.8 N
Longitude: 86.4 W
Elevation: 0 ft
Log Date: 06/08/06
Log Time: 08:00
Run Number: 1
Depth Reference: Ground Level
Log Measured From: Ground Level
Permanent Datum: Ground Level
Drilling Measured From: Ground Level
Elevation: Kelly Bushing: N/A ft
Elevation: Ground Level: N/A ft
Elevation: Casing Flange: N/A ft
Total Depth Driller: 250 ft
Total Depth Logger: 250 ft
Bottom Log Interval: 250 ft
Top Log Interval: 0 ft
Casing Driller Size: N/A in
Casing Logger Size: N/A in
Bit Size: N/A in
Type Fluid in Hole: Air
Density: N/A lb/gal
Viscosity: N/A cp
Fluid Level: N/A ft
Max Rec Temp: N/A deg F
Equipment: 3000 Series
Operator: Bob Hoffman
Witnessed By: Bob Hoffman

Gamma Source: Cs137 Serial Number: 3000-1
Density Source: Cs137 Serial Number: 3000-1
Density Detector Serial Number: 3000-1
Density Detector Type: Long Spacer
Density Detector Spacing: 15 in
Density Detector Window: 0.125 in
Density Detector Window Material: Beryllium
Density Detector Window Area: 0.0 in2
Density Detector Window Correction: 0.0 g/cm3
Density Detector Window Correction Method: Fixed
Density Detector Window Correction Source: Fixed
Density Detector Window Correction Date: 06/08/06
Density Detector Window Correction Time: 08:00
Density Detector Window Correction Depth: 0 ft
Density Detector Window Correction Run Number: 1
Density Detector Window Correction Operator: Bob Hoffman
Density Detector Window Correction Witnessed By: Bob Hoffman

100 CM LOG, LS DENSITY RTHR2006-3 06/08/06

LOG PARAMETERS

MATRIX DENSITY	2.65	VELOCITY MATRIX	19000 FT/M	MATRIX DELTA T	0 FT
MAGNETIC DECL	0	VELOCITY CUTOFF	10000	MF MODE	1 F-40



100 CM LOG, LS DENSITY RTHR2006-3 06/08/06

LOG PARAMETERS

MATRIX DENSITY	2.65	VELOCITY MATRIX	19000 FT/M	MATRIX DELTA T	0 FT
MAGNETIC DECL	0	VELOCITY CUTOFF	10000	MF MODE	1 F-40

TOOL CALIBRATION: RTHR2006-3 06/08/06 16:04
Tool Type: Gamma
Serial Number: 410

Date	Time	SENSOR	STANDARD	RESPONSE
Aug01-06	08:46:10	GAMMA 0.000	API UR 0	0.00 [CPS]
Aug01-06	21:46:10	GAMMA 243.000	API UR 0	243.00 [CPS]
Aug02-06	08:46:10	GAMMA 243.000	API UR 0	243.00 [CPS]
Aug02-06	21:46:10	CALIPER Value	CM 0	0.000 [CM]
Aug03-06	08:46:10	CALIPER Value	CM 0	0.000 [CM]
Aug03-06	21:46:10	CALIPER Value	CM 0	0.000 [CM]
Aug04-06	08:46:10	CALIPER Value	CM 0	0.000 [CM]
Aug04-06	21:46:10	CALIPER Value	CM 0	0.000 [CM]
Aug05-06	08:46:10	DENSITY 2.380	RDCH 0	1500.00 [CPS]
Aug05-06	21:46:10	DENSITY 2.380	RDCH 0	1500.00 [CPS]
Aug06-06	08:46:10	DENSITY 2.380	RDCH 0	1500.00 [CPS]
Aug06-06	21:46:10	DENSITY 2.380	RDCH 0	1500.00 [CPS]
Aug07-06	08:46:10	DENSITY 2.380	RDCH 0	1500.00 [CPS]
Aug07-06	21:46:10	DENSITY 2.380	RDCH 0	1500.00 [CPS]
Aug08-06	08:46:10	DENSITY 2.380	RDCH 0	1500.00 [CPS]

Baker Hughes Gamma

GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE

RTHR2006-3

Date	
Time	
Depth	
Speed	
Gamma	
Caliper	
Resistivity	
Density	
Short Space	
Density Cor.	
Pe	
Mud Density	
Mud Viscosity	
Mud Resistivity	
Mud Temperature	
Max Temp.	
Rig	
Operator	
Logging Engineer	
Witnessed By	
Comments	

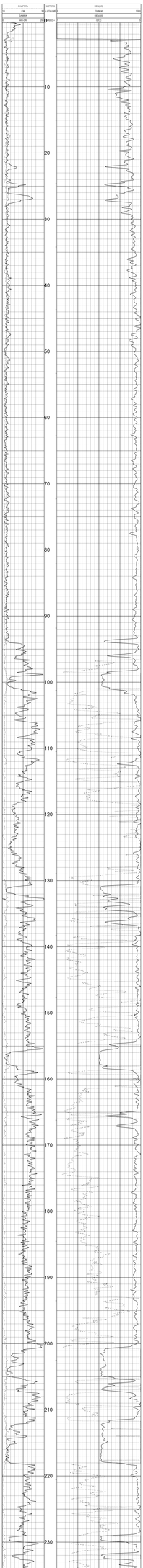
Gamma Ray Detector: 2x2 NaI Scintillation Crystal
Density Detector: 2x2 NaI Scintillation Crystal
Resistivity Sensor: Induction Type
Density Source: Cs137 Source

100 CM LOG, SS DENSITY RTHR2006-3 08/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 VELOCITY CUTOFF : 10000 MATRIX DELTA T : 0 IT
MAGNETIC DECL : 21 VELOCITY CUTOFF : 10000 MATRIX DELTA T : 0 IT

CAL/PEN.	METERS	RESISTIVITY	
CM	1:10 LINE	OHM-M	1000
GAMMA		DENSITY	
API/GR	200	G/CC	0



API/GR	200	G/CC	0
CM	1:10 LINE	OHM-M	1000
CAL/PEN.	METERS	RESISTIVITY	

100 CM LOG, SS DENSITY RTHR2006-3 08/08/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 VELOCITY CUTOFF : 10000 MATRIX DELTA T : 0 IT
MAGNETIC DECL : 21 VELOCITY CUTOFF : 10000 MATRIX DELTA T : 0 IT

TOOL CALIBRATION : RTHR2006-3 08/08/06 18:34
TOOL TYPE : 2
SERIAL NUMBER : 872

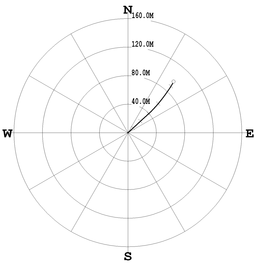
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
A	Aug01.06	21:48:10	GAMMA	0.000	API GR	0.0	[CPS]
B	Aug01.06	21:48:10	GAMMA	240.000	API GR	203.00	[CPS]
C	Aug01.06	21:48:10	CALIPER	0.000	INCH	0.000	[CPS]
D	Aug01.06	21:48:10	CALIPER	12.000	INCH	11.997	[CPS]
E	Aug01.06	21:48:10	CALIPER	0.000	MM	0.000	[CPS]
F	Aug01.06	21:48:10	CALIPER	304.800	MM	304.80	[CPS]
G	Aug01.06	21:48:10	DENSITY	0.000	G/CC	0.000	[CPS]
H	Aug01.06	21:48:10	DENSITY	2.500	G/CC	2.500	[CPS]
I	Aug01.06	21:48:10	DENSITY	0.000	G/CC	1000.00	[CPS]
J	Aug01.06	21:48:10	DENSITY	2.500	G/CC	1000.00	[CPS]
K	Aug01.06	21:48:10	DENSITY	0.000	G/CC	1000.00	[CPS]
L	Aug01.06	21:48:10	DENSITY	2.500	G/CC	1000.00	[CPS]
M	Aug01.06	21:48:10	CURRENT	0.000	AMPS	0.000	[CPS]
N	Aug01.06	21:48:10	CURRENT	0.000	AMPS	0.000	[CPS]
O	Aug01.06	21:48:10	CURRENT	0.000	AMPS	0.000	[CPS]
P	Aug01.06	21:48:10	CURRENT	0.000	AMPS	0.000	[CPS]
Q	Aug01.06	21:48:10	CURRENT	0.000	AMPS	0.000	[CPS]
R	Aug01.06	21:48:10	CURRENT	0.000	AMPS	0.000	[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN MTN
HOLE ID: RBTR2006-7
DATE OF LOG: 08/18/06
PROBE: 9056A 33

MAG DECL: 21.0

SCALE: 20 M/CM
TRUE DEPTH: 260.97 M
AZIMUTH: 41.8
DISTANCE: 96.0 M
+ = 50 M INCR
◇ = BOTTOM OF HOLE

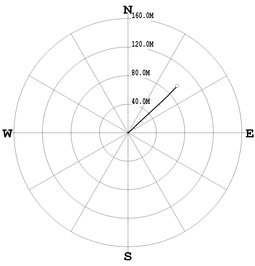


PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN MTN
HOLE ID: RTHR2004-7
DATE OF LOG: 08/19/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 20 M/CM
TRUE DEPTH: 261.18 M
AZIMUTH: 46.5
DISTANCE: 95.3 M
+ = 50 M INCR
◇ = BOTTOM OF HOLE

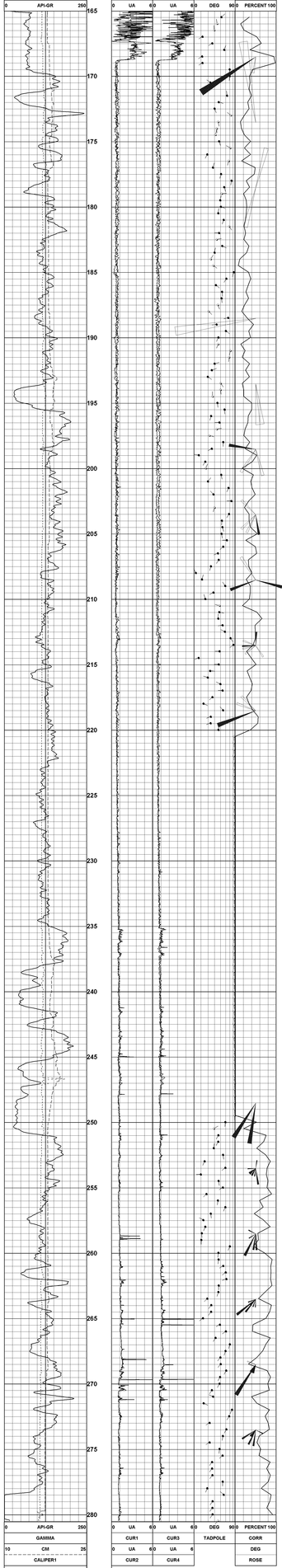


COMPANY	ARCO	century geophysical corp.	DIPMETER
WELL	RTHR2006-7		RTHR2006-7
FIELD	RUTHERFORD		
COUNTY	THUNDER RIDGE		
STATE	UT		
LOCATION			
SECTION			
TOWNSHIP			
RANGE			
OTHER SERVICES			
DATE	08/19/06		
RUN NO.	ONE		
DEPTH-DRILLER	3945		
DEPTH-LOGGER	3946		
BTM LOG INTERVAL	3946		
TOP LOG INTERVAL	300.00		
CASING-DRILLER	8.5		
CASING-LOGGER	0		
BIT SIZE	11.43		
TYPE FLUID IN HOLE	WATER		
DENSITY / VISC	8.5		
PH / FLUID LOSS	10.5		
SOURCE OF SAMPLE	PIT		
RM @ MEASURED TEMP	0.6		
RMF @ MEASURED TEMP	0.5		
RMC @ MEASURED TEMP	0.8		
SOURCE: RMF / RMC	MEASURED / CALCULATED		
RM @ BHT	0.3		
TIME CIRC. STOPPED	08:00		
TIME LOGGER ON BOTTOM	09:26		
MAX REC. TEMP.	1000		
EQUIP. LOCATION	1000		
RECORDED BY	R. SUMNER		
WITNESSED BY	60 DEG RAGLE		
REMARKS 1	1) ERROR CORRECTED CALIBRATION CONDITIONS		
REMARKS 2			
REMARKS 3			
ELEVATION KB			
ELEVATION DF			
ELEVATION GL			

100CM LOG, DIPMETER RTHR2006-7 08/19/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.000	ELECT. CUTOFF : 99999	BIT SIZE : 11.43
PRESENTATION NAME/DATE = dipmcurrent-300.0 09/27/2006		VERSION = 3.64EA



100CM LOG, DIPMETER RTHR2006-7 08/19/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.000	ELECT. CUTOFF : 99999	BIT SIZE : 11.43
PRESENTATION NAME/DATE = dipmcurrent-300.0 09/27/2006		VERSION = 3.64EA

TOOL CALIBRATION RTHR2006-7 08/19/06 15:48
TOOL 8411A TM VERSION 1
SERIAL NUMBER 390

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Jul27,06	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
	Jul27,06	10:45:12	GAMMA	Default	[CPS]	Default	[CPS]
2	Aug02,06	09:21:29	VOLTAG	104.800	[MV]	720.00	[CPS]
	Aug02,06	09:21:29	VOLTAG	350.700	[MV]	2360.00	[CPS]
3	Aug02,06	10:37:25	CUR1	4.213	[UA]	7856.00	[CPS]
	Aug02,06	10:37:25	CUR1	0.000	[UA]	80.00	[CPS]
4	Aug02,06	09:27:32	CUR2	4.177	[UA]	7910.00	[CPS]
	Aug02,06	09:27:32	CUR2	0.000	[UA]	100.00	[CPS]
5	Aug02,06	09:24:02	CUR3	4.260	[UA]	7900.00	[CPS]
	Aug02,06	09:24:02	CUR3	0.000	[UA]	140.00	[CPS]
6	Aug02,06	09:26:09	CUR4	4.270	[UA]	7860.00	[CPS]
	Aug02,06	09:26:09	CUR4	0.000	[UA]	180.00	[CPS]
	Feb18,06	10:59:53	CALIPER	15.240	[INCH]	9145.00	[CPS]
	Feb18,06	10:59:53	CALIPER	30.480	[INCH]	2200.00	[CPS]

Company	Geotech Holdings Ltd
Well	RTHR2006-8
Field	Rotherham
County	Saskatchewan
State	Saskatchewan
Country	Canada
Other Services	Gamma Density, Neutron, Caliper
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	Kelly Bushing: 0 m
Elevation	Ground Level: 0 m
Date	08/19/06
Run Number	One
Depth Driller	230 m
Depth Logger	230 m
Bottom Logged Interval	230 m
Top Logged Interval	0 m
Casing Driller	0 m @ 0 m
Casing Logger	0 m
Bit Size	0 mm
Type Fluid in Hole	Air
Density	kg/m³
Viscosity	mPa.s
Fluid Loss	cc
Source of Sample	Air
Rm @ Measured Temp	ohm.m @ 0 °C
Rmf @ Measured Temp	ohm.m @ 0 °C
Rmc @ Measured Temp	ohm.m @ 0 °C
Source Rmf / Rmc	Calculated / Calculated
Rm @ BHT	ohm.m @ 0 °C
Time Since Circulation	0 hrs
Max Recorded Temp	0 °C
Equipment Number	Geotech 8
Location	Geotech 8
Recorded By	Geotech 8
Witnessed By	Geotech 8

GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
RTHR2006-8

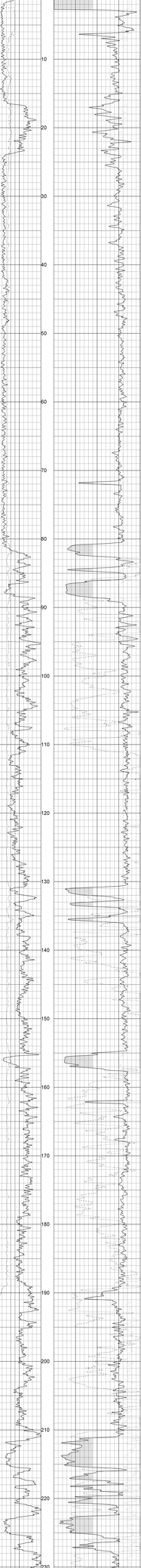
Mining Geophysics

Geotech Holdings Ltd
Suite 1000 - 1055 West Hastings Street
Vancouver, British Columbia, V6E 2E9, Canada
Tel: 604-687-2038 Fax: 604-687-1799
Email: info@mdi.ca Web: www.mdi.ca

100CM LOG, GAMMA-RES-DENSITY RTHR2006-8 08/19/06

LOG PARAMETERS

WATER DENSITY - 2.65	NEUTRON MATRIX - SANDSTONE	WATER DELTA T - 177	
MAGNETIC DECL. - 0	SUCT CUTOFF - 0MMB	MT SIZE - 11.45	
PRESENTATION NAMEOFFS + - 0CMC 0 - 0MCMSDM			



LOG PARAMETERS

WATER DENSITY - 2.65	NEUTRON MATRIX - SANDSTONE	WATER DELTA T - 177	
MAGNETIC DECL. - 0	SUCT CUTOFF - 0MMB	MT SIZE - 11.45	
PRESENTATION NAMEOFFS + - 0CMC 0 - 0MCMSDM			

100CM LOG, GAMMA-RES-DENSITY RTHR2006-8 08/19/06

TOOL CALIBRATION: RTHR2006-8 08/19/06 10:38
TOOL NAME: MT SERIAL#: 2015
TOOL SERIAL NUMBER: MT SERIAL#: 2015

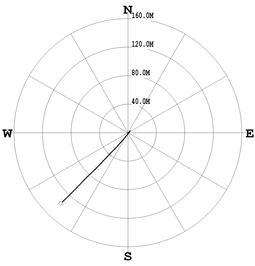
	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug07,06	14:48:10	GAMMA	0 API	0.0 API [OK]
2	Aug07,06	14:48:10	DENSITY	2.65 G/CC	2.65 G/CC [OK]
3	Aug07,06	14:48:10	NEUTRON	0 PU	0.0 PU [OK]
4	Aug07,06	14:48:10	CALIPER	0 CM	0.0 CM [OK]
5	Aug07,06	14:48:10	CALIPER	10 CM	10.0 CM [OK]
6	Aug07,06	14:48:10	CALIPER	20 CM	20.0 CM [OK]
7	Aug07,06	14:48:10	CALIPER	30 CM	30.0 CM [OK]
8	Aug07,06	14:48:10	DENSITY	2.65 G/CC	2.65 G/CC [OK]
9	Aug07,06	14:48:10	DENSITY	3.25 G/CC	3.25 G/CC [OK]
10	Aug07,06	14:48:10	DENSITY	0.25 G/CC	0.25 G/CC [OK]
11	Aug07,06	14:48:10	DENSITY	2.65 G/CC	2.65 G/CC [OK]
12	Aug07,06	14:48:10	COMPENSATION	0.25 G/CC	0.25 G/CC [OK]
13	Aug07,06	14:48:10	COMPENSATION	0.25 G/CC	0.25 G/CC [OK]
14	Aug07,06	14:48:10	COMPENSATION	0.25 G/CC	0.25 G/CC [OK]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN MTN
HOLE ID: RTHR2004-8
DATE OF LOG: 08/19/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 20 M/CM
TRUE DEPTH: 183.79 M
AZIMUTH: 223.6
DISTANCE: 136.8 M
+ = 20 M INCR
◇ = BOTTOM OF HOLE



Company	Antrim Energy Inc.
Well	RTHR2006-8
Field	Rathlin Island
County	Antrim
State	Northern Ireland
Country	United Kingdom
Other	
Date	08/19/06
Time	
Depth Unit	Metres
Log Type	Gamma Ray - Density
Log Date	08/19/06
Log Time	
Run Number	1
Depth Reference	Ground Level
Elevation	
Permanent Datum	Ground Level
Log Measured From	Ground Level
Drilling Measured From	Ground Level
Elevation	
Kelly Bushing	
Ground Level	
Casing Driller	
Casing Logger	
Bottom Log Interval	
Top Log Interval	
Casing Size	
Casing Weight	
Casing Type	
Bit Size	
Type Fluid	
Density	
Viscosity	
Fluid Loss	
Max Rec Temp	
Equipment	
Recorded By	
Witnessed By	

Gamma - Density - Resistivity
CORRELATED DENSITY
RTHR2006-8

Antrim Energy plc

Geophysical Services
Sandy Lane
Cheltenham
Gloucestershire
GL51 9RJ
United Kingdom
Tel: +44 (0) 1242 241 000
Fax: +44 (0) 1242 241 001
www.weatherfordlabs.com

Weatherford Laboratories

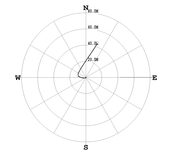
Weatherford Laboratories
Gamma Ray - Density - Resistivity
Correlated Density
Antrim Energy plc
Rathlin Island
Antrim
Northern Ireland
Ground Level
Ground Level
Ground Level
Ground Level
Metres
Metres
Metres

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: MOBIL
LOCATION: SHAW BOTTOM
RIGS ID: SCHEDULE-3
DATE OF LOG: 26/06/94
PROBE: NIGA 33

MAG DECL: 21.0

SCALE: 10 M/CM
TOTAL DEPTH: 216.10 M
AZIMUTH: 34.1
DISTANCE: 43.9 M
+ = 50 M INCR
* = BOTTOM OF HOLE



Century GEOPHYSICAL CORP.
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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR 2006 - 6

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:BSTR 2006 - 6
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:09/09/06
DEPTH DRILLER	:NA
BIT SIZE	:20.32
LOG TOP	:2.32
LOG BOTTOM	:49.07
CASING OD	:25.4
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:D BULK
REMARKS 2	:

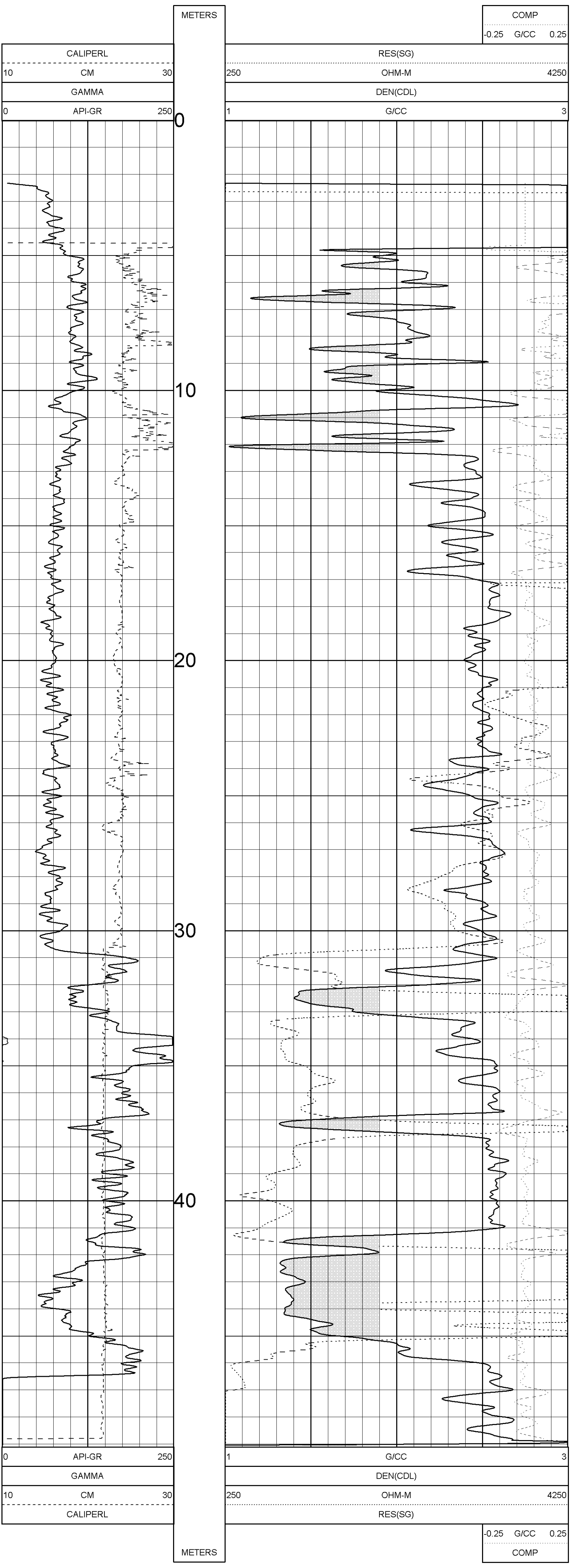
OTHER SERVICES:
NA
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 6 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 6 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006

TOOL CALIBRATION BSTR 2006 - 6 09/09/06 16:13
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

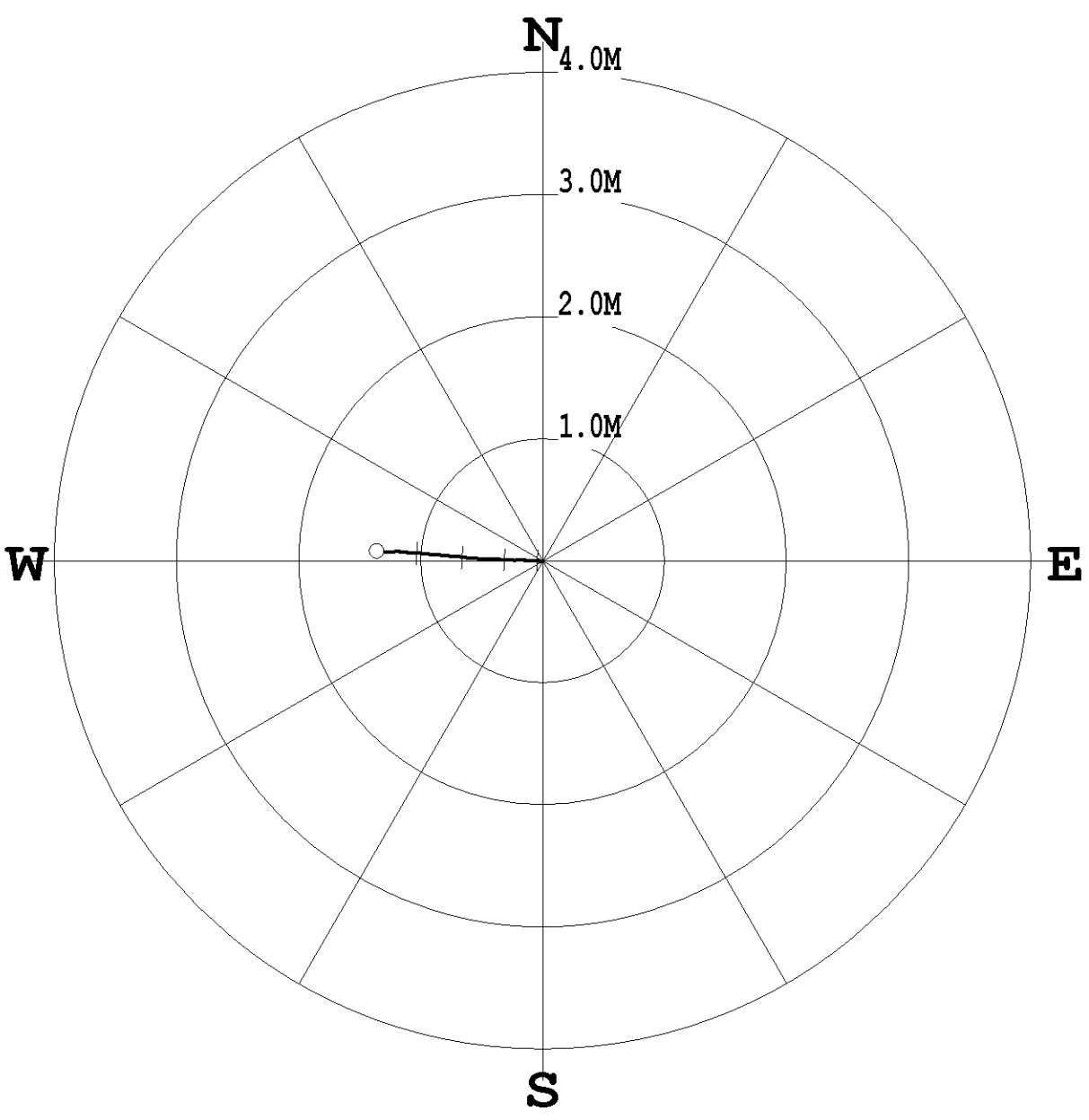
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug29,06	14:45:57	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Aug29,06	14:45:57	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Aug29,06	14:46:03	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug29,06	14:46:03	DEN(SS)	2.383	[G/CC]	9503.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 6
DATE OF LOG: 09/09/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 49.21 M
AZIMUTH: 273.2
DISTANCE: 1.4 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR 2006 - 7

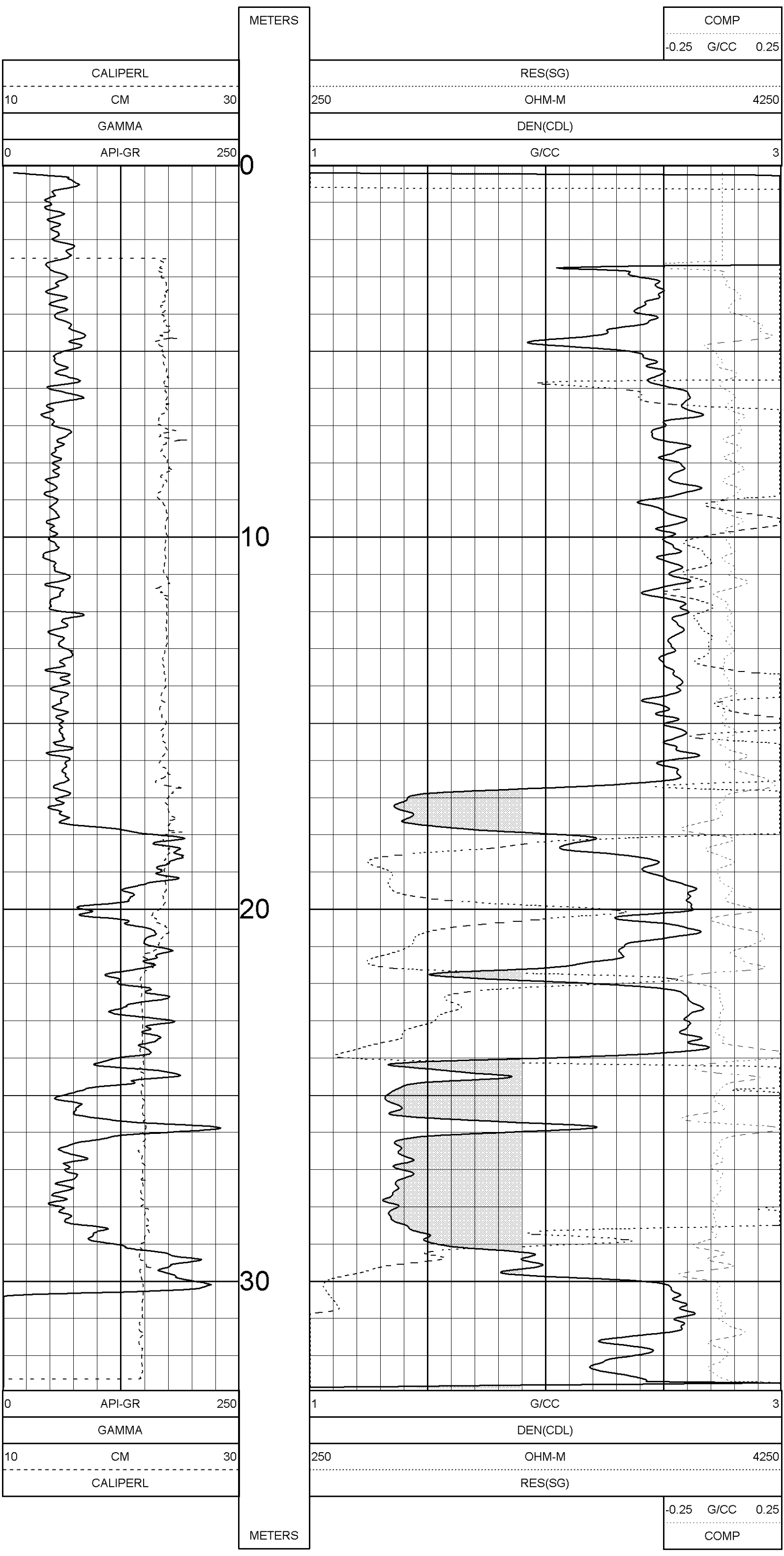
COMPANY	:NORTHERN ENERGY MINING INC		
WELL	:BSTR 2006 - 7	OTHER SERVICES:	
FIELD	:ROMAN MTN	NA	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA	NA	
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB	:NA
LOG MEASURED FROM	:GL	ELEVATION DF	:NA
DRL MEASURED FROM	:GL	ELEVATION GL	:NA
DATE	:09/09/06		
DEPTH DRILLER	:NA		
BIT SIZE	:20.32		
LOG TOP	:0.19		
LOG BOTTOM	:32.91		
CASING OD	:25.4		
CASING BOTTOM	:NA		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:NA		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:D BULK 1		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 7 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 7 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006

TOOL CALIBRATION BSTR 2006 - 7 09/09/06 15:16
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

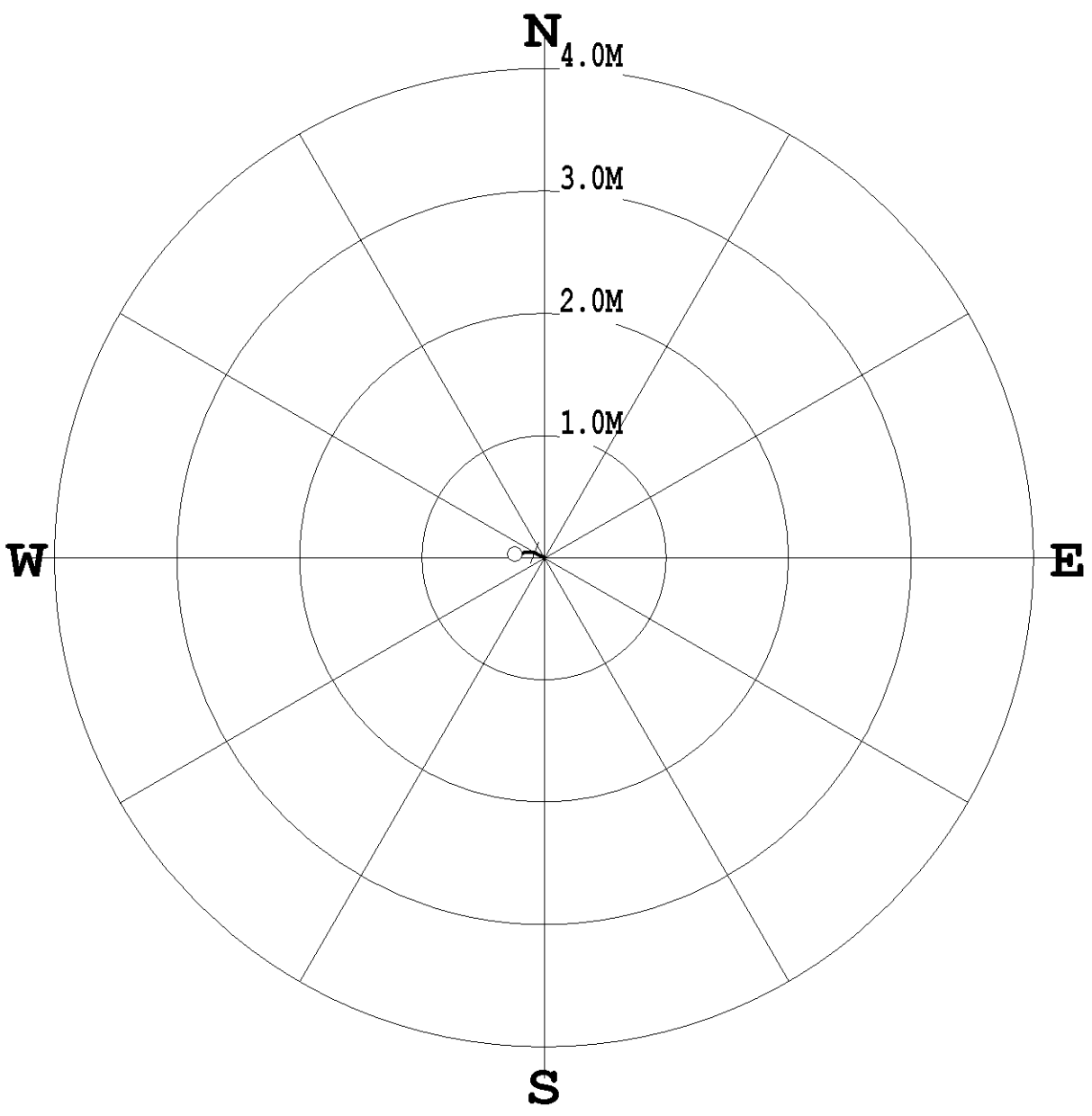
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug29,06	14:45:57	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Aug29,06	14:45:57	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Aug29,06	14:46:03	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug29,06	14:46:03	DEN(SS)	2.383	[G/CC]	9503.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 7
DATE OF LOG: 09/09/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 32.95 M
AZIMUTH: 277.4
DISTANCE: 0.2 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



Century GEOPHYSICAL CORP.

century-geo.com

GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY BSTR 2006 - 8

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:BSTR 2006 - 8
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA

OTHER SERVICES:
NA
NA
NA

LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA

PERMANENT DATUM	:GL	ELEVATION KB	:NA
LOG MEASURED FROM	:GL	ELEVATION DF	:NA
DRL MEASURED FROM	:GL	ELEVATION GL	:NA

DATE	:09/09/06
DEPTH DRILLER	:NA
BIT SIZE	:20.32
LOG TOP	:0.20
LOG BOTTOM	:39.36
CASING OD	:25.4
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:D BULK 2
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

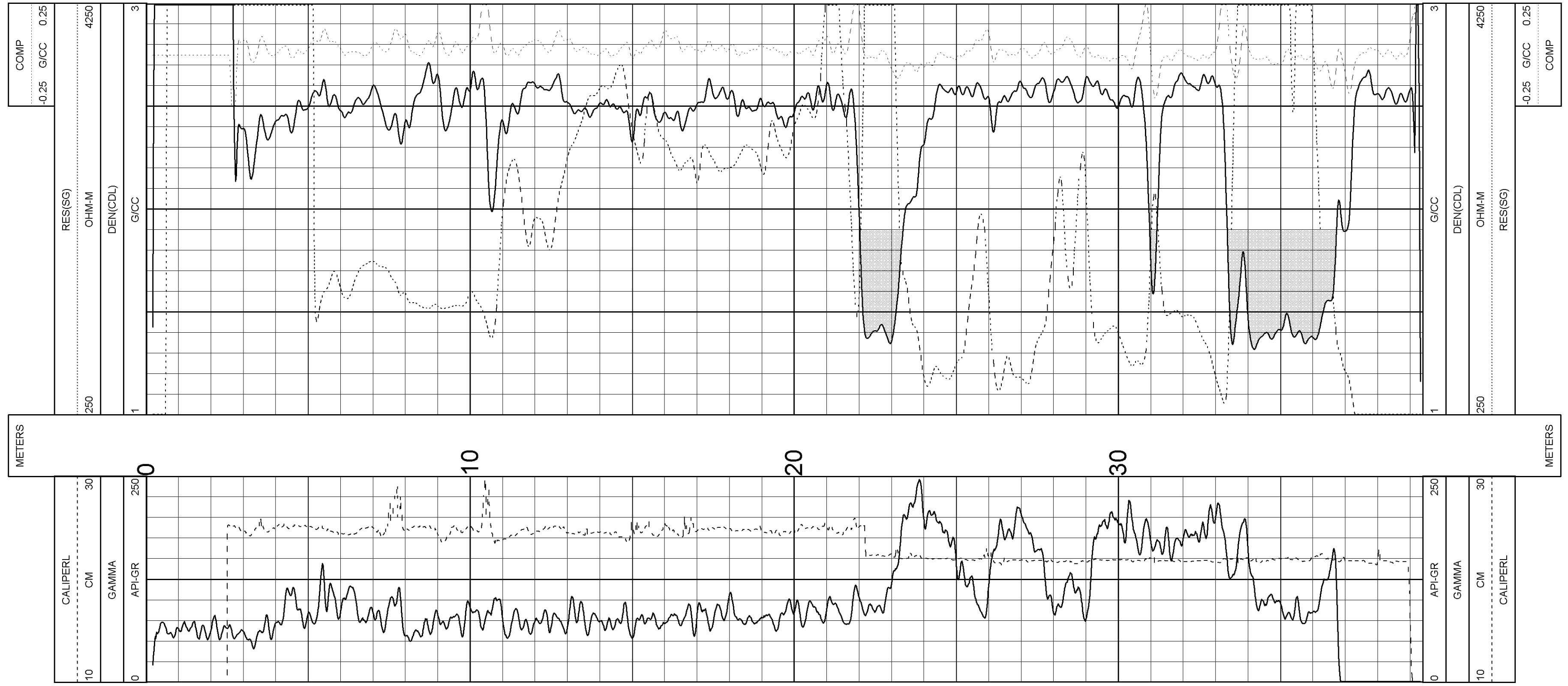
100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 8 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL : 21
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 20.32



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 8 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL : 21
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 20.32

TOOL CALIBRATION BSTR 2006 - 8 09/09/06 14:43
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

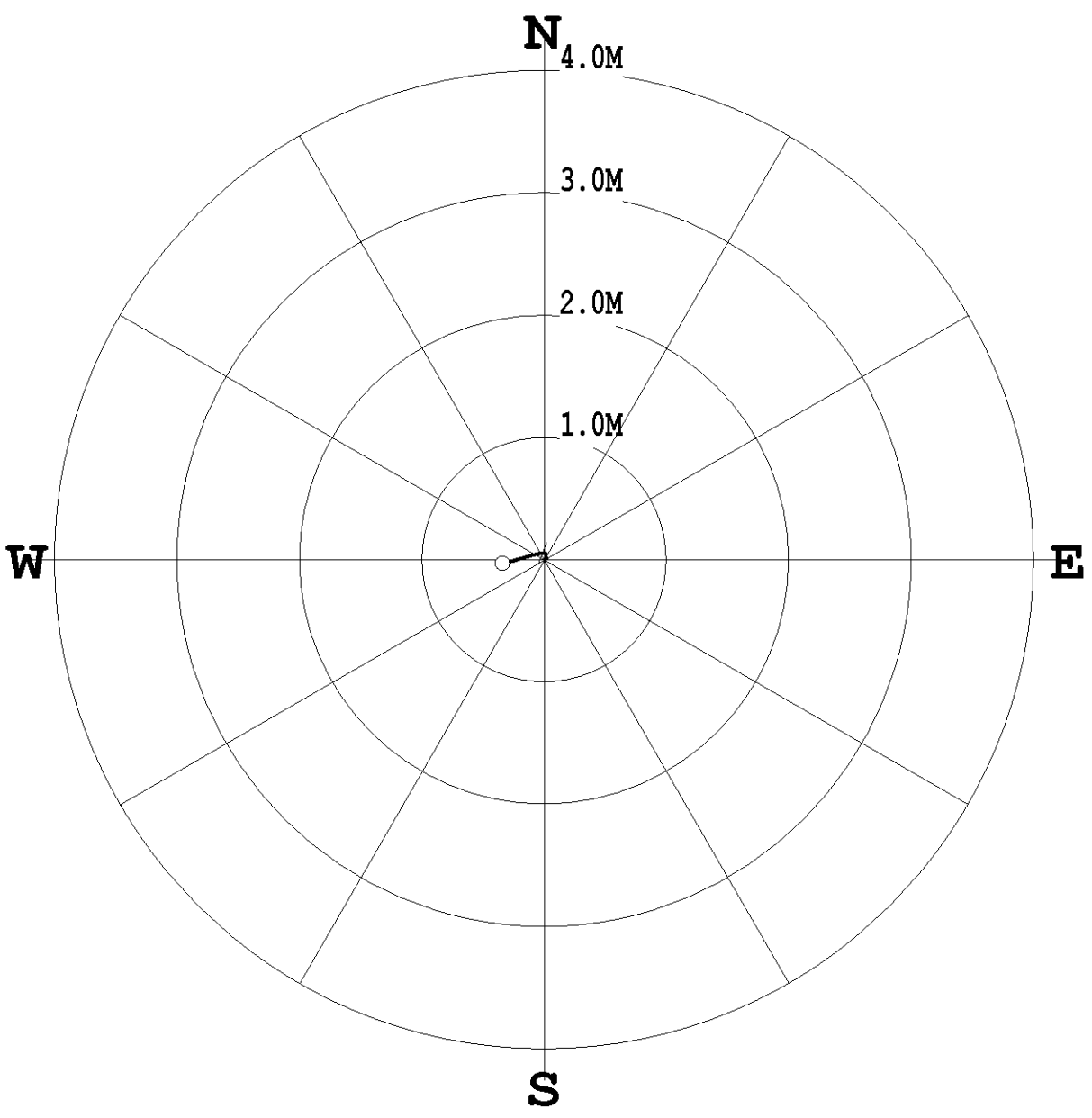
	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug22,06	18:59:38	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Aug22,06	18:59:38	GAMMA	283.000 [API-GR]	270.00 [CPS]
2	Aug22,06	18:59:55	VOLTAGE	1.000 [MV]	4027.00 [CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000 [MV]	272837.00 [CPS]
3	Aug22,06	20:50:53	CALIPER	8.890 [CM]	152525.00 [CPS]
	Aug22,06	20:50:53	CALIPER	17.780 [CM]	381025.00 [CPS]
4	Aug29,06	14:45:57	DEN(LS)	1.000 [G/CC]	12531.00 [CPS]
	Aug29,06	14:45:57	DEN(LS)	2.383 [G/CC]	22004.00 [CPS]
5	Aug29,06	14:46:03	DEN(SS)	1.000 [G/CC]	9503.00 [CPS]
	Aug29,06	14:46:03	DEN(SS)	2.383 [G/CC]	116975.00 [CPS]
6	Aug22,06	21:03:45	CALIPER1	8.890 [CM]	303810.00 [CPS]
	Aug22,06	21:03:45	CALIPER1	25.400 [CM]	572720.00 [CPS]
7	Aug22,06	19:01:00	CURRENT	0.000 [UA]	26.00 [CPS]
	Aug22,06	19:01:00	CURRENT	289.000 [UA]	26912.00 [CPS]
8	Aug22,06	19:01:07	F	Default	

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 8
DATE OF LOG: 09/09/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 39.48 M
AZIMUTH: 264.8
DISTANCE: 0.3 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR 2006 - 9

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:BSTR 2006 - 9
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:09/09/06
DEPTH DRILLER	:NA
BIT SIZE	:20.32
LOG TOP	:0.19
LOG BOTTOM	:36.54
CASING OD	:25.4
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:
REMARKS 2	:

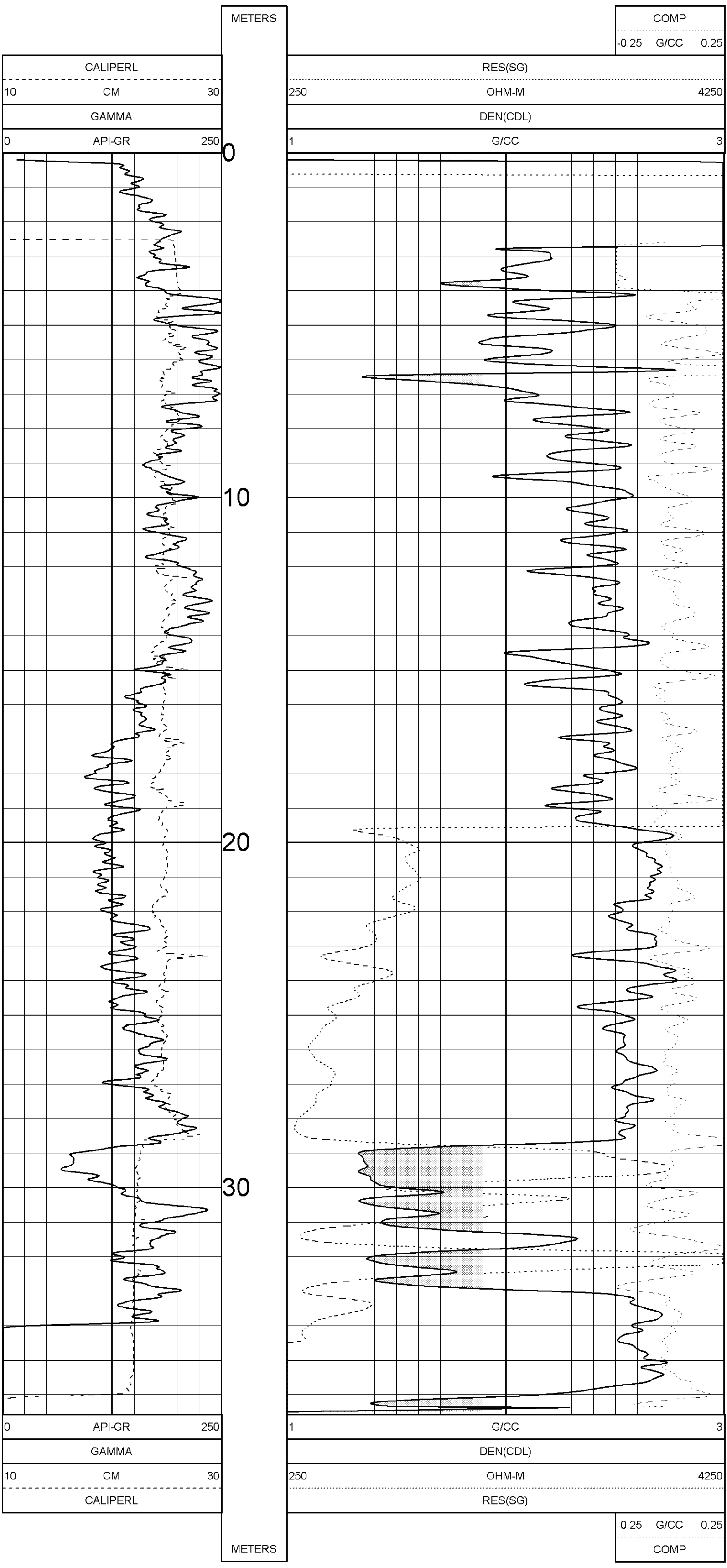
OTHER SERVICES:
NA
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 9 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 9 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006

TOOL CALIBRATION BSTR 2006 - 9 09/09/06 18:51
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

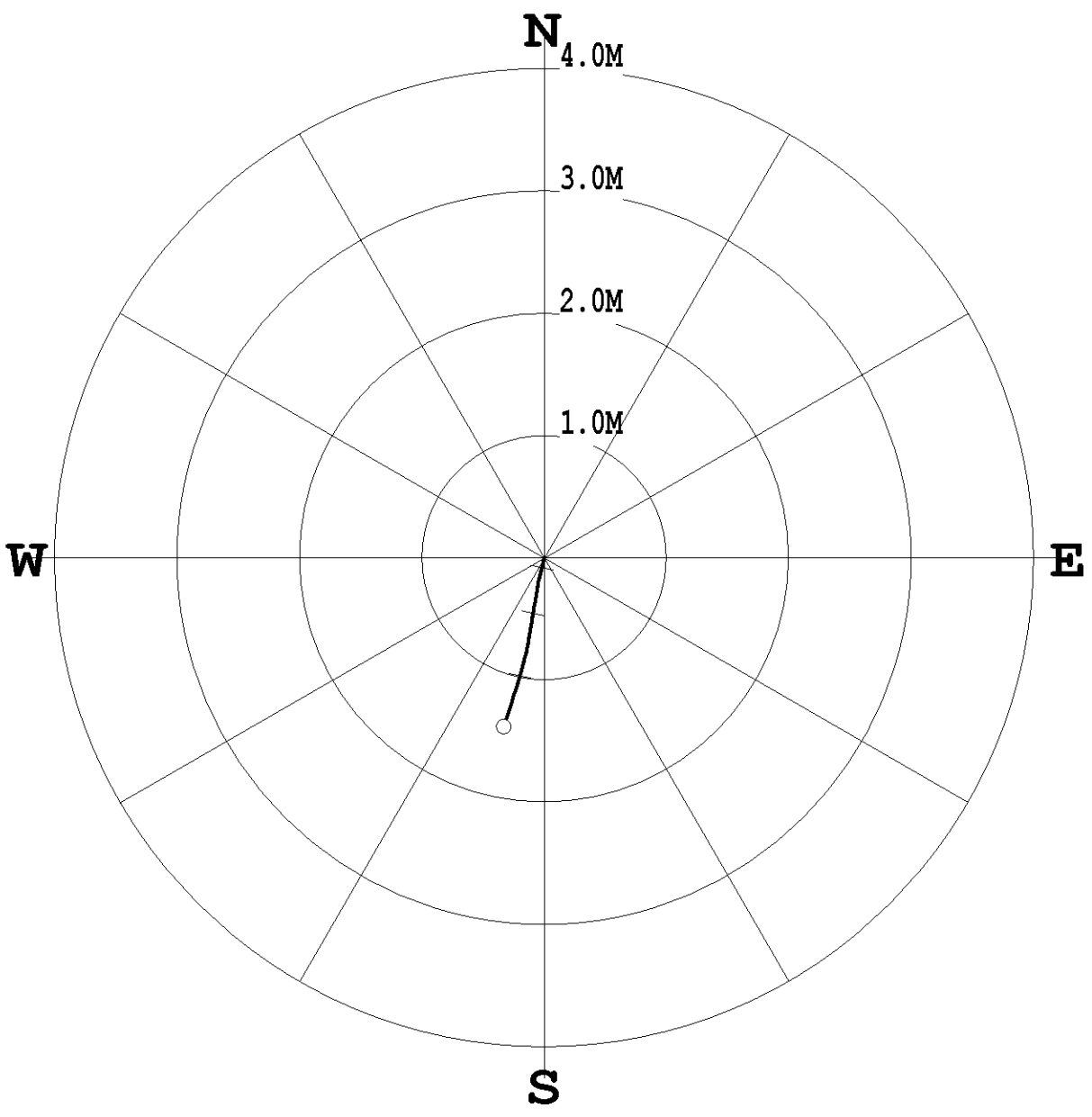
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug29,06	14:45:57	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Aug29,06	14:45:57	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Aug29,06	14:46:03	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug29,06	14:46:03	DEN(SS)	2.383	[G/CC]	9503.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 9
DATE OF LOG: 09/09/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 36.70 M
AZIMUTH: 193.6
DISTANCE: 1.4 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR 2006 - 10

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:BSTR 2006 - 10
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:09/09/06
DEPTH DRILLER	:NA
BIT SIZE	:20.32
LOG TOP	:0.88
LOG BOTTOM	:34.86
CASING OD	:25.4
CASING BOTTOM	:NA
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:
REMARKS 2	:

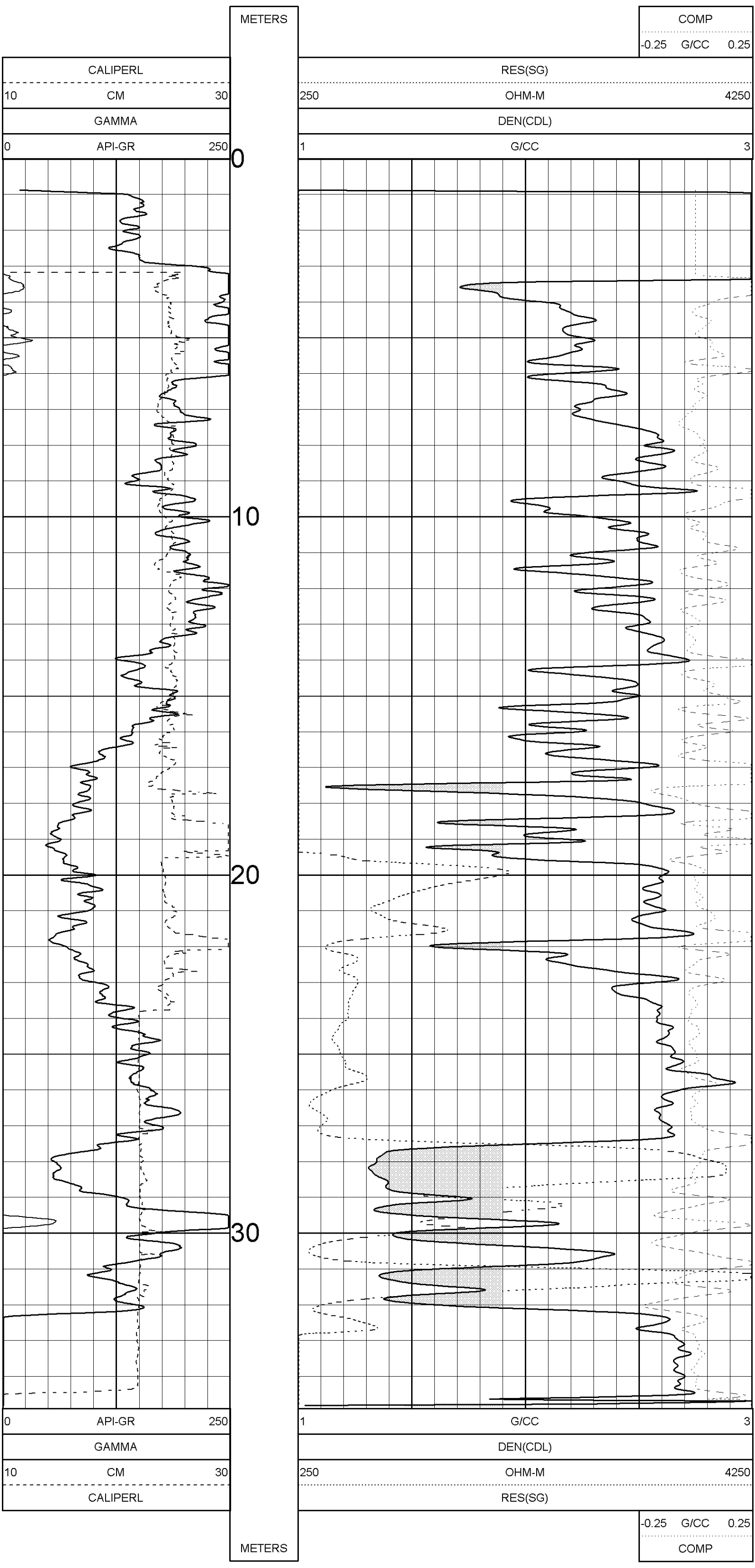
OTHER SERVICES:
NA
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 10 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 10 09/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/09/2006

TOOL CALIBRATION BSTR 2006 - 10 09/09/06 19:26
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

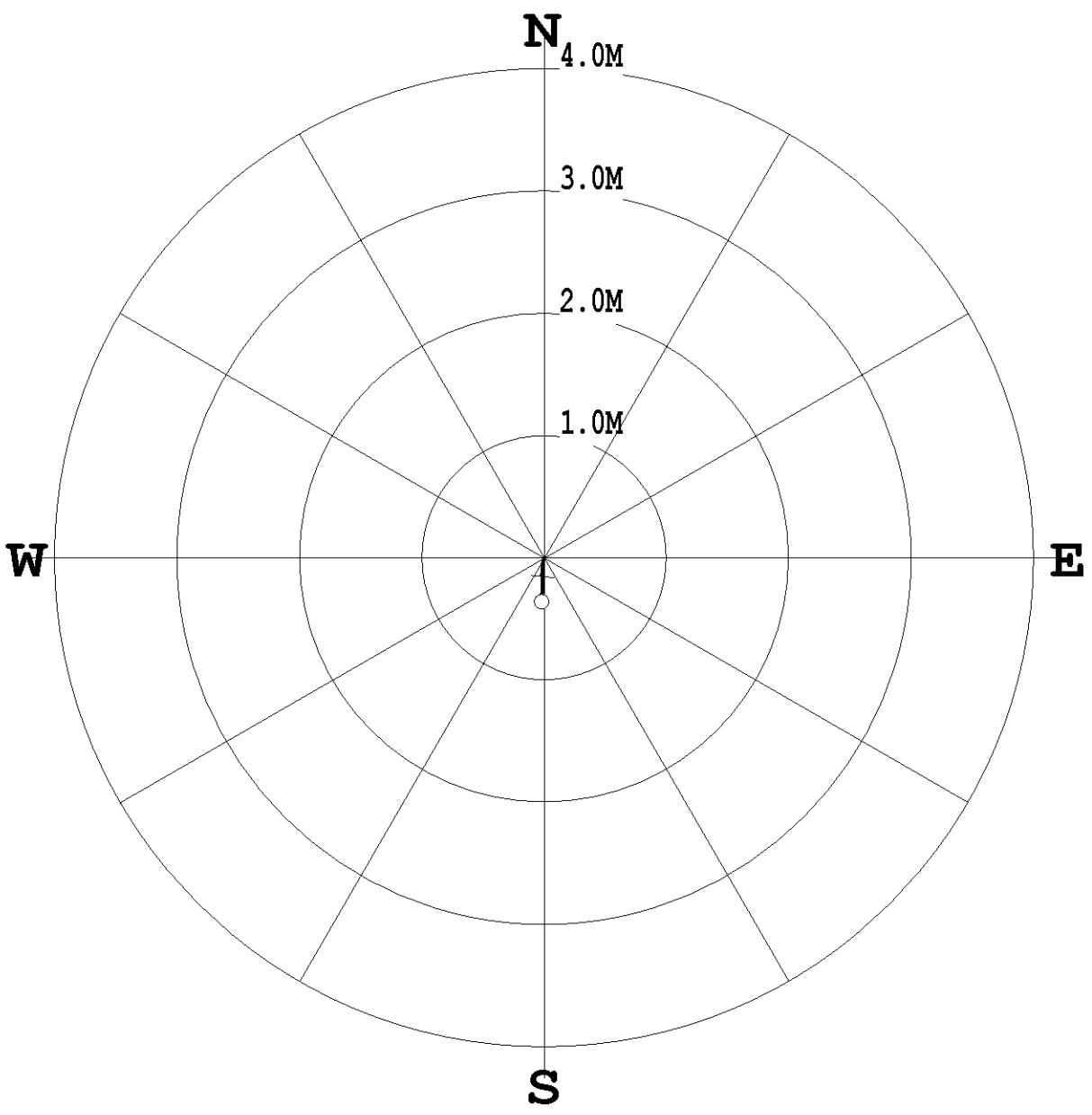
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug29,06	14:45:57	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Aug29,06	14:45:57	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Aug29,06	14:46:03	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug29,06	14:46:03	DEN(SS)	2.383	[G/CC]	9503.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 10
DATE OF LOG: 09/09/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 35.04 M
AZIMUTH: 183.0
DISTANCE: 0.4 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY BSTR 2006 - 14

COMPANY	NORTHERN ENERGY MINING INC.
WELL	BSTR 2006 - 14
FIELD	GAMMA RIDGE
COUNTY	THUMLER RIDGE
STATE	BRITISH COLUMBIA
LOCATION	N/A
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
API NO	N/A
UNIQUE WELL ID	N/A
PERMANENT DATUM	GL
LOG MEASURED FROM	GL
DRILL MEASURED FROM	GL
ELEVATION KB N/A	
ELEVATION DF N/A	
ELEVATION GL N/A	

OTHER SERVICES: N/A, N/A, N/A

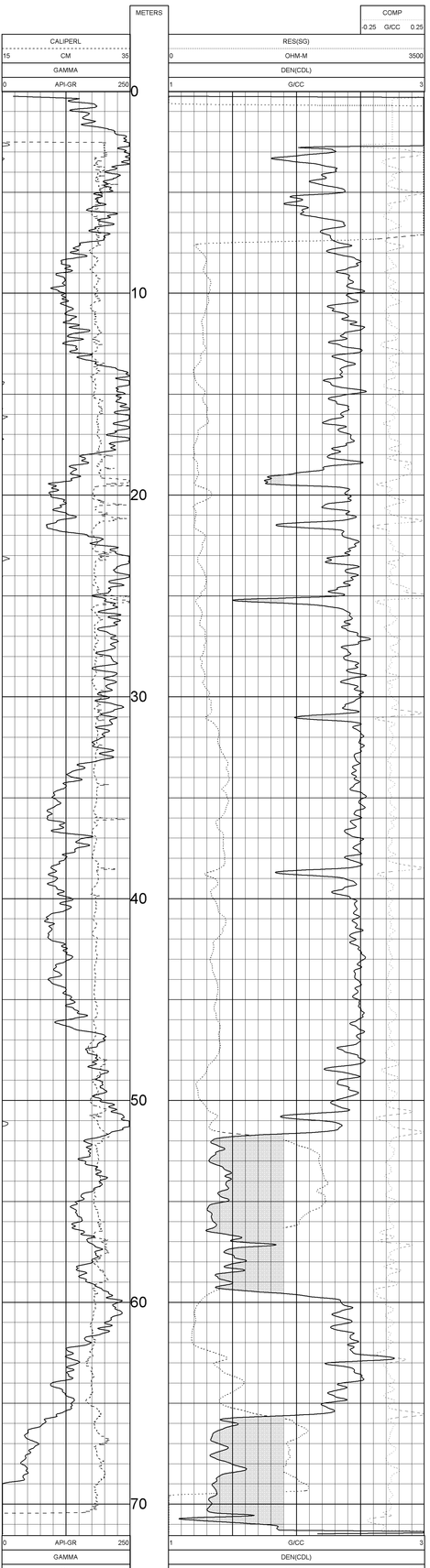
DATE	09/30/06
DEPTH DRILLER	N/A
BIT SIZE	20.32
LOG TOP	0.24
LOG BOTTOM	71.52
CASING BOTTOM	N/A
CASING TYPE	SURFACE
BOREHOLE FLUID	WATER
RM TEMPERATURE	N/A
MAX REC TEMP	N/A
WITNESSED BY	N/A
RECORDED BY	J. SWANICH
REMARKS 1	
REMARKS 2	

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 14 09/30/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/24/2006



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 14 09/30/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 09/24/2006

TOOL CALIBRATION BSTR 2006 - 14 09/30/06 11:35
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

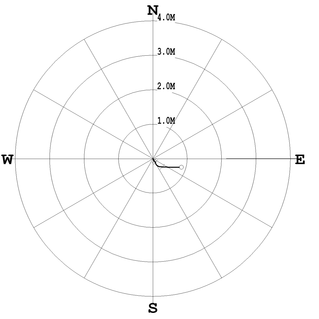
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep25,06	12:49:22	GAMMA	0.000	[API-GR]	12.00	[CPS]
	Sep25,06	12:49:22	GAMMA	283.000	[API-GR]	290.00	[CPS]
2	Sep21,06	23:00:15	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Sep21,06	23:00:15	VOLTAGE	572.000	[MV]	76691.10	[CPS]
3	Sep25,06	16:28:08	CALIPER	8.890	[CM]	218140.00	[CPS]
	Sep25,06	16:28:08	CALIPER	15.240	[CM]	355650.00	[CPS]
4	Sep24,06	13:24:22	DEN(LS)	1.000	[G/CC]	14011.00	[CPS]
	Sep24,06	13:24:22	DEN(LS)	2.383	[G/CC]	1125.00	[CPS]
5	Sep24,06	13:24:36	DEN(SS)	1.000	[G/CC]	22961.00	[CPS]
	Sep24,06	13:24:36	DEN(SS)	2.383	[G/CC]	9150.00	[CPS]
6	Sep30,06	12:13:44	CALIPER1	15.240	[CM]	242066.00	[CPS]
	Sep30,06	12:13:44	CALIPER1	25.400	[CM]	374794.00	[CPS]
7	Sep21,06	23:01:49	CURRENT	99.600	[UA]	10840.00	[CPS]
	Sep21,06	23:01:49	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Sep21,06	23:02:21	F	0.790	[ ]		[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 14
DATE OF LOG: 09/30/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 70.84 M
AZIMUTH: 106.7
DISTANCE: 0.9 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY BSTR 2006 - 15

COMPANY	:NORTHERN ENERGY MINING INC	OTHER SERVICES:	
WELL	:BSTR 2006 - 15	NA	
FIELD	:ROMAN MTN	NA	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA		
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB :NA	
LOG MEASURED FROM	:GL	ELEVATION DF :NA	
DRL MEASURED FROM	:GL	ELEVATION GL :NA	
DATE	:09/30/06		
DEPTH DRILLER	:47.26		
BIT SIZE	:20.32		
LOG TOP	:0.19		
LOG BOTTOM	:41.59		
CASING OD	:25.4		
CASING BOTTOM	:4		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:NA		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:G/J BULK		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

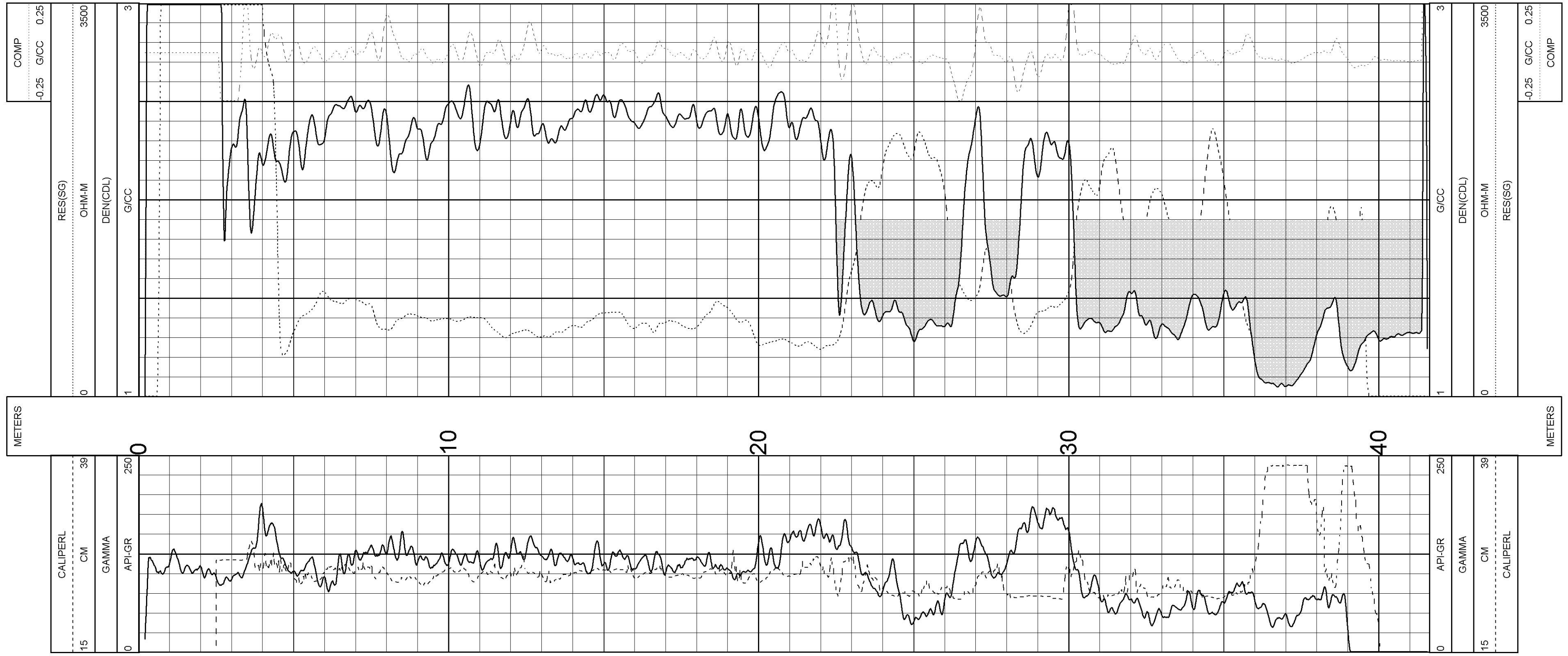
100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 15 09/30/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/30/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 20.32



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 15 09/30/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/30/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 20.32

TOOL CALIBRATION: BSTR 2006 - 15 09/30/06 16:27
TOOL SERIAL NUMBER : 9239 VERSION 2015

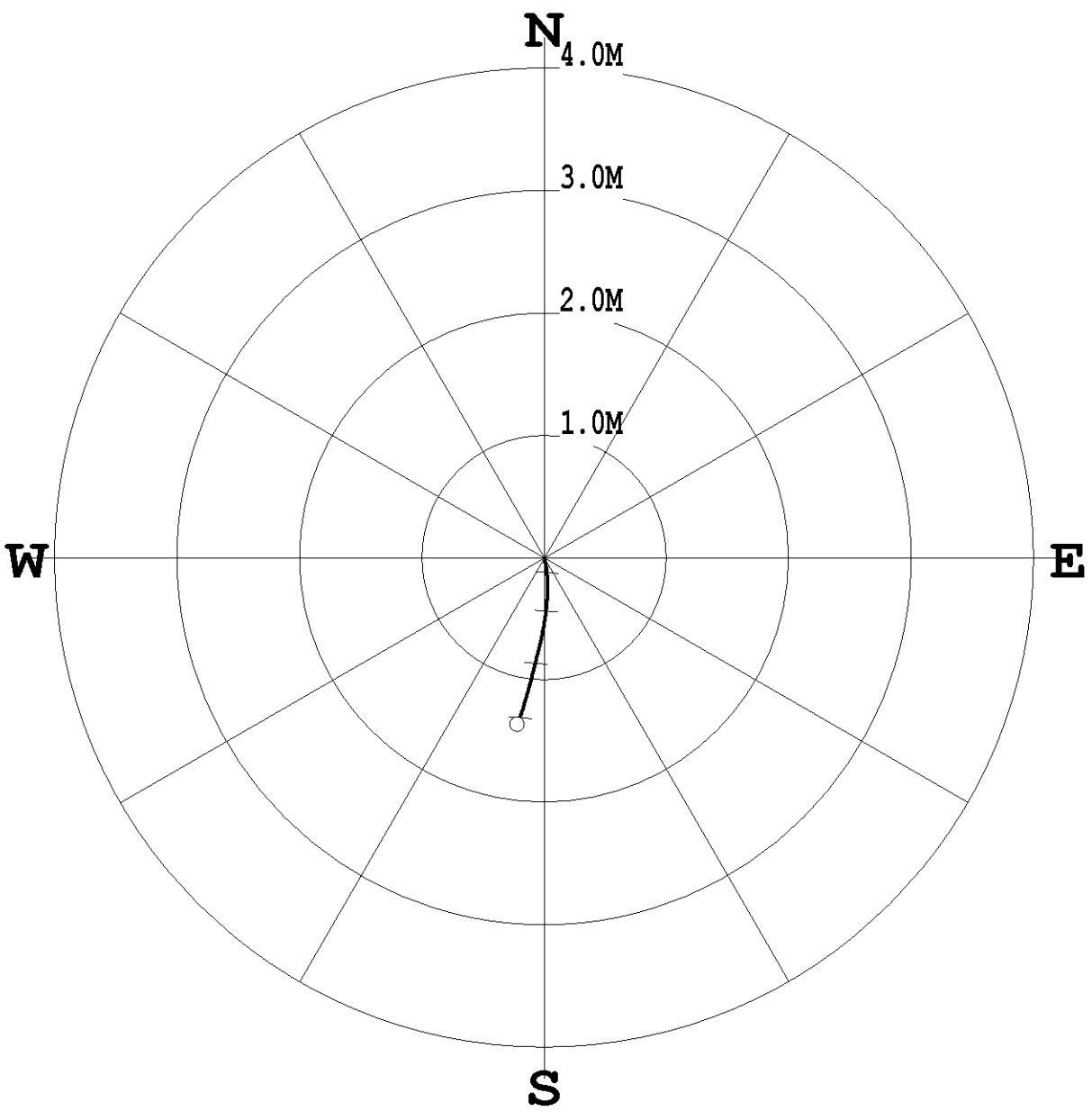
	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Sep25,06	12:49:22	GAMMA	0.000 [API-GR]	12.00 [CPS]
	Sep25,06	12:49:22	GAMMA	283.000 [API-GR]	290.00 [CPS]
2	Sep21,06	23:00:15	VOLTAGE	31.850 [MV]	5358.30 [CPS]
	Sep21,06	23:00:15	VOLTAGE	574.800 [MV]	96640.10 [CPS]
3	Sep25,06	16:28:08	CALIPER	7.000 [CM]	219.00 [CPS]
	Sep25,06	16:28:08	CALIPER	15.240 [CM]	355650.00 [CPS]
4	Sep24,06	13:24:22	DEN(LS)	1.000 [G/CC]	14011.00 [CPS]
	Sep24,06	13:24:22	DEN(LS)	2.383 [G/CC]	7125.00 [CPS]
5	Sep24,06	13:24:38	DEN(SS)	1.000 [G/CC]	22915.00 [CPS]
	Sep24,06	13:24:38	DEN(SS)	2.383 [G/CC]	9150.00 [CPS]
6	Sep30,06	11:57:25	CALIPERL	15.240 [CM]	242915.00 [CPS]
	Sep30,06	11:57:25	CALIPERL	24.400 [CM]	363240.00 [CPS]
7	Sep21,06	23:01:49	CURRENT	29.500 [UA]	16940.00 [CPS]
	Sep21,06	23:01:49	CURRENT	239.000 [UA]	137100.00 [CPS]
8	Sep21,06	23:02:21	F	0.790 [ ]	29120.00 [CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 15
DATE OF LOG: 09/30/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 41.45 M
AZIMUTH: 189.1
DISTANCE: 1.4 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR 2006 - 17

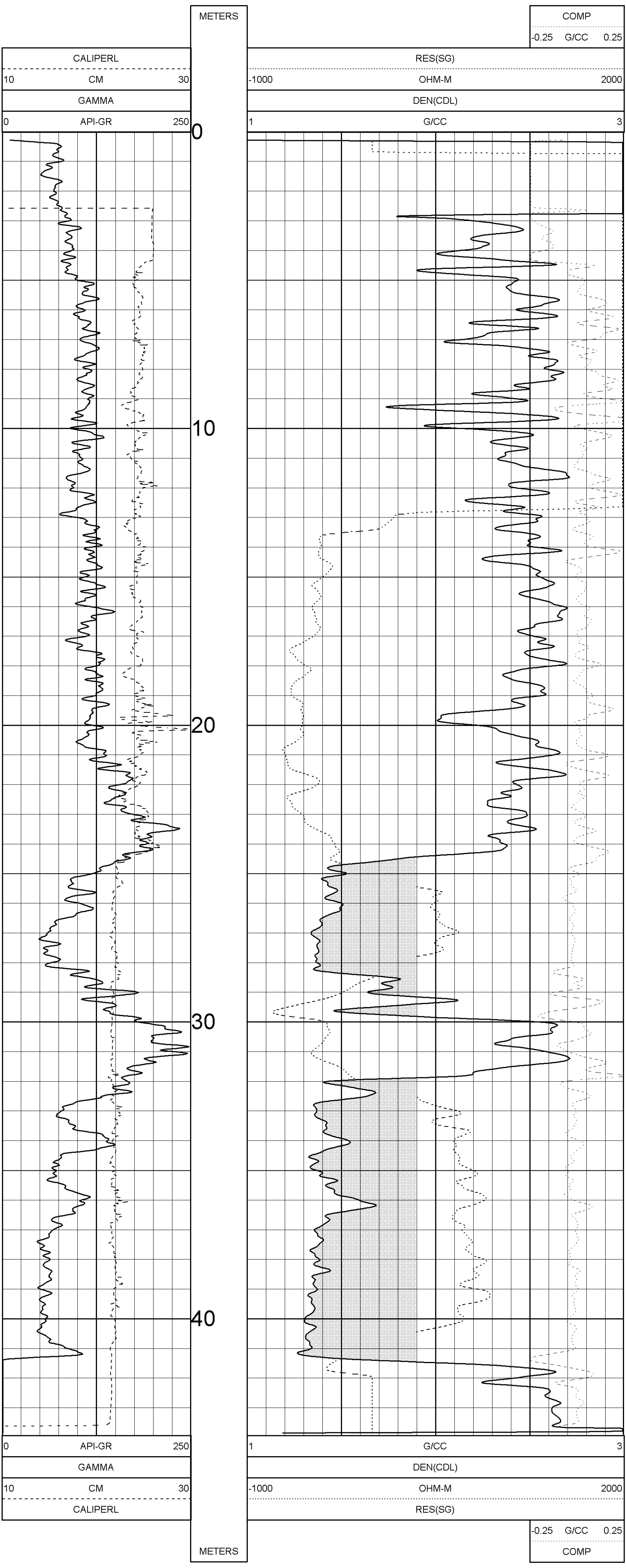
COMPANY	:NORTHERN ENERGY MINING INC		
WELL	:BSTR 2006 - 17	OTHER SERVICES:	
FIELD	:ROMAN MTN	NA	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA	NA	
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB :NA	
LOG MEASURED FROM	:GL	ELEVATION DF :NA	
DRL MEASURED FROM	:GL	ELEVATION GL :NA	
DATE	:10/13/06		
DEPTH DRILLER	:44.21		
BIT SIZE	:15.24		
LOG TOP	:0.28		
LOG BOTTOM	:43.90		
CASING OD	:25.4		
CASING BOTTOM	:5.18		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:1.0		
WITNESSED BY	:RON		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 17 10/13/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 10/13/2006		VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 17 10/13/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 10/13/2006		VERSION = 3.64EC

TOOL CALIBRATION BSTR 2006 - 17 10/13/06 20:47
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1268

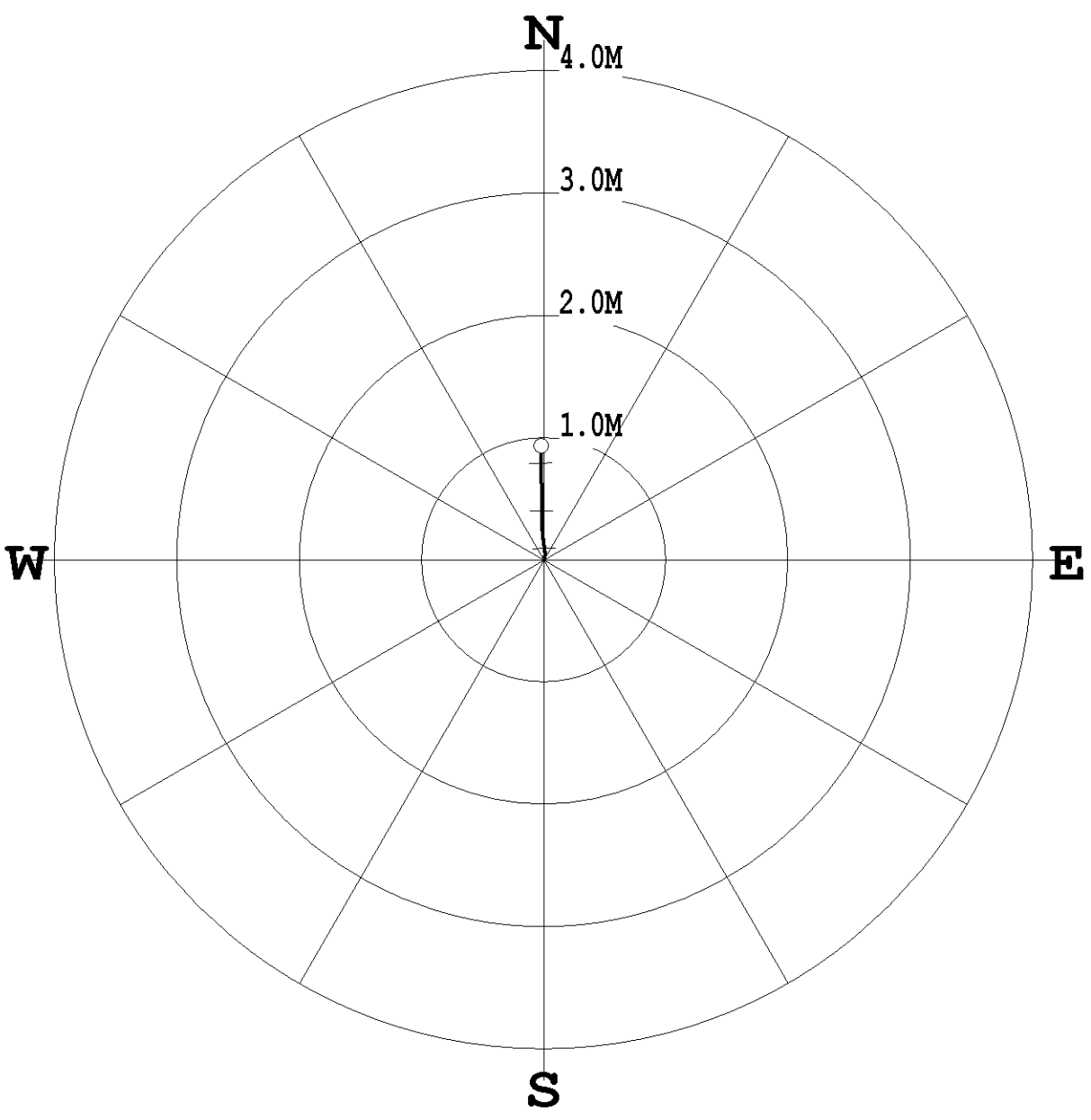
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct13,06	18:54:55	GAMMA	Default	[CPS]	Default	[CPS]
	Oct13,06	18:54:55	GAMMA	283.000	[API-GR]	286.00	[CPS]
2	Sep26,06	12:24:39	VOLTAGE	2031.000	[MV]	273023.00	[CPS]
	Sep26,06	12:20:34	CALIPER	3.000	[INCH]	123752.00	[CPS]
3	Oct13,06	18:33:01	CALIPER	20.320	[INCH]	433775.00	[CPS]
	Oct13,06	18:33:01	CALIPER	2.540	[INCH]	25725.00	[CPS]
4	Oct13,06	20:33:22	DEN(LS)	1.000	[G/CC]	13504.00	[CPS]
	Oct13,06	20:33:22	DEN(LS)	2.383	[G/CC]	1250.00	[CPS]
5	Oct13,06	20:33:29	DEN(SS)	1.000	[G/CC]	20287.00	[CPS]
	Oct13,06	20:33:29	DEN(SS)	2.383	[G/CC]	8800.00	[CPS]
6	Oct13,06	20:38:56	CALIPERL	10.160	[INCH]	128735.00	[CPS]
	Oct13,06	20:38:56	CALIPERL	25.400	[INCH]	304375.00	[CPS]
7	Sep26,06	12:24:45	CURRENT	291.000	[UA]	29568.00	[CPS]
	Sep26,06	12:05:58	F	Default	[CPS]		
8	Sep26,06	12:05:58	X	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 17
DATE OF LOG: 10/13/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 43.86 M
AZIMUTH: 358.7
DISTANCE: 0.9 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY COMPENSATED DENSITY BSTR 2006 - 18

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:BSTR 2006 - 18
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA

OTHER SERVICES:
NEUTRON
NA
NA

LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA

PERMANENT DATUM	:GL	ELEVATION KB	:NA
LOG MEASURED FROM	:GL	ELEVATION DF	:NA
DRL MEASURED FROM	:GL	ELEVATION GL	:NA

DATE	:11/02/06
DEPTH DRILLER	:45.5
BIT SIZE	:22.86
LOG TOP	:0.21
LOG BOTTOM	:42.88
CASING OD	:25.4
CASING BOTTOM	:4
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:1.0
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

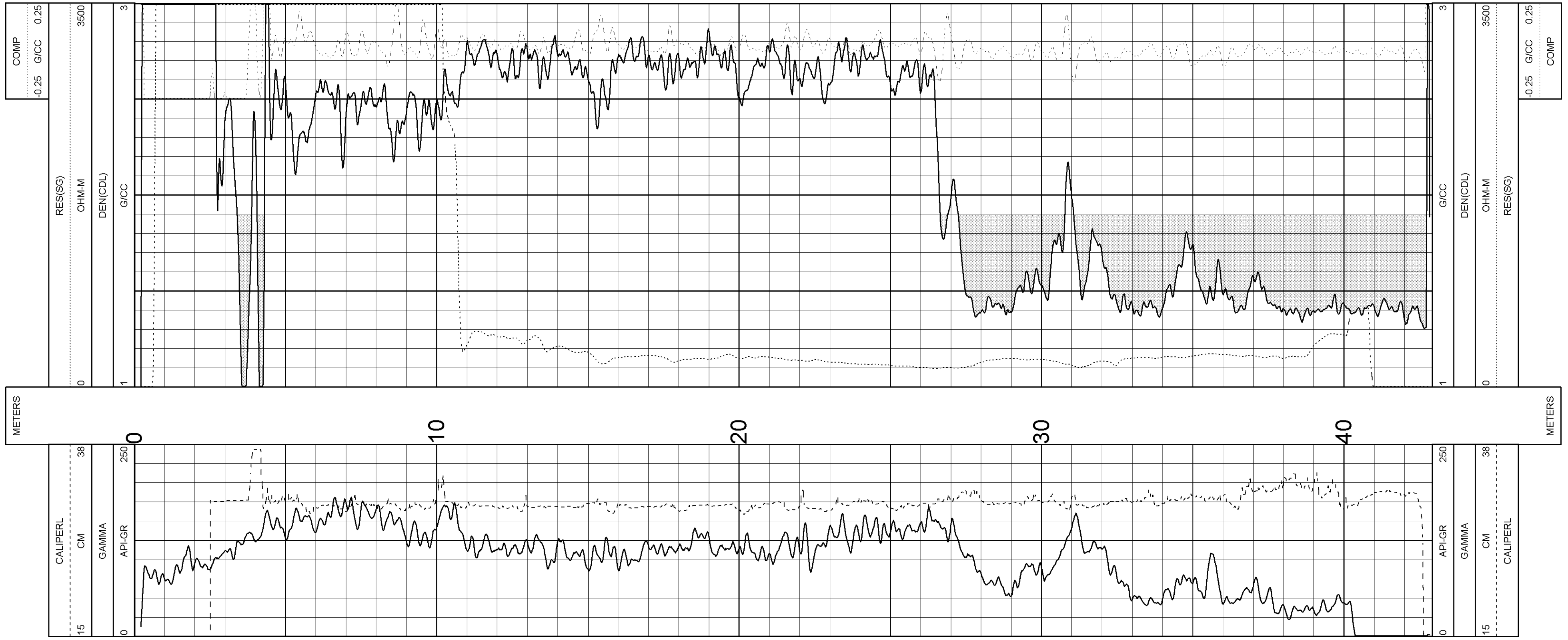
100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 18 11/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 11/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 22.86
VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 18 11/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 11/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 22.86
VERSION = 3.64EC

TOOL CALIBRATION BSTR 2006 - 18 11/02/06 13:25
TOOL 9239C1 TM VERSION 2016
SERIAL NUMBER 2268

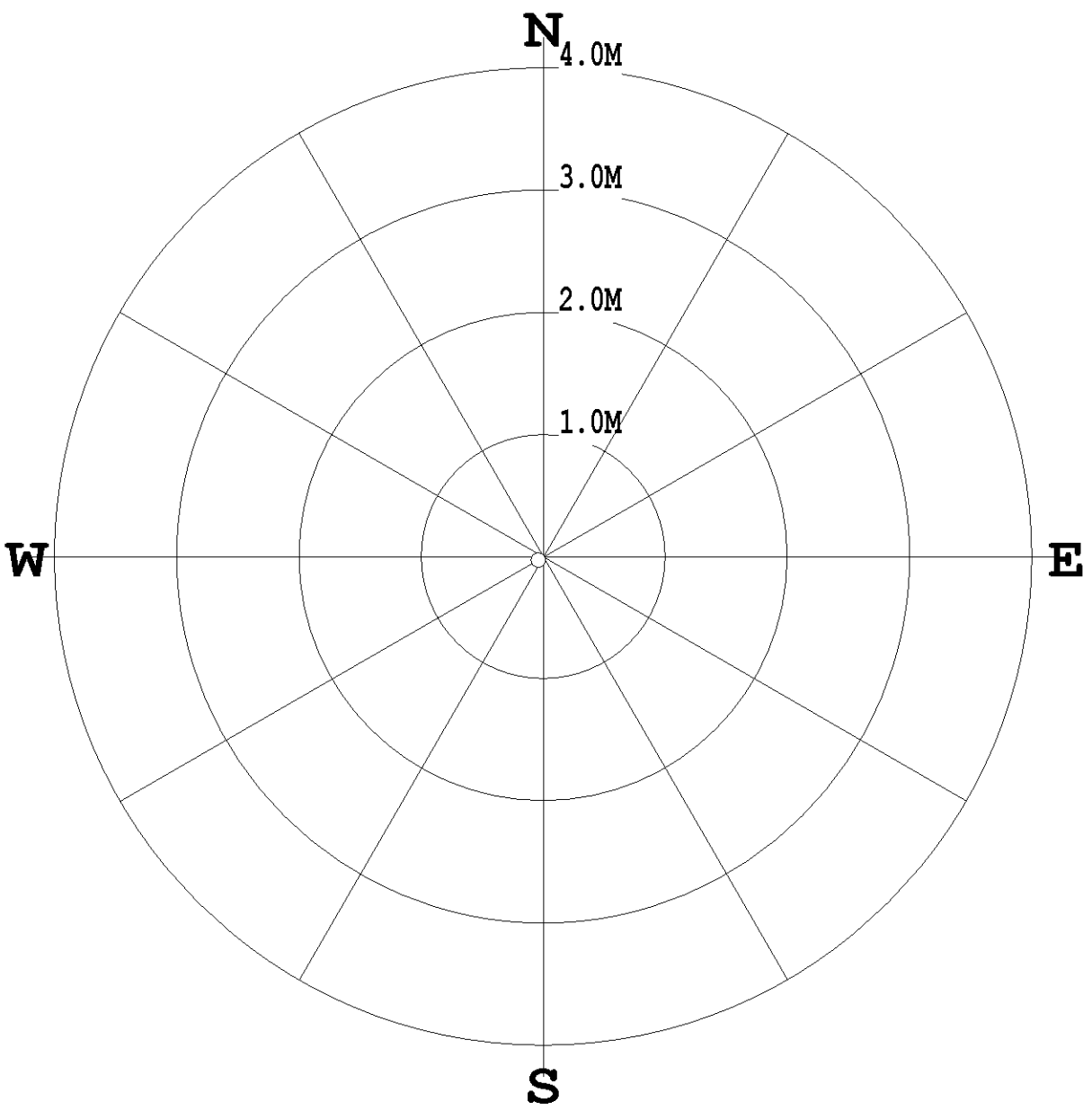
	DATE	TIME	SENSOR	STANDARD		RESPONSE
1	Oct20,06	14:51:13	GAMMA	[CPS]	Default	[CPS]
	Oct20,06	14:51:13	GAMMA	[API-GR]	263.000	[CPS]
2	Oct20,06	14:51:37	VOLTAGE	[MV]	3.850	[CPS]
	Oct20,06	14:51:37	VOLTAGE	[MV]	572.000	[CPS]
3	Oct20,06	14:53:08	CURRENT	[MA]	5.440	[CPS]
	Oct20,06	14:53:08	CALIPER	[CM]	20.320	[CPS]
4	Oct20,06	14:53:26	DEN(LS)	[G/CC]	1.000	[CPS]
	Oct20,06	14:53:26	DEN(LS)	[G/CC]	2.383	[CPS]
5	Oct20,06	14:53:44	DEN(SS)	[G/CC]	2.000	[CPS]
	Oct20,06	14:53:44	DEN(SS)	[G/CC]	2.650	[CPS]
6	Oct20,06	14:54:07	CALIPERL	[CM]	10.160	[CPS]
	Oct20,06	14:54:07	CALIPERL	[CM]	25.400	[CPS]
7	Oct20,06	14:54:27	CURRENT	[UA]	99.600	[CPS]
	Oct20,06	14:54:27	CURRENT	[UA]	299.000	[CPS]
8	Oct20,06	14:54:32	F	[CPS]	Default	[CPS]
9	Oct20,06	14:49:46	X	[CPS]	Default	[CPS]

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 18
DATE OF LOG: 11/02/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 42.98 M
AZIMUTH: 228.3
DISTANCE: 0.1 M
+ = 100 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR 2006 - 19

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:BSTR 2006 - 19
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA
LOCATION	:NA
SECTION	:NA
TOWNSHIP	:NA
RANGE	:NA
API NO.	:NA
UNIQUE WELL ID.	:NA
PERMANENT DATUM	:GL ELEVATION KB :NA
LOG MEASURED FROM	:GL ELEVATION DF :NA
DRL MEASURED FROM	:GL ELEVATION GL :NA
DATE	:11/04/06
DEPTH DRILLER	:47.5
BIT SIZE	:15.24
LOG TOP	:0.18
LOG BOTTOM	:47.82
CASING OD	:25.4
CASING BOTTOM	:4.5
CASING TYPE	:SURFACE
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:NA
RECORDED BY	:J. SINKWICH
REMARKS 1	:
REMARKS 2	:

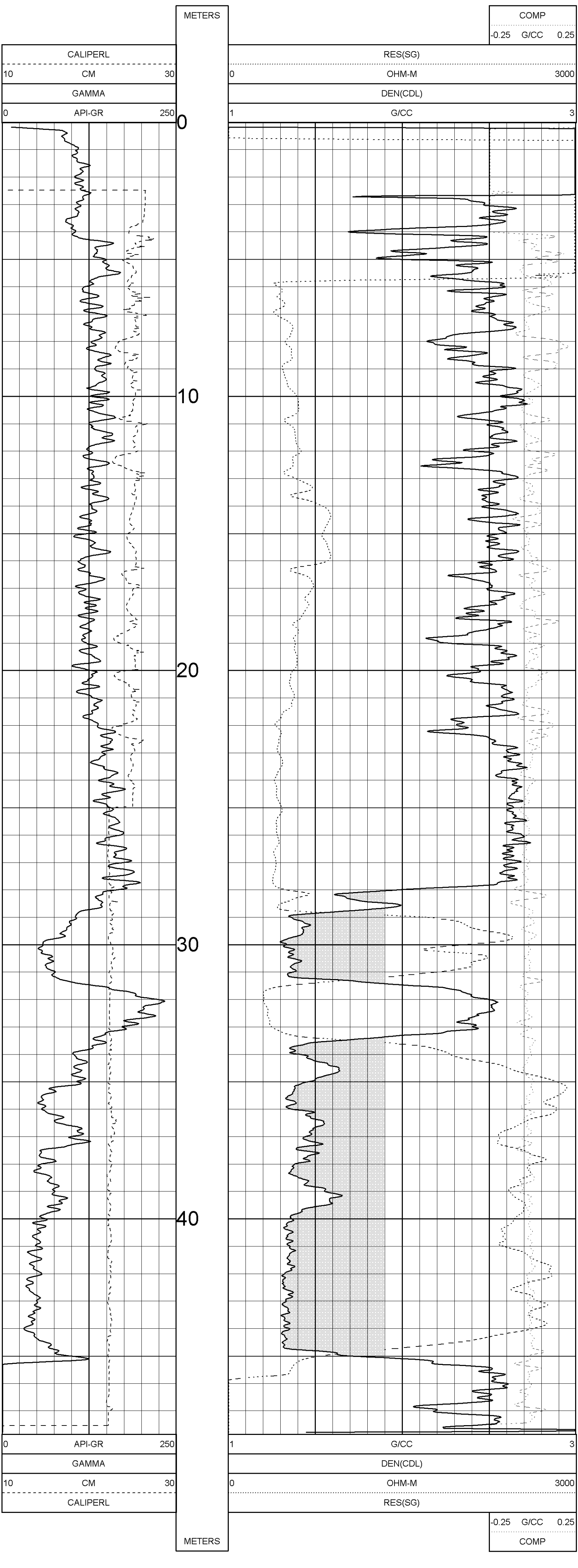
OTHER SERVICES:
NEUTRON
NA
NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 19 11/04/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 11/04/2006		VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY BSTR 2006 - 19 11/04/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 10000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 11/04/2006		VERSION = 3.64EC

TOOL CALIBRATION BSTR 2006 - 19 11/04/06 11:52
TOOL 9239C1 TM VERSION 2016
SERIAL NUMBER 1268

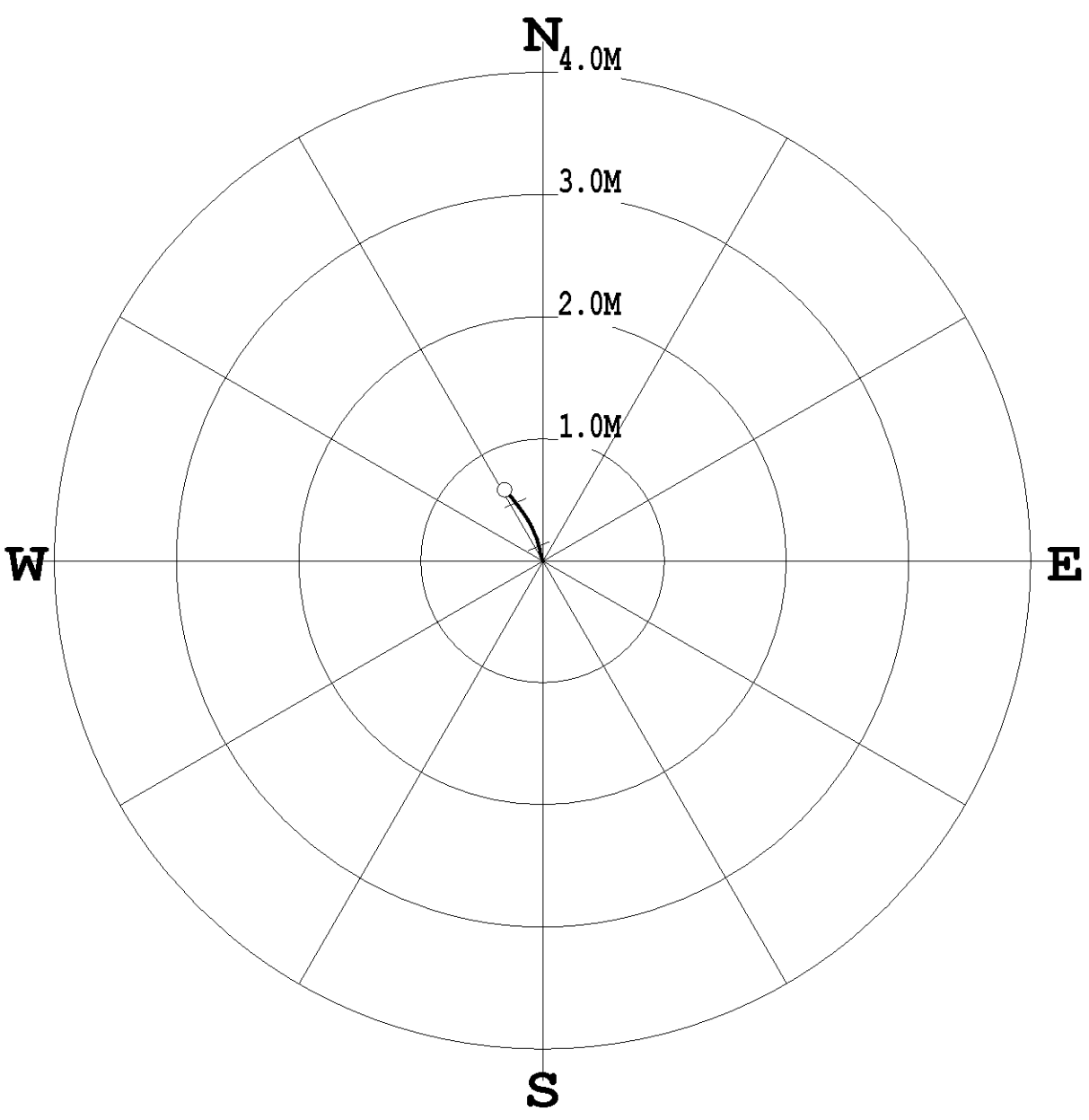
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Oct29,06	14:51:13	GAMMA	Default	[CPS]	Default	[CPS]
	Oct29,06	14:51:13	GAMMA	283.000	[API-GR]	286.00	[CPS]
2	Oct29,06	14:51:37	VOLTAGE	3.850	[MV]	5358.00	[CPS]
	Oct29,06	14:51:37	VOLTAGE	572.000	[MV]	76681.00	[CPS]
3	Oct29,06	14:53:08	CALIPER	2.540	[CM]	25725.00	[CPS]
	Oct29,06	14:53:08	CALIPER	20.320	[CM]	433775.00	[CPS]
4	Nov04,06	12:00:07	DEN(LS)	1.000	[G/CC]	12004.00	[CPS]
	Nov04,06	12:02:28	DEN(LS)	2.383	[G/CC]	950.00	[CPS]
5	Nov04,06	12:00:14	DEN(SS)	1.000	[G/CC]	20487.00	[CPS]
	Nov04,06	12:02:11	DEN(SS)	2.383	[G/CC]	8100.00	[CPS]
6	Oct29,06	14:54:07	CALIPERL	10.160	[CM]	128735.00	[CPS]
	Oct29,06	14:54:07	CALIPERL	25.400	[CM]	304375.00	[CPS]
7	Oct29,06	14:54:27	CURRENT	99.600	[UA]	10840.00	[CPS]
	Oct29,06	14:54:27	CURRENT	291.000	[UA]	29568.00	[CPS]
8	Oct29,06	14:54:32	F	Default	[CPS]		
9	Oct29,06	14:49:46	X	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR 2006 - 19
DATE OF LOG: 11/04/06
PROBE: 9055A 237

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 47.89 M
AZIMUTH: 332.1
DISTANCE: 0.7 M
+ = 20 M INCR
○ = BOTTOM OF HOLE

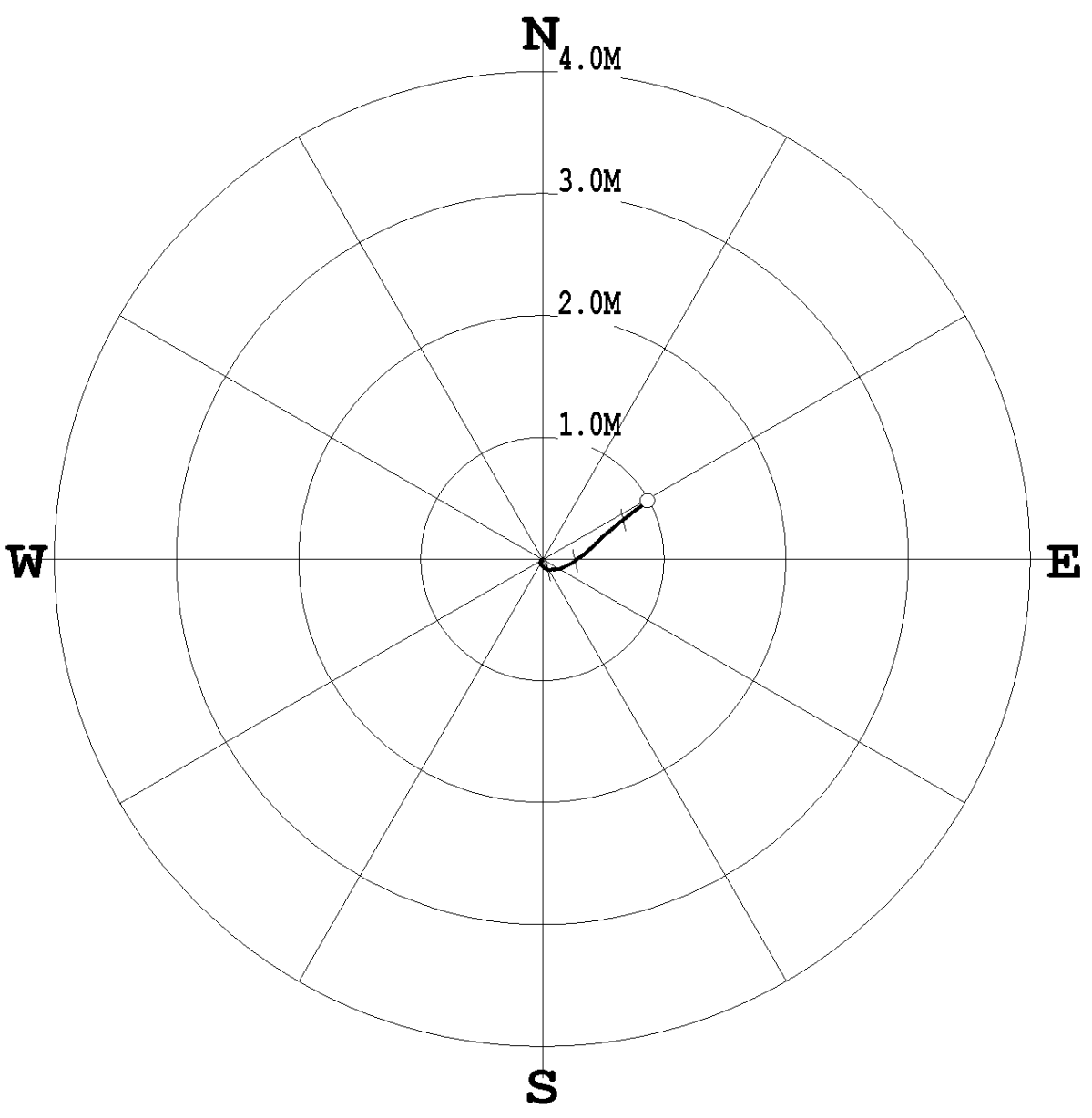


PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN
HOLE ID: BSTR2006-1
DATE OF LOG: 09/02/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 33.65 M
AZIMUTH: 61.0
DISTANCE: 1.0 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR-2006-1

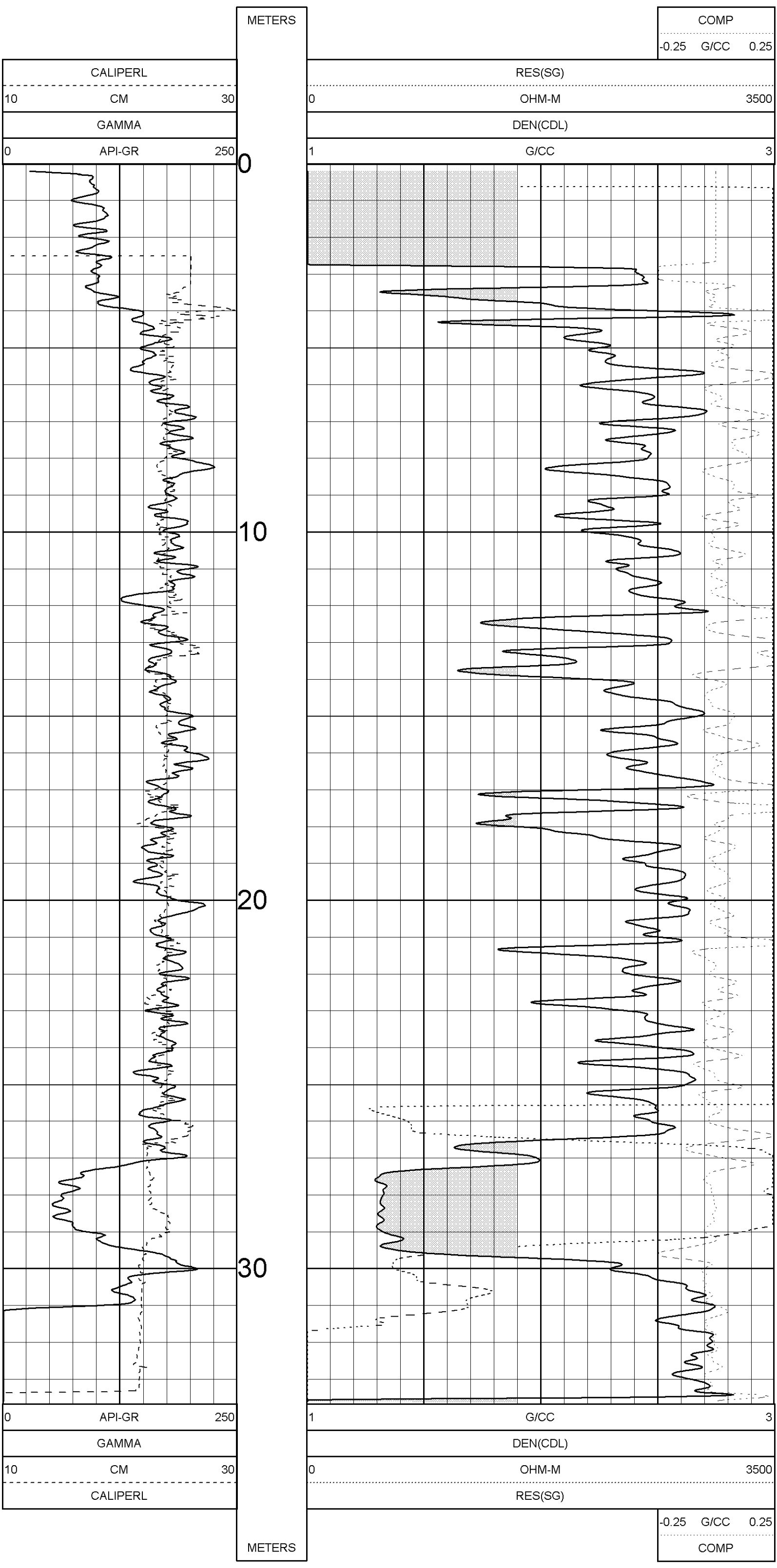
COMPANY	:NORTHERN ENERGY MINING INC		
WELL	:BSTR-2006-1	OTHER SERVICES:	
FIELD	:ROMAN MTN	NA	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA	NA	
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB :NA	
LOG MEASURED FROM	:GL	ELEVATION DF :NA	
DRL MEASURED FROM	:GL	ELEVATION GL :NA	
DATE	:08/27/06		
DEPTH DRILLER	:33		
BIT SIZE	:20.32		
LOG TOP	:0.19		
LOG BOTTOM	:33.63		
CASING OD	:27.31		
CASING BOTTOM	:4		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:NA		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:F SEAM		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR-2006-1 08/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 08/27/2006



100CM LOG, GAMMA-RES-DENSITY BSTR-2006-1 08/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 08/27/2006

TOOL CALIBRATION BSTR-2006-1 08/27/06 11:55
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

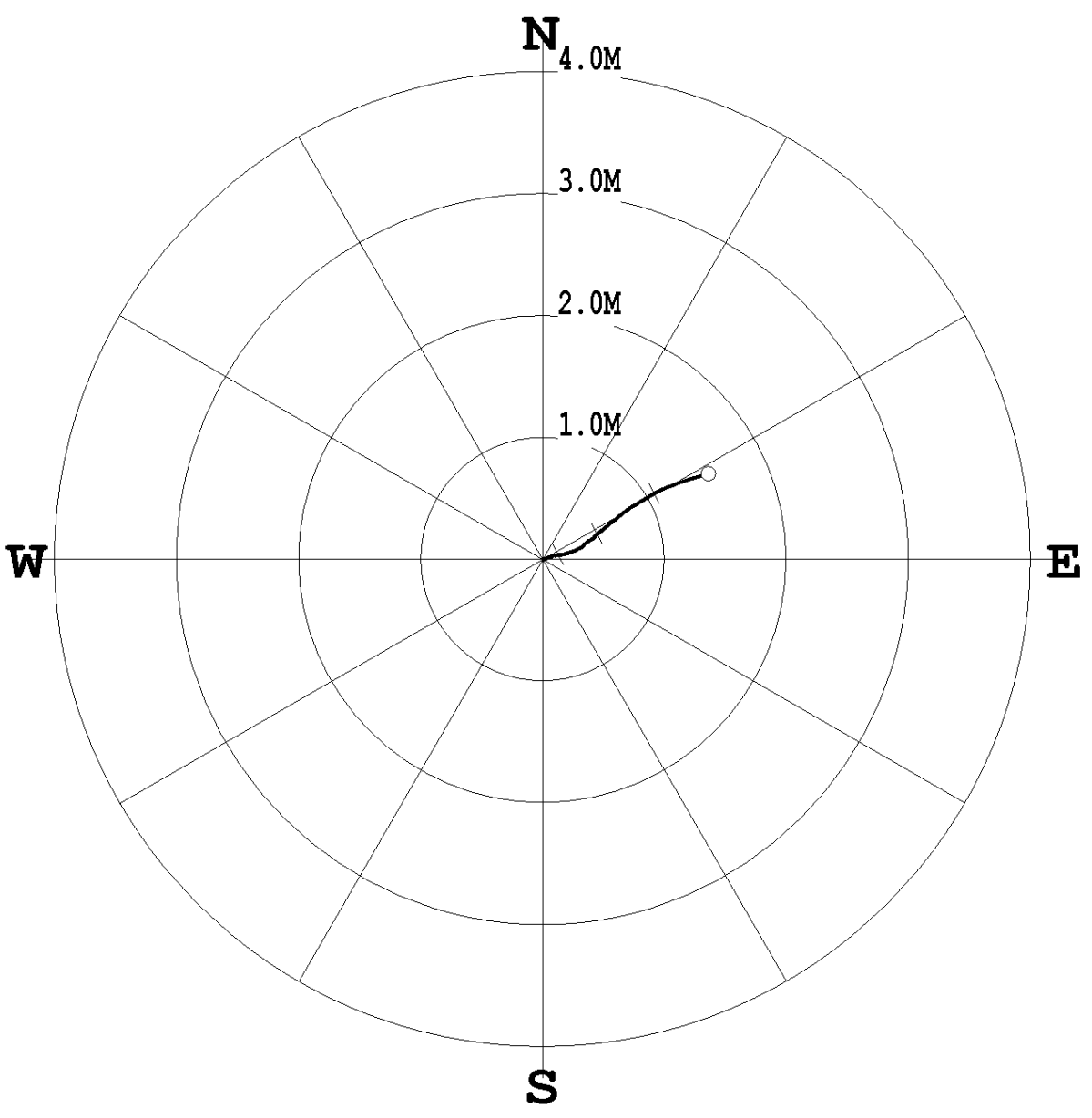
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug24,06	16:38:52	DEN(LS)	1.000	[G/CC]	12031.00	[CPS]
	Aug24,06	16:38:52	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Aug24,06	16:39:08	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug24,06	16:39:08	DEN(SS)	2.383	[G/CC]	9703.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN
HOLE ID: BSTR2006-2
DATE OF LOG: 09/02/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 36.33 M
AZIMUTH: 62.8
DISTANCE: 1.5 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - CALIPER - RESISTIVITY
COMPENSATED DENSITY
BSTR-2006-2

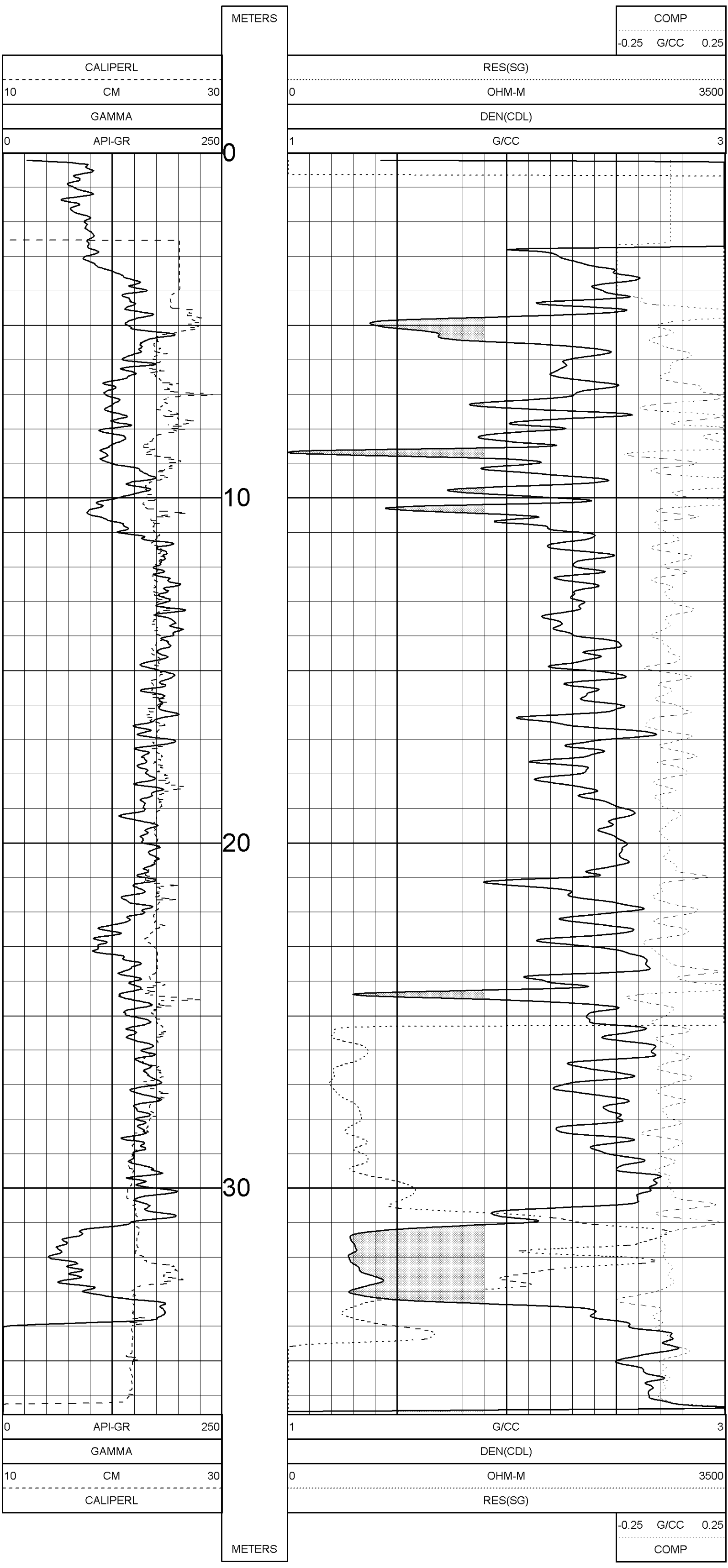
COMPANY	:NORTHERN ENERGY MINING INC		
WELL	:BSTR-2006-2	OTHER SERVICES:	
FIELD	:ROMAN MTN	NA	
COUNTY	:TUMBLER RIDGE	NA	
STATE	:BRITISH COLUMBIA	NA	
LOCATION	:NA		
SECTION	:NA		
TOWNSHIP	:NA		
RANGE	:NA		
API NO.	:NA		
UNIQUE WELL ID.	:NA		
PERMANENT DATUM	:GL	ELEVATION KB :NA	
LOG MEASURED FROM	:GL	ELEVATION DF :NA	
DRL MEASURED FROM	:GL	ELEVATION GL :NA	
DATE	:08/27/06		
DEPTH DRILLER	:37		
BIT SIZE	:20.32		
LOG TOP	:0.21		
LOG BOTTOM	:36.52		
CASING OD	:27.31		
CASING BOTTOM	:4.5		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NA		
MUD RES	:NA		
MUD WEIGHT	:NA		
WITNESSED BY	:NA		
RECORDED BY	:J. SINKWICH		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100CM LOG, GAMMA-RES-DENSITY BSTR-2006-2 08/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 08/27/2006



100CM LOG, GAMMA-RES-DENSITY BSTR-2006-2 08/27/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 20.32
PRESENTATION NAME/DATE = 9239C1.0 08/27/2006

TOOL CALIBRATION BSTR-2006-2 08/27/06 12:09
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

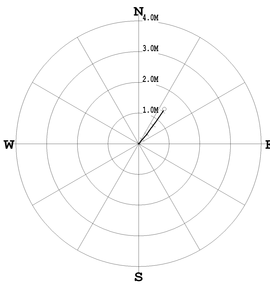
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug22,06	18:59:38	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug22,06	18:59:38	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug22,06	18:59:55	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug22,06	18:59:55	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug22,06	20:50:53	CALIPER	8.890	[CM]	152525.00	[CPS]
	Aug22,06	20:50:53	CALIPER	17.780	[CM]	361025.00	[CPS]
4	Aug24,06	16:38:52	DEN(LS)	1.000	[G/CC]	12031.00	[CPS]
	Aug24,06	16:38:52	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Aug24,06	16:39:08	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Aug24,06	16:39:08	DEN(SS)	2.383	[G/CC]	9703.00	[CPS]
6	Aug22,06	21:03:45	CALIPERL	8.890	[CM]	116975.00	[CPS]
	Aug22,06	21:03:45	CALIPERL	25.400	[CM]	303810.00	[CPS]
7	Aug22,06	19:01:00	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug22,06	19:01:00	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Aug22,06	19:01:07	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN
HOLE ID: BSTR2006-3
DATE OF LOG: 09/02/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 51.64 M
AZIMUTH: 36.6
DISTANCE: 1.4 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
BSTR2006-3

COMPANY	:NEMI		
WELL	:BSTR2006-3		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:09/02/06		
DEPTH DRILLER	:53		
BIT SIZE	:22.86		
LOG TOP	:0.23		
LOG BOTTOM	:51.36		
CASING OD	:25.4		
CASING BOTTOM	:6		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:RON		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

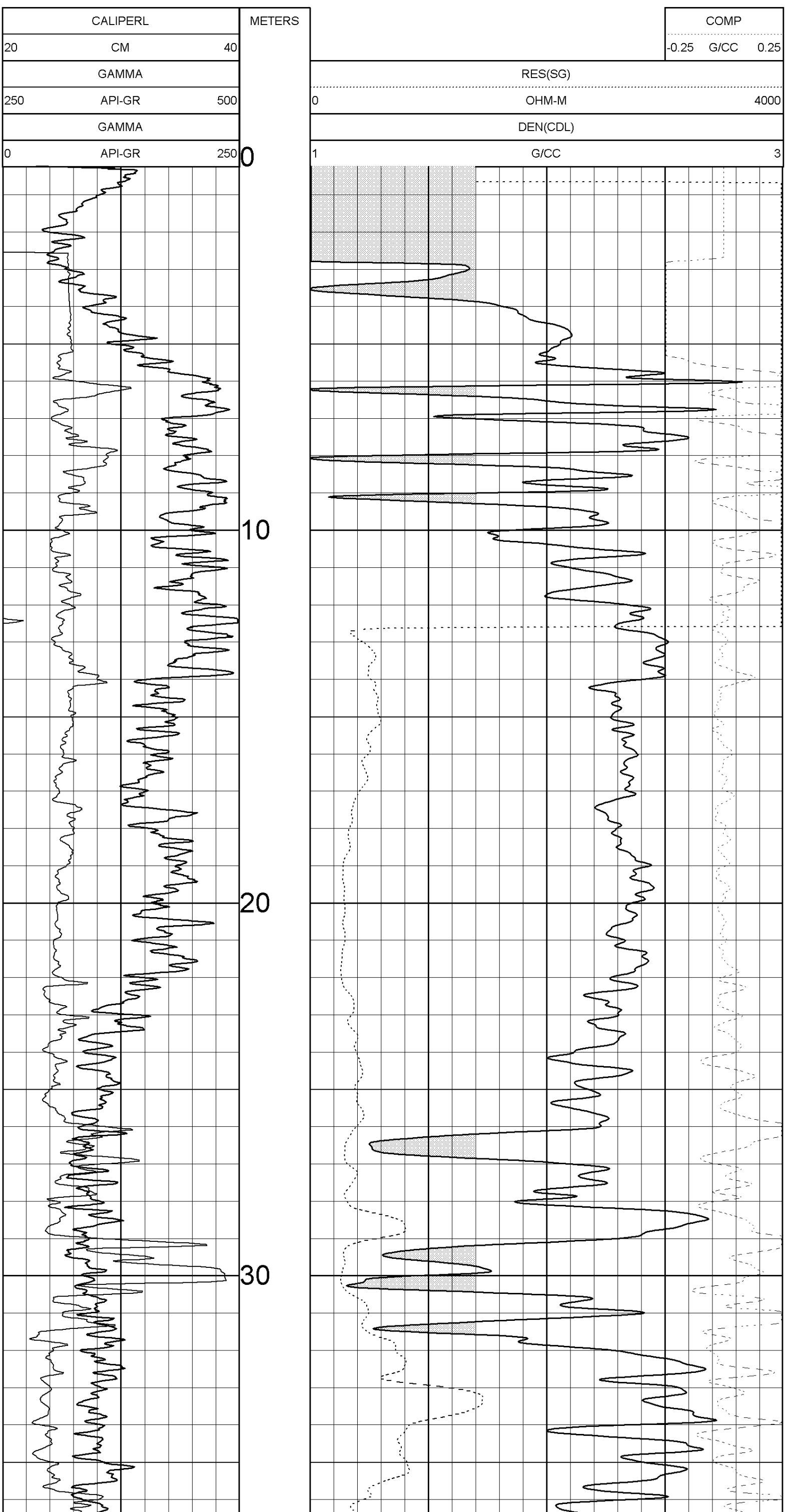
OTHER SERVICES:
DEVIATI

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100 CM LOG, DENSITY-RES-GAMMA BSTR2006-3 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006



100 CM LOG, DENSITY-RES-GAMMA BSTR2006-3 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006

TOOL CALIBRATION BSTR2006-3 09/02/06 11:10
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug01,06	21:46:10	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug01,06	20:46:10	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug01,06	20:46:44	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug01,06	20:46:44	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Sep01,06	22:43:33	CALIPER	8.890	[INCH]	152525.00	[CPS]
	Sep01,06	22:43:33	CALIPER	17.780	[INCH]	361025.00	[CPS]
4	Sep01,06	22:44:28	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Sep01,06	22:44:28	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Sep01,06	22:45:04	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Sep01,06	22:45:04	DEN(SS)	2.383	[G/CC]	9703.00	[CPS]
6	Sep01,06	22:43:00	CALIPERL	8.890	[INCH]	116975.00	[CPS]
	Sep01,06	22:43:00	CALIPERL	25.400	[INCH]	303810.00	[CPS]
7	Aug01,06	20:48:52	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug01,06	20:48:52	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Jun09,06	15:46:25	F	Default	[CPS]		

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GAMMA - CALIPER - RESISTIVITY DENSITY - LONG SPACE BSTR2006-3

COMPANY	:NEMI
WELL	:BSTR2006-3
FIELD	:ROMAN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUBIA
LOCATION	:ROMAN MOUNTAIN
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:NONE
UNIQUE WELL ID.	:
PERMANENT DATUM	:GL
LOG MEASURED FROM	:GL
DRL MEASURED FROM	:GL
DATE	:09/02/06
DEPTH DRILLER	:53
BIT SIZE	:22.86
LOG TOP	:0.23
LOG BOTTOM	:51.36
CASING OD	:25.4
CASING BOTTOM	:6
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NONE
MUD RES	:NONE
MUD WEIGHT	:NONE
WITNESSED BY	:RON
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

OTHER SERVICES: DEVIATI

ELEVATION KB :N/A
ELEVATION DF :N/A
ELEVATION GL :N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

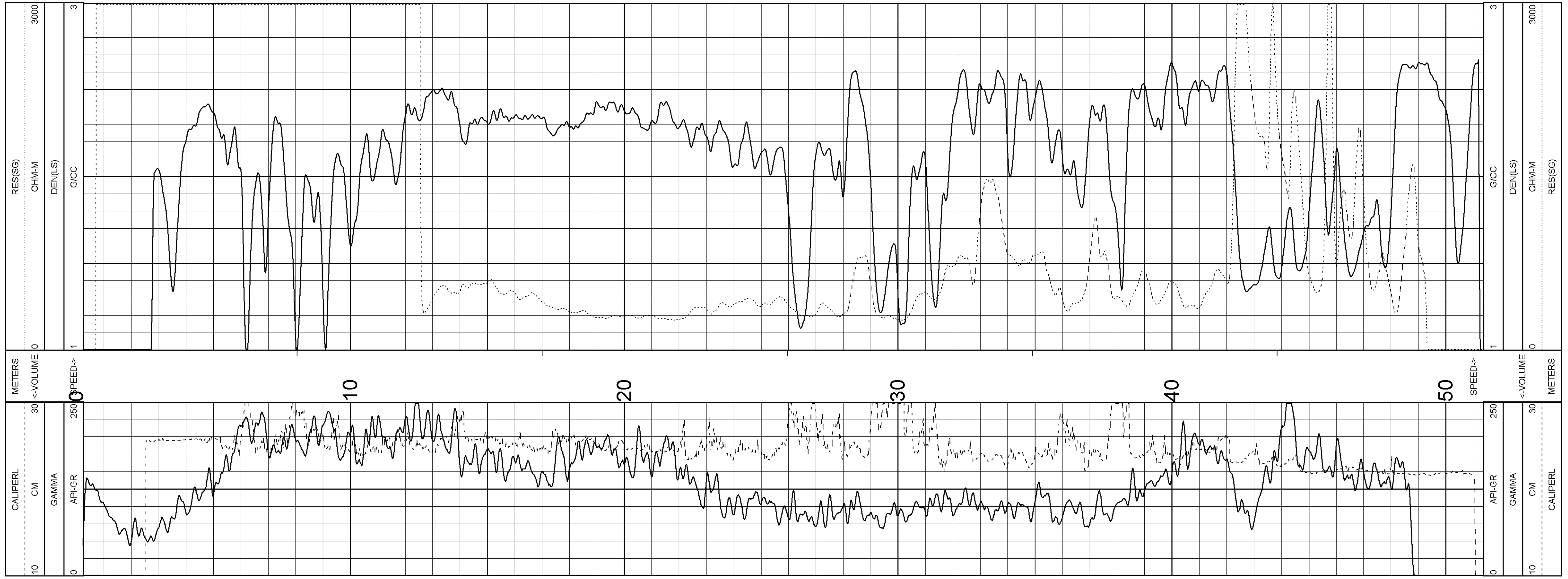
100 CM LOG, DENSITY-RES-GAMMA BSTR2006-3 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9138long space.0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86



100 CM LOG, DENSITY-RES-GAMMA BSTR2006-3 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9138long space.0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86

TOOL CALIBRATION BSTR2006-3 09/02/06 11:10
TOOL 2006 VERSION 2015
SERIAL NUMBER 4410

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug01,06	20:46:10	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Aug01,06	20:46:10	GAMMA	283.000 [API-GR]	270.00 [CPS]
2	Aug01,06	20:46:44	VOLTAGE	0.000 [MV]	4827.00 [CPS]
	Aug01,06	20:46:44	VOLTAGE	2019.000 [MV]	27257.00 [CPS]
3	Sep01,06	22:43:33	CALIPER	8.890 [INCH]	152525.00 [CPS]
	Sep01,06	22:43:33	CALIPER	17.780 [INCH]	391025.00 [CPS]
4	Sep01,06	22:44:28	DEN(LS)	2.383 [G/CC]	1208.00 [CPS]
	Sep01,06	22:44:28	DEN(LS)	1.000 [G/CC]	22004.00 [CPS]
5	Sep01,06	22:45:04	DEN(SS)	2.383 [G/CC]	19703.00 [CPS]
	Sep01,06	22:45:04	DEN(SS)	1.000 [G/CC]	115855.00 [CPS]
6	Sep01,06	22:43:00	CALIPER1	25.400 [INCH]	303810.00 [CPS]
	Sep01,06	22:43:00	CALIPER1	0.000 [INCH]	5271.00 [CPS]
7	Aug01,06	20:48:52	CURRENT	0.000 [UA]	26912.00 [CPS]
	Aug01,06	20:48:52	CURRENT	286.000 [UA]	
8	Jun08,06	19:48:25	E	Default [CPS]	

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GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
BSTR2006-3

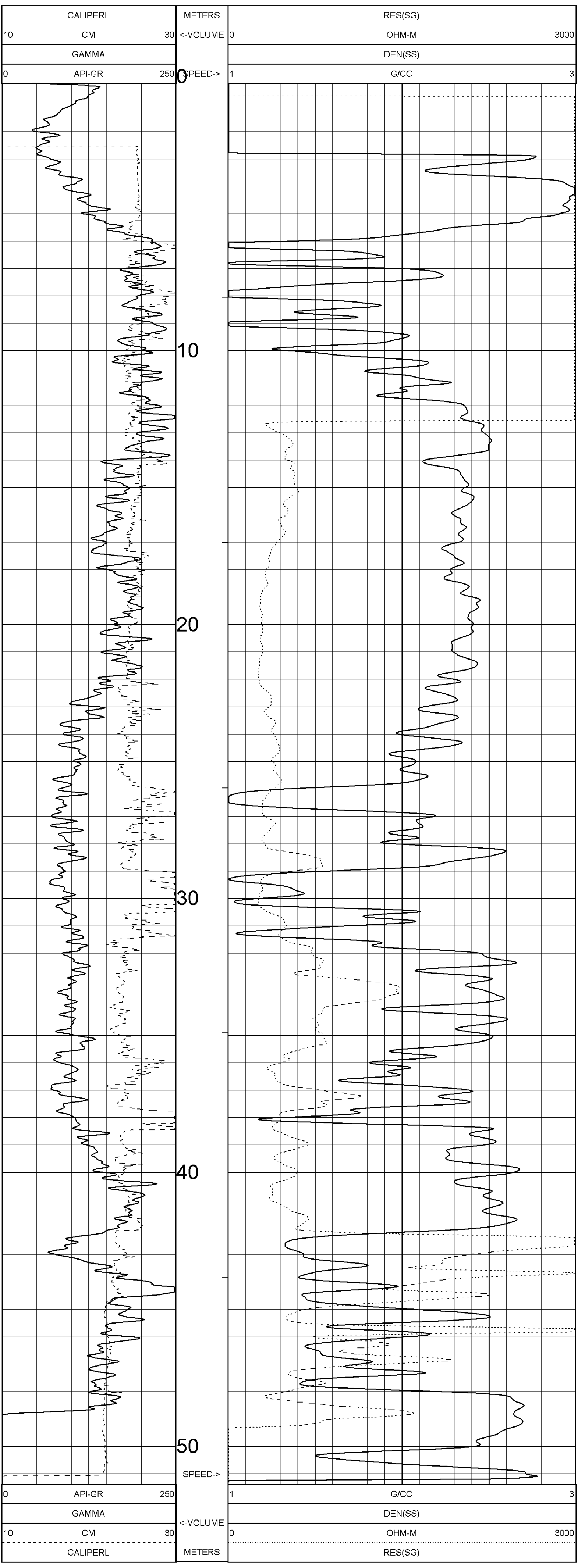
COMPANY	:NEMI		
WELL	:BSTR2006-3		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN	OTHER SERVICES:	
SECTION	:N/A	DEVIATI	
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:09/02/06		
DEPTH DRILLER	:53		
BIT SIZE	:22.86		
LOG TOP	:0.23		
LOG BOTTOM	:51.36		
CASING OD	:25.4		
CASING BOTTOM	:6		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:RON		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100 CM LOG, DENSITY-RES-GAMMA BSTR2006-3 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005



100 CM LOG, DENSITY-RES-GAMMA BSTR2006-3 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005

TOOL CALIBRATION BSTR2006-3 09/02/06 11:10
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

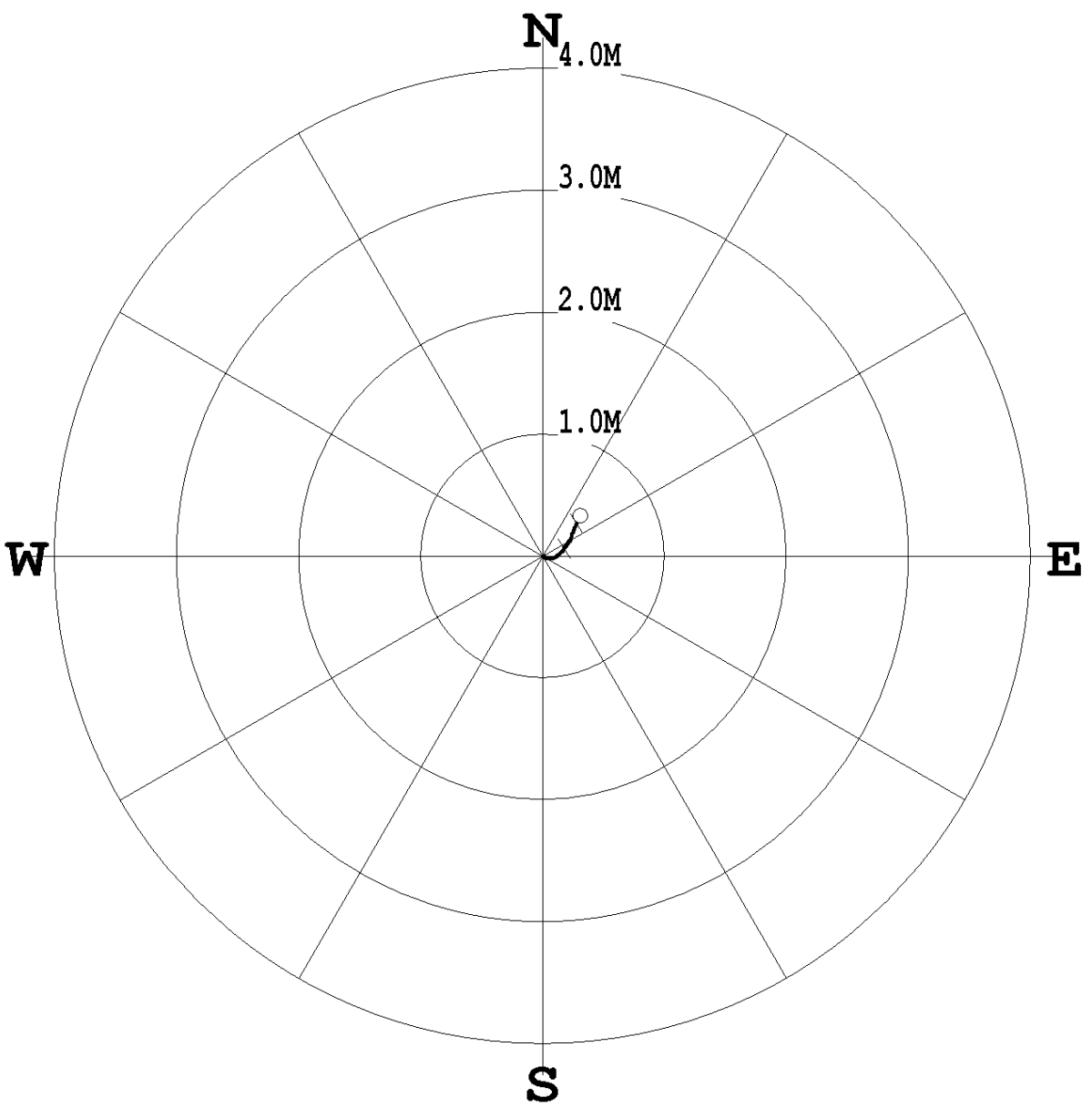
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug01,06	20:46:10	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug01,06	20:46:10	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug01,06	20:46:44	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug01,06	20:46:44	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Sep01,06	22:43:33	CALIPER	8.890	[INCH]	152525.00	[CPS]
	Sep01,06	22:43:33	CALIPER	17.780	[INCH]	361025.00	[CPS]
4	Sep01,06	22:44:28	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Sep01,06	22:44:28	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Sep01,06	22:45:04	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Sep01,06	22:45:04	DEN(SS)	2.383	[G/CC]	9703.00	[CPS]
6	Sep01,06	22:43:00	CALIPERL	8.890	[INCH]	116975.00	[CPS]
	Sep01,06	22:43:00	CALIPERL	25.400	[INCH]	303810.00	[CPS]
7	Aug01,06	20:48:52	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug01,06	20:48:52	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Jun09,06	15:46:25	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN
HOLE ID: BSTR2006-4
DATE OF LOG: 09/02/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 45.43 M
AZIMUTH: 43.0
DISTANCE: 0.5 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
BSTR2006-4

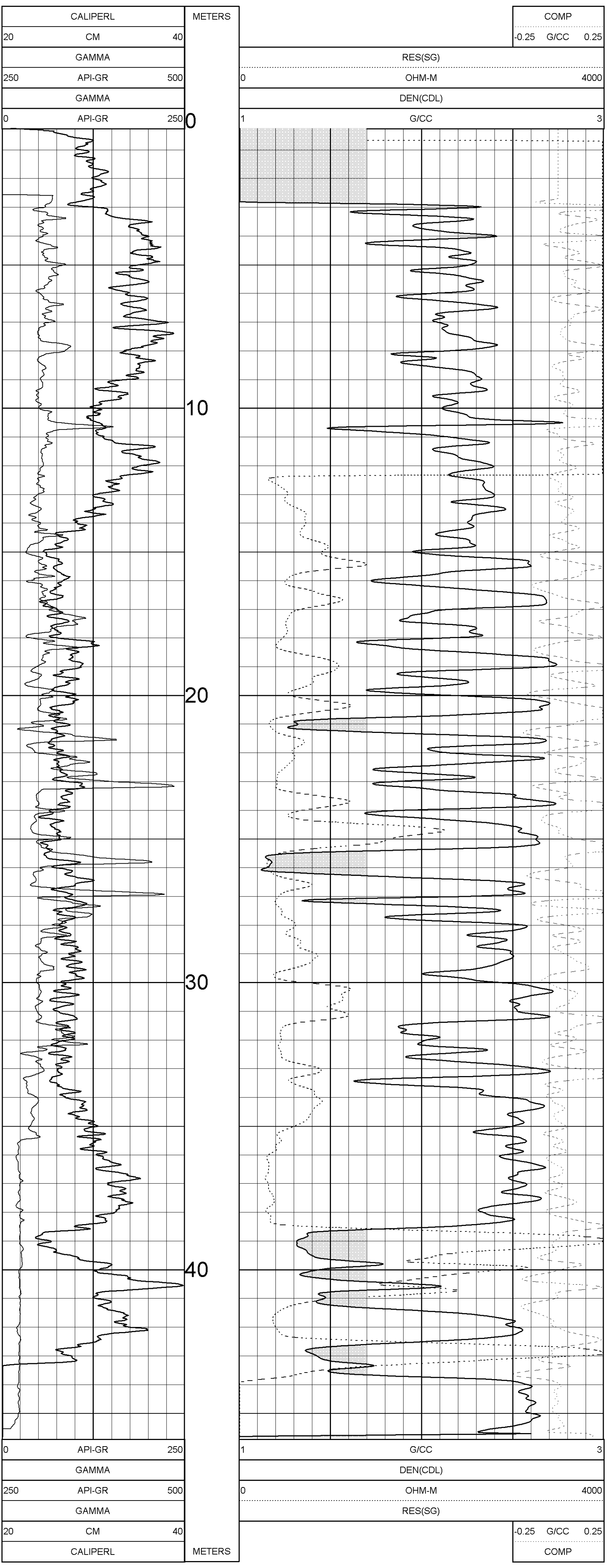
COMPANY	:NEMI		
WELL	:BSTR2006-4		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN	OTHER SERVICES:	
SECTION	:N/A	DEVIATI	
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:09/02/06		
DEPTH DRILLER	:47		
BIT SIZE	:22.86		
LOG TOP	:0.25		
LOG BOTTOM	:45.87		
CASING OD	:25.4		
CASING BOTTOM	:6		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:RON		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100 CM LOG, DENSITY-RES-GAMMA BSTR2006-4 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006



100 CM LOG, DENSITY-RES-GAMMA BSTR2006-4 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006

TOOL CALIBRATION BSTR2006-4 09/02/06 11:31
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug01,06	20:46:10	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug01,06	20:46:10	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug01,06	20:46:44	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug01,06	20:46:44	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Sep01,06	22:43:33	CALIPER	8.890	[INCH]	152525.00	[CPS]
	Sep01,06	22:43:33	CALIPER	17.780	[INCH]	361025.00	[CPS]
4	Sep01,06	22:44:28	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Sep01,06	22:44:28	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Sep01,06	22:45:04	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Sep01,06	22:45:04	DEN(SS)	2.383	[G/CC]	9703.00	[CPS]
6	Sep01,06	22:43:00	CALIPERL	8.890	[INCH]	116975.00	[CPS]
	Sep01,06	22:43:00	CALIPERL	25.400	[INCH]	303810.00	[CPS]
7	Aug01,06	20:48:52	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug01,06	20:48:52	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Jun09,06	15:46:25	F	Default	[CPS]		

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GAMMA - CALIPER - RESISTIVITY DENSITY - LONG SPACE BSTR2006-4

COMPANY	:NEMI
WELL	:BSTR2006-4
FIELD	:ROMAN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUBIA
LOCATION	:ROMAN MOUNTAIN
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:NONE
UNIQUE WELL ID.	:
PERMANENT DATUM	:GL
LOG MEASURED FROM	:GL
DRL MEASURED FROM	:GL
DATE	:09/02/06
DEPTH DRILLER	:47
BIT SIZE	:22.86
LOG TOP	:0.25
LOG BOTTOM	:45.87
CASING OD	:25.4
CASING BOTTOM	:6
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NONE
MUD RES	:NONE
MUD WEIGHT	:NONE
WITNESSED BY	:RON
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

OTHER SERVICES: DEVIATI

ELEVATION KB :N/A
ELEVATION DF :N/A
ELEVATION GL :N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

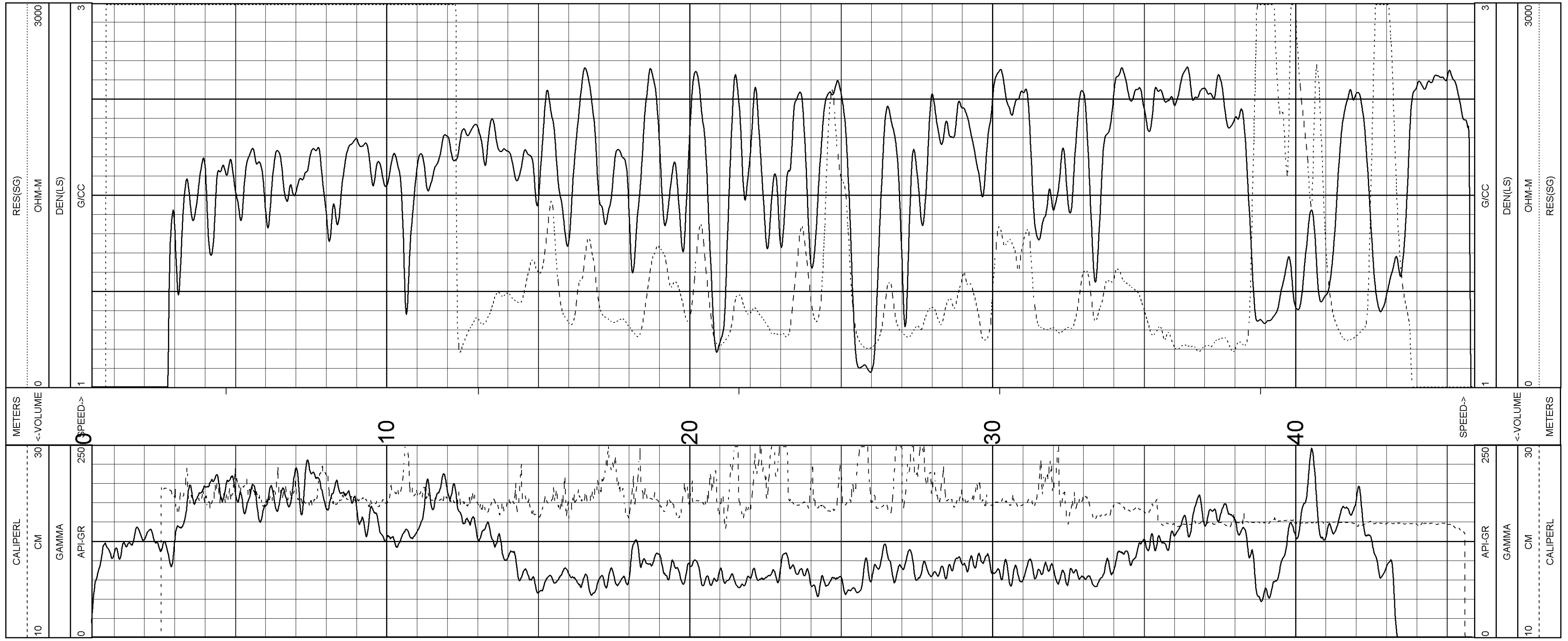
100 CM LOG, DENSITY-RES-GAMMA BSTR2006-4 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139long space.0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86



100 CM LOG, DENSITY-RES-GAMMA BSTR2006-4 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139long space.0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86

TOOL CALIBRATION BSTR2006-4 09/02/06 11:31
TOOL: E238CS TM VERSION 2015
SERIAL NUMBER: 410

	DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Aug01,06	20:46:10	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug01,06	20:46:10	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug01,06	20:46:44	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug01,06	20:46:44	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Aug01,06	22:43:33	CALIPER	0.000	[INCH]	1515225.00	[CPS]
	Sep01,06	22:43:33	CALIPER	17.780	[INCH]	361025.00	[CPS]
4	Sep01,06	22:44:28	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Sep01,06	22:44:28	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Sep01,06	22:45:04	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Sep01,06	22:45:04	DEN(SS)	2.383	[G/CC]	2203.00	[CPS]
6	Sep01,06	22:43:00	CALIPERL	8.890	[INCH]	1169975.00	[CPS]
	Sep01,06	22:43:00	CALIPERL	25.400	[INCH]	3038810.00	[CPS]
7	Aug01,06	20:48:52	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug01,06	20:48:52	CURRENT	200.000	[UA]	269912.00	[CPS]
8	Jun09,06	15:46:25	F	Default	[CPS]		

Century GEOPHYSICAL CORP.

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GAMMA - CALIPER - RESISTIVITY DENSITY - SHORT SPACE BSTR2006-4

COMPANY	:NEMI
WELL	:BSTR2006-4
FIELD	:ROMAN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUBIA
LOCATION	:ROMAN MOUNTAIN
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:NONE
UNIQUE WELL ID.	:
PERMANENT DATUM	:GL
LOG MEASURED FROM	:GL
DRL MEASURED FROM	:GL
DATE	:09/02/06
DEPTH DRILLER	:47
BIT SIZE	:22.86
LOG TOP	:0.25
LOG BOTTOM	:45.87
CASING OD	:25.4
CASING BOTTOM	:6
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NONE
MUD RES	:NONE
MUD WEIGHT	:NONE
WITNESSED BY	:RON
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

OTHER SERVICES: DEVIATI

ELEVATION KB :N/A
ELEVATION DF :N/A
ELEVATION GL :N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

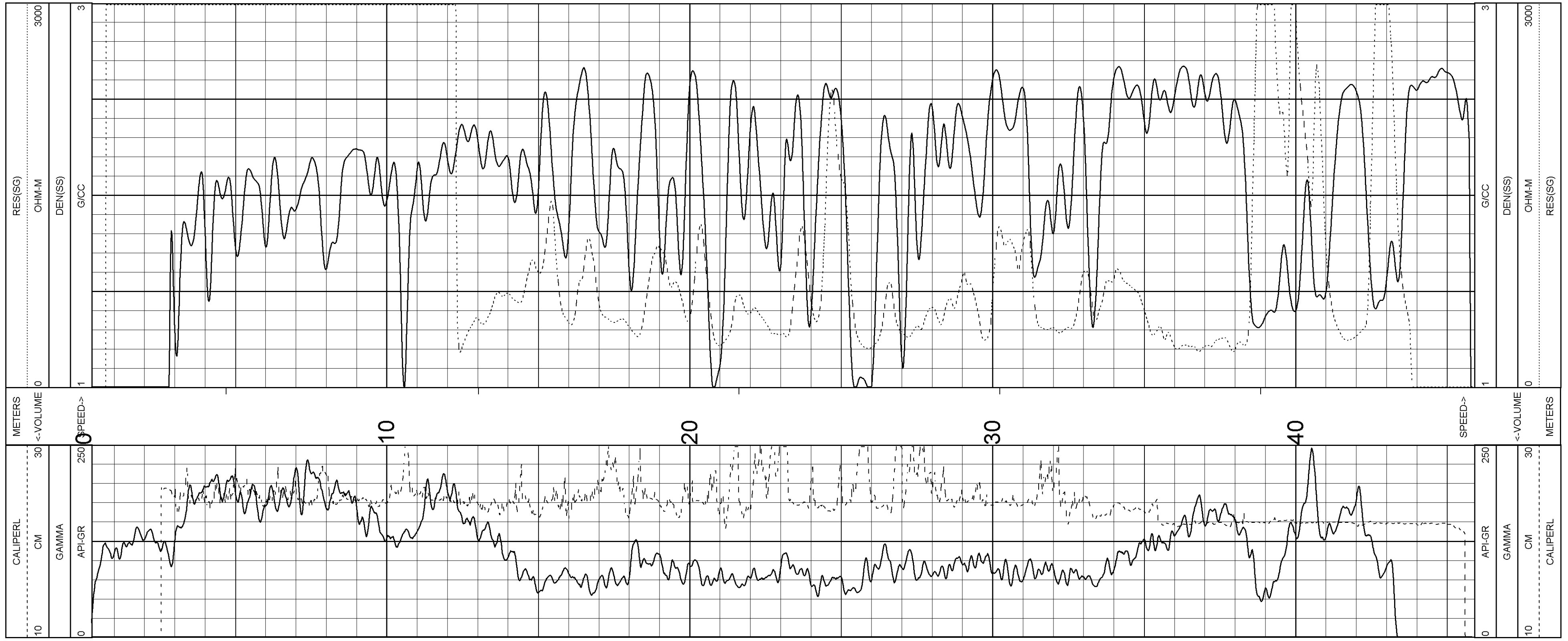
100 CM LOG, DENSITY-RES-GAMMA BSTR2006-4 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86



100 CM LOG, DENSITY-RES-GAMMA BSTR2006-4 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86

TOOL CALIBRATION BSTR2006-4 09/02/06 11:31
TOOL: E238CC TM VERSION 2015
SERIAL NUMBER: 410

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug01,06	20:46:10	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Aug01,06	20:46:10	GAMMA	283.000 [API-GR]	270.00 [CPS]
2	Aug01,06	20:46:44	VOLTAGE	0.000 [MV]	4627.00 [CPS]
	Aug01,06	20:46:44	VOLTAGE	2019.000 [MV]	272837.00 [CPS]
3	Aug01,06	20:47:00	CURRENT	0.000 [MA]	1553125.00 [CPS]
	Sep01,06	22:43:33	CALIPER	17.780 [INCH]	361025.00 [CPS]
4	Sep01,06	22:44:28	DEN(LS)	1.000 [G/CC]	12531.00 [CPS]
	Sep01,06	22:44:28	DEN(LS)	2.383 [G/CC]	11206.00 [CPS]
5	Sep01,06	22:45:04	DEN(SS)	1.000 [G/CC]	22004.00 [CPS]
	Sep01,06	22:45:04	DEN(SS)	2.383 [G/CC]	20703.00 [CPS]
6	Sep01,06	22:43:00	CALIPERL	8.890 [INCH]	116975.00 [CPS]
	Sep01,06	22:43:00	CALIPERL	25.400 [INCH]	303810.00 [CPS]
7	Aug01,06	20:48:52	CURRENT	0.000 [UA]	5271.00 [CPS]
	Aug01,06	20:48:52	CURRENT	200.000 [UA]	269912.00 [CPS]
8	Jun09,06	15:46:25	F	Default [CPS]	

Century GEOPHYSICAL CORP.
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GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
BSTR2006-5

COMPANY	:NEMI		
WELL	:BSTR2006-5		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:09/02/06		
DEPTH DRILLER	:58.5		
BIT SIZE	:22.86		
LOG TOP	:0.22		
LOG BOTTOM	:57.71		
CASING OD	:25.4		
CASING BOTTOM	:3		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NON		
WITNESSED BY	:RON		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

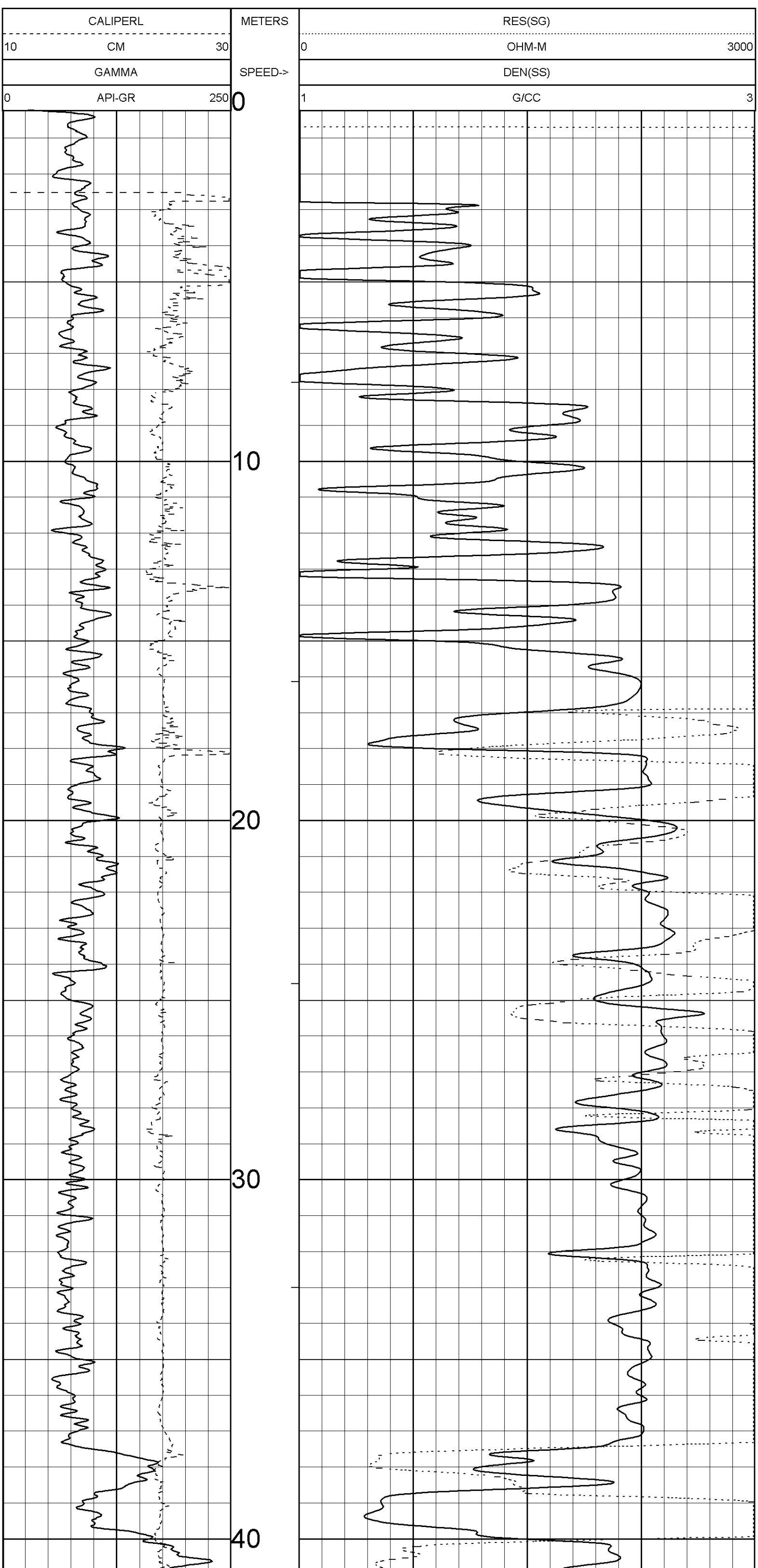
OTHER SERVICES:
DEVIATI

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

100 CM LOG, DENISTY-RES-GAMMA BSTR2006-5 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005 VERSION = 3.64EB



100 CM LOG, DENISTY-RES-GAMMA BSTR2006-5 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005 VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-5 09/02/06 12:44
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 410

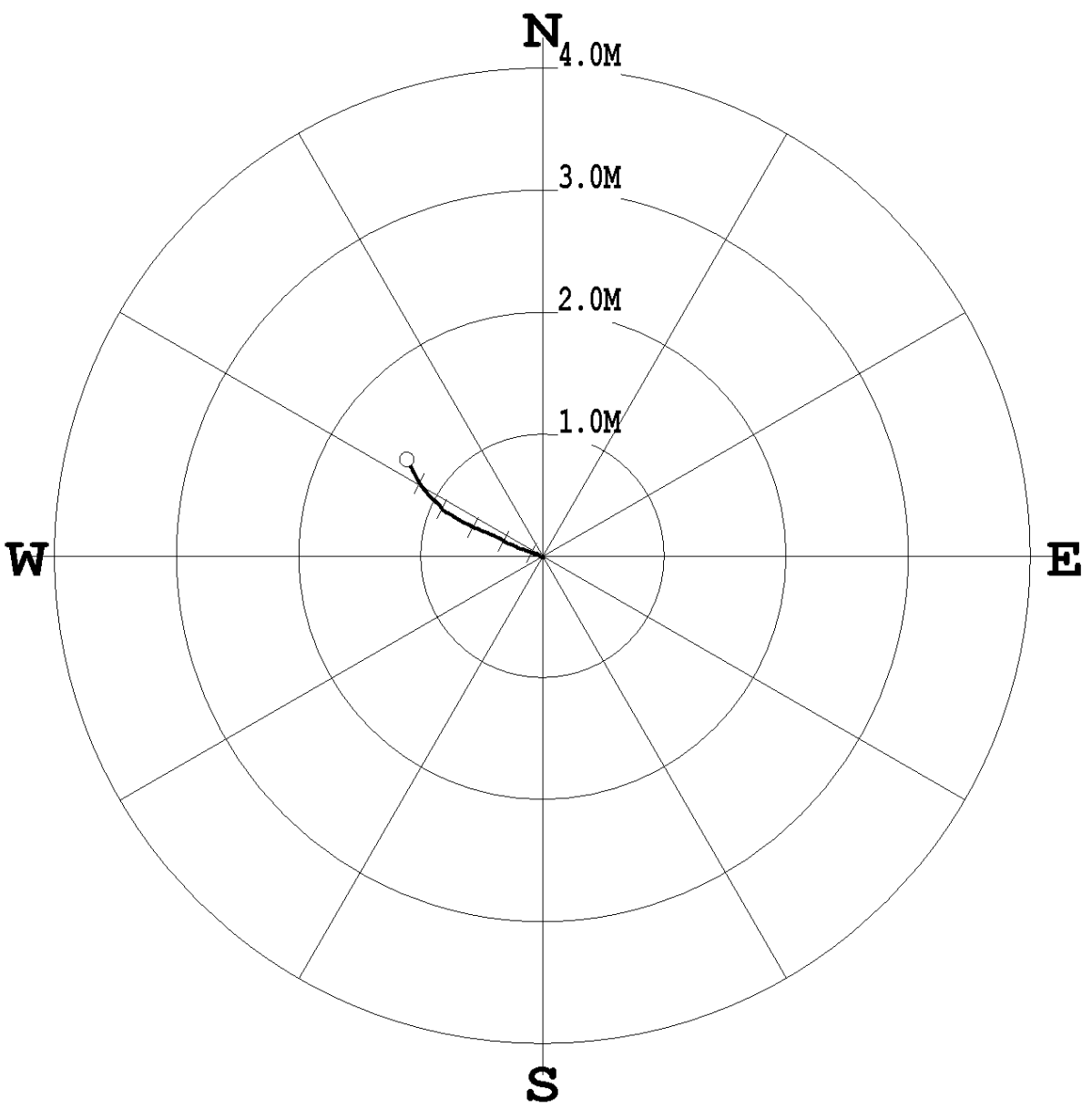
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug01,06	13:46:10	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug01,06	13:46:10	GAMMA	283.000	[API-GR]	270.00	[CPS]
2	Aug01,06	13:46:44	VOLTAGE	0.000	[MV]	4627.00	[CPS]
	Aug01,06	13:46:44	VOLTAGE	2019.000	[MV]	272837.00	[CPS]
3	Sep01,06	15:43:33	CALIPER	8.890	[INCH]	152525.00	[CPS]
	Sep01,06	15:43:33	CALIPER	17.780	[INCH]	361025.00	[CPS]
4	Sep01,06	15:44:28	DEN(LS)	1.000	[G/CC]	12531.00	[CPS]
	Sep01,06	15:44:28	DEN(LS)	2.383	[G/CC]	1206.00	[CPS]
5	Sep01,06	15:45:04	DEN(SS)	1.000	[G/CC]	22004.00	[CPS]
	Sep01,06	15:45:04	DEN(SS)	2.383	[G/CC]	9703.00	[CPS]
6	Sep01,06	15:43:00	CALIPERL	8.890	[INCH]	116975.00	[CPS]
	Sep01,06	15:43:00	CALIPERL	25.400	[INCH]	303810.00	[CPS]
7	Aug01,06	13:48:52	CURRENT	0.000	[UA]	5271.00	[CPS]
	Aug01,06	13:48:52	CURRENT	289.000	[UA]	26912.00	[CPS]
8	Jun09,06	08:46:25	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN
HOLE ID: BSTR2006-5
DATE OF LOG: 09/02/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 57.76 M
AZIMUTH: 305.6
DISTANCE: 1.4 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY COMPENSATED DENSITY BSTR2006-5

COMPANY	:NEMI		OTHER SERVICES: DEVIATI
WELL	:BSTR2006-5		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB :N/A	
LOG MEASURED FROM	:GL	ELEVATION DF :N/A	
DRL MEASURED FROM	:GL	ELEVATION GL :N/A	
DATE	:09/02/06		
DEPTH DRILLER	:58.5		
BIT SIZE	:22.86		
LOG TOP	:0.22		
LOG BOTTOM	:57.71		
CASING OD	:25.4		
CASING BOTTOM	:3		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NON		
WITNESSED BY	:RON		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

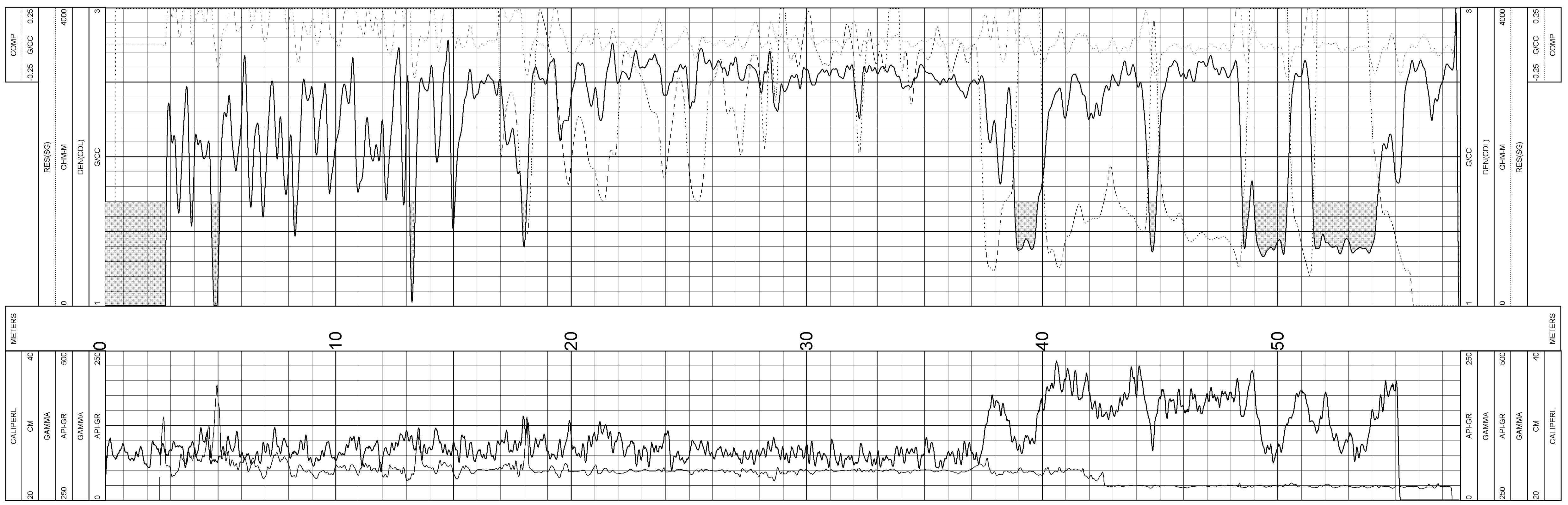
100 CM LOG, DENISTY-RES-GAMMA BSTR2006-5 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1 0 09/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86
VERSION = 3.94EB



100 CM LOG, DENISTY-RES-GAMMA BSTR2006-5 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1 0 09/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86
VERSION = 3.94EB

TOOL CALIBRATION BSTR2006-5 09/02/06 12:44
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBERS 410

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Aug01.06	13:46:10	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Aug01.06	13:46:10	GAMMA	283.000 [API-GR]	270.00 [CPS]
2	Aug01.06	13:46:44	VOLTAGE	4.000 [MV]	4.00 [CPS]
	Aug01.06	13:46:44	VOLTAGE	2016.000 [MV]	27827.00 [CPS]
3	Sep01.06	15:43:33	CALIPER	8.890 [INCH]	152525.00 [CPS]
	Sep01.06	15:43:33	CALIPER	17.000 [INCH]	36001.00 [CPS]
4	Sep01.06	15:44:28	DEN(LS)	2.383 [G/CC]	12531.00 [CPS]
	Sep01.06	15:44:28	DEN(LS)	2.383 [G/CC]	1206.00 [CPS]
5	Sep01.06	15:45:04	DEN(SS)	2.393 [G/CC]	27202.00 [CPS]
	Sep01.06	15:45:04	DEN(SS)	2.393 [G/CC]	9703.00 [CPS]
6	Sep01.06	15:43:00	CALIPERL	8.890 [INCH]	116975.00 [CPS]
	Sep01.06	15:43:00	CALIPERL	17.000 [INCH]	36000.00 [CPS]
7	Aug01.06	13:48:52	CURRENT	0.000 [U/A]	5271.00 [CPS]
	Aug01.06	13:48:52	CURRENT	289.000 [U/A]	20912.00 [CPS]
8	Jul08.06	08:46:25	F	Default [CPS]	

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GAMMA - CALIPER - RESISTIVITY DENSITY - LONG SPACE BSTR2006-5

COMPANY	:NEMI	OTHER SERVICES:	
WELL	:BSTR2006-5	DEVIATI	
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:09/02/06		
DEPTH DRILLER	:58.5		
BIT SIZE	:22.86		
LOG TOP	:0.22		
LOG BOTTOM	:57.71		
CASING OD	:25.4		
CASING BOTTOM	:3		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NON		
WITNESSED BY	:RON		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

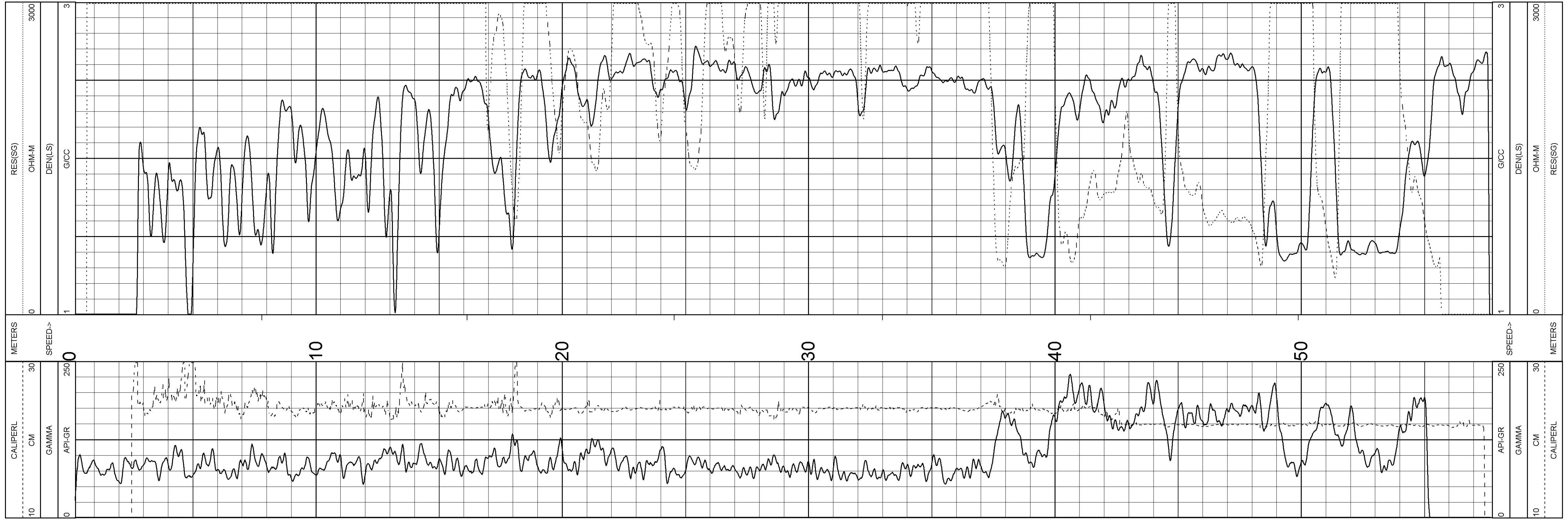
100 CM LOG, DENISTY-RES-GAMMA BSTR2006-5 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 91399ong space 0 04/28/2005

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86
VERSION = 3.94EB



100 CM LOG, DENISTY-RES-GAMMA BSTR2006-5 09/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 91399ong space 0 04/28/2005

NEUTRON MATRIX : SANDSTONE
ELECT CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 22.86
VERSION = 3.94EB

TOOL CALIBRATION: BSTR2006-5 09/02/06 12:44
TOOL: 91399CALI TYPE: VERSION 2015
SERIAL NUMBER 410

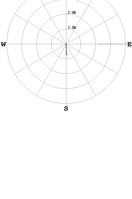
	DATE	TIME	SENSOR	STANDARD	RESPONSE
			GAMMA	0.000 [API-GR]	2.00 [CPS]
1	Aug01,06	13:46:10	GAMMA	283.000 [API-GR]	270.00 [CPS]
	Aug01,06	13:46:10	VOLTAGE	0.000 [MV]	4.00 [CPS]
2	Aug01,06	13:46:44	VOLTAGE	2019.000 [MV]	2728357.00 [CPS]
	Aug01,06	13:46:44	CALIPER	8.890 [INCH]	1525225.00 [CPS]
3	Sep01,06	15:43:33	CALIPER	17.780 [INCH]	3054100.00 [CPS]
	Sep01,06	15:43:33	DEN(LS)	1.000 [G/CC]	12531.00 [CPS]
4	Sep01,06	15:44:28	DEN(LS)	2.383 [G/CC]	1208.00 [CPS]
	Sep01,06	15:44:28	DEN(SS)	1.000 [G/CC]	27200.00 [CPS]
5	Sep01,06	15:45:04	DEN(SS)	2.383 [G/CC]	9703.00 [CPS]
	Sep01,06	15:45:04	CALIPER	8.890 [INCH]	1116975.00 [CPS]
6	Sep01,06	15:43:00	CALIPER	24.400 [INCH]	3054100.00 [CPS]
	Sep01,06	15:43:00	CURRENT	0.000 [UA]	35271.00 [CPS]
7	Aug01,06	13:48:52	CURRENT	288.000 [UA]	26912.00 [CPS]
	Aug01,06	13:48:52	F	Default [CPS]	
8	Jun08,06	08:46:25			

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: MMAC
LOCATION: BUNAN
WELL ID: BUTRESOV-11
DATE OF RUN: 09/05/94
DRAWN: MCLA DM

MAG DECL: 21.0

SCALE: 1 NCH=
TRUE DEPTH: 41.0 M
AZIMUTH: 176.1
DISPLACEMENT: 3.6
0.0 M SOUTH
+ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
BSTR2006-11

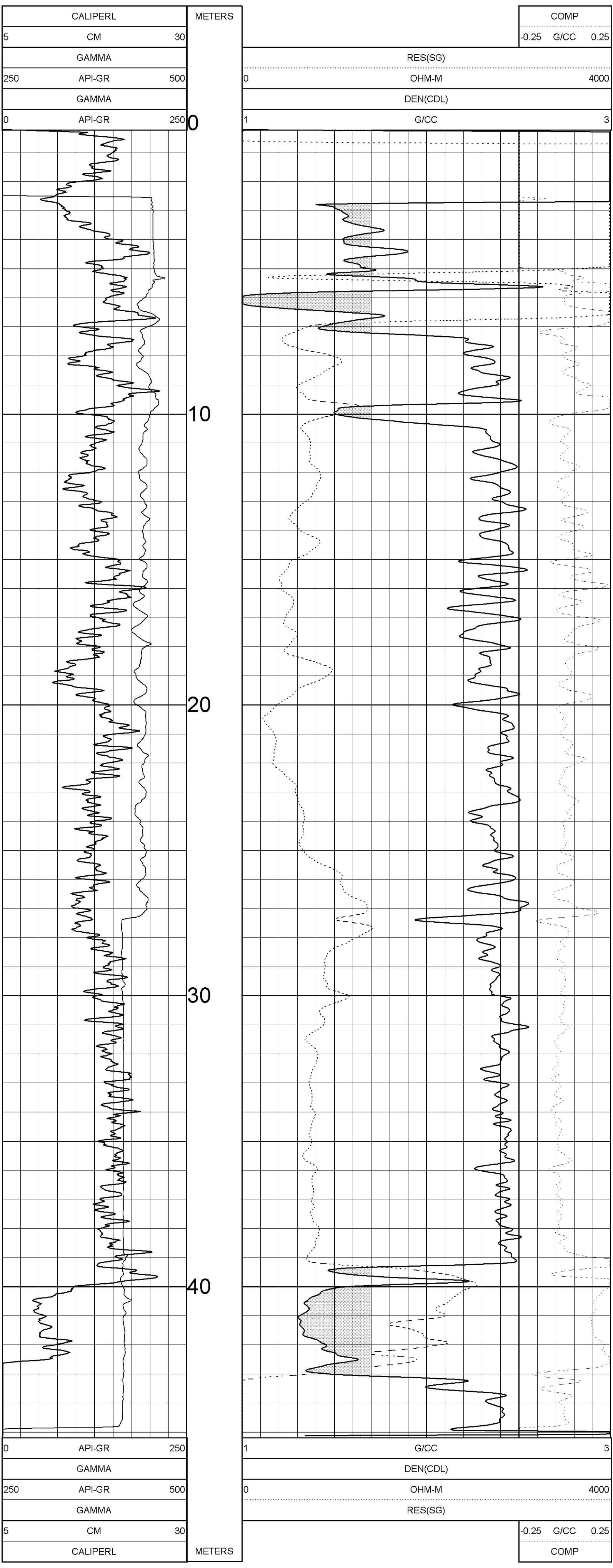
COMPANY	:NEMI		
WELL	:BSTR2006-11		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN	OTHER SERVICES:	
SECTION	:N/A	ELEVATIO	
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB :N/A	
LOG MEASURED FROM	:GL	ELEVATION DF :N/A	
DRL MEASURED FROM	:GL	ELEVATION GL :N/A	
DATE	:09/20/06		
DEPTH DRILLER	:47.24		
BIT SIZE	:15.24		
LOG TOP	:0.22		
LOG BOTTOM	:45.15		
CASING OD	:15.88		
CASING BOTTOM	:5.5		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-11 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006		VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-11 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006		VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-11 09/20/06 17:37
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14,06	08:59:20	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Apr14,06	08:59:20	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Apr14,06	08:49:21	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Apr14,06	08:49:21	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	May23,06	14:15:05	CALIPER	4.000	[INCH]	228730.00	[CPS]
	May23,06	14:15:05	CALIPER	6.000	[INCH]	343648.00	[CPS]
4	Sep20,06	17:33:32	DEN(LS)	1.000	[G/CC]	10511.00	[CPS]
	Sep21,06	08:22:37	DEN(LS)	2.383	[G/CC]	700.00	[CPS]
5	Sep20,06	17:33:43	DEN(SS)	1.000	[G/CC]	18101.00	[CPS]
	Sep21,06	08:22:27	DEN(SS)	2.383	[G/CC]	7400.00	[CPS]
6	Sep19,06	11:07:02	CALIPERL	15.240	[INCH]	256068.00	[CPS]
	Sep19,06	11:07:02	CALIPERL	25.400	[INCH]	385794.00	[CPS]
7	Apr14,06	08:51:53	CURRENT	99.600	[UA]	10840.00	[CPS]
	Apr14,06	08:51:53	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	08:47:07	F	0.790	[ ]		

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GAMMA - CALIPER - RESISTIVITY DENSITY - LONG SPACE BSTR2006-11

COMPANY	:NEMI
WELL	:BSTR2006-11
FIELD	:ROMAN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUBIA
OTHER SERVICES:	ELEVATIO
LOCATION	:ROMAN MOUNTAIN
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:NONE
UNIQUE WELL ID.	:
PERMANENT DATUM	:GL ELEVATION KB :N/A
LOG MEASURED FROM	:GL ELEVATION DF :N/A
DRL MEASURED FROM	:GL ELEVATION GL :N/A
DATE	:09/20/06
DEPTH DRILLER	:47.24
BIT SIZE	:15.24
LOG TOP	:0.22
LOG BOTTOM	:45.15
CASING OD	:15.88
CASING BOTTOM	:5.5
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NONE
MUD RES	:NONE
MUD WEIGHT	:NONE
WITNESSED BY	:
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

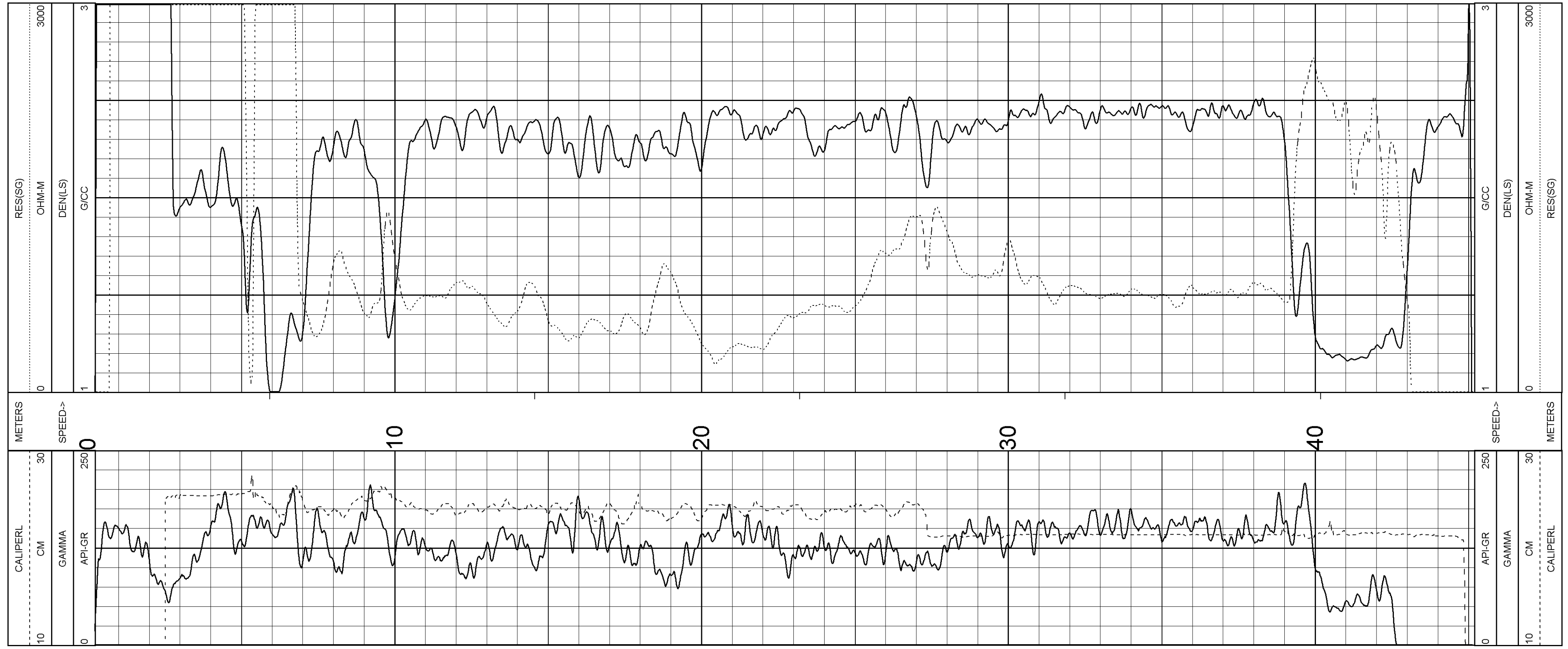
1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-11 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139long space.0 04/28/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24
VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-11 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139long space.0 04/28/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24
VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-11 09/20/06 17:37
TOOL: GSR-CM, TV VERSION 2015
SERIAL NUMBER : 1245

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Apr14.06	08:59:20	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Apr14.06	08:59:20	GAMMA	283.000 [API-GR]	294.00 [CPS]
2	Apr14.06	08:46:21	VOLTAGE	31.850 [MV]	5358.30 [CPS]
	Apr14.06	08:46:21	VOLTAGE	572.000 [MV]	29881.10 [CPS]
3	Apr14.06	08:51:53	CALIPER	4.000 [INCH]	226800.00 [CPS]
	Apr14.06	14:15:05	CALIPER	6.000 [INCH]	343848.00 [CPS]
	May23.06		DEN(LS)	1.000 [G/CC]	10511.00 [CPS]
4	Sep20.06	17:33:32	DEN(LS)	2.383 [G/CC]	700.00 [CPS]
	Sep21.06	08:22:37	DEN(SS)	1.000 [G/CC]	1910.00 [CPS]
5	Sep21.06	08:22:49	DEN(SS)	2.383 [G/CC]	7420.00 [CPS]
	Sep21.06	08:22:27	CALIPER	15.240 [INCH]	256068.00 [CPS]
6	Sep19.06	11:07:02	CALIPER	25.400 [INCH]	385794.00 [CPS]
	Sep19.06	11:07:02	CURRENT	89.600 [UA]	10840.00 [CPS]
7	Apr14.06	08:51:53	CURRENT	252.000 [UA]	29120.00 [CPS]
	Apr14.06	08:47:07	F	0.790 [ ]	
8	Apr14.06	08:47:07			

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GAMMA - CALIPER - RESISTIVITY DENSITY - SHORT SPACE BSTR2006-11

COMPANY	:NEMI
WELL	:BSTR2006-11
FIELD	:ROMAN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUBIA
OTHER SERVICES:	DEVATIO
LOCATION	:ROMAN MOUNTAIN
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:NONE
UNIQUE WELL ID.	:
PERMANENT DATUM	:GL ELEVATION KB :N/A
LOG MEASURED FROM	:GL ELEVATION DF :N/A
DRL MEASURED FROM	:GL ELEVATION GL :N/A
DATE	:09/20/06
DEPTH DRILLER	:47.24
BIT SIZE	:15.24
LOG TOP	:0.22
LOG BOTTOM	:45.15
CASING OD	:15.88
CASING BOTTOM	:5.5
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NONE
MUD RES	:NONE
MUD WEIGHT	:NONE
WITNESSED BY	:
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

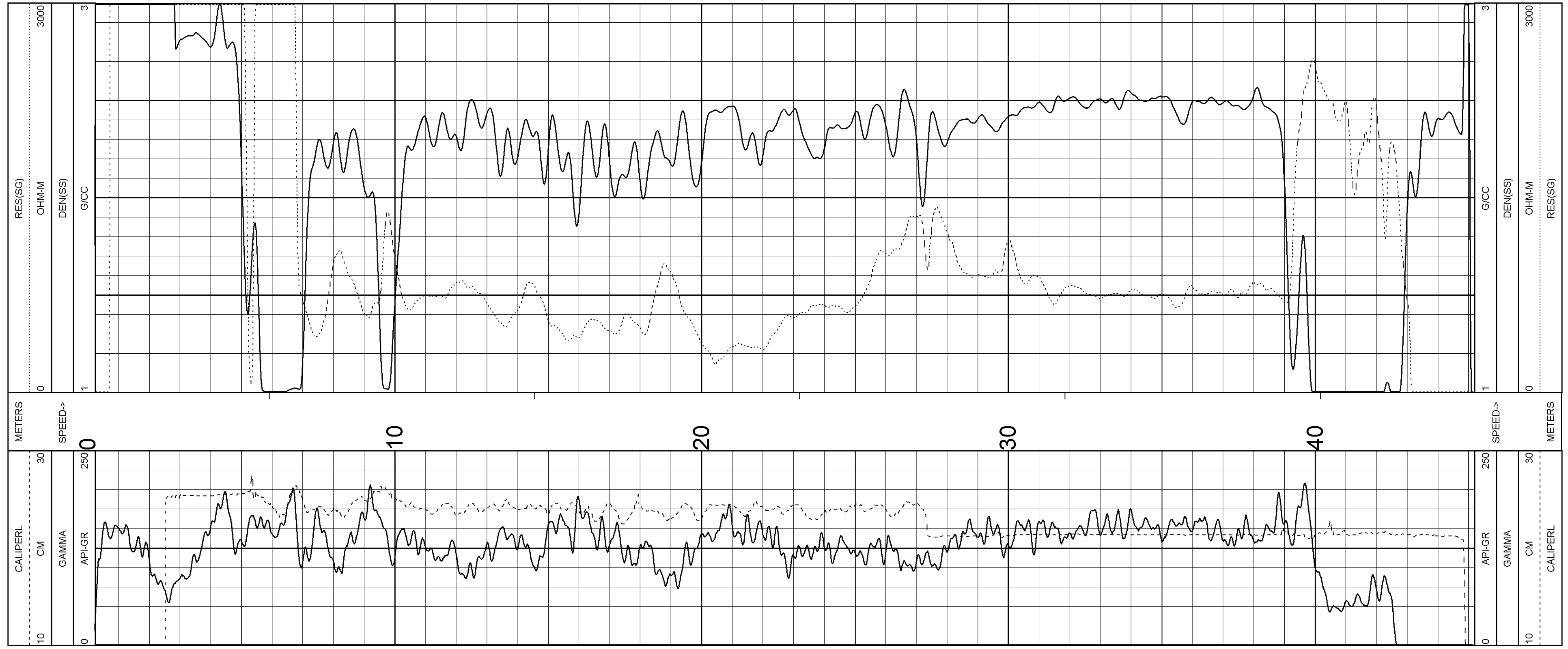
1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-11 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL : 21
PRESENTATION NAME/DATE = 9139short space.0 04/28/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24
VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-11 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL : 21
PRESENTATION NAME/DATE = 9139short space.0 04/28/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24
VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-11 09/20/06 17:37
TOOL: GAMMA, TYPE: MEMORY, VERSION 2015
SERIAL NUMBER : 1245

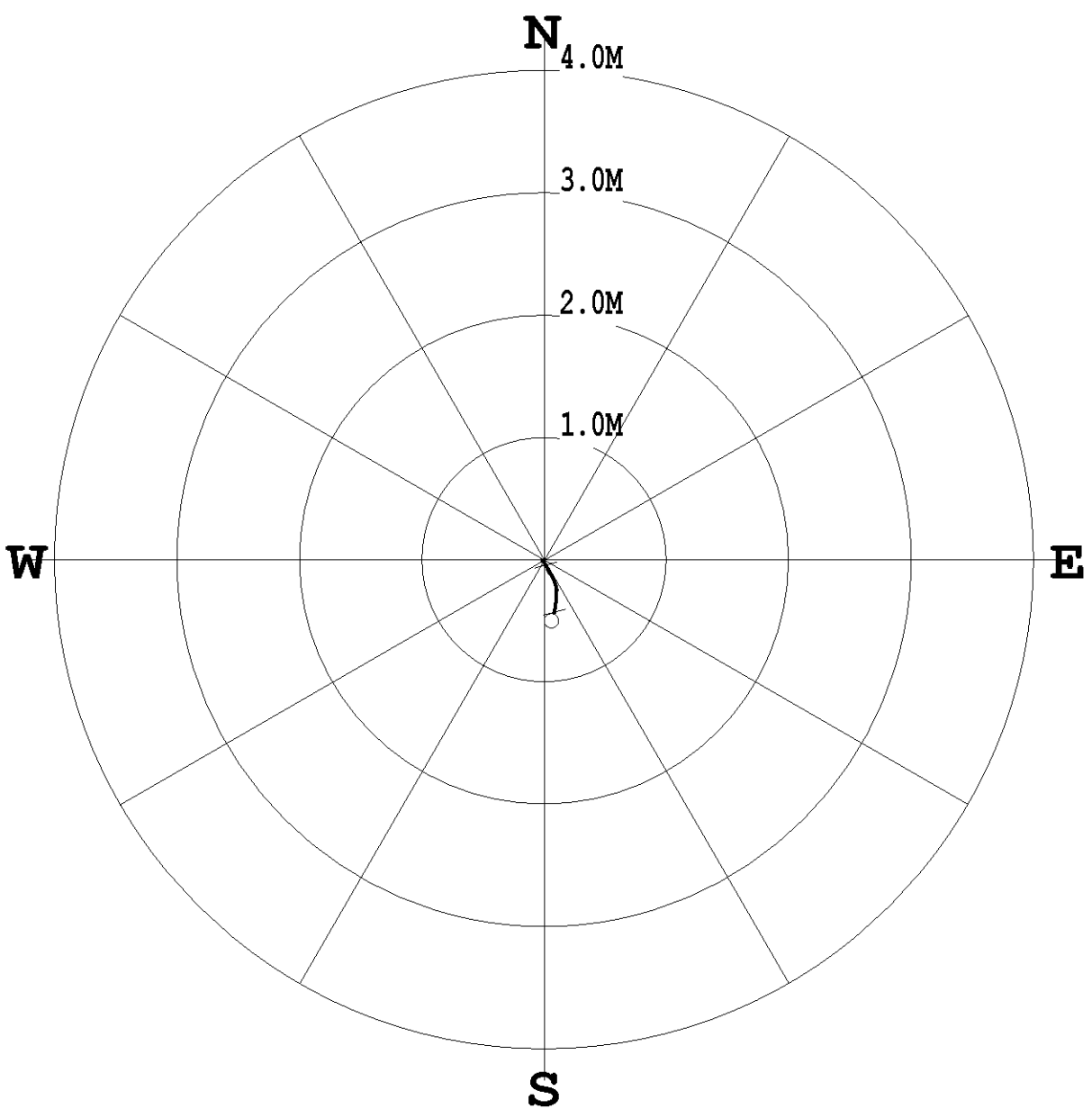
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14.06	08:59:20	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Apr14.06	08:59:20	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Apr14.06	08:46:21	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Apr14.06	08:46:21	VOLTAGE	572.000	[MV]	29881.10	[CPS]
3	Apr14.06	08:51:53	CALIPER	4.000	[INCH]	22600.00	[CPS]
	Apr14.06	14:15:05	CALIPER	6.000	[INCH]	34364.00	[CPS]
	May23.06	17:33:32	DEN(LS)	1.000	[G/CC]	10511.00	[CPS]
4	Sep20.06	08:22:37	DEN(LS)	2.383	[G/CC]	700.00	[CPS]
	Sep21.06	08:22:49	DEN(SS)	1.000	[G/CC]	1910.00	[CPS]
5	Sep21.06	08:22:27	DEN(SS)	2.383	[G/CC]	7420.00	[CPS]
	Sep19.06	11:07:02	CALIPERL	15.240	[INCH]	256068.00	[CPS]
6	Sep19.06	11:07:02	CALIPERL	25.400	[INCH]	385794.00	[CPS]
	Apr14.06	08:51:53	CURRENT	89.600	[UA]	10840.00	[CPS]
7	Apr14.06	08:51:53	CURRENT	252.000	[UA]	29120.00	[CPS]
8	Apr14.06	08:47:07	F	0.790	[ ]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN
HOLE ID: BSTR2006-12
DATE OF LOG: 09/20/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 42.52 M
AZIMUTH: 173.1
DISTANCE: 0.5 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
BSTR2006-12

COMPANY	:NEMI		OTHER SERVICES:
WELL	:BSTR2006-12		DEVIATI
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB :N/A	
LOG MEASURED FROM	:GL	ELEVATION DF :N/A	
DRL MEASURED FROM	:GL	ELEVATION GL :N/A	
DATE	:09/20/06		
DEPTH DRILLER	:44.80		
BIT SIZE	:15.24		
LOG TOP	:0.19		
LOG BOTTOM	:42.39		
CASING OD	:15.88		
CASING BOTTOM	:5		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

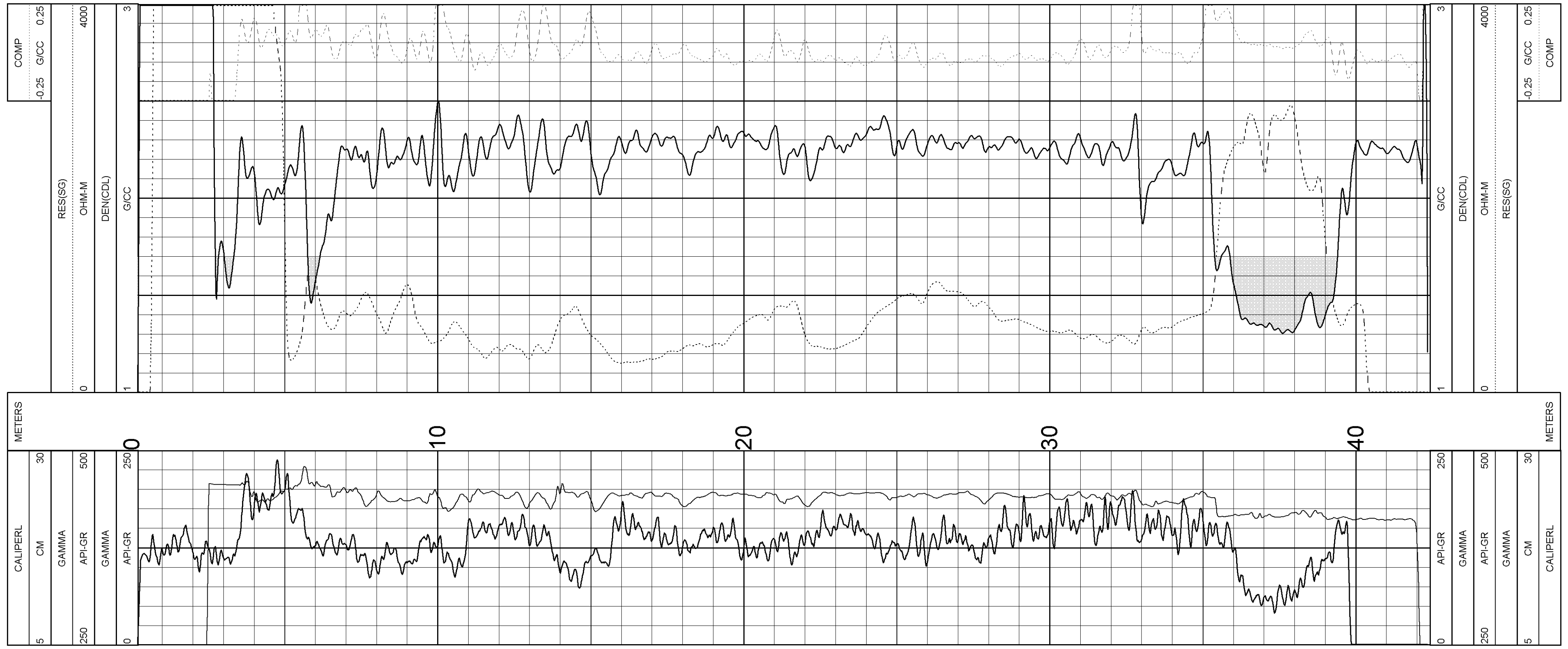
1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-12 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24
VERSION = 3.84EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-12 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 50000

MATRIX DELTA T : 177
BIT SIZE : 15.24
VERSION = 3.84EB

TOOL CALIBRATION BSTR2006-12 09/20/06 18:57
TOOL CONFIGURATION VERSION 2015
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Apr14.06	08:59:20	GAMMA	0.000 [API-GR]	2.00 [CPS]
	Apr14.06	08:59:20	GAMMA	283.000 [API-GR]	294.00 [CPS]
2	Apr14.06	08:48:21	VOLTAGE	31.650 [MV]	5358.30 [CPS]
	Apr14.06	08:48:21	VOLTAGE	572.000 [MV]	76881.10 [CPS]
3	Apr14.06	08:51:53	CURRENT	0.000 [UA]	22.00 [CPS]
	May20.06	14:15:05	CALIPER	6.000 [INCH]	343848.00 [CPS]
4	Sep21.06	08:38:15	DEN(LS)	1.000 [G/CC]	14000.00 [CPS]
	Sep21.06	08:37:04	DEN(LS)	2.383 [G/CC]	525.00 [CPS]
5	Sep21.06	08:37:18	DEN(SS)	2.000 [G/CC]	1300.00 [CPS]
	Sep21.06	08:37:04	DEN(SS)	2.383 [G/CC]	7000.00 [CPS]
6	Sep19.06	11:07:02	CALIPERL	15.240 [INCH]	256068.00 [CPS]
	Sep19.06	11:07:02	CALIPERL	25.400 [INCH]	385794.00 [CPS]
7	Apr14.06	08:51:53	CURRENT	89.800 [UA]	16840.00 [CPS]
	Apr14.06	08:51:53	CURRENT	292.000 [UA]	55152.00 [CPS]
8	Apr14.06	08:47:07	F	0.790 [ ]	29120.00 [CPS]

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GAMMA - CALIPER - RESISTIVITY
DENSITY - LONG SPACE
BSTR2006-12

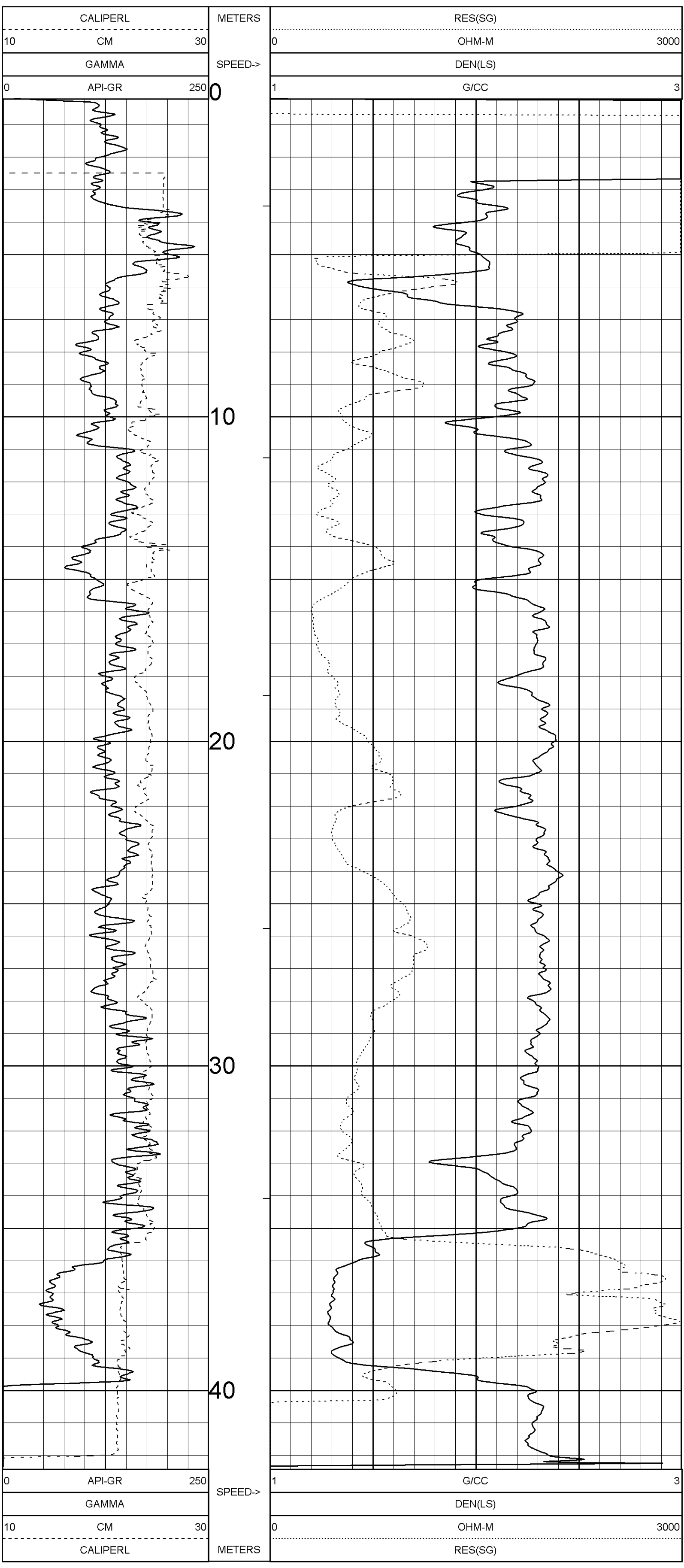
COMPANY	:NEMI		
WELL	:BSTR2006-12		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN	OTHER SERVICES:	
SECTION	:N/A	DEVIATI	
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB :N/A	
LOG MEASURED FROM	:GL	ELEVATION DF :N/A	
DRL MEASURED FROM	:GL	ELEVATION GL :N/A	
DATE	:09/20/06		
DEPTH DRILLER	:44.80		
BIT SIZE	:15.24		
LOG TOP	:0.19		
LOG BOTTOM	:42.39		
CASING OD	:15.88		
CASING BOTTOM	:5		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-12 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139long space.0 04/26/2005 VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-12 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139long space.0 04/26/2005 VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-12 09/20/06 16:57
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14,06	08:59:20	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Apr14,06	08:59:20	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Apr14,06	08:49:21	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Apr14,06	08:49:21	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	May23,06	14:15:05	CALIPER	4.000	[INCH]	228730.00	[CPS]
	May23,06	14:15:05	CALIPER	6.000	[INCH]	343648.00	[CPS]
4	Sep21,06	08:38:15	DEN(LS)	1.000	[G/CC]	14000.00	[CPS]
	Sep21,06	08:37:04	DEN(LS)	2.383	[G/CC]	525.00	[CPS]
5	Sep21,06	08:37:18	DEN(SS)	1.000	[G/CC]	18000.00	[CPS]
	Sep21,06	08:37:04	DEN(SS)	2.383	[G/CC]	7000.00	[CPS]
6	Sep19,06	11:07:02	CALIPERL	15.240	[INCH]	256068.00	[CPS]
	Sep19,06	11:07:02	CALIPERL	25.400	[INCH]	385794.00	[CPS]
7	Apr14,06	08:51:53	CURRENT	99.600	[UA]	10840.00	[CPS]
	Apr14,06	08:51:53	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	08:47:07	F	0.790	[ ]		

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GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
BSTR2006-12

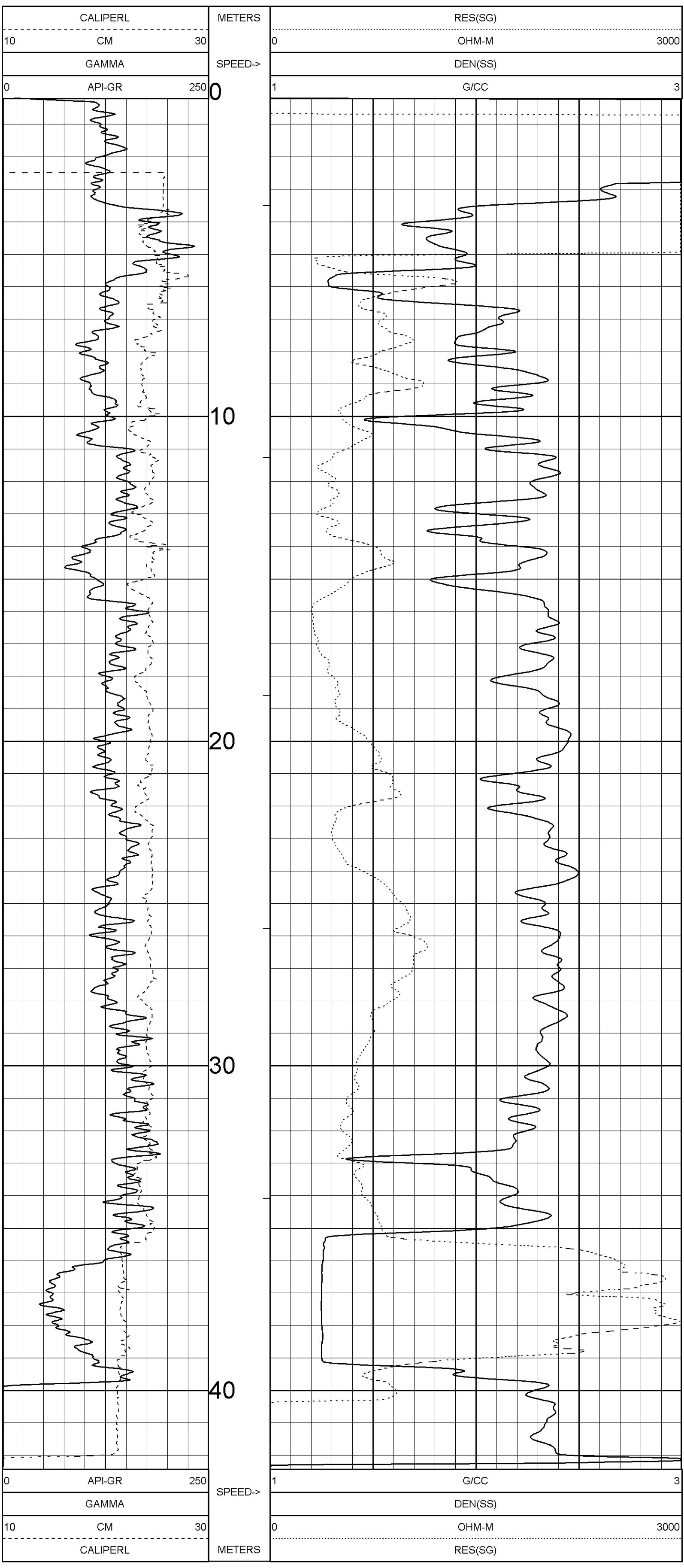
COMPANY	:NEMI		
WELL	:BSTR2006-12		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN	OTHER SERVICES:	
SECTION	:N/A	DEVIATI	
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB :N/A	
LOG MEASURED FROM	:GL	ELEVATION DF :N/A	
DRL MEASURED FROM	:GL	ELEVATION GL :N/A	
DATE	:09/20/06		
DEPTH DRILLER	:44.80		
BIT SIZE	:15.24		
LOG TOP	:0.19		
LOG BOTTOM	:42.39		
CASING OD	:15.88		
CASING BOTTOM	:5		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-12 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005 VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-12 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005 VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-12 09/20/06 16:57
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

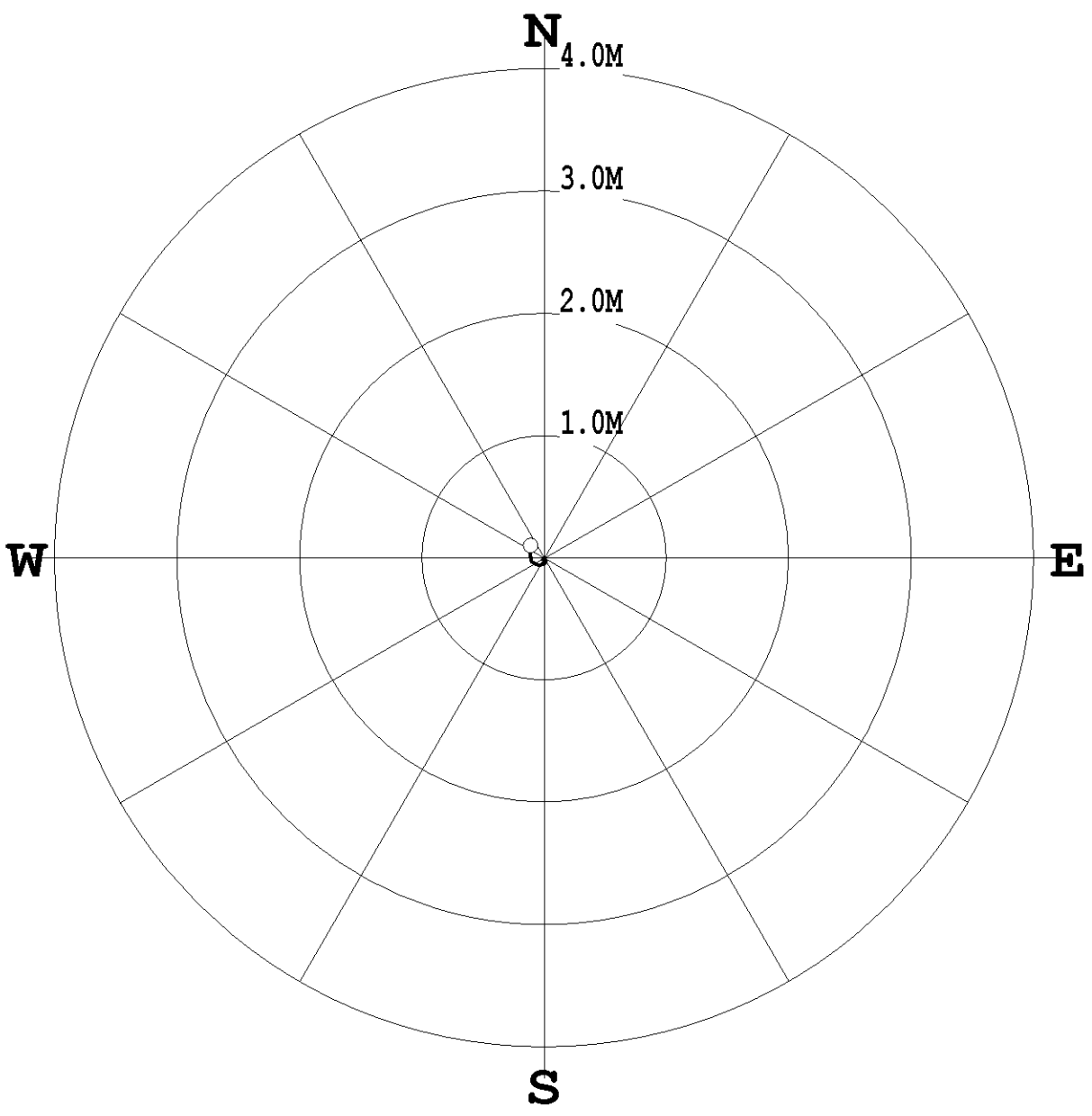
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14,06	08:59:20	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Apr14,06	08:59:20	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Apr14,06	08:49:21	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Apr14,06	08:49:21	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	May23,06	14:15:05	CALIPER	4.000	[INCH]	228730.00	[CPS]
	May23,06	14:15:05	CALIPER	6.000	[INCH]	343648.00	[CPS]
4	Sep21,06	08:38:15	DEN(LS)	1.000	[G/CC]	14000.00	[CPS]
	Sep21,06	08:37:04	DEN(LS)	2.383	[G/CC]	525.00	[CPS]
5	Sep21,06	08:37:18	DEN(SS)	1.000	[G/CC]	18000.00	[CPS]
	Sep21,06	08:37:04	DEN(SS)	2.383	[G/CC]	7000.00	[CPS]
6	Sep19,06	11:07:02	CALIPERL	15.240	[INCH]	256068.00	[CPS]
	Sep19,06	11:07:02	CALIPERL	25.400	[INCH]	385794.00	[CPS]
7	Apr14,06	08:51:53	CURRENT	99.600	[UA]	10840.00	[CPS]
	Apr14,06	08:51:53	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	08:47:07	F	0.790	[ ]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NEMI
LOCATION: ROMAN
HOLE ID: BSTR2006-13
DATE OF LOG: 09/20/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 37.21 M
AZIMUTH: 310.1
DISTANCE: 0.1 M
+ = 50 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
BSTR2006-13

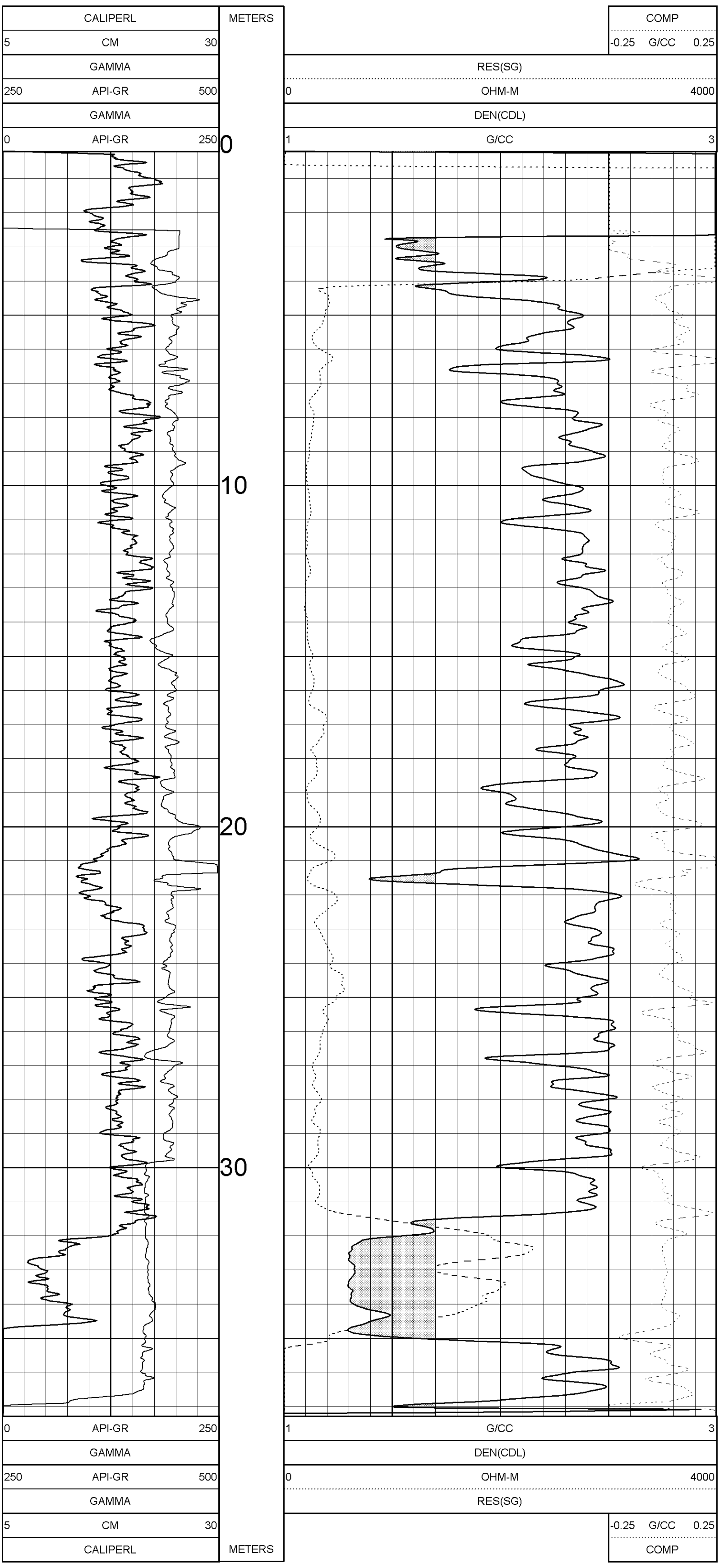
COMPANY	:NEMI		
WELL	:BSTR2006-13		
FIELD	:ROMAN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUBIA		
LOCATION	:ROMAN MOUNTAIN	OTHER SERVICES:	
SECTION	:N/A	DEV/A	
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:NONE		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:09/20/06		
DEPTH DRILLER	:38.70		
BIT SIZE	:15.24		
LOG TOP	:0.19		
LOG BOTTOM	:37.25		
CASING OD	:15.88		
CASING BOTTOM	:3		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	:NONE		
MUD RES	:NONE		
MUD WEIGHT	:NONE		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-13 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006 VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-13 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006 VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-13 09/20/06 16:03
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14,06	08:59:20	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Apr14,06	08:59:20	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Apr14,06	08:49:21	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Apr14,06	08:49:21	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	May23,06	14:15:05	CALIPER	4.000	[INCH]	228730.00	[CPS]
	May23,06	14:15:05	CALIPER	6.000	[INCH]	343648.00	[CPS]
4	Sep21,06	08:52:17	DEN(LS)	1.000	[G/CC]	13000.00	[CPS]
	Sep20,06	15:52:33	DEN(LS)	2.383	[G/CC]	801.00	[CPS]
5	Sep21,06	08:53:04	DEN(SS)	1.000	[G/CC]	23000.00	[CPS]
	Sep21,06	08:52:50	DEN(SS)	2.383	[G/CC]	7400.00	[CPS]
6	Sep19,06	11:07:02	CALIPERL	15.240	[INCH]	256068.00	[CPS]
	Sep19,06	11:07:02	CALIPERL	25.400	[INCH]	385794.00	[CPS]
7	Apr14,06	08:51:53	CURRENT	99.600	[UA]	10840.00	[CPS]
	Apr14,06	08:51:53	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	08:47:07	F	0.790	[ ]		

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GAMMA - CALIPER - RESISTIVITY
DENSITY - LONG SPACE
BSTR2006-13

COMPANY	:NEMI
WELL	:BSTR2006-13
FIELD	:ROMAN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUBIA
LOCATION	:ROMAN MOUNTAIN
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:NONE
UNIQUE WELL ID.	:
PERMANENT DATUM	:GL ELEVATION KB :N/A
LOG MEASURED FROM	:GL ELEVATION DF :N/A
DRL MEASURED FROM	:GL ELEVATION GL :N/A
DATE	:09/20/06
DEPTH DRILLER	:38.70
BIT SIZE	:15.24
LOG TOP	:0.19
LOG BOTTOM	:37.25
CASING OD	:15.88
CASING BOTTOM	:3
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NONE
MUD RES	:NONE
MUD WEIGHT	:NONE
WITNESSED BY	:
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

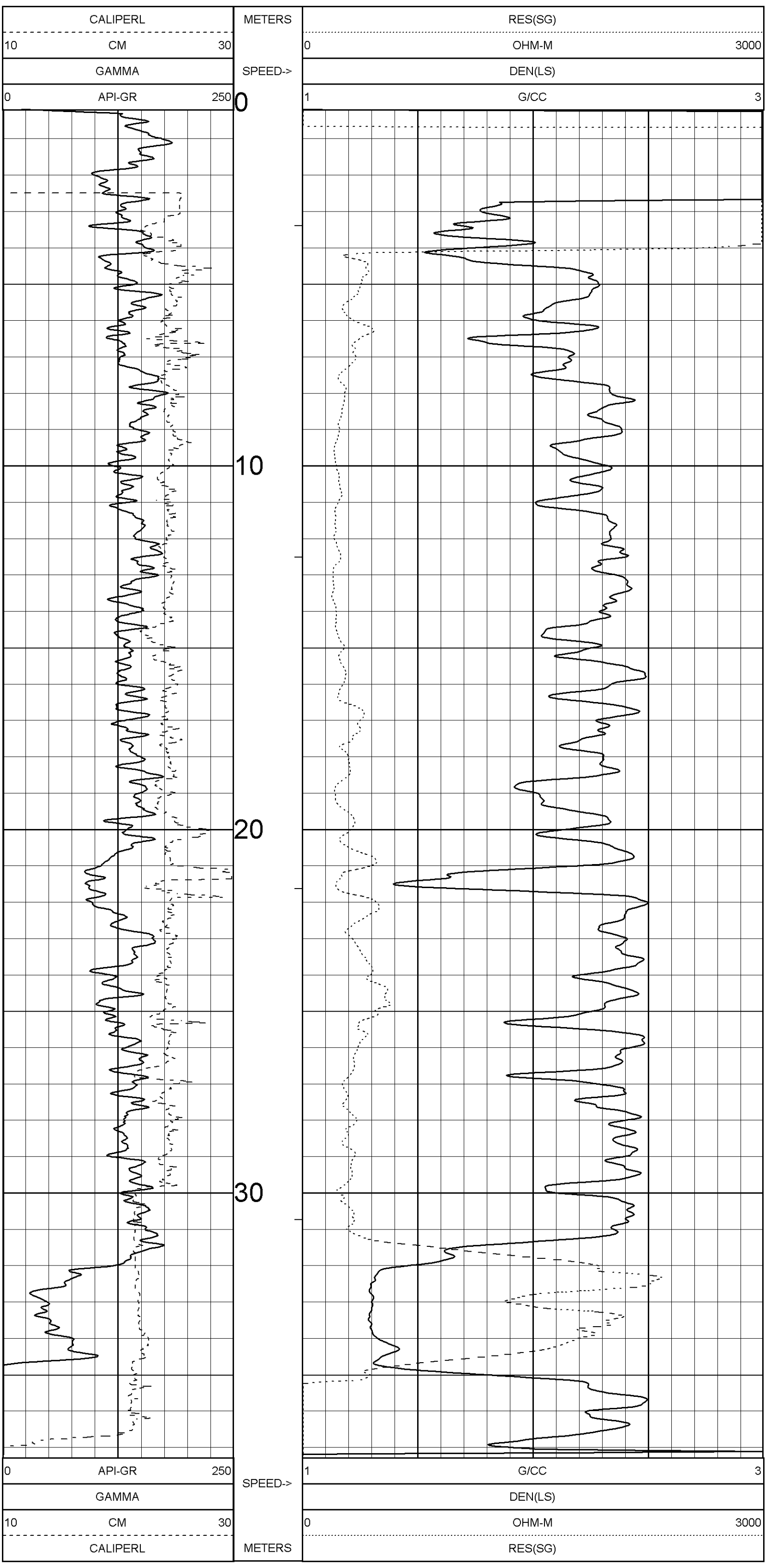
OTHER SERVICES:
DEV/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-13 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139long space.0 04/26/2005		VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-13 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21	ELECT. CUTOFF : 50000	BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139long space.0 04/26/2005		VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-13 09/20/06 16:03
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14,06	08:59:20	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Apr14,06	08:59:20	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Apr14,06	08:49:21	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Apr14,06	08:49:21	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	May23,06	14:15:05	CALIPER	4.000	[INCH]	228730.00	[CPS]
	May23,06	14:15:05	CALIPER	6.000	[INCH]	343648.00	[CPS]
4	Sep21,06	08:52:17	DEN(LS)	1.000	[G/CC]	13000.00	[CPS]
	Sep20,06	15:52:33	DEN(LS)	2.383	[G/CC]	801.00	[CPS]
5	Sep21,06	08:53:04	DEN(SS)	1.000	[G/CC]	23000.00	[CPS]
	Sep21,06	08:52:50	DEN(SS)	2.383	[G/CC]	7400.00	[CPS]
6	Sep19,06	11:07:02	CALIPERL	15.240	[INCH]	256068.00	[CPS]
	Sep19,06	11:07:02	CALIPERL	25.400	[INCH]	385794.00	[CPS]
7	Apr14,06	08:51:53	CURRENT	99.600	[UA]	10840.00	[CPS]
	Apr14,06	08:51:53	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	08:47:07	F	0.790	[ ]		

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GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
BSTR2006-13

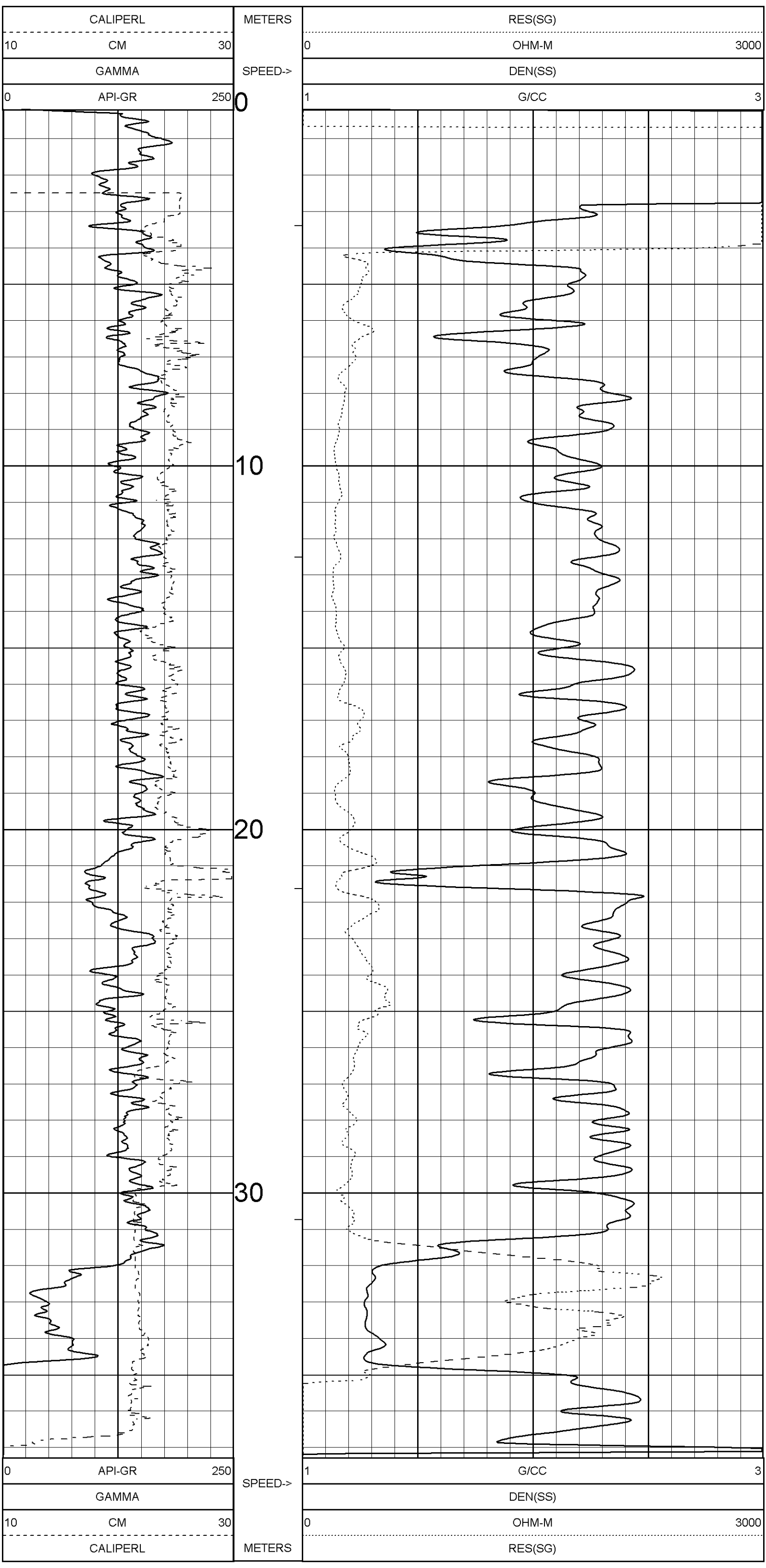
COMPANY	:NEMI
WELL	:BSTR2006-13
FIELD	:ROMAN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUBIA
LOCATION	:ROMAN MOUNTAIN
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:NONE
UNIQUE WELL ID.	:
OTHER SERVICES:	DEV/A
PERMANENT DATUM	:GL ELEVATION KB :N/A
LOG MEASURED FROM	:GL ELEVATION DF :N/A
DRL MEASURED FROM	:GL ELEVATION GL :N/A
DATE	:09/20/06
DEPTH DRILLER	:38.70
BIT SIZE	:15.24
LOG TOP	:0.19
LOG BOTTOM	:37.25
CASING OD	:15.88
CASING BOTTOM	:3
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NONE
MUD RES	:NONE
MUD WEIGHT	:NONE
WITNESSED BY	:
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-13 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005 VERSION = 3.64EB



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-13 09/20/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 50000 BIT SIZE : 15.24
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005 VERSION = 3.64EB

TOOL CALIBRATION BSTR2006-13 09/20/06 16:03
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

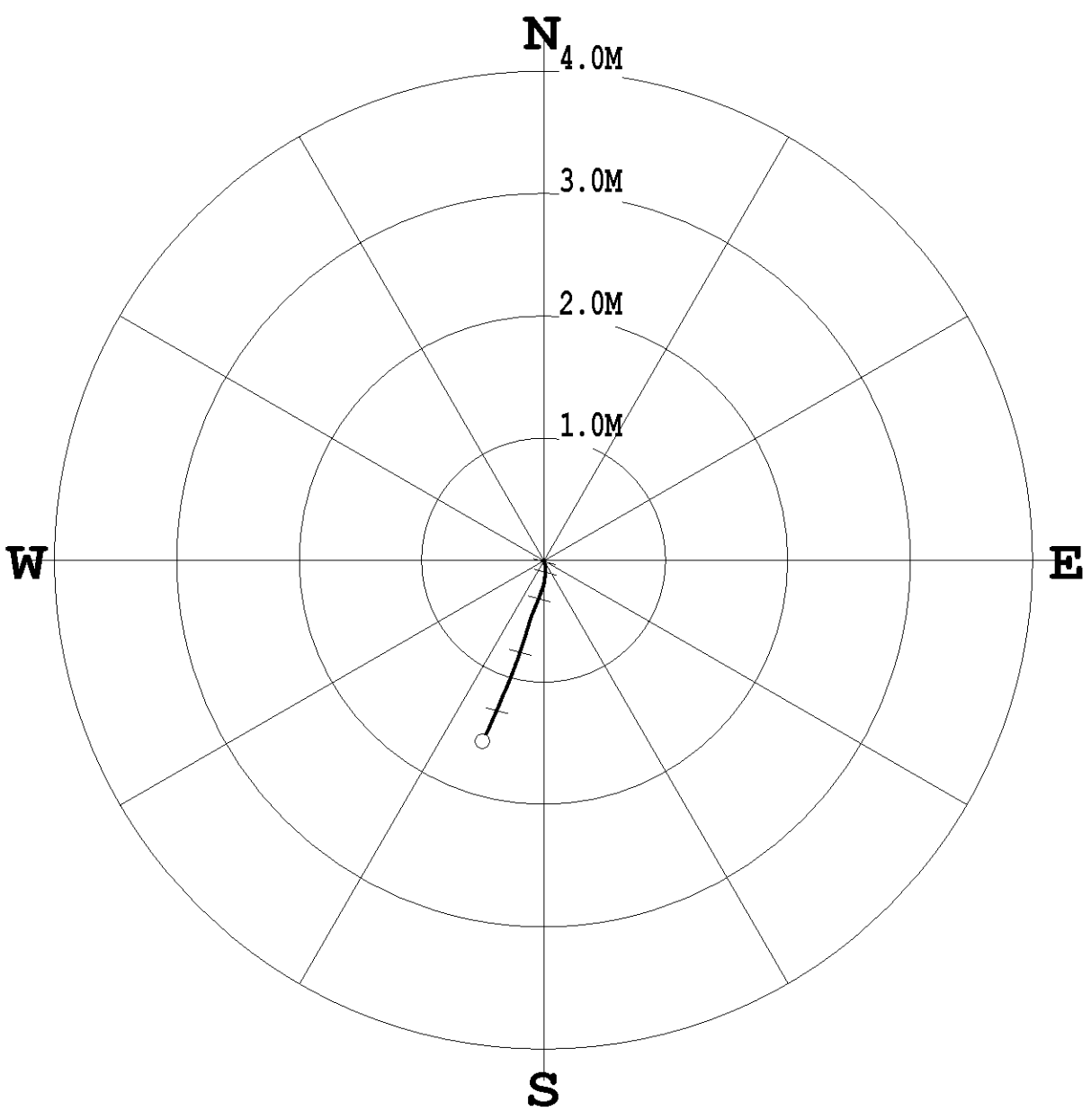
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14,06	08:59:20	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Apr14,06	08:59:20	GAMMA	283.000	[API-GR]	294.00	[CPS]
2	Apr14,06	08:49:21	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Apr14,06	08:49:21	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	May23,06	14:15:05	CALIPER	4.000	[INCH]	228730.00	[CPS]
	May23,06	14:15:05	CALIPER	6.000	[INCH]	343648.00	[CPS]
4	Sep21,06	08:52:17	DEN(LS)	1.000	[G/CC]	13000.00	[CPS]
	Sep20,06	15:52:33	DEN(LS)	2.383	[G/CC]	801.00	[CPS]
5	Sep21,06	08:53:04	DEN(SS)	1.000	[G/CC]	23000.00	[CPS]
	Sep21,06	08:52:50	DEN(SS)	2.383	[G/CC]	7400.00	[CPS]
6	Sep19,06	11:07:02	CALIPERL	15.240	[INCH]	256068.00	[CPS]
	Sep19,06	11:07:02	CALIPERL	25.400	[INCH]	385794.00	[CPS]
7	Apr14,06	08:51:53	CURRENT	99.600	[UA]	10840.00	[CPS]
	Apr14,06	08:51:53	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	08:47:07	F	0.790	[ ]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: NORTHERN ENERGY MINING INC
LOCATION: ROMAN MTN
HOLE ID: BSTR2006-16
DATE OF LOG: 10/02/06
PROBE: 9411A 390

MAG DECL: 21.0

SCALE: 1 M/CM
TRUE DEPTH: 55.74 M
AZIMUTH: 198.7
DISTANCE: 1.6 M
+ = 10 M INCR
○ = BOTTOM OF HOLE



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GAMMA - DENSITY - RESISTIVITY
COMPENSATED DENSITY
BSTR2006-16

COMPANY	:NORTHERN ENERGY MINING INC
WELL	:BSTR2006-16
FIELD	:ROMAN MTN
COUNTY	:TUMBLER RIDGE
STATE	:BRITISH COLUMBIA

OTHER SERVICES:
DEVI

LOCATION	:
SECTION	:N/A
TOWNSHIP	:N/A
RANGE	:N/A
API NO.	:
UNIQUE WELL ID	:
PERMANENT DATUM	:GL ELEVATION KB :N/A
LOG MEASURED FROM	:GL ELEVATION DF :N/A
DRL MEASURED FROM	:GL ELEVATION GL :N/A
DATE	:10/02/06
DEPTH DRILLER	:56.08
BIT SIZE	:22.86
LOG TOP	:0.23
LOG BOTTOM	:55.80
CASING OD	:25.04
CASING BOTTOM	:3
CASING TYPE	:SURFACE
BOREHOLE FLUID	:
RM TEMPERATURE	:
MUD RES	:
MUD WEIGHT	:
WITNESSED BY	:
RECORDED BY	:T. BOOS
REMARKS 1	:
REMARKS 2	:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

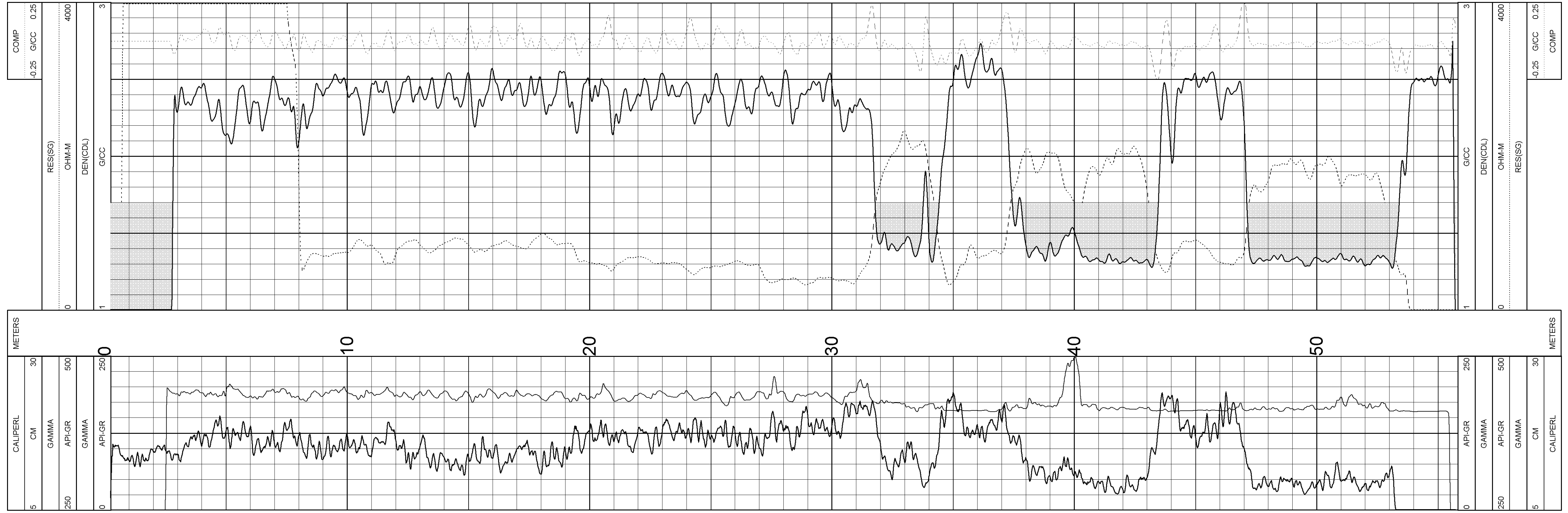
1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-16 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 22.86



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-16 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9239C1.0 09/02/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 22.86

TOOL CALIBRATION BSTR2006-16 10/02/06 16:35
SERIAL NUMBER TYPE
SERIAL NUMBER VERSION 2015

	DATE	TIME	SENSOR	STANDARD		RESPONSE
			GAMMA	0.000	[API-GR]	12.00 [CPS]
1	Sep27.06	18:30:09	GAMMA	283.000	[API-GR]	290.00 [CPS]
1	Sep27.06	18:30:09	VOLTAGE	31.000	[MV]	53.00 [CPS]
2	Sep27.06	18:30:26	VOLTAGE	572.000	[MV]	766811.10 [CPS]
2	Sep27.06	18:30:26	CALIPER	8.890	[INCH]	218140.00 [CPS]
3	Oct02.06	23:28:08	CALIPER	15.240	[INCH]	326400.00 [CPS]
3	Oct02.06	23:28:08	DEN(LS)	1.000	[G/CC]	14011.00 [CPS]
4	Sep27.06	18:32:02	DEN(LS)	2.383	[G/CC]	1125.00 [CPS]
4	Sep27.06	18:32:02	DEN(SS)	1.000	[G/CC]	23900.00 [CPS]
5	Sep27.06	18:32:38	DEN(SS)	2.383	[G/CC]	8150.00 [CPS]
5	Sep27.06	18:32:38	CALIPER	15.240	[INCH]	242098.00 [CPS]
6	Oct02.06	23:27:50	CALIPER	8.890	[INCH]	352200.00 [CPS]
6	Oct02.06	23:27:50	CURRENT	99.800	[UA]	10840.00 [CPS]
7	Sep27.06	18:33:04	CURRENT	232.300	[UA]	25120.00 [CPS]
7	Sep27.06	18:33:04	F	0.780	[ ]	
8	Apr18.06	15:47:07				

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GAMMA - CALIPER - RESISTIVITY DENSITY - LONG SPACE BSTR2006-16

COMPANY	:NORTHERN ENERGY MINING INC	OTHER SERVICES: DEVI	
WELL	:BSTR2006-16		
FIELD	:ROMAN MTN		
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUMBIA		
LOCATION	:		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB :N/A	
LOG MEASURED FROM	:GL	ELEVATION DF :N/A	
DRL MEASURED FROM	:GL	ELEVATION GL :N/A	
DATE	:10/02/06		
DEPTH DRILLER	:56.08		
BIT SIZE	:22.86		
LOG TOP	:0.23		
LOG BOTTOM	:55.80		
CASING OD	:25.04		
CASING BOTTOM	:3		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:		
RM TEMPERATURE	:		
MUD RES	:		
MUD WEIGHT	:		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

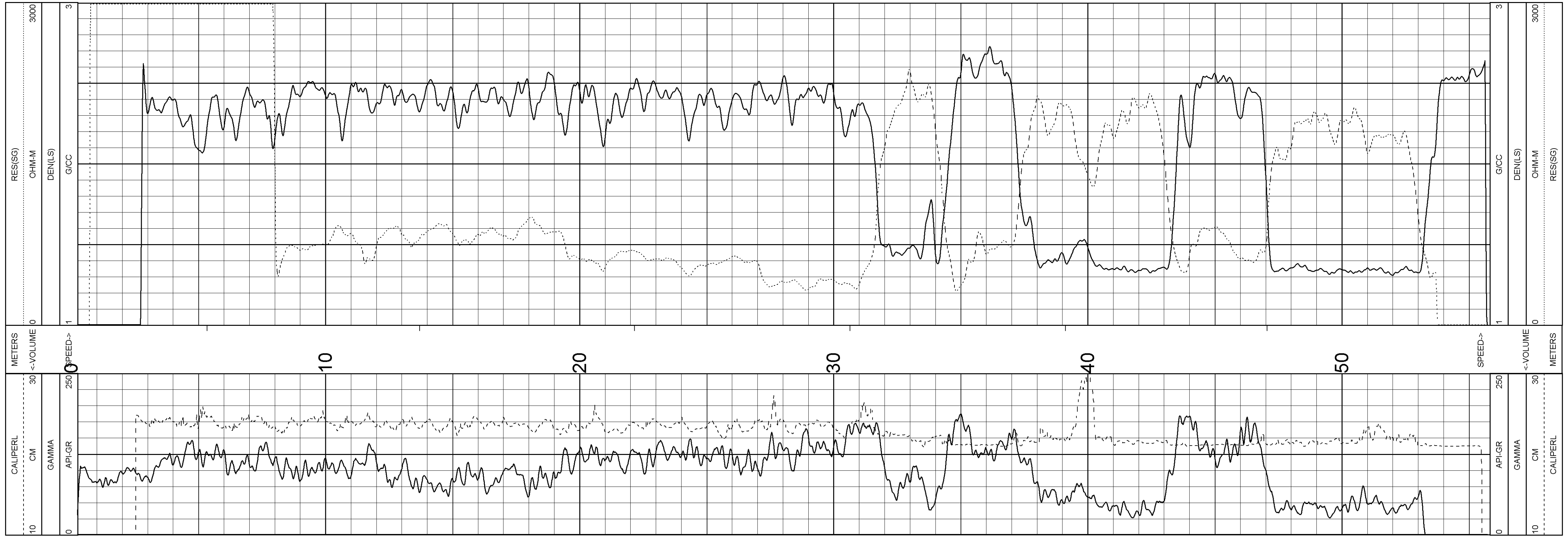
1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-16 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139long space 0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 22.86



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-16 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 21
PRESENTATION NAME/DATE = 9139long space 0 04/26/2005

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 10000

MATRIX DELTA T : 177
BIT SIZE : 22.86

TOOL CALIBRATION: BSTR2006-16 10/02/06 16:35
TOOL 9238C1 TM VERSION 2015
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	18:30:09	GAMMA	0.000	[API-GR]	12.00	[CPS]
	Sep27,06	18:30:09	GAMMA	283.000	[API-GR]	2826.00	[CPS]
2	Sep27,06	18:30:29	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Sep27,06	18:30:29	VOLTAGE	572.000	[MV]	76881.10	[CPS]
3	Oct02,06	23:28:08	CALIPER	15.240	[INCH]	219445.00	[CPS]
	Oct02,06	23:28:08	CALIPER	15.240	[INCH]	353950.00	[CPS]
4	Sep27,06	18:32:02	DEN(LS)	1.000	[G/CC]	14011.00	[CPS]
	Sep27,06	18:32:02	DEN(LS)	1.000	[G/CC]	22931.00	[CPS]
5	Sep27,06	18:32:36	DEN(SS)	2.393	[G/CC]	9150.00	[CPS]
	Sep27,06	18:32:36	DEN(SS)	2.393	[G/CC]	242068.00	[CPS]
6	Oct02,06	23:27:50	CALIPER	15.240	[INCH]	3270.00	[CPS]
	Oct02,06	23:27:50	CALIPER	15.240	[INCH]	242068.00	[CPS]
7	Sep27,06	18:33:04	CURRENT	99.600	[UA]	10840.00	[CPS]
	Sep27,06	18:33:04	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr18,06	15:47:07	F.	0.789	[ ]		

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GAMMA - CALIPER - RESISTIVITY
DENSITY - SHORT SPACE
BSTR2006-16

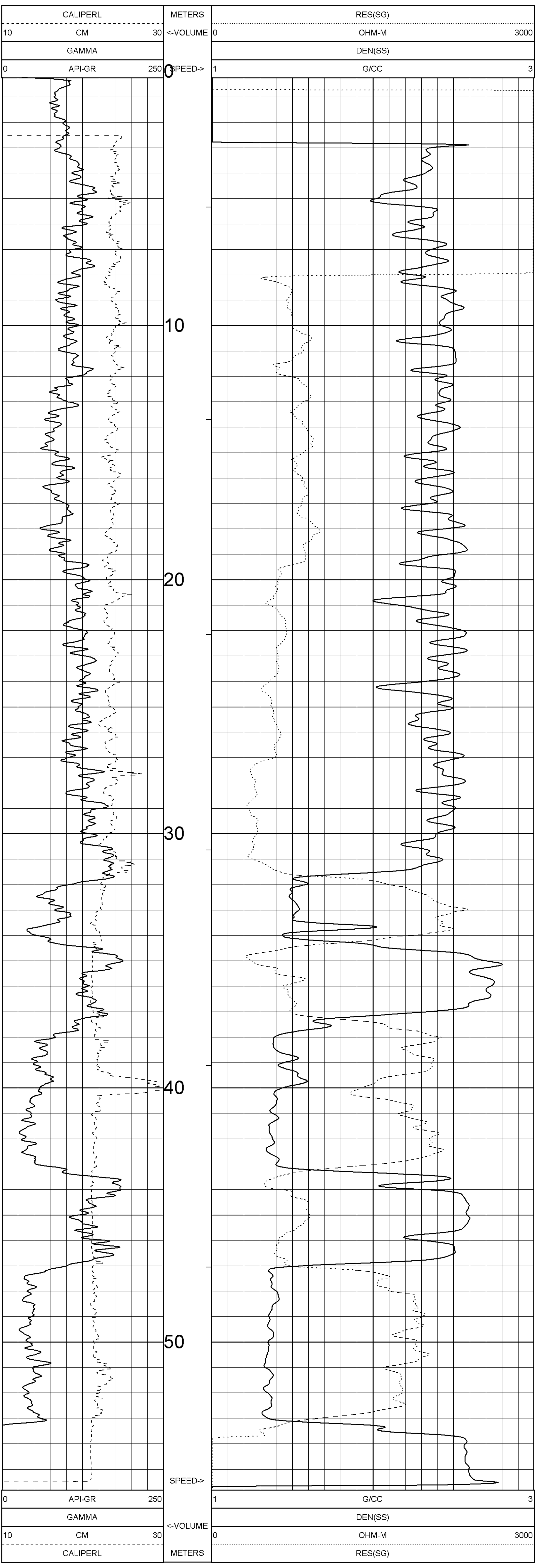
COMPANY	:NORTHERN ENERGY MINING INC		
WELL	:BSTR2006-16	OTHER SERVICES:	
FIELD	:ROMAN MTN	DEVI	
COUNTY	:TUMBLER RIDGE		
STATE	:BRITISH COLUMBIA		
LOCATION	:		
SECTION	:N/A		
TOWNSHIP	:N/A		
RANGE	:N/A		
API NO.	:		
UNIQUE WELL ID.	:		
PERMANENT DATUM	:GL	ELEVATION KB	:N/A
LOG MEASURED FROM	:GL	ELEVATION DF	:N/A
DRL MEASURED FROM	:GL	ELEVATION GL	:N/A
DATE	:10/02/06		
DEPTH DRILLER	:56.08		
BIT SIZE	:22.86		
LOG TOP	:0.23		
LOG BOTTOM	:55.80		
CASING OD	:25.04		
CASING BOTTOM	:3		
CASING TYPE	:SURFACE		
BOREHOLE FLUID	:		
RM TEMPERATURE	:		
MUD RES	:		
MUD WEIGHT	:		
WITNESSED BY	:		
RECORDED BY	:T. BOOS		
REMARKS 1	:		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-16 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005



1:100 CM LOG, GAMMA-RES-DENSITY BSTR2006-16 10/02/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 21 ELECT. CUTOFF : 10000 BIT SIZE : 22.86
PRESENTATION NAME/DATE = 9139short space.0 04/26/2005

TOOL CALIBRATION BSTR2006-16 10/02/06 16:35
TOOL 9239C1 TM VERSION 2015
SERIAL NUMBER 1245

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Sep27,06	16:30:09	GAMMA	0.000	[API-GR]	12.00	[CPS]
	Sep27,06	16:30:09	GAMMA	283.000	[API-GR]	290.00	[CPS]
2	Sep27,06	16:30:26	VOLTAGE	31.850	[MV]	5358.30	[CPS]
	Sep27,06	16:30:26	VOLTAGE	572.000	[MV]	76681.10	[CPS]
3	Oct02,06	23:28:08	CALIPER	8.890	[INCH]	218140.00	[CPS]
	Oct02,06	23:28:08	CALIPER	15.240	[INCH]	355650.00	[CPS]
4	Sep27,06	16:32:02	DEN(LS)	1.000	[G/CC]	14011.00	[CPS]
	Sep27,06	16:32:02	DEN(LS)	2.383	[G/CC]	1125.00	[CPS]
5	Sep27,06	16:32:36	DEN(SS)	1.000	[G/CC]	22981.00	[CPS]
	Sep27,06	16:32:36	DEN(SS)	2.383	[G/CC]	9150.00	[CPS]
6	Oct02,06	23:27:50	CALIPERL	15.240	[INCH]	242068.00	[CPS]
	Oct02,06	23:27:50	CALIPERL	25.400	[INCH]	375794.00	[CPS]
7	Sep27,06	16:33:04	CURRENT	99.600	[UA]	10840.00	[CPS]
	Sep27,06	16:33:04	CURRENT	232.300	[UA]	25120.00	[CPS]
8	Apr14,06	15:47:07	F	0.790	[ ]		