Company:	Geotech Holdings Ltd
Contractor:	Geotech Holdings Ltd
Rig:	Winter
Well:	RAV06-001C
Comments:	Gamma Calibrated
Operator:	
Witnessed:	
Depth Reference:	Ground Level
Elevation:	
Permanent Datum:	Ground Level
Log Measured From:	
Drilling Measured From:	
Date:	07/09/06
Time:	
Run Number:	ONE
Depth Driller:	0.00
Depth Logger:	0.00
Bottom Log Interval:	0.00
Top Log Interval:	0.00
Casing Driller Size:	0.00
Casing Logger Size:	0.00
Bit Size:	12
Type Fluid:	
Density:	
Viscosity:	
Fluid Loss:	
Source of Sample:	
Rm:	
Rm @ Meas. Temp:	
Rmf:	
Rmf @ Meas. Temp:	
Rmc:	
Rmc @ Meas. Temp:	
Source: Rmf / Rmc:	
Rm @ BHT:	
Time Since Circulation:	
Max. Recorded Temp:	
Equipment:	
Location:	
Recorded By:	
Witnessed By:	

DENSITY
RAV06-001C

Geotech Holdings Ltd

www.geotech

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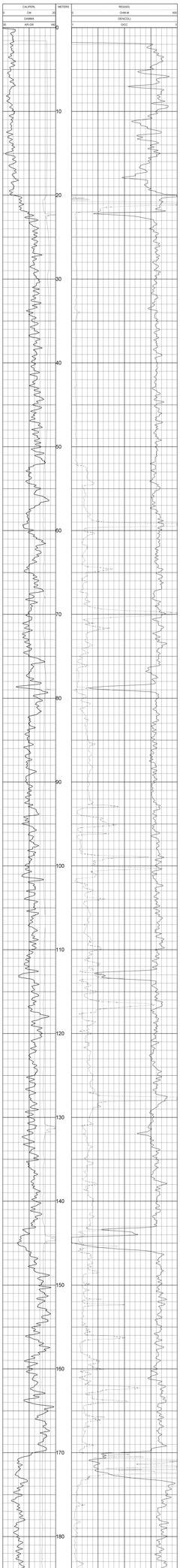
100cm LOG, DENSITY RAV06-001C 07/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.71 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.15 ELECT. CUTOFF : 10000 BIT SIZE 12
PRESENTATION NAME/DATE = SDN_CDL-II 06072006



100cm LOG, DENSITY RAV06-001C 07/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.71 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140
MAGNETIC DECL : 17.15 ELECT. CUTOFF : 10000 BIT SIZE 12
PRESENTATION NAME/DATE = SDN_CDL-II 06072006

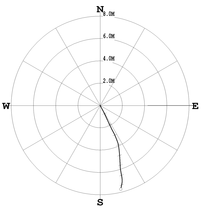
TOOL CALIBRATION: RAV06-001C 070906 18:17
TOOL SCALE : , , ,

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: COMPLIANCE ENERGY
LOCATION: NA
HOLE ID: BAV06-001C
DATE OF LOG: 07/09/06
PROBE: 9057A 1074

MAG DECL: 19.1

SCALE: 1 M/CM
TMUD DEPTH: 187.93 M
AZIMUTH: 166.1
DISTANCE: 7.7 M
+ = 20 M INCR
* = BOTTOM OF HOLE



Geotech Services Inc.

NEUTRON-DEVIATION-TEMP

RAV06-001C

Hole Size	12
Max Temp	20
Date	07/09/06
Time	12:54
Logged	1
Recorded	1
Depth Scale	1:200
Depth Unit	Metres
Log Time	12:54
Log Speed	10
Log Direction	Up
Log Type	STATIC
Log Mode	Normal
Log Units	Metric
Log Datum	Ground
Log Datum Elevation	0
Log Datum Offset	0
Log Datum Offset Units	m
Log Datum Offset Direction	Up
Log Datum Offset Reason	Ground
Log Datum Offset Comment	
Log Datum Offset Time	
Log Datum Offset Date	
Log Datum Offset Operator	
Log Datum Offset Method	
Log Datum Offset Accuracy	
Log Datum Offset Precision	
Log Datum Offset Resolution	
Log Datum Offset Error	
Log Datum Offset Uncertainty	
Log Datum Offset Confidence	
Log Datum Offset Validity	
Log Datum Offset Status

Company:	Century Geophysical Corporation
Contractor:	
Rig:	
Witnessed By:	
Location:	
Elevation:	
Permanent Datum:	GROUND LEVEL
Log Measured From:	
Drilling Measured From:	
Date:	07/09/06
Time:	
Run Number:	ONE
Depth Driller:	
Depth Logger:	
Bottom Logged Interval:	
Top Log Interval:	
Casing Driller Size at Depth:	
Casing Logger Size at Depth:	
Bit Size:	
Type Fluid in Hole:	
Density:	
Viscosity:	
pH:	
Fluid Loss:	
Source of Sample:	
Rm @ Meas. Temp:	
Rmf @ Meas. Temp:	
Rmc @ Meas. Temp:	
Source: Rmf:	
Source: Rmc:	
Rm @ BHT:	
Time Since Circulation:	
Time Since Stop:	
Max. Rec. Temp:	
Equipment Location:	
Recorded By:	
Witnessed By:	

century geophysical corporation

GAMMA NEUTRON

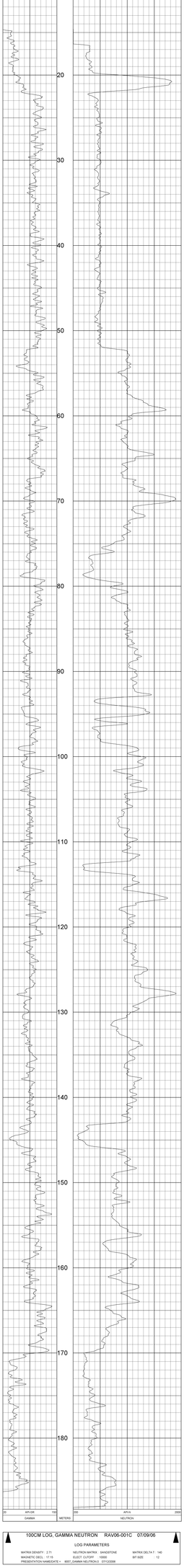
RAV06-001C

PRODUCED BY CENTURY GEOPHYSICAL CORPORATION TULSA, OKLAHOMA

100CM LOG, GAMMA NEUTRON RAV06-001C 07/09/06

LOG PARAMETERS

MATRIX DENSITY :	2.71	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	140
MAGNETIC DECL. :	17.15	ELECT. CUTOFF :	10000	BIT SIZE :	12
PRESENTATION NAME/DATE =	9057_GAMMA NEUTRON-3	07/12/2006			



100CM LOG, GAMMA NEUTRON RAV06-001C 07/09/06

LOG PARAMETERS

MATRIX DENSITY :	2.71	NEUTRON MATRIX :	SANDSTONE	MATRIX DELTA T :	140
MAGNETIC DECL. :	17.15	ELECT. CUTOFF :	10000	BIT SIZE :	12
PRESENTATION NAME/DATE =	9057_GAMMA NEUTRON-3	07/12/2006			

TOOL CALIBRATION: RAV06-001C 07/09/06 19:58
TOOL TYPE: GAMMA NEUTRON
SERIAL NUMBER: 9057

	DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	May08.99	17:12:54	GAMMA	Default	[CPS]	Default [CPS]
2	May08.99	16:28:25	NEUTRON	Default	[CPS]	Default [CPS]
3	May08.99	16:28:25	NEUTRON	271.000	[CPS]	10000.00 [CPS]
4	Nov13.05	00:19:58	HV	340.000	[VDC]	1000.00 [CPS]
5	Nov20.05	00:19:58	BP	340.000	[MV]	25670.00 [CPS]
6	Nov20.05	00:19:58	RESISTIVITY	0.000	[OHM-M]	1000.00 [CPS]
7	Nov20.05	00:19:58	RESISTIVITY	2000.000	[OHM-M]	10000.00 [CPS]
8	Nov20.05	00:19:27	RESISTIVITY	0.000	[OHM-M]	3802.00 [CPS]
9	Nov20.05	00:19:27	RESISTIVITY	2000.000	[OHM-M]	10000.00 [CPS]
10	Feb04.06	02:22:31	TEMP	14.810	[DEG F]	90000.00 [CPS]
11	Feb04.06	02:22:31	TEMP	56.280	[DEG F]	55700.00 [CPS]
12	Jul14.06	13:12:18	RES	1000.000	[OHM]	1000.00 [CPS]
13	Jul14.06	13:12:18	RES	1545.000	[OHM]	81985.00 [CPS]
14	Feb26.03	20:58:05	PORO(NEU)	100.000	[PERCENT]	157.00 [CPS]

Century Wireline Services
Century Wireline Services
contact@cwsi.com

ACOUSTIC
RAV06-001C

DATA SUMMARY

WELL	RAV06-001C
COMPANY	Rangeland Energy
FIELD	Ravenscroft
COUNTY	Kingman
STATE	Kansas
SECTION	36
TOWNSHIP	29 S
RANGE	7 W
ELEVATION	1500
DATUM	GL
SPUD DATE	07-11-06
TD DATE	07-11-06
DATE REPORTED	07-11-06
DATE RUN	07-11-06
RUN NUMBER	1
TOTAL DEPTH	1800
DATUM TYPE	GRND
DATUM	1500
DATUM DIST	0
DATUM DIR	0
DATUM DIST	0
DATUM DIR	0
DATUM DIST	0
DATUM DIR	0

Company	Baker Hughes Centrilift
Well	RAV06-002C
Field	DENSITY
County	
State	
Country	
Surface Location	
API Number	
Other Services	
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
Elevation	
Elevation	
Elevation	
Date	07/09/06
Run Number	ONE
Depth-Driller	200
Depth-Logger	200
Bottom Log Interval	200
Top Log Interval	0
Casing-Driller	0 @ 0
Casing-Logger	
Bit Size	0
Type Fluid in Hole	
Density	
Viscosity	
Max Rec Temp	
Estimated Bottom Hole Temp	
Equipment	
Location	
Recorded By	
Witnessed By	

DENSITY

RAV06-002C

Baker Hughes Centrilift

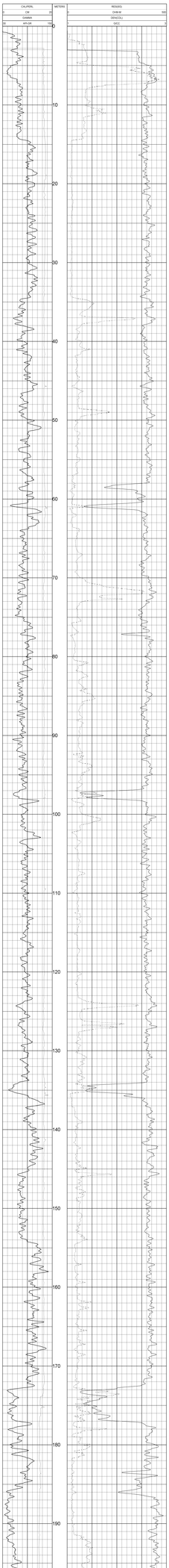
1000CM LOG, DENSITY RAV06-002C 07/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.71 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140

MAGNETIC DECL. : 17.16 ELECT CUTOFF : 10000 INT SIZE : 12

PRESENTATION NAME/DATE : KERL ZOL 5 07/10/2006



1000CM LOG, DENSITY RAV06-002C 07/09/06

LOG PARAMETERS

MATRIX DENSITY : 2.71 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 140

MAGNETIC DECL. : 17.16 ELECT CUTOFF : 10000 INT SIZE : 12

PRESENTATION NAME/DATE : KERL ZOL 5 07/10/2006

TOOL CALIBRATION: BHGW-BGSC-070899-21-14
TOOL: BGSC/ TM VERSION 2015
CALIBRATOR NUMBER: 1000

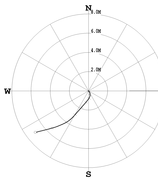
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Apr14,06	18:58:20	GAMMA 0.000	API-GR	0.00	[CPS]	
2	Apr14,06	18:58:20	GAMMA 0.000	API-GR	150.00	[CPS]	
3	Apr14,06	18:58:20	VOLTAGE 10.000	BAT	12.000	[VOLT]	
4	Apr14,06	18:58:20	VOLTAGE 972.000	BAT	768811.10	[CPS]	
5	Jun07,06	02:15:34	CALIPER 0.000	INCH	0.000	[CPS]	
6	Jun07,06	02:15:34	CALIPER 10.000	INCH	40000.00	[CPS]	
7	Jun07,06	02:22:55	DENS.G 0.000	G/C3	0.000	[CPS]	
8	Jun07,06	02:22:55	DENS.G 2.500	G/C3	770.00	[CPS]	
9	Jun07,06	02:22:55	DENS.G 3.000	G/C3	1000.00	[CPS]	
10	Jun07,06	02:51:15	CALIPER 0.000	INCH	0.000	[CPS]	
11	Jun07,06	02:51:15	CALIPER 10.000	INCH	160800.00	[CPS]	
12	Jun07,06	02:51:15	CALIPER 10.000	INCH	160800.00	[CPS]	
13	Jun07,06	02:51:15	CALIPER 10.000	INCH	160800.00	[CPS]	
14	Apr14,06	18:47:37	0	LA	0.000	[CPS]	
15	Apr14,06	18:47:37	0	LA	0.000	[CPS]	
16	Apr14,06	18:47:37	0	LA	0.000	[CPS]	

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: CONOCOPHILLIPS
LOCATION: NA
HOLE ID: NAPPS-02C
DATE OF LOG: 07/09/06
CRUISE: NOTA 1074

MAG DECL: 19.1

SCALE: 1 M/CM
TRUE DEPTH: 201.01 M
AZIMUTH: 230.2
DISTANCE: 7.0 M
+ = 20 M INCR
' = BOTTOM OF HOLE



Company	Gerdau Ameristeel
Well	RAV06-002C
Field	NEUTRON/EXCAVATION/TEMP
Date	07/09/06
Time	08:00:00
Operator	Bob Hoffman
Rig	Rotary
Bit Size	12
Mud Type	Air
Mud Weight	
Viscosity	
Fluid Loss	
Max Temp	0
Max Pressure	0
Max Flow	0
Max Density	0
Max Gamma	0
Max Neutron	0
Max Caliper	0
Max Deviation	0
Max Velocity	0
Max Resistivity	0
Max Temp Rating	0
Max Pressure Rating	0
Max Flow Rating	0
Max Density Rating	0
Max Gamma Rating	0
Max Neutron Rating	0
Max Caliper Rating	0
Max Deviation Rating	0
Max Velocity Rating	0
Max Resistivity Rating	0
Comments	
Logging Engineer	Bob Hoffman
Operating Mode	Logging
Equipment	1000
Logging Unit	1000
Logging Company	Gerdau Ameristeel
Logging Company Address	Gerdau Ameristeel

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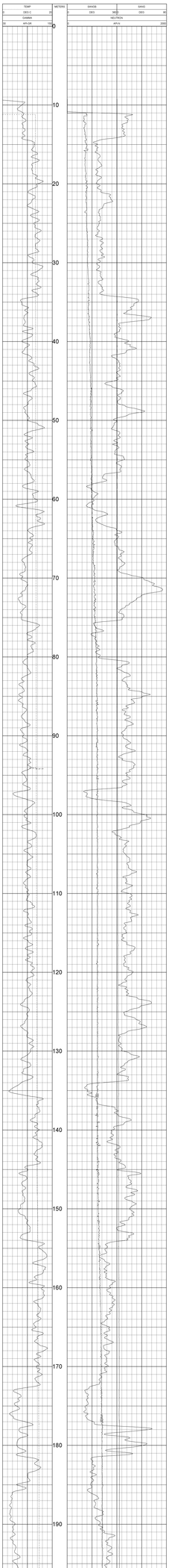
100CM LOG, NEUTRON DEVIATION TEMP RAV06-002C 07/09/06

LOG PARAMETERS

MATRIX DENSITY - 2.71		NEUTRON MATRIX - SANDSTONE	MATRIX DELTA T - 140
MAGNETIC DECL - 16.160		ELECT CUTOFF - 10000	BIT SIZE - 12
PRESENTATION NAMECAPS -	WIST_standard_NEUTRON TEMP 0 - 07112006		



100CM LOG, NEUTRON DEVIATION TEMP RAV06-002C 07/09/06

LOG PARAMETERS

MATRIX DENSITY - 2.71		NEUTRON MATRIX - SANDSTONE	MATRIX DELTA T - 140
MAGNETIC DECL - 16.160		ELECT CUTOFF - 10000	BIT SIZE - 12
PRESENTATION NAMECAPS -	WIST_standard_NEUTRON TEMP 0 - 07112006		

TOOL CALIBRATION: BHOA-BGSC-070809 21:49
TOOL MATCH - TM VERSION 1
TOOL NUMBER - 1000

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	May28,06	17:12:54	GAMMA	Default	[CPS]	Default	[CPS]
2	May28,06	17:12:54	GAMMA	Default	[CPS]	Default	[CPS]
3	Mar15,06	18:34:35	NEUTRON	Default	[CPS]	Default	[CPS]
4	Mar15,06	18:36:28	NEUTRON	271.000	[API-N]	150.00	[CPS]
5	Mar15,06	18:36:28	NEUTRON	271.000	[API-N]	1000.00	[CPS]
6	Aug22,05	00:19:56	BIT	140.000	[BIT]	2147.00	[CPS]
7	Aug22,05	00:19:56	BIT	140.000	[BIT]	2147.00	[CPS]
8	Apr20,05	00:16:19	RESIN RHO	2000.000	[Grms/cc]	1039993.00	[CPS]
9	Apr20,05	00:16:19	RESIN RHO	2000.000	[Grms/cc]	1039993.00	[CPS]
10	Apr20,05	00:16:19	RESIN RHO	2000.000	[Grms/cc]	1039993.00	[CPS]
11	Feb08,06	02:22:21	TEMP	14.000	[DEG C]	60500.00	[CPS]
12	Feb08,06	02:22:21	TEMP	14.000	[DEG C]	60500.00	[CPS]
13	Jul14,05	00:14:12	RES	100.000	[Ohm]	31000.00	[CPS]
14	Jul14,05	00:14:12	RES	100.000	[Ohm]	31000.00	[CPS]
15	Feb22,05	20:58:05	PORNEUTS	100.000	[PERCENT]	157.00	[CPS]

100CM LOG, NEUTRON DEVIATION TEMP RAV06-002C 07/09/06

LOG PARAMETERS

MATRIX DENSITY - 2.71		NEUTRON MATRIX - SANDSTONE	MATRIX DELTA T - 140
MAGNETIC DECL - 16.160		ELECT CUTOFF - 10000	BIT SIZE - 12
PRESENTATION NAMECAPS -	WIST_standard_NEUTRON TEMP 0 - 07112006		

Company	Gamma Tech Services Inc.
Well	RAV06-002C
Field	GAMMA NEUTRON
County	
State	
Country	
Service Company	
Date	07/09/06
Time	
Run Number	
Depth Reference	
Log Measured From	
Permanent Datum	
Elevation	
Elevation	
Elevation

Company	Antrim Energy Inc.
Well	RAV06-002C
Field	Ravenscroft
Province	British Columbia
Country	Canada
Surface Location	00-06-002-02W6M
Bottom Hole Location	00-06-002-02W6M
Elevation	KB: 0 m
Spud Date	07-Jul-2006
Date Logged	07-Jul-2006
Logging Company	Antrim Energy Inc.
Logging Equipment	Antrim Energy Inc.
Logging Method	Wireline
Logging Unit	1
Logging Engineer	Jim Kerr
Log Interval	0 m - 200 m
Log Type	Acoustic Porosity
Log Scale	1:200
Log Direction	Up
Log Quality	Good
Comments	Acoustic Porosity
Depth Control	Logger's Depth
Depth Correlation	Logger's Depth
Depth Shift	0 m
Depth Reference	Ground Level
Depth Reference Elevation	0 m
Depth Reference Offset	0 m
Depth Reference Offset Elevation	0 m
Depth Reference Offset Elevation Type	Ground Level
Depth Reference Offset Elevation Type	Ground Level
Depth Reference Offset Elevation Type	Ground Level

Century GEOPHYSICAL CORP.
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DENSITY
RAV06-003C

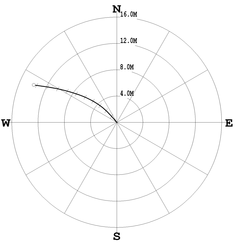
WELL	RAV06-003C
FIELD	RAVENSWOOD
COUNTY	JACKSON
STATE	WV
DATE	07/11/06
SECTION	NA
RANGE	NA
TOWNSHIP	NA
BC	NA
ELEVATION	NA
DATUM	GROUND LEVEL
DRILLER	NA
BIT SIZE	12
DRILL FLUID	AIR
MAX DEPTH	170
RIG	NA
CASING TYPE	NA
CASING BOTTOM	NA
CASING SIZE	NA
MAX TEMPERATURE	NA
RECORDED BY	NA
MCG DEPT	NA
ENGINEER	NA
RUN NO	1
VERTICAL	NA
DATE	07/11/06
DRILLER	NA
BIT SIZE	12
DATE	07/11/06
CASING TYPE	STEEL
CASING BOTTOM	0.0 FT
CASING SIZE	5.00
MAX TEMPERATURE	NA
RECORDED BY	NA
MCG DEPT	NA
ENGINEER	NA
RUN NO	1
VERTICAL	NA
ELEVATION DATUM	NA
DRILL GROUND FROM GL	NA
DRILL GROUND FROM GL	NA
ELEVATION DATUM	NA
ELEVATION DATUM	NA
ELEVATION DATUM

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: COMPLIANCE ENERGY
LOCATION: NA
HOLE ID: NAV06-003C
DATE OF LOG: 07/11/06
PROBE: 9057A 1074

MAG DECL: 19.1

SCALE: 2 M/CM
TRUE DEPTH: 132.43 M
AZIMUTH: 294.2
DISTANCE: 13.9 M
+ = 10 M INCR
▽ = BOTTOM OF HOLE



Century geophysical corp.

century-gpc.com

COMPANY	CONFIDENCE ENERGY
WELL	RAV06-003C
DATE	07/11/06
COUNTY	
PROV.	ALBERTA
STATE	
COUNTRY	CANADA
SEC	NA
TWP	NA
RGE	NA
MERIDIAN	NA
LOCATION	NA
PRODUCING ZONE	NA
API NO.	NA
ELEVATION	NA
DATUM	NA
DRILLING FLUID	NA
BIT SIZE	NA
DATE STARTED	NA
DATE FINISHED	NA
LOG MEASURED FROM	GL
ELEVATION OF KB	NA
ELEVATION OF DF	NA
ELEVATION OF GL	NA
DRILL MEASURED FROM	KB
DEPTH DRILLER	181.7
DEPTH LOGGER	36.00
LOG TOP	36.00
LOG BOTTOM	139.91
LOG INTERVAL	32.6
CASING BOTTOM	NA
CASING TYPE	STEEL
CASING SIZE	NA
RM TEMPERATURE	NA
MUD TYPE	NA
MUD RES	NA
MUD VISC	NA
WITNESSED BY	
RECORDED BY	ERNIE KOPPI
ENGINEER	B BERNIER
REMARKS	VERTICAL

NEUTRON-DEVIATION-TEMP

RAV06-003C

OTHER SERVICES

ALL SERVICES PROVIDED SUBJECT TO CENCO'S STANDARD TERMS AND CONDITIONS

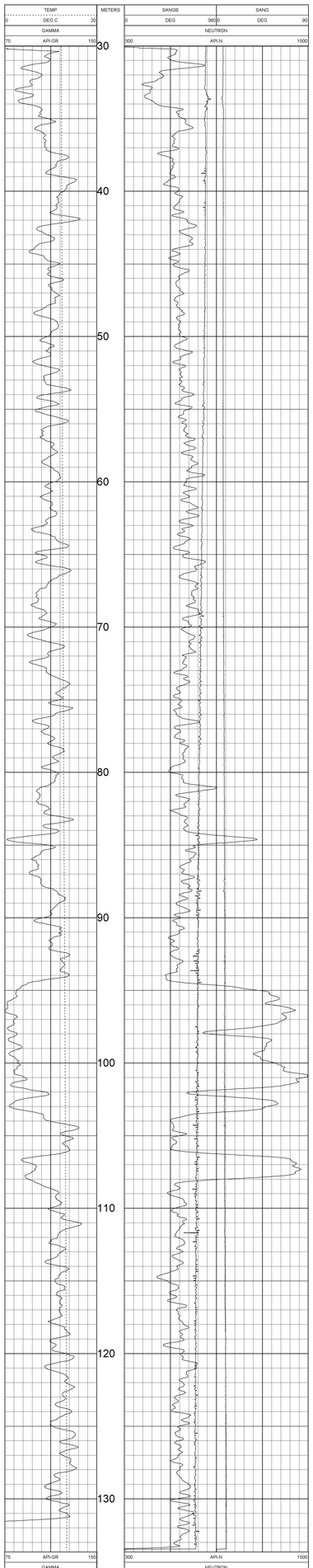
100CM LOG, NEUTRON DEVIATION TEMP RAV06-003C 07/11/06

LOG PARAMETERS

MATRIX DENSITY : 2.71 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

MAGNETIC DECL : 19.100 ELECT. CUTOFF : 10000 BIT SIZE : 12

PRESENTATION NAME/DATE = 9057_deviation_NEUTRON-TEMP 0 07/12/2006



100CM LOG, NEUTRON DEVIATION TEMP RAV06-003C 07/11/06

LOG PARAMETERS

MATRIX DENSITY : 2.71 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177

MAGNETIC DECL : 19.100 ELECT. CUTOFF : 10000 BIT SIZE : 12

PRESENTATION NAME/DATE = 9057_deviation_NEUTRON-TEMP 0 07/12/2006

TOOL CALIBRATION: RAV06-003C 07/11/06 12:35
TOOL: 9057A TM VERSION 1
SERIAL NUMBER: 1074

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	May06,99	17:12:54	GAMMA	Default	[CPS]	Default	[CPS]
	May06,99	18:12:54	GAMMA	Default	[CPS]	Default	[CPS]
2	Mar15,06	18:29:25	NEUTRON	Default	[CPS]	Default	[CPS]
	Mar15,06	18:29:25	NEUTRON	27.000	[API-N]	27.000	[CPS]
3	Apr20,05	00:15:58	SP	0.000	[MV]	59995.00	[CPS]
	Apr20,05	00:15:58	SP	343.000	[MV]	25870.00	[CPS]
4	Apr20,05	00:15:19	RES(16N)	0.000	[OHM-M]	3872.00	[CPS]
	Apr20,05	00:15:19	RES(16N)	2000.000	[OHM-M]	103688.00	[CPS]
5	Apr20,05	00:15:27	RES(64N)	0.000	[OHM-M]	3852.00	[CPS]
	Apr20,05	00:15:27	RES(64N)	2002.000	[OHM-M]	103797.00	[CPS]
6	Feb04,06	02:22:21	TEMP	14.610	[DEG F]	90000.00	[CPS]
	Feb04,06	02:22:21	TEMP	36.280	[DEG F]	55705.00	[CPS]
7	Jul14,04	15:12:18	RES	180.000	[OHM]	19005.00	[CPS]
	Jul14,04	15:12:18	RES	1045.000	[OHM]	61980.00	[CPS]
8	Feb20,03	20:58:05	POR(NEU)	100.000	[PERCENT]	157.00	[CPS]

Century GeoMatrix, Inc.
century.gmi.com

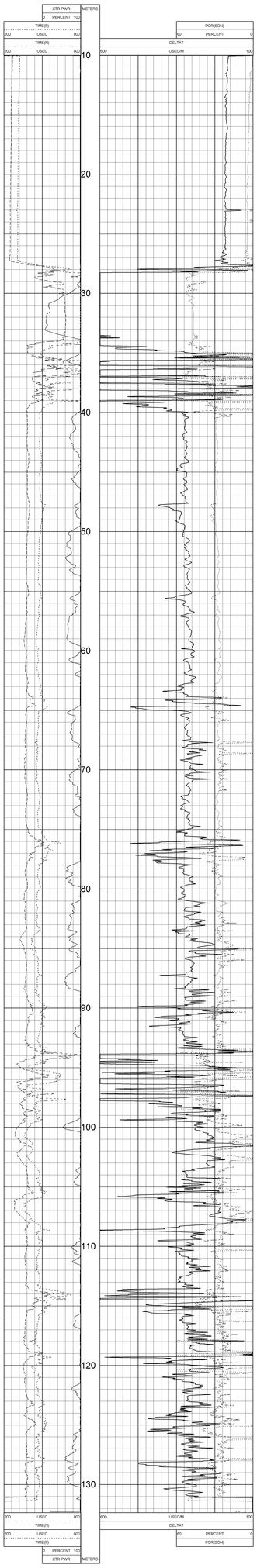
GAMMA-NEUTRON
RAV06-003C

WELL	RAV06-003C
FIELD	RAVENSWOOD
COUNTY	JACKSON
STATE	WV
SECTION	NA
TOWNSHIP	NA
RANGE	NA
OTHER SERVICES	NA
SPUD DATE	NA
DRILLING FINISHED	NA
DRILLER'S TD	NA
LOGGER'S TD	NA
ELEVATION GL	NA
ELEVATION DF	NA
ELEVATION KB	NA
DATE	07/11/06
RUN NUMBER	ONE
DEPTH DRILLER	0.0 FT
DEPTH LOGGER	0.0 FT
BOTTOM LOG INTERVAL	0.0 FT
TOP LOG INTERVAL	0.0 FT
CASING SIZE	0.0 IN
CASING WEIGHT	0.0 LB/FT
CASING TYPE	STEEL
BIT SIZE	12 IN
BIT TYPE	ROTARY CONE
FLUID TYPE	WATER
FLUID LEVEL	NA
MAX REC TEMP	NA
RIG	NA
RECORDED BY	BRIAN SHAPIRO
WITNESSED BY	NA
REMARKS 1	NA
REMARKS 2	NA
REMARKS 3	NA
VERTICAL	0.00 DEG
RAV06-003C	38.9000000 -81.9000000	0.0	0.0	0.0

Century GeoPhysix, Inc.
century-geo.com

ACOUSTIC
RAV06-003C

COMPANY: SOUTHWESTERN ENERGY
FIELD: ?
COUNTY: ?
STATE: ?
SECTION: NA
TOWNSHIP: NA
RANGE: NA
API NO: NA
PERMANENT DATUM: NA
LOG MEASURED FROM: NA
DRILLING MEASURED FROM: NA
ELEVATION: NA
DATE: 07/11/06
RUN NO: NA
DEPTH DRILLER: NA
DEPTH LOGGER: NA
BTM LOG INTERVAL: NA
TOP LOG INTERVAL: NA
CASING DRILLER: 12 3/4 @ 0
CASING LOGGER: 12 3/4 @ 0
CASING TYPE: STEEL
BIT SIZE: 12
TYPE FLUID IN HOLE: NA
RM @ MEASURED TEMP: NA
RMF @ MEASURED TEMP: NA
RMC @ MEASURED TEMP: NA
SOURCE OF RMF: NA
SOURCE OF RMC: NA
RM @ BHT: NA
TIME SINCE CIRCULATION: NA
TIME SINCE PUMPS OFF: NA
MAX RECORDED TEMP: NA
EQUIPMENT NO: NA
LOCATION: NA
RECORDED BY: NA
WITNESSED BY: NA



100CM LOG, SONIC POROSITY RAV06-003C 07/11/06

LOG PARAMETERS

MATRIX DENSITY : 2.71 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 17.15 ELECT CUTOFF : 10000 BIT SIZE : 12
PRESENTATION NAME/DATE = CAN_9300A.0 07/12/2006

TOOL CALIBRATION: RAV06-003C 07/11/06 12:57
TOOL: 9300A TM VERSION 5500
SERIAL NUMBER: 703

DATE	TIME	SENSOR	STANDARD	RESPONSE
Jun-28-99	14:41:48	Default	[EPB]	

SLIM GAMMA NEUTRON

RAVEN-SDAC

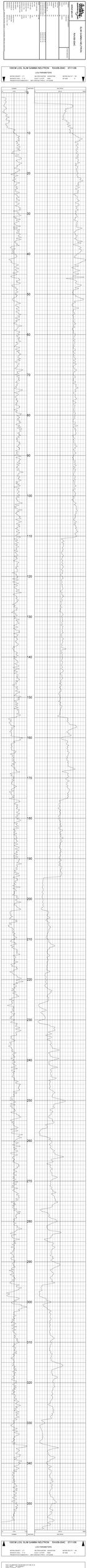
Date	2011-11-08
Time	11:00
Depth	0
Speed	0
Tension	0
Gamma	0
Neutron	0

VIEW: LOG, SLIM GAMMA NEUTRON - RAVEN-SDAC - 011108

LOG PARAMETERS

MATRIX DENSITY: 2.71	MATRIX DELTA-T: 55.5	MATRIX DELTA-T: 182	MATRIX DELTA-T: 54
PORO DENSITY: 1.0	FLUID DENSITY: 1.0	MATRIX: 0	MATRIX: 0
PROGRAM DATE/TIME: 2011-11-08 11:11:11			

MATRIX DENSITY: 2.71	MATRIX DELTA-T: 55.5	MATRIX DELTA-T: 182	MATRIX DELTA-T: 54
PORO DENSITY: 1.0	FLUID DENSITY: 1.0	MATRIX: 0	MATRIX: 0
PROGRAM DATE/TIME: 2011-11-08 11:11:11			



VIEW: LOG, SLIM GAMMA NEUTRON - RAVEN-SDAC - 011108

LOG PARAMETERS

MATRIX DENSITY: 2.71	MATRIX DELTA-T: 55.5	MATRIX DELTA-T: 182	MATRIX DELTA-T: 54
PORO DENSITY: 1.0	FLUID DENSITY: 1.0	MATRIX: 0	MATRIX: 0
PROGRAM DATE/TIME: 2011-11-08 11:11:11			

MATRIX DENSITY: 2.71	MATRIX DELTA-T: 55.5	MATRIX DELTA-T: 182	MATRIX DELTA-T: 54
PORO DENSITY: 1.0	FLUID DENSITY: 1.0	MATRIX: 0	MATRIX: 0
PROGRAM DATE/TIME: 2011-11-08 11:11:11			

2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11
2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11
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2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11
2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11	2011-11-08 11:11:11

Geotech Geophysical Services

DENSITY
RAV05-004C

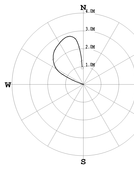
Company	Geotech Geophysical Services
Contractor	Geotech Geophysical Services
Rig	Rig
Hole Type	Diamond Drill Hole
Hole Size	12 in
Casing Type	Steel
Casing Size	12 in
Casing Depth	0 m
Water Level	0 m
Water Type	Fresh
Water Temperature	10 C
Water Density	1 g/cm3
Water Conductivity	0 mS/m
Water Salinity	0 ppm
Logged Interval	0 m - 224 m
Logged By	Geotech Geophysical Services
Date	07/12/06
Time	12:00
Operator	Geotech Geophysical Services
Logging Method	Downhole
Logging Direction	Downhole
Logging Speed	10 m/min
Sample Interval	0.01 m
Tool Type	Density
Tool Serial Number	1
Tool Length	1.5 m
Tool Diameter	0.05 m
Tool Weight	0 kg
Tool Calibration Date	07/12/06
Tool Calibration Number	1
Tool Calibration Method	Factory
Tool Calibration Comments	Factory
Tool Operator	Geotech Geophysical Services
Tool Operating Mode	Standard
Tool Operating Comments	Standard
Tool Position	Eccentered
Tool Orientation	Downward
Tool Measurement	Density
Tool Measurement Comments	Density
Tool Measurement Method	Gamma Ray Backscatter
Tool Measurement Comments	Gamma Ray Backscatter
Tool Measurement Units	g/cm3
Tool Measurement Resolution	0.01 g/cm3
Tool Measurement Accuracy	0.01 g/cm3

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: COMPLIANCE ENERGY
LOCATION: NA
WELL ID: NAPOG-0040
DATE OF LOG: 07/22/04
DRUSH: NOTA: 1074

MAG DECL: 19.1

SCALE: 1 M/CM
TRUE DEPTH: 229.74 M
AZIMUTH: 354.3
DISTANCE: 0.9 M
* = SURFACE
+ = BOTTOM OF HOLE



Baitty Research
Century Wyo. USA

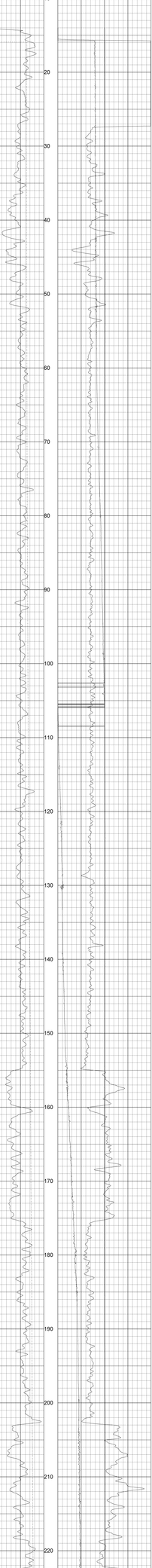
NEUTRON DEVIATION TEMP
RAV06-004C

Date: 07/12/06
Scale: 1:200
Depth Reference: Kelly Bushing

100CM LOG, NEUTRON DEVIATION TEMP RAV06-004C 07/12/06

LOG PARAMETERS

MATRIX DENSITY : 2.71	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 16.100	ELECT. CUTOFF : 10000	BIT SIZE : 12	
PRESENTATION NAME/DATE =	WXY_deviation_NEUTRON TEMP 0 : 07112006		



100CM LOG, NEUTRON DEVIATION TEMP RAV06-004C 07/12/06

LOG PARAMETERS

MATRIX DENSITY : 2.71	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 16.100	ELECT. CUTOFF : 10000	BIT SIZE : 12	
PRESENTATION NAME/DATE =	WXY_deviation_NEUTRON TEMP 0 : 07112006		

TOOL CALIBRATION: RAV06-004C-07112006 08:16:
TOOL WEIGHT: 50 KENGRAM 1
TOOL LENGTH: 12.00 FT

	DATE	TIME	SENSOR	STACKING		RECEIVER	
1	Mar/31/06	16:10:24	GAMMA	Default	[CPS]	Default	[CPS]
2	Mar/31/06	16:12:04	GAMMA	Default	[CPS]	Default	[CPS]
3	Mar/31/06	16:26:35	NEUTRON	Default	[CPS]	Default	[CPS]
4	Jul/25/06	09:15:19	NEUTRON	0.000	[CPS]	0.000	[CPS]
5	Jul/25/06	09:16:19	HF	0.000	[MV]	0.000	[MV]
6	Jul/25/06	09:16:19	HF	0.000	[MV]	0.000	[MV]
7	Jul/25/06	09:16:19	RESISTIVITY	0.000	[OHM-M]	1.000	[OHM-M]
8	Jul/25/06	09:16:19	RESISTIVITY	0.000	[OHM-M]	1.000	[OHM-M]
9	Jul/25/06	09:16:19	RESISTIVITY	0.000	[OHM-M]	1.000	[OHM-M]
10	Jul/25/06	09:16:19	TEMP	14.910	[DEG C]	30500.00	[DEG C]
11	Jul/25/06	09:16:19	TEMP	14.910	[DEG C]	30500.00	[DEG C]
12	Jul/25/06	09:16:19	RES	0.000	[MV]	1000.00	[MV]
13	Jul/25/06	09:16:19	RES	0.000	[MV]	1000.00	[MV]
14	Jul/25/06	09:16:19	POWERED	100.000	[PERCENT]	107.00	[PER]

Baitty Research
Baitty Research Inc.
Calgary, Alberta T2P 0R7

GAMMA NEUTRON
RAV06-004C

Date: 07/12/06
Scale: 1:200
Depth Scale: Metres
Log Type: Gamma Neutron
Date Run: 07/12/06
Time Run: 16:00
Date Rec'd: 07/12/06
Time Rec'd: 16:00
Rig: Rig 1
Operator: Rob
Recorded By: Rob
Witnessed By: Rob
Bit Size: 12"
Casing Size: 12"
Casing Depth: 0
Mud Type: Water
Density: 1.0
Viscosity: 28
Fluid Loss: 0
Max Temp: 14.5°C
Max Pressure: 0
Equipment: 1000 m
Equipment Rating: 1000 m
Source Strength: 10 mCi
Source Serial No.: 1
Detector Serial No.: 1
Calibration Date: 07/12/06
Calibration Time: 16:00
Calibration Type: Pre-Log
Calibration Log: Gamma Neutron
Calibration Log Date: 07/12/06
Calibration Log Time: 16:00
Calibration Log Rec'd: Yes
Calibration Log Rec'd Time: 16:00
Calibration Log Rec'd Date: 07/12/06

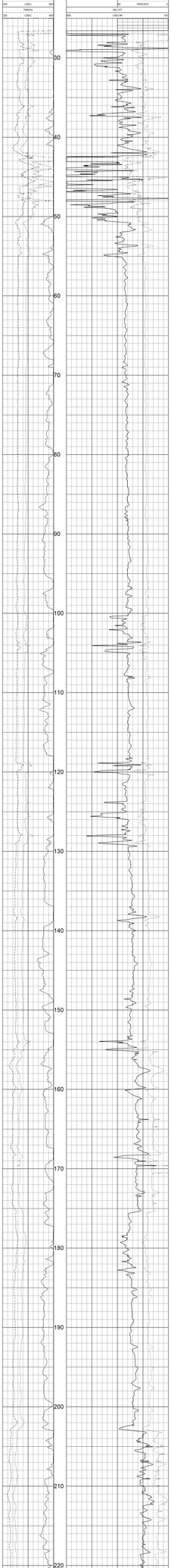
Company:	ACOUSTIC SENTRY INC.
Well:	RAV06-004C
Field:	
County:	
State:	
Country:	
Surface Location:	
Lat:	
Long:	
Elevation:	
Datum:	
Log Date:	07-Dec-2006
Log No:	1
Run No:	1
Depth Driller:	0.00 m
Depth Logger:	0.00 m
Bottom Log Interval:	0.00 m
Top Log Interval:	0.00 m
Drill Bit Size:	0.00 mm
Drill Collar Size:	0.00 mm
Max Rec Temp:	0.00 C
Equipment:	
Recorded By:	
Witnessed By:	

Acoustic Sentry Inc.
www.acsentry.com

100CM LOG, SONIC POROSITY RAV06-004C 07/12/06

LOG PARAMETERS

MATRIX DENSITY :	2.71	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL :	17.15	ELECT CUTOFF : 10000	BIT SIZE : 1.0
PRESENTATION NAMEDATE =	CAN_BRAD.4 07/12/2006		



100CM LOG, SONIC POROSITY RAV06-004C 07/12/06

LOG PARAMETERS

MATRIX DENSITY :	2.71	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL :	17.15	ELECT CUTOFF : 10000	BIT SIZE : 1.0
PRESENTATION NAMEDATE =	CAN_BRAD.4 07/12/2006		

TOOL CALIBRATION: RAVOBLUBE 2011/CDR 11-01
TOOL STACK: 2011 STANDARD
TOOL SERIAL NUMBERS: 0000

	DATE	TIME	SENSOR	DEFAULT	STANDARD		RESPONSE	
1	Jun/30/06	14:41:46		DEFAULT	(CPS)			
2	Jun/30/06	14:41:46	GAMMA	0.000	0.000	(API)	294.00	(CPS)
3	Apr/14/06	19:46:21	VOLTAGE	31.000	24	(V)	2048.00	(CPS)
4	Apr/14/06	19:46:21	VOLTAGE	572.000	384	(V)	768011.00	(CPS)
5	Jun/01/06	21:56:24	CALIPER	0.000	0.000	(INCH)	0.00	(CPS)
6	Jun/01/06	21:56:24	CALIPER	20.000	20.000	(INCH)	65536.00	(CPS)
7	Jun/16/06	22:22:55	DENS.SL	0.000	0.000	(G/C3)	0.00	(CPS)
8	Jun/16/06	22:22:55	DENS.SL	2.600	2.600	(G/C3)	778.00	(CPS)
9	Jun/16/06	22:22:55	DENS.SS	0.000	0.000	(G/C3)	0.00	(CPS)
10	Jun/16/06	22:22:55	DENS.SS	2.600	2.600	(G/C3)	778.00	(CPS)
11	Jun/01/06	00:00:15	CALIPER	10.160	10.160	(INCH)	16383.00	(CPS)
12	Jun/01/06	00:00:15	CALIPER	15.000	15.000	(INCH)	49152.00	(CPS)
13	Jun/01/06	00:00:15	CAMERA	0.000	0.000	(LA)	0.00	(CPS)
14	Jun/01/06	00:00:15	CAMERA	20.000	20.000	(LA)	32768.00	(CPS)
15	Apr/14/06	19:46:21		0.000	0.000			

Geotech

COMPANY	GEOTECH
WELL	RAV06-006C
FIELD	RAVENSWOOD
COUNTY	Ravenswood
STATE	Australia
API NO.	
LOCATION	
SECTION	0
TOWNSHIP	0
RANGE	0
PERMANENT DATUM	GL
LOG MEASURED FROM	KB
DRILLING MEASURED FROM	KB
ELEVATION	0
ELEVATION KB	0
ELEVATION DF	0
ELEVATION GL	0
DATE	09/26/06
RUN NO.	ONE
DEPTH DRILLER	0
DEPTH LOGGER	0
BTM LOG INTERVAL	0
TOP LOG INTERVAL	0
CASING - DRILLER	0 @ 0
CASING - LOGGER	0 @ 0
BIT SIZE	12.25
TYPE FLUID IN HOLE	WATER
DENSITY / VISCOSITY	N/A N/A
PH / FLUID LOSS	N/A N/A
SOURCE OF SAMPLE	N/A
RM @ MEASURED TEMP	N/A @ N/A
RMF @ MEASURED TEMP	N/A @ N/A
RMC @ MEASURED TEMP	N/A @ N/A
SOURCE RMF / RMC	N/A / N/A
RM @ BHT	N/A @ N/A
TIME CIRC. STOPPED	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

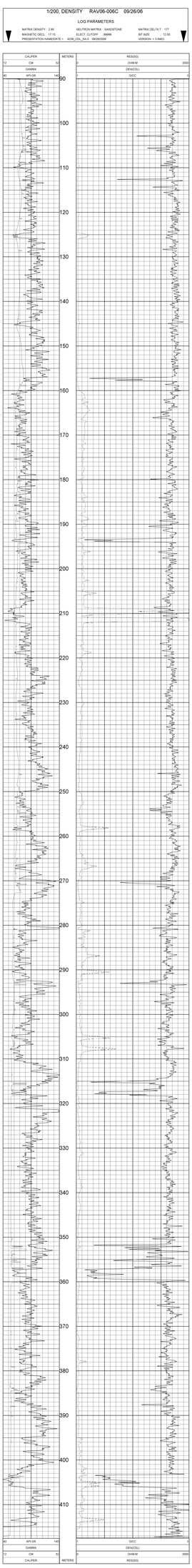
DENSITY

RAV06-006C

GEOTECH

RAVENSWOOD

AUSTRALIA



TOOL CALIBRATION: RAV06-006C 09/26/06 19:57
TOOL: 8236C TM VERSION 2015
TOOL STRING: 1 TSB

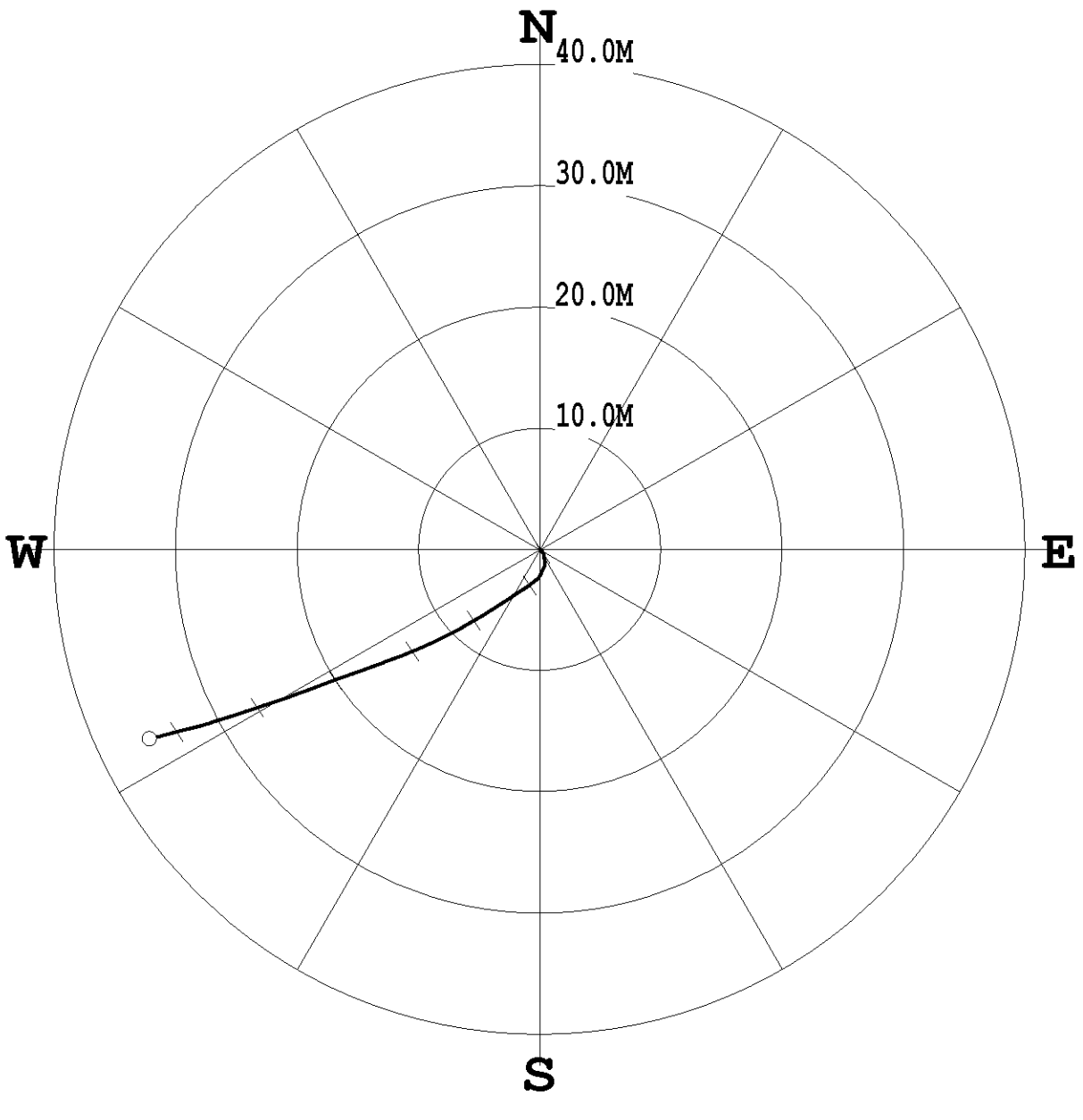
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug20,06	12:13:56	GAMMA	0.000	[API-GR]	2.00	[CPS]
2	Aug20,06	12:13:58	GAMMA	200.000	[API-GR]	256.00	[CPS]
3	Aug20,06	11:46:18	VOLTAGE	0.000	[MV]	4992.00	[CPS]
4	Aug20,06	11:46:20	VOLTAGE	1000.000	[MV]	5000.00	[CPS]
5	Aug20,06	19:15:33	CALIPER	12.000	[INCH]	5447.00	[CPS]
6	Aug20,06	19:15:35	CALIPER	20.000	[INCH]	63500.00	[CPS]
7	Sep07,06	05:41:41	DENS(S)	2.500	[G/CC]	4000.00	[CPS]
8	Sep07,06	05:41:41	DENS(S)	2.500	[G/CC]	4000.00	[CPS]
9	Sep07,06	00:13:51	DENS(S)	1.000	[G/CC]	7000.00	[CPS]
10	Sep07,06	00:13:51	DENS(S)	1.000	[G/CC]	7000.00	[CPS]
11	Aug20,06	13:34:11	CALIPER(L)	7.000	[INCH]	58198.00	[CPS]
12	Aug20,06	13:34:11	CALIPER(L)	11.000	[INCH]	35937.00	[CPS]
13	Aug20,06	12:20:46	CURRENT	0.000	[LA]	0.00	[CPS]
14	Aug20,06	12:20:46	CURRENT	200.000	[LA]	35991.00	[CPS]
15	Aug20,06	12:55:05	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: COMPLIANCE ENERGY
LOCATION: NA
HOLE ID: RAV06-006C
DATE OF LOG: 09/26/06
PROBE: 9057A 1074

MAG DECL: 17.2

SCALE: 5 M/CM
TRUE DEPTH: 414.16 M
AZIMUTH: 244.1
DISTANCE: 35.7 M
+ = 50 M INCR
○ = BOTTOM OF HOLE



Company:	Century Geophysical Corporation
Well:	SLIM GAMMA NEUTRON EXPANDED RAV06-006C
Field:	Ravenscroft
County:	Clark
State:	Nevada
Country:	USA
Other Services:	Gamma Ray Neutron
Permanent Datum:	Ground Level
Log Measured From:	Kelly Bushing
Drilling Measured From:	Kelly Bushing
Elevation:	Kelly Bushing: 0 ft Ground Level: 0 ft
Date:	09/25/2006
Run Number:	ONE
Depth Driller:	0 ft
Depth Logger:	0 ft
Bottom Log Interval:	0 ft
Top Log Interval:	0 ft
Casing Driller Size at Depth:	0 in @ 0 ft
Casing Logger Size at Depth:	0 in @ 0 ft
Bit Size:	0 in
Type Fluid in Hole:	Dry
Density:	0 lb/gal
Viscosity:	0 s
Fluid Level:	0 ft
Max Rec Temp:	0 deg F
Equipment Number:	0
Location:	0
Recorded By:	0
Witnessed By:	0

SLIM GAMMA NEUTRON EXPANDED RAV06-006C

Gamma Ray (API units) 0 150

Neutron (API units) 600 0

Depth (ft) 0 100

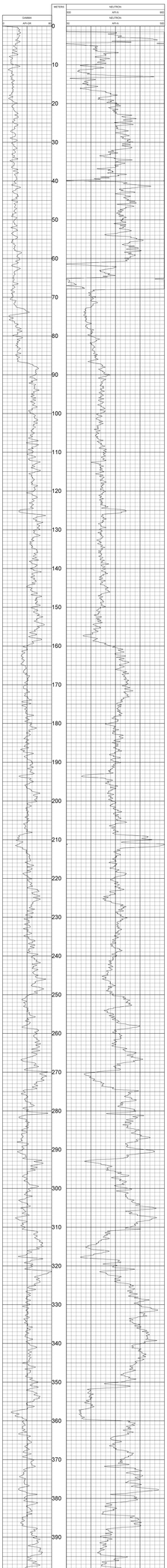
Scale 1:200

Log Header Scan

1/200, SLIM GAMMA NEUTRON RAV06-006C 09/25/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE		MATRIX DELTA-T : 177
MAGNETIC DECL : 17.15	ELECT. CUTOFF : 30000		BIT SIZE : 12
PRESENTATION NAMEDATA :	MAR1GAMMSLIT2 : 06/05/2006		VERSION : 3.54B2



1/200, SLIM GAMMA NEUTRON RAV06-006C 09/25/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE		MATRIX DELTA-T : 177
MAGNETIC DECL : 17.15	ELECT. CUTOFF : 30000		BIT SIZE : 12
PRESENTATION NAMEDATA :	MAR1GAMMSLIT2 : 06/05/2006		VERSION : 3.54B2

TOOL CALIBRATION: RA-GAMUNIC 0M2008 1M127
TOOL TYPE: SLIM GAMMA 2
SERIAL NUMBER: 1M127

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	JUN 08	08:51:30	GAMMA	Default	[CPS]	Default	[CPS]
2	JUN 08	08:51:30	NEUTRON	Default	[CPS]	Default	[CPS]
3	JUN 08	08:51:30	GAMMA	Default	[CPS]	Default	[CPS]
4	JUN 08	08:51:30	NEUTRON	Default	[CPS]	Default	[CPS]
5	JUN 08	08:51:30	CCL	Default	[CPS]	Default	[CPS]
6	JUN 08	08:51:30	CCL	Default	[CPS]	Default	[CPS]
7	JUN 08	08:51:30	FORCEPT	Default	[CPS]		

Company	Schlumberger
Well	RAVEN-006C
Field	ADVOCATE
Country	CANADA
Province	ALBERTA
Latitude	55 46 00.000
Longitude	118 45 00.000
Elevation	1000.00
Date	10-Oct-2006
Time	00:00:00
Log Type	1/100, SONIC POROSITY
Log Interval	1000.00 - 3500.00
Log Speed	1.00
Log Direction	Down
Tool Type	SONIC
Tool Serial Number	1
Tool Length	0.00
Tool Diameter	0.00
Tool Weight	0.00
Tool Position	0.00
Tool Offset	0.00
Tool Calibration Date	0
Tool Calibration Time	0
Tool Calibration Type	0
Tool Calibration Value	0
Tool Calibration Error	0
Tool Calibration Method	0
Tool Calibration Number	0

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DENSITY
RAV06-007C

COMPANY	:COMPLIANCE ENERGY
WELL	:RAV06-007C
FIELD	:NA
COUNTY	:CANADA
STATE	:BC
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	:09/24/06
DEPTH DRILLER	:127.53
BIT SIZE	:12.00
LOG TOP	:43.80
LOG BOTTOM	:126.88
CASING OD	:17
CASING BOTTOM	:62
CASING TYPE	:STEEL
BOREHOLE FLUID	:WATER
RM TEMPERATURE	:NA
MUD RES	:NA
MUD WEIGHT	:NA
WITNESSED BY	:ERNIE POPYK
RECORDED BY	:B BERINGER
REMARKS 1	:VERTICAL
REMARKS 2	:

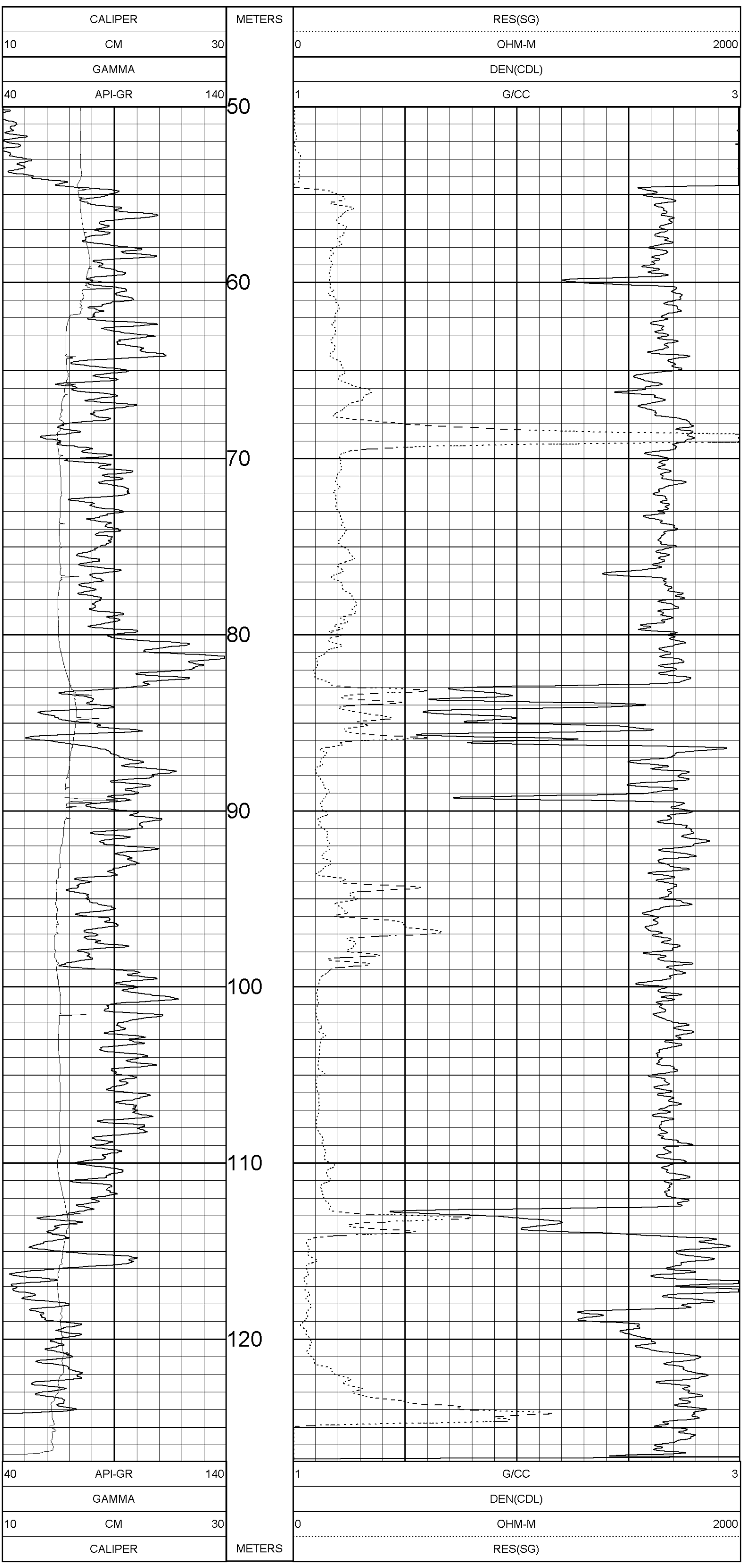
OTHER SERVICES:
DENSITY
NEUTRON
DEVIATI

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1/200, COMPENSATED DENSITY RAV06-007C 09/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 17.15 ELECT. CUTOFF : 99999 BIT SIZE : 12.00
PRESENTATION NAME/DATE = 9239_CDL_SA.0 09/24/2006 VERSION = 3.64EC



1/200, COMPENSATED DENSITY RAV06-007C 09/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 17.15 ELECT. CUTOFF : 99999 BIT SIZE : 12.00
PRESENTATION NAME/DATE = 9239_CDL_SA.0 09/24/2006 VERSION = 3.64EC

TOOL CALIBRATION RAV06-007C 09/24/06 16:36
TOOL 9239C TM VERSION 2015
SERIAL NUMBER 1158

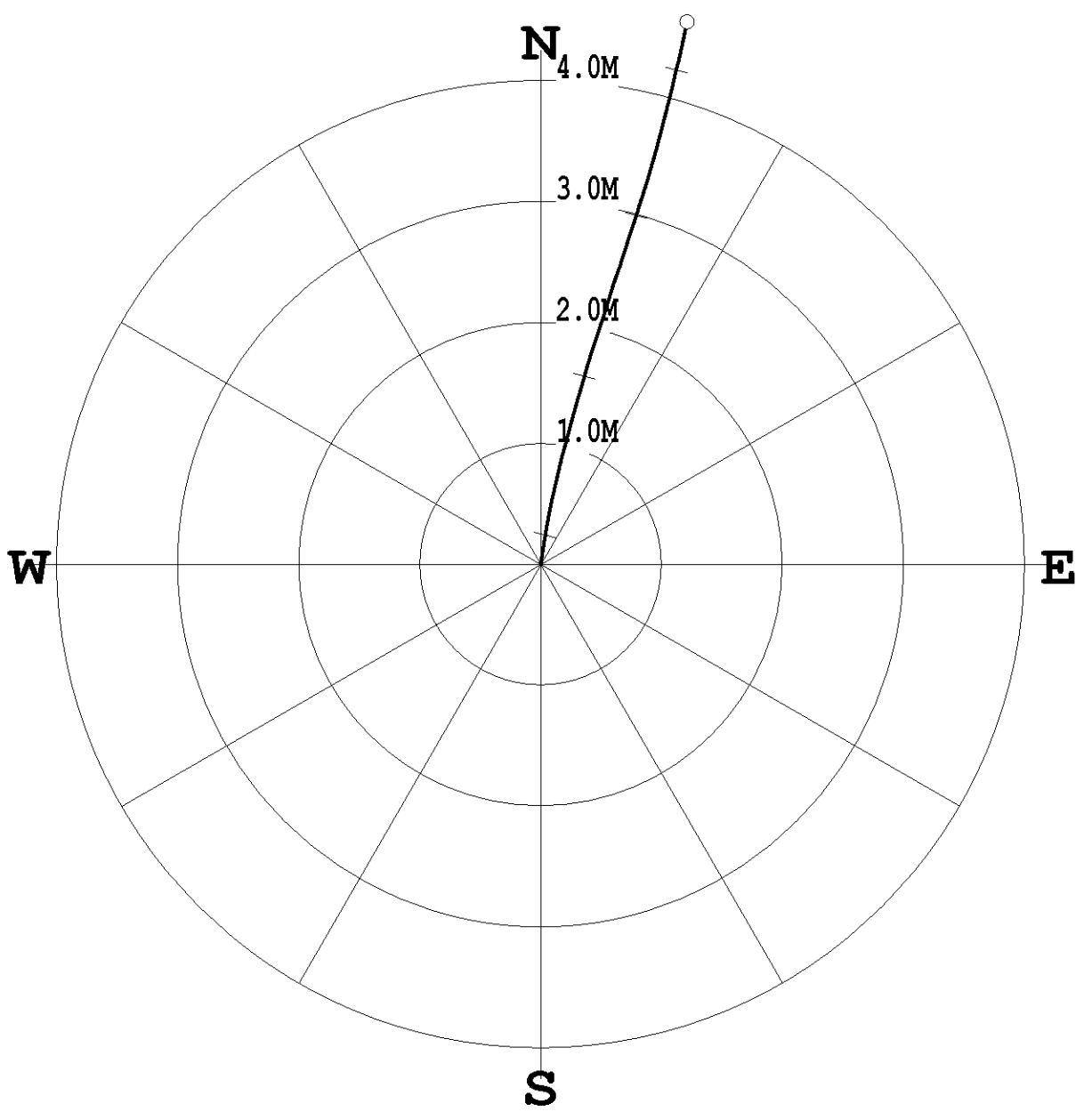
	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug03,06	12:13:56	GAMMA	0.000	[API-GR]	2.00	[CPS]
	Aug03,06	12:13:56	GAMMA	283.000	[API-GR]	265.00	[CPS]
2	Aug03,06	11:48:19	VOLTAGE	0.000	[MV]	4950.00	[CPS]
	Aug03,06	11:48:19	VOLTAGE	1990.000	[MV]	92803.00	[CPS]
3	Aug21,06	19:15:33	CALIPER	12.000	[INCH]	59472.00	[CPS]
	Aug21,06	19:15:33	CALIPER	20.000	[INCH]	83500.00	[CPS]
4	Sep24,06	16:48:37	DEN(LS)	1.000	[G/CC]	11650.00	[CPS]
	Sep24,06	16:46:59	DEN(LS)	2.383	[G/CC]	4900.00	[CPS]
5	Sep17,06	00:13:51	DEN(SS)	1.000	[G/CC]	7800.00	[CPS]
	Sep24,06	16:47:46	DEN(SS)	2.383	[G/CC]	580.00	[CPS]
6	Aug02,06	13:34:11	CALIPERL	7.000	[INCH]	58749.00	[CPS]
	Aug02,06	13:34:11	CALIPERL	11.000	[INCH]	78507.00	[CPS]
7	Aug02,06	13:23:46	CURRENT	0.000	[UA]	4805.00	[CPS]
	Aug02,06	13:23:46	CURRENT	285.000	[UA]	33691.00	[CPS]
8	Aug02,06	12:55:05	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: COMPLIANCE ENERGY
LOCATION: NA
HOLE ID: RAV06-007C
DATE OF LOG: 09/24/06
PROBE: 9057A 1074

MAG DECL: 17.2

SCALE: 1 M/CM
TRUE DEPTH: 126.65 M
AZIMUTH: 15.1
DISTANCE: 4.6 M
+ = 20 M INCR
○ = BOTTOM OF HOLE



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SLIM GAMMA-NEUTRON EXPANDED RAV06-007C

COMPANY	COMPLIANCE ENERGY	OTHER SERVICES:	
WELL	RAV06-007C	DENSITY	
FIELD	NA	NEUTRON	
COUNTY	CANADA	DEVIATI	
STATE	BC		
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	09/24/06		
DEPTH DRILLER	:127.53		
BIT SIZE	:12		
LOG TOP	:4.24		
LOG BOTTOM	:126.98		
CASING OD	:17		
CASING BOTTOM	:62		
CASING TYPE	:STEEL		
BOREHOLE FLUID	:WATER		
RM TEMPERATURE	NA		
MUD RES	NA		
MUD WEIGHT	NA		
WITNESSED BY	ERNIE POPYK		
RECORDED BY	:B BERINGER		
REMARKS 1	VERTICAL		
REMARKS 2	:		

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

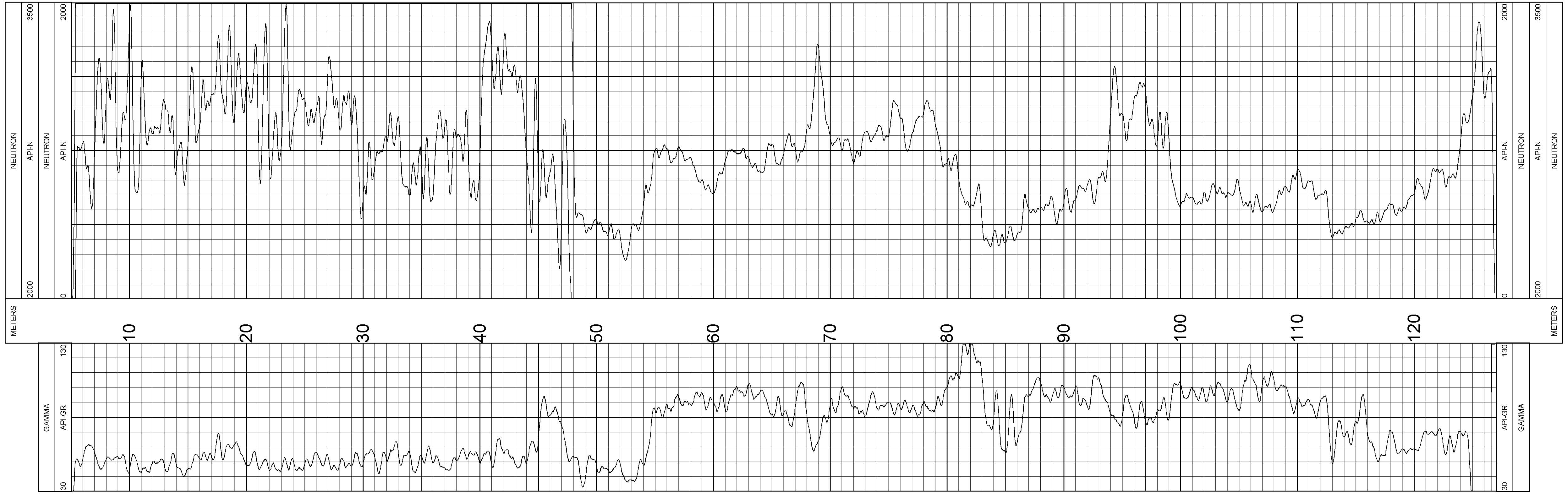
1/200, NEUTRON RAV06-007C 09/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 17.15
PRESENTATION NAME/DATE = 9087-GAM-NEUT2.0 09/22/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 177
BIT SIZE : 12
VERSION = 3.84EC



1/200, NEUTRON RAV06-007C 09/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65
MAGNETIC DECL. : 17.15
PRESENTATION NAME/DATE = 9087-GAM-NEUT2.0 09/22/2006

NEUTRON MATRIX : SANDSTONE
ELECT. CUTOFF : 99999

MATRIX DELTA T : 177
BIT SIZE : 12
VERSION = 3.84EC

TOOL CALIBRATION RAV06-007C 09/24/06 16:08
TOOL 9057A TM VERSION 1
SERIAL NUMBER 1074

	DATE	TIME	SENSOR	STANDARD	RESPONSE
					TYPE
1	May08.99	09:12:54	GAMMA	Default [CPS]	Default [CPS]
	May08.99	09:12:54	GAMMA	Default [CPS]	Default [CPS]
2	Mar15.06	09:29:25	NEUTRON	Default [CPS]	Default [CPS]
	Mar15.06	09:29:25	NEUTRON	27.000 [PERCENT]	1.000 [CPS]
3	Apr19.05	17:15:58	SP	0.000 [MV]	59995.00 [CPS]
	Apr19.05	17:15:58	SP	345.000 [MV]	25870.00 [CPS]
4	Apr19.05	17:15:19	RES(16N)	2000.000 [OHM-M]	103888.00 [CPS]
	Apr19.05	17:15:19	RES(16N)	2000.000 [OHM-M]	103757.00 [CPS]
5	Apr19.05	17:15:27	RES(64N)	2000.000 [OHM-M]	90500.00 [CPS]
	Apr19.05	17:15:27	RES(64N)	2000.000 [OHM-M]	90500.00 [CPS]
6	Feb03.06	19:22:21	TEMP	14.610 [DEG F]	19005.00 [CPS]
	Feb03.06	19:22:21	TEMP	14.610 [DEG F]	19005.00 [CPS]
7	Jul14.04	08:12:18	RES	189.000 [OHM]	61980.00 [CPS]
	Jul14.04	08:12:18	RES	1045.000 [OHM]	157.00 [CPS]
8	Feb20.03	13:58:05	POR(NEU)	100.000 [PERCENT]	

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ACOUSTIC
RAV06-007C

COMPANY	COMPANCE ENERGY
WELL	RAV06-007C
FIELD	NA
COUNTY	NA
STATE	CANADA
LOCATION	NA
SECTION	NA
TOWNSHIP	NA
RANGE	NA
API NO.	NA
WITNESS	NA
OTHER SERVICES	DENSITY NEUTRON (SHORT)
ELEVATION KB	NA
ELEVATION DF	NA
ELEVATION GL	NA
LOG MEASURED FROM GL	
DRL MEASURED FROM GL	
DATE	10/24/06
DEPTH DRILLER	127.53
DEPTH LOGGER	127.53
LOG TOP	4*.10
LOG BOTTOM	125.78
CASING OD	17
CASING BOTTOM	17
CASING WT & TYPE	STEEL
BOREHOLE FLUID	WATER
RM TEMPERATURE	NA
MUD RES	NA
MUD WEIGHT	NA
MUD VISCOSITY	NA
RECORDED BY	BRANE ROPYK
WITNESSED BY	B BERINGER
REMARKS 1	VERTICAL
REMARKS 2	

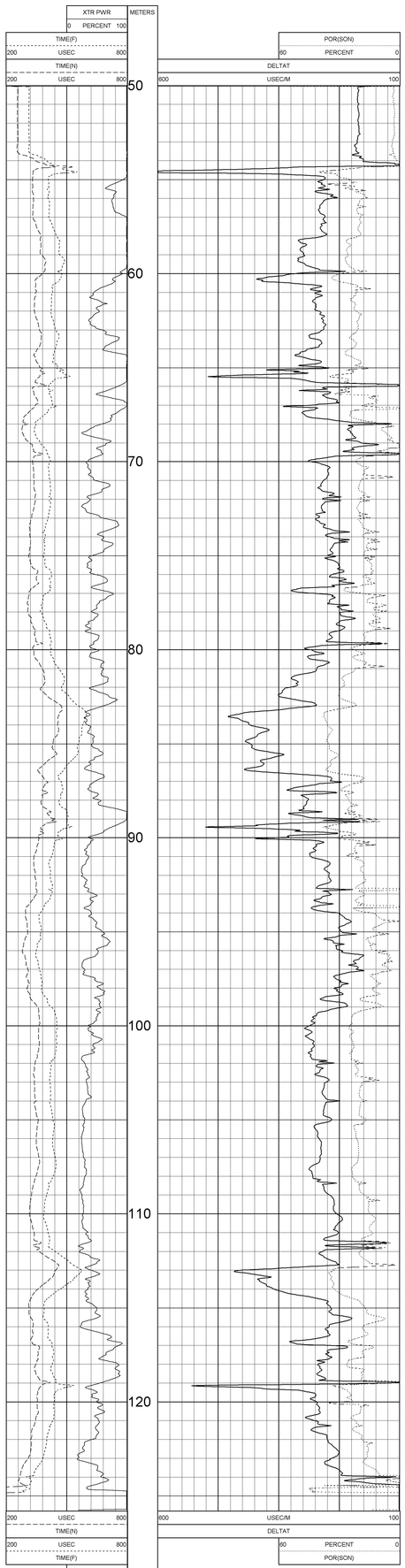
ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

NEUTRON MATRIX :	SANDSTONE
ELECT. CUTOFF :	99999
MATRIX DELTA T :	177
BIT SIZE :	12
VERSION =	3.64EC

1/100, SONIC POROSITY RAV06-007C 10/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 | NEUTRON MATRIX : SANDSTONE | MATRIX DELTA T : 177
MAGNETIC DECL : 17.15 | ELECT. CUTOFF : 99999 | BIT SIZE : 12
PRESENTATION NAME/DATE = 9300A.0 10/24/2006 | VERSION = 3.64EC



1/100, SONIC POROSITY RAV06-007C 10/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 | NEUTRON MATRIX : SANDSTONE | MATRIX DELTA T : 177
MAGNETIC DECL : 17.15 | ELECT. CUTOFF : 99999 | BIT SIZE : 12
PRESENTATION NAME/DATE = 9300A.0 10/24/2006 | VERSION = 3.64EC

TOOL CALIBRATION RAV06-007C 10/24/06 17:27
TOOL 9300A TM VERSION 5500
SERIAL NUMBER 703

	DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jun29,99	08:41:45	Default	[CPS]	

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DENSITY
RAV06-008C

COMPANY	CONRAD ENERGY
FIELD	NA
COUNTY	NA
STATE	BC
COUNTRY	CANADA
LOCATION	NA
LSD	NA
TOWNSHIP	NA
RANGE	NA
W2M	NA
PROJ CIRCLE ID	NA
PROJ	NA
RUN	NA
DATE	NA
DENSITY SERVICES	
DENSITY	
SONIC	

DENSITY SERVICES
DENSITY
SONIC

DATUM MEASURED FROM GL	
DRILLING MEASURED FROM GL	
DATUM MEASURED FROM GL	
DRILLING MEASURED FROM GL	
ELEVATION OF DF	NA
ELEVATION OF GL	NA
ELEVATION OF KB	NA
ELEVATION OF DF	NA
ELEVATION OF GL	NA

DEPTH-DRILLER	287		
DEPTH-LOGGER	287		
LOG BOTTOM	287.10		
DRILL BIT	7.875		
CASING BOTTOM	27		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	NA		
MAX TEMPERATURE	NA		
MAX WEIGHT	NA		
RECORDED BY			
WITNESSED BY			
RUN NUMBER	1		
RUN	1		
BIT	7.875		
CASING	4.778		
DATE	23/10		
TIME	12:15		
DRILLER			
LOGGER			
RECORDED BY			
WITNESSED BY			
RUN NUMBER	1		
RUN	1		
BIT	7.875		
CASING	4.778		
DATE	23/10		
TIME	12:15		

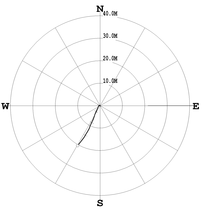
DENSITY-SONIC	
DENSITY	
SONIC	
DENSITY	
SONIC	
DENSITY	
SONIC	
DENSITY	
SONIC	
DENSITY	
SONIC	
DENSITY	
SONIC	
DENSITY	
SONIC	

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: COMPLIANCE ENERGY
LOCATION: NA
HOLE ID: BAVO6-009C
DATE OF LOG: 10/23/06
PROBE: 9057A 1074

MAG DECL: 17.2

SCALE: 5 M/CM
TMVD DEPTH: 283.90 M
AZIMUTH: 209.3
DISTANCE: 25.4 M
* = 50 M INCR
' = BOTTOM OF HOLE

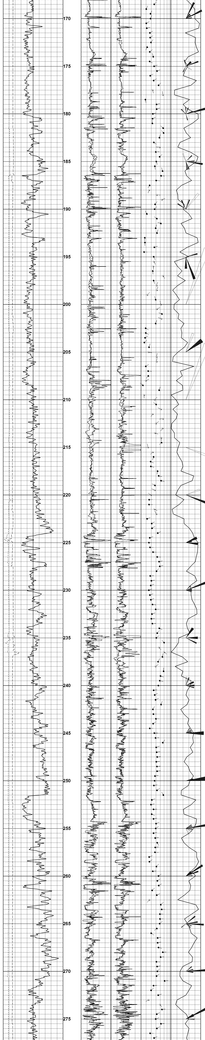


Geotech
GEOPHYSICAL SURVEYS
DIPMETER
RAV06-008C

1/100, FORMATION DIP METER RAV06-008C 10/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 17.100 ELECT. CUTOFF : 9999 BIT SIZE : 12
PRESENTATION HARDCOPY : DIP 2 SENSORS STRECH : 1.0440



1/100, FORMATION DIP METER RAV06-008C 10/24/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL : 17.100 ELECT. CUTOFF : 9999 BIT SIZE : 12
PRESENTATION HARDCOPY : DIP 2 SENSORS STRECH : 1.0440

TOOL CALIBRATION RAV06-008C 11/02/06 15:28
TOOL VALUE : 100 ORDER 1
SERIAL NUMBER : 300

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
	Oct/26/06	15:06:30	GAMMA 0.000	API-GR	0.00	[CPS]
	Oct/26/06	15:06:40	GAMMA 100.000	API-GR	254.00	[CPS]
	Oct/26/06	15:06:50	VOLTAGE 9.000	[V]	9.000	[CPS]
1	Aug/23/06	08:46:00	CURS 0.000	[UA]	0.000	[CPS]
2	Aug/23/06	08:46:41	CUR1 0.000	[UA]	333.00	[CPS]
3	Aug/23/06	08:47:21	CUR2 0.000	[UA]	666.00	[CPS]
4	Aug/23/06	08:47:01	CUR3 0.000	[UA]	999.00	[CPS]
5	Aug/23/06	08:47:01	CUR4 0.000	[UA]	1332.00	[CPS]
6	Aug/23/06	08:47:01	CUR5 0.000	[UA]	0.00	[CPS]
7	Aug/23/06	08:47:01	CUR1 0.000	[UA]	333.00	[CPS]
8	Aug/23/06	08:47:01	CUR2 0.000	[UA]	666.00	[CPS]
9	Aug/23/06	08:47:01	CUR3 0.000	[UA]	999.00	[CPS]
10	Aug/23/06	08:47:01	CUR4 0.000	[UA]	1332.00	[CPS]
11	Aug/23/06	08:47:01	CALIPER 10.000	[CM]	10.00	[CPS]
12	Aug/23/06	08:47:01	CALIPER2 10.000	[CM]	10.00	[CPS]

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GAMMA NEUTRON

RAV06-008C

COMPANY	CENTURY ENERGY
WELL	RAV06-008C
FIELD	
COUNTY	DONLEY
STATE	
LOCATION	NA
COORDINATES	NA
TOWNSHIP	NA
RANGE	NA
API NO.	NA
LONGITUDE	NA
LATITUDE	NA
SECTION	NA
ELEVATION	NA
DATUM	NA
OTHER SERVICES	GAMMA NEUTRON SONIC

DATE	10/23/06
DEPTH-DRILLER	297.00
BIT SIZE	12
CASING OD	8 5/8
CASING WT	24
CASING TYPE	STEEL
BOREHOLE FLUID	WATER
MUD-RES	NA
MUD-WT	NA
VISCOSITY	NA
RM@MEASURED TEMP	0.000@77F
RECORDED BY	B BERNSER
WITNESSED BY	
RUN NO.	1
	VERTICAL

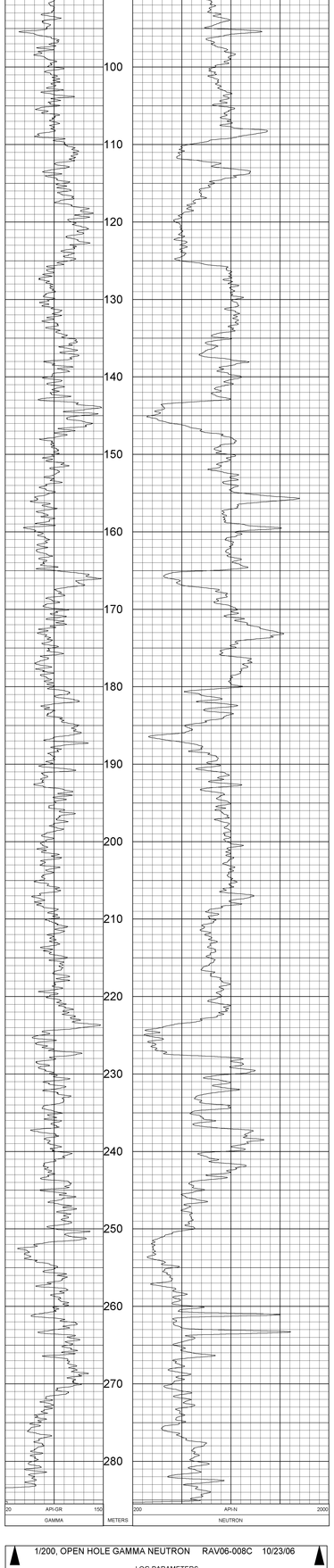
DEPTH DRILLED 297.00
LOG INTERVAL 0.00 - 297.00
CASING DEPTH 0.00
BOREHOLE CONDITIONS
DRILL MEASURED FROM GL
LOG MEASURED FROM GL
ELEVATION OF KB NA
ELEVATION OF DF NA
ELEVATION GL NA

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

1/200, OPEN HOLE GAMMA NEUTRON RAV06-008C 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL. : 17.150 ELECT. CUTOFF : 99999 BIT SIZE : 12
PRESENTATION NAME/DATE = 9057_GAMMA NEUTRON.0 07/12/2006 VERSION = 3.64EC



1/200, OPEN HOLE GAMMA NEUTRON RAV06-008C 10/23/06

LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177
MAGNETIC DECL. : 17.150 ELECT. CUTOFF : 99999 BIT SIZE : 12
PRESENTATION NAME/DATE = 9057_GAMMA NEUTRON.0 07/12/2006 VERSION = 3.64EC

TOOL CALIBRATION RAV06-008C 10/23/06 18:15
TOOL 9057A TM VERSION 1
SERIAL NUMBER 1074

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	May06,99	09:12:54	GAMMA	Default	[CPS]	Default	[CPS]
1	May06,99	09:12:54	GAMMA	Default	[CPS]	Default	[CPS]
2	Mar15,06	08:29:25	NEUTRON	Default	[CPS]	Default	[CPS]
2	Mar15,06	08:29:25	NEUTRON	271.000	[API-N]	150.00	[CPS]
3	Apr19,05	17:15:58	SP	0.000	[MV]	59995.00	[CPS]
3	Apr19,05	17:15:58	SP	0.000	[MV]	59995.00	[CPS]
4	Apr19,05	17:15:19	RES(16N)	0.000	[OHM.M]	3872.00	[CPS]
4	Apr19,05	17:15:19	RES(16N)	2000.000	[OHM.M]	103858.00	[CPS]
5	Apr19,05	17:15:27	RES(64N)	0.000	[OHM.M]	3952.00	[CPS]
5	Apr19,05	17:15:27	RES(64N)	2002.000	[OHM.M]	103797.00	[CPS]
6	Feb20,06	19:22:21	TEMP	14.610	[DEG F]	90500.00	[CPS]
6	Feb20,06	19:22:21	TEMP	36.280	[DEG F]	55705.00	[CPS]
7	Jul14,04	08:12:18	RES	180.000	[OHM]	19005.00	[CPS]
7	Jul14,04	08:12:18	RES	1045.000	[OHM]	61980.00	[CPS]
8	Feb20,03	13:58:05	POR(NEU)	100.000	[PERCENT]	157.00	[CPS]

Company:	Geotechnical Services
Well:	RAV06-0012C
Field:	Ravenswood
County/State:	Jackson, West Virginia
Elevation:	
Location:	
Other Services:	
Permanent Datum:	Ground Level
Log Measured From:	
Drilling Measured From:	
Date:	10/26/06
Run Number:	ONE
Depth Driller:	360.00
Depth Logger:	359.00
Bottom Log Interval:	358.00
Top Log Interval:	10.00
Casing Driller Size @ Depth:	8 5/8 @ 10.00
Casing Logger Size @ Depth:	8 5/8 @ 10.00
Bit Size:	7 7/8
Type Fluid in Hole:	AIR
Density:	N/A
Viscosity:	N/A
Ph:	N/A
Fluid Loss:	N/A
Source of Sample:	N/A
Rm @ Meas. Temp:	N/A
Rmf @ Meas. Temp:	N/A
Rmc @ Meas. Temp:	N/A
Source: Rmf / Rmc:	N/A / N/A
Rm @ BHT:	N/A
Time Since Circulation:	N/A
Time Since Stop:	N/A
Max. Recorded Temp:	N/A
Equipment Number:	5
Location:	N/A
Recorded By:	N/A
Witnessed By:	N/A

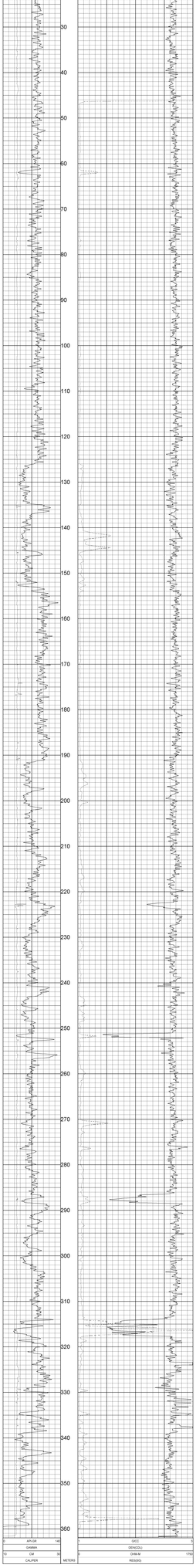
DENSITY
RAV06-0012C

PRODUCED BY GEOTECH SERVICES, LTD. CALGARY, ALBERTA, CANADA T2C 2E7 PHONE: (403) 279-8808 FAX: (403) 279-8809 E-MAIL: info@geotech.ca

1/200, DENSITY RAV06-0012C 10/26/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 17.15	ELECT. CUTOFF : 99999	BIT SIZE : 12.50	
PRESENTATION NAMECATE = :	B250_CDL_GA.0 : 09/26/2006	VERSION = 3.640C	



1/200, DENSITY RAV06-0012C 10/26/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 17.15	ELECT. CUTOFF : 99999	BIT SIZE : 12.50	
PRESENTATION NAMECATE = :	B250_CDL_GA.0 : 09/26/2006	VERSION = 3.640C	

TOOL CALIBRATION: RAV06-0012C 10/26/06 13:44
DENSITY: 2.65 NEUTRON: SANDSTONE
SERIAL NUMBER: 1108 DATE: 10-Oct-2014

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	Aug03,06	12:13:56	GAMMA	0.000	[API-GR]	0.00	[CPS]
2	Aug03,06	12:49:18	VOLTAGE	0.000	[MV]	4600.00	[CPS]
3	Aug03,06	12:49:58	VOLTAGE	1000.000	[MV]	6800.00	[CPS]
4	Aug03,06	12:50:38	VOLTAGE	1900.000	[MV]	8900.00	[CPS]
5	Aug03,06	16:15:33	CALIPER	20.000	[INCH]	61600.00	[CPS]
6	Aug03,06	16:16:13	CALIPER	10.000	[INCH]	39500.00	[CPS]
7	Oct03,06	09:52:19	DENSLDL	2.300	[G/CC]	4600.00	[CPS]
8	Sep17,06	02:13:51	DENSNG	1.000	[G/CC]	7600.00	[CPS]
9	Sep17,06	02:14:31	DENSNG	2.000	[G/CC]	12600.00	[CPS]
10	Aug02,06	13:34:11	CALIPER	7.000	[INCH]	56100.00	[CPS]
11	Aug02,06	13:34:11	CALIPER	11.000	[INCH]	39007.00	[CPS]
12	Aug02,06	12:55:35	CURRENT	100.000	[MA]	3600.00	[CPS]
13	Aug02,06	12:55:35	CURRENT	200.000	[MA]	3991.00	[CPS]
	Aug02,06	12:55:35	F	Default	[CPS]		

PLAN VIEW
COMPU-LOG DEVIATION

CLIENT: CHEVRONTX ENERGY
WELL: 0 NEW
FIELD: 0 NEW
RIG: 0 NEW
DATE OF LOG: 10/24/79
ORIGINAL DATA: 1979

MAG DECL: 17.2

SCALE: 1 0/IN
DEVIATION: 0.00 TO 0
AZIMUTH: 90.0
ESTIMATE: 70.0 N
0.00 N 0.00 E
* = BOTTOM OF HOLE

Schlumberger

Schlumberger

Mobil Oil Corporation

Mobil Oil Corporation

Mobil Oil Corporation

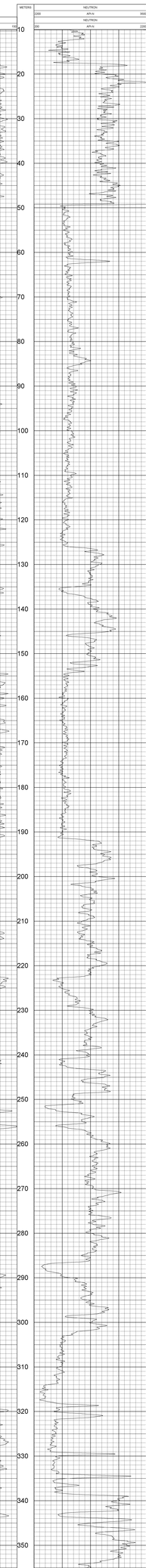
Company:	Schlumberger
Well:	SLIM CLAIMS-DEETRON EXPANDED RAV06-0012C
Field:	
County:	
State:	
Country:	
Other Services:	
Permanent Datum:	GROUND LEVEL
Log Measured From:	
Drilling Measured From:	
Elevation:	
Elev.: K.B.	
D.F.	
G.L.	

PRODUCED BY SCHLUMBERGER WELL SURVEYING CORPORATION, A DIVISION OF SCHLUMBERGER OILFIELD SERVICES

1/200, GAMMA NEUTRON RAV06-0012C 10/26/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 17.15	ELECT. CUTOFF : 99999	BIT SIZE : 12	
PRESENTATION NAMECAFE = 9067-GAM-NEUT-2	06/25/2006	VERSION = 3.64EC	



1/200, GAMMA NEUTRON RAV06-0012C 10/26/06

LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177	
MAGNETIC DECL. : 17.15	ELECT. CUTOFF : 99999	BIT SIZE : 12	
PRESENTATION NAMECAFE = 9067-GAM-NEUT-2	06/25/2006	VERSION = 3.64EC	

TOOL CALIBRATION: RAV06-0012C 10/26/06 12:50
SERIAL NUMBER: 9067-2
SERIAL NUMBER: 9067-2

	DATE	TIME	SENSOR	STANDARD		RESPONSE	
1	May08,06	08:12:54	GAMMA	Default	[CPS]	Default	[CPS]
1	May08,06	08:12:35	GAMMA	Default	[CPS]	Default	[CPS]
2	Mar17,06	09:06:06	NEUTRON	2171.000	[API-N]	2171.000	[API-N]
3	Mar17,06	09:06:06	NEUTRON	2171.000	[API-N]	2171.000	[API-N]
4	Apr18,05	17:15:58	BF	340.000	[MV]	25670.00	[CPS]
4	Apr18,05	17:15:58	RESISTIVITY	2000.000	[OHM-M]	19000.00	[CPS]
4	Apr18,05	17:15:58	RESISTIVITY	2000.000	[OHM-M]	19000.00	[CPS]
5	Apr18,05	17:15:27	RESISTIVITY	0.000	[OHM-M]	3852.00	[CPS]
5	Apr18,05	17:15:27	RESISTIVITY	0.000	[OHM-M]	3852.00	[CPS]
6	Feb03,06	19:22:21	TEMP	74.000	[DEG F]	60500.00	[CPS]
7	Feb03,06	19:22:21	TEMP	36.200	[DEG F]	55705.00	[CPS]
8	Jul14,04	09:12:18	RES	1545.000	[OHM]	81990.00	[CPS]
9	Jul14,04	09:12:18	RES	1545.000	[OHM]	81990.00	[CPS]
10	Feb05,03	13:56:05	PORNRELI	100.000	[PERCENT]	157.00	[CPS]

Baker Hughes INTEQ

RAVEN-001C

Company	Baker Hughes INTEQ
Well	RAVEN-001C
Field	
Location	
Date	10/26/98
Time	
Depth Reference	
Elevation	
Operator	
Witnessed By	
Recorded By	
Logging Engineer	
Logging Company	
Logging Equipment	
Bit Size	
Mud Type	
Mud Weight	
Mud Viscosity	
Mud Resistivity	
Mud Temperature	
Max Recorded Temp	
Max Circ Time	
Max Deviation	
Max Dogleg	
Max Tension	
Max Speed	
Max Pressure	
Max Acceleration	
Max Shock	
Max Torque	
Max Bending Moment	
Max Axial Force	
Max Radial Force	
Max Temperature