

**Century**  
GEOPHYSICAL CORP.

**GAMMA - CALIPER - RESISTIVITY  
COMPENSATED DENSITY**  
R001

century-geo.com

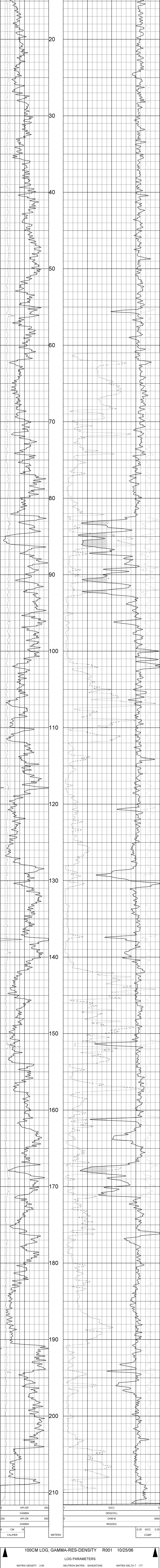
COMPANY	ANGLO COAL	OTHER SERVICES	NEUTRON
WELL	R001	DIP	NA
COUNTY	REBURN	STATE	BRITISH COLUMBIA
FIELD	TUMBLER RIDGE	SECTION	NA
LOCATION	NA	TOWNSHIP	NA
RANGE	NA	RANGE	NA
SECTION	NA	SECTION	NA
UNIQUE WELL ID	NA	UNIQUE WELL ID	NA
PERMANENT DATUM	GL	ELEVATION KN	NA
LOG MEASURED FROM	GL	ELEVATION DN	NA
ORIG. MEASURED FROM	GL	ELEVATION GS	NA
DATE	10/25/2006		
DEPTH DRILLER	213.98		
BIT SIZE	9.84		
LOG TOP	7.32		
LOG BOTTOM	211.66		
CASING OD	11.43		
CASING TYPE	3.57		
BOREHOLE FLUID	WATER		
RTM TEMPERATURE	NA		
MUD RES	1.0		
MUD WEIGHT	NA		
WITNESSED BY	J. SINKOVICH		
REMARKS 1			
REMARKS 2			

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

100CM LOG, GAMMA-RES-DENSITY R001 10/25/06

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA : 177  
MAGNETIC DECL : 21      ELECT. CUTOFF : 10000      BIT SIZE : 9.84  
PRESENTATION NAME/DATE = 9239C.0 10/25/2006      VERSION = 3.64EC



100CM LOG, GAMMA-RES-DENSITY R001 10/25/06

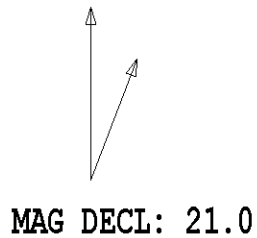
**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA : 177  
MAGNETIC DECL : 21      ELECT. CUTOFF : 10000      BIT SIZE : 9.84  
PRESENTATION NAME/DATE = 9239C.0 10/25/2006      VERSION = 3.64EC

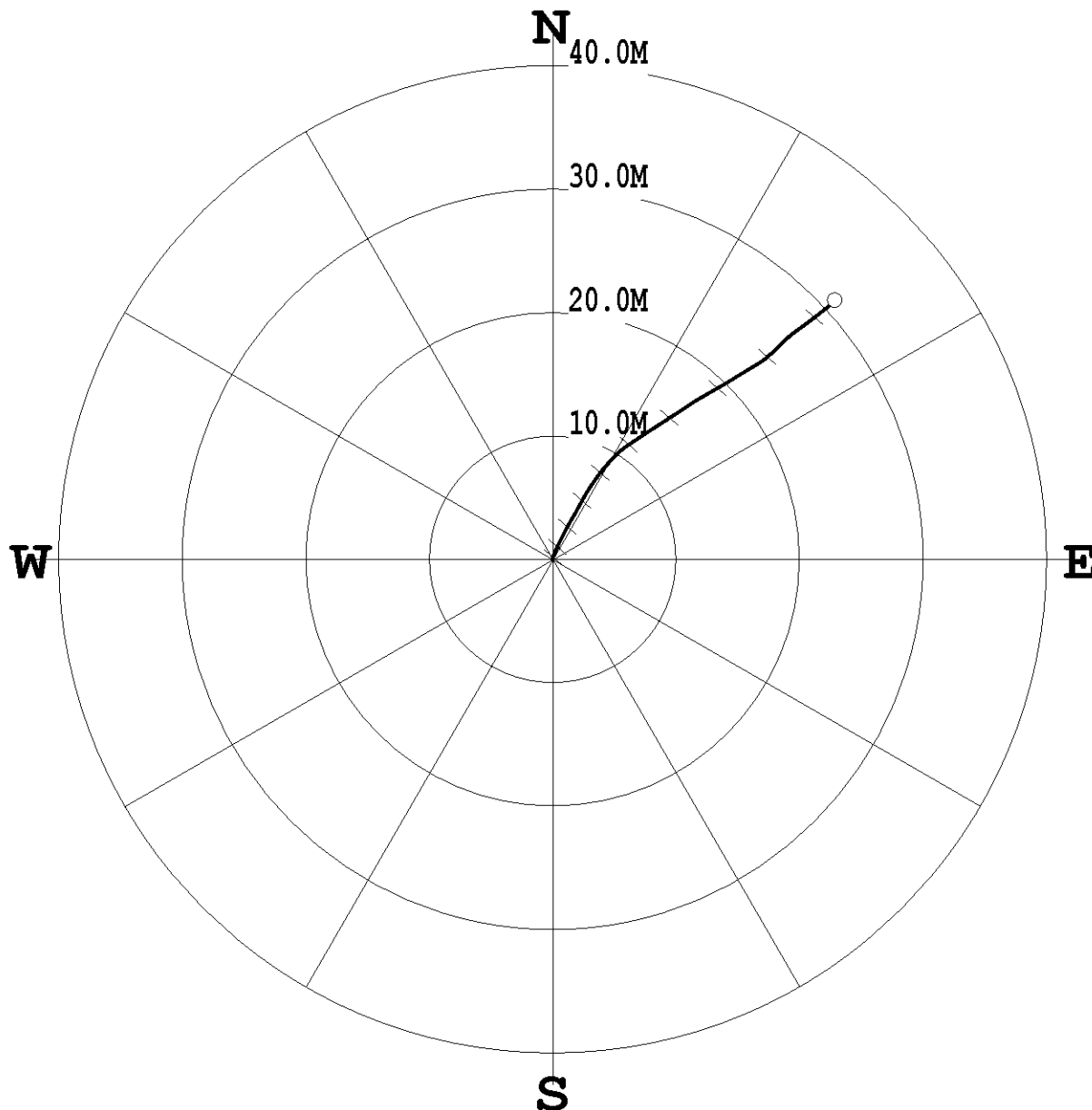
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Oct13.06 18:54:55	GAMMA	Default [CPS]	286.00 [CPS]
2	Oct13.06 18:54:55	GAMMA	283.000 [API-GR ]	286.00 [CPS]
3	Oct14.06 11:07:04	VOLTAGE	31.850 [MV ]	5358.00 [CPS]
4	Oct14.06 11:07:04	VOLTAGE	572.000 [MV ]	78881.00 [CPS]
5	Oct13.06 18:33:01	CALIPER	20.320 [INCH ]	433775.00 [CPS]
6	Oct13.06 18:33:01	CALIPER	2.540 [INCH ]	25725.00 [CPS]
7	Oct23.06 15:56:31	DEN(LS)	1.000 [G/CC ]	12504.00 [CPS]
8	Oct23.06 15:56:31	DEN(LS)	2.383 [G/CC ]	1090.00 [CPS]
9	Oct17.06 14:51:34	DEN(SS)	1.000 [G/CC ]	20687.00 [CPS]
10	Oct25.06 17:52:38	DEN(SS)	2.383 [G/CC ]	8600.00 [CPS]
11	Oct13.06 20:38:56	CALIPERL	10.160 [INCH ]	128735.00 [CPS]
12	Oct13.06 20:38:56	CALIPERL	25.400 [INCH ]	304375.00 [CPS]
13	Oct14.06 11:07:25	CURRENT	98.600 [UA ]	103640.00 [CPS]
14	Oct14.06 11:07:25	CURRENT	281.000 [UA ]	29568.00 [CPS]
15	Sep26.06 12:05:58	X	Default [CPS]	

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ANGLO COAL  
LOCATION: REESOR  
HOLE ID: R001  
DATE OF LOG: 10/25/06  
PROBE: 9055A 237

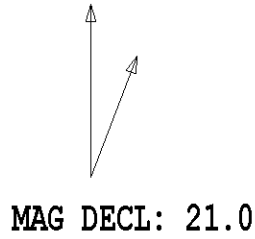


SCALE: 5 M/CM  
TRUE DEPTH: 208.51 M  
AZIMUTH: 47.4  
DISTANCE: 31.0 M  
+ = 20 M INCR  
○ = BOTTOM OF HOLE

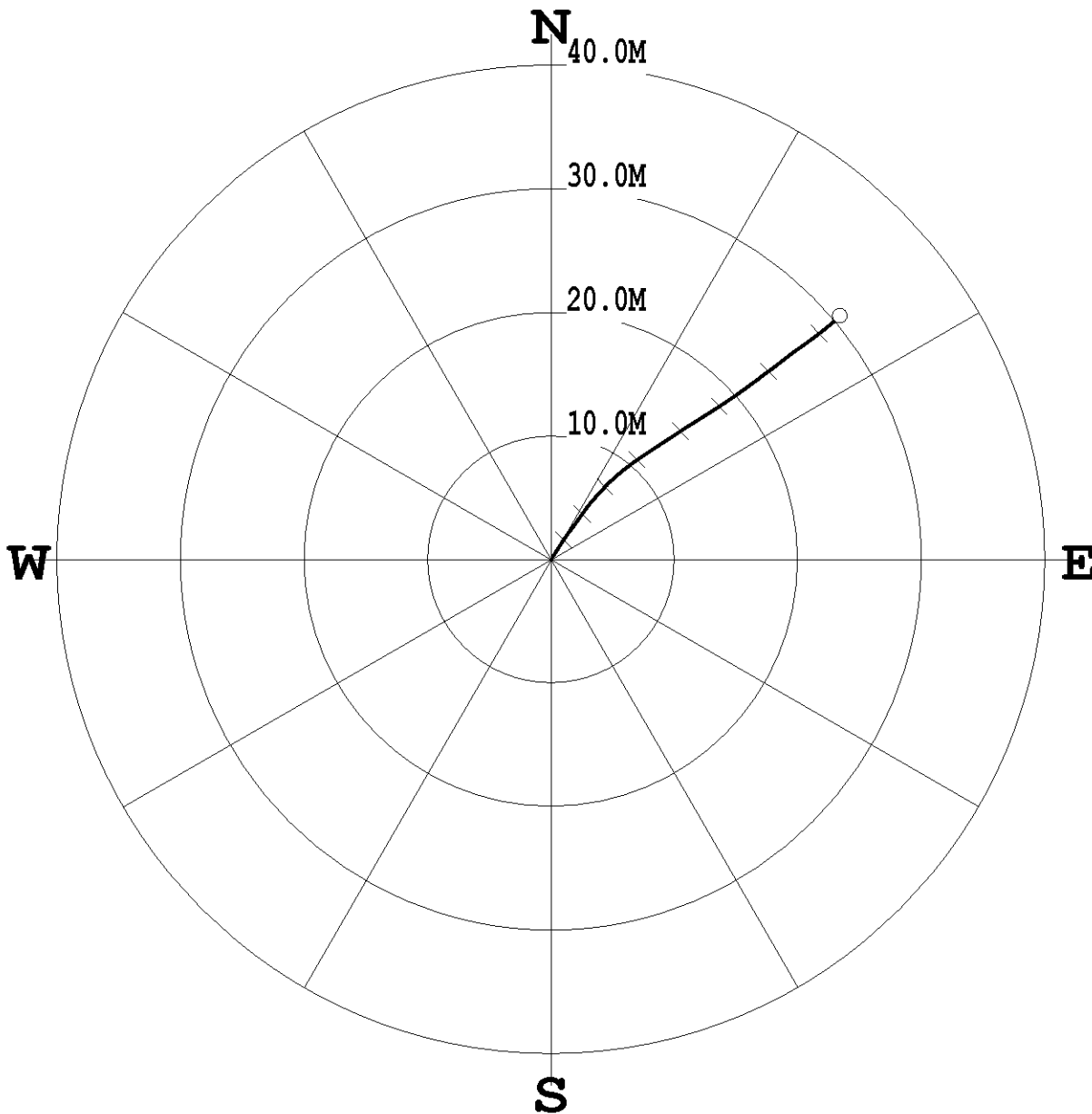


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ANGLO COAL  
LOCATION: REESOR  
HOLE ID: R001  
DATE OF LOG: 10/25/06  
PROBE: 9411A 390



SCALE: 5 M/CM  
TRUE DEPTH: 208.56 M  
AZIMUTH: 49.9  
DISTANCE: 30.6 M  
+ = 20 M INCR  
○ = BOTTOM OF HOLE



**Century**  
GEOPHYSICAL CORP.

Century-geo.com

**DIPMETER**  
R001

COMPANY: ANGLO COAL  
WELL: R001  
FIELD: REESOR  
COUNTY: JUMBER RIDGE  
STATE: BRITISH COLUMBIA

OTHER SERVICES:  
NEUTRON  
DENSITY  
NA

LOCATION: NA  
SECTION: NA  
TOWNSHIP: NA  
RANGE: NA  
APRNO: NA  
LINE/OIL WELL ID: NA

PERMANENT DATUM: GCL  
LOG MEASURED FROM: GL  
DPL MEASURED FROM: GL

DATE: 10/25/06  
DEPT/ DRILLER: 21336  
BIT SIZE: 9.84  
LOG TOP: 41.46  
LOG BOTTOM: 211.00  
CASING OD: 11.43  
CASING BOTTOM: 4.57

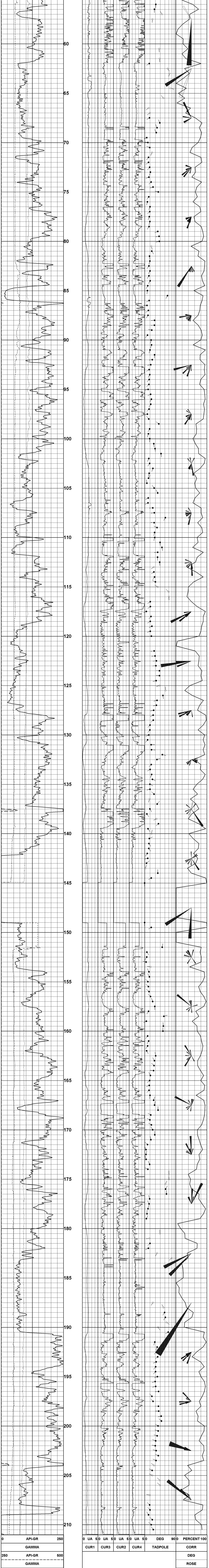
CASING TYPE: SURFACE  
BOREHOLE FLUID: WATER  
RM TEMPERATURE: NA  
MUD RES: NA  
MUD WEIGHT: 1.0  
RECORDED BY: J. SIMONICH  
REMARKS 1: HUNG PROBE @ 150M. CLOSED CALIPERS  
REMARKS 2:

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS.

100CM LOG, DIPMETER R001 10/25/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 21 ELECT. CUTOFF: 10000 BIT SIZE: 9.84  
PRESENTATION NAME/DATE = 9411print.j\_0 08/24/2006 VERSION = 3.64EC



100CM LOG, DIPMETER R001 10/25/06

LOG PARAMETERS

MATRIX DENSITY: 2.65 NEUTRON MATRIX: SANDSTONE MATRIX DELTA T: 177  
MAGNETIC DECL: 21 ELECT. CUTOFF: 10000 BIT SIZE: 9.84  
PRESENTATION NAME/DATE = 9411print.j\_0 08/24/2006 VERSION = 3.64EC

TOOL CALIBRATION R001 10/25/06 18:45  
TOOL SERIAL NUMBER 390

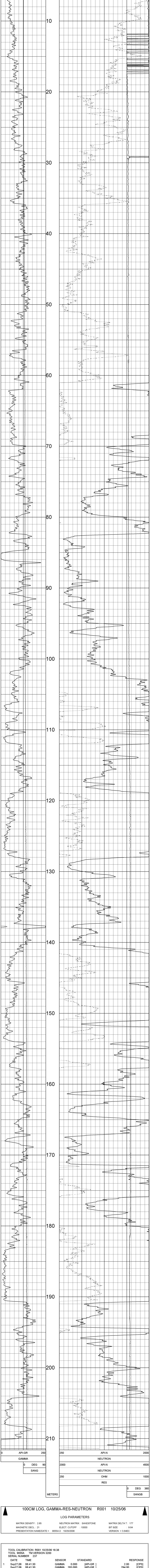
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Jul27,05 10:45:12	GAMMA	Default	Default
2	Jul27,05 10:45:12	VOLTAG	104.800 [MV ]	720.00 [CPS]
3	Aug02,05 09:21:29	VOLTAG	350.700 [MV ]	2360.00 [CPS]
4	Aug02,05 09:27:25	CUR1	4.213 [UA ]	7855.00 [CPS]
5	Aug02,05 10:37:25	CUR1	0.000 [UA ]	80.00 [CPS]
6	Aug02,05 09:27:32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

		<b>GAMMA - NEUTRON</b> R001	
COMPANY: century-geo.com WELL: R001 COUNTY: BRITISH COLUMBIA STATE: BRITISH COLUMBIA LOCATION: NA SECTION: NA TOWNSHIP: NA RANGE: NA UNLOC WELL ID: NA	FIELD: R001 REGION: BRITISH COLUMBIA STATE: BRITISH COLUMBIA LOCATION: NA SECTION: NA TOWNSHIP: NA RANGE: NA UNLOC WELL ID: NA	OTHER SERVICES: SENSITIVITY: NA DR: NA	
LOG MEASURED FROM: GL DEPTH DRILLER: 213.96 DATE: 10/25/06 LOG TOP: 1.32 LOG BOTTOM: 211.96 CASING OD: 114.3 CASING BOTTOM: 114.3	PERMANENT DATUM: SL ELEVATION TO NA: NA LOG MEASURED FROM: GL DEPTH DRILLER: 213.96 DATE: 10/25/06 LOG TOP: 1.32 LOG BOTTOM: 211.96 CASING OD: 114.3 CASING BOTTOM: 114.3	CHASING TYPE: 4.57 ROBBLE FLUID: WATER ROBBLE TEMPERATURE: NA MOD RES: NA MOD WEIGHT: 10 WITNESSED BY: NA RECORDED BY: J. SIMMONS REMARKS 1: REMARKS 2:	

**100CM LOG, GAMMA-RES-NEUTRON R001 10/25/06**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21      ELECT. CUTOFF : 10000      BIT SIZE : 9.84  
 PRESENTATION NAME/DATE = 9055A.0 10/25/2006      VERSION = 3.64EC



**100CM LOG, GAMMA-RES-NEUTRON R001 10/25/06**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21      ELECT. CUTOFF : 10000      BIT SIZE : 9.84  
 PRESENTATION NAME/DATE = 9055A.0 10/25/2006      VERSION = 3.64EC

TOOL CALIBRATION R001 10/25/06 16:38  
 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]
1	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 ]	9915.00 [CPS]
4	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]
4	Sep27.06 08:36:00	SP	400.000 [MV ]	2935.00 [CPS]
5	Oct10.06 12:37:04	NEUTRO1	Default [CPS]	Default [CPS]
5	Oct10.06 12:37:04	NEUTRO1	Default [CPS]	Default [CPS]
6	Feb25.99 00:19:39	TEMP	Default [CPS]	Default [CPS]
6	Feb25.99 00:19:39	TEMP	Default [CPS]	Default [CPS]



**COMPENSATED DENSITY  
GAMMA - CALIPER - RES.**

**R002**

COMPANY: ANGLO AMERICAN  
WELL: R002  
FIELD: TUMBLER RIDGE  
MUNICIPALITY: BRIDGE COLUMBIA

PROVINCE: FREEBORO  
LOCATION: N/A  
SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
APR NO.: N/A  
UNIQUE WELL ID: N/A

PERMANENT DATUM: G.L.  
LOG MEASURED FROM: G.L.  
DBL MEASURED FROM: G.L.

ELEVATION TO: N/A  
ELEVATION OF: N/A  
ELEVATION OF: N/A

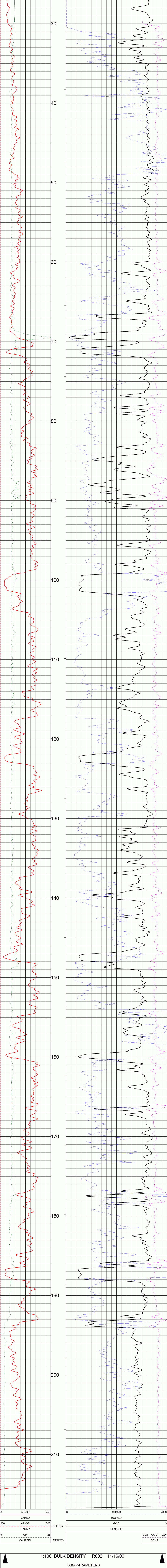
DATE: 11/16/06  
DEPTH: 246.89  
BIT SIZE: 9 1/4  
LOG TOP: 20.23  
LOG BOTTOM: 216.55

CASING TOP: 30.46  
CASING OD: N/A  
CASING BOTTOM: N/A  
CASING TYPE: STEEL  
BOREHOLE FLUID: WATER  
RIM TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: N/A  
WITNESSED BY: N/A  
RECORDED BY: N/A  
CHECKED BY: N/A  
REMARKS 1: N/A  
REMARKS 2: N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

**1:100 BULK DENSITY R002 11/16/06**

**LOG PARAMETERS**  
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6 ELECT. CUTOFF : 99999 BIT SIZE : 9.14  
PRESENTATION NAME/DATE = 9239C1.0 11/16/2006



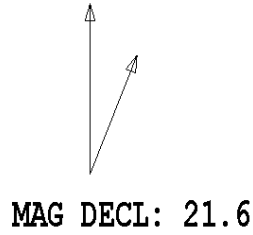
**1:100 BULK DENSITY R002 11/16/06**

**LOG PARAMETERS**  
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6 ELECT. CUTOFF : 99999 BIT SIZE : 9.14  
PRESENTATION NAME/DATE = 9239C1.0 11/16/2006

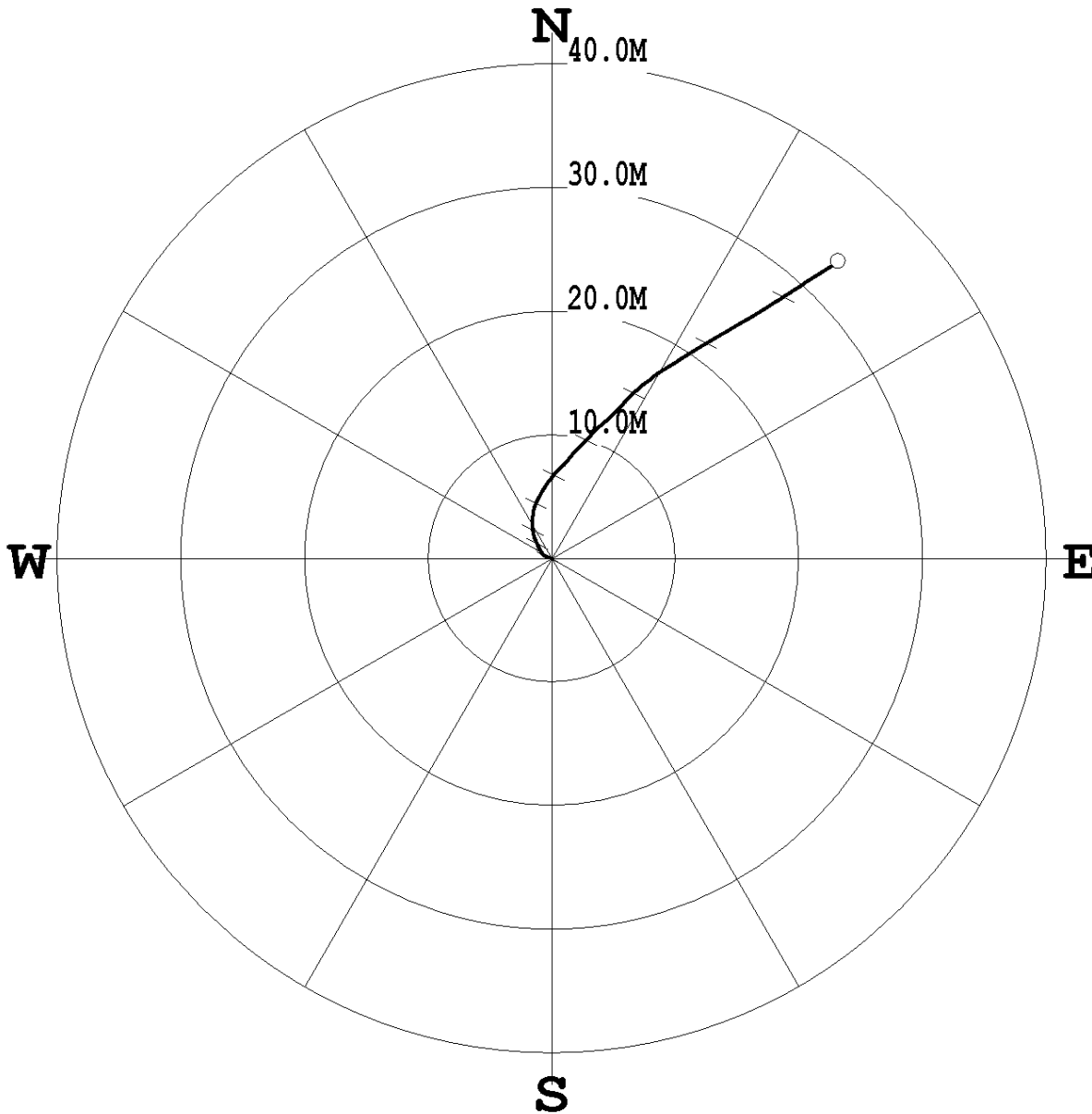
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	Nov13.06	GAMMA	283.000 [CPS]	286.00 [CPS]
2	Nov13.06	VOLTAGE	31.850 [MV]	5358.00 [CPS]
3	Nov13.06	VOLTAGE	572.000 [MV]	78881.00 [CPS]
4	Nov13.06	CALIPER	2.540 [CM]	25725.00 [CPS]
5	Nov13.06	CALIPER	20.320 [CM]	43375.00 [CPS]
6	Nov13.06	DEN(LS)	1.000 [G/CC]	6650.00 [CPS]
7	Nov13.06	DEN(SS)	2.383 [G/CC]	575.00 [CPS]
8	Nov13.06	DEN(SS)	1.000 [G/CC]	11200.00 [CPS]
9	Nov13.06	DEN(SS)	2.383 [G/CC]	4725.00 [CPS]
10	Nov13.06	CALIPER	10.160 [CM]	128735.00 [CPS]
11	Nov13.06	CALIPERL	25.400 [CM]	304375.00 [CPS]
12	Nov13.06	CURRENT	99.600 [UA]	10840.00 [CPS]
13	Nov13.06	CURRENT	291.000 [UA]	28568.00 [CPS]
14	Nov13.06	F	Default [CPS]	

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ANGLO AMERICAN  
LOCATION: N/A  
HOLE ID: R002  
DATE OF LOG: 11/16/06  
PROBE: 9057A 1067



SCALE: 5 M/CM  
TRUE DEPTH: 234.04 M  
AZIMUTH: 43.9  
DISTANCE: 33.4 M  
+ = 20 M INCR  
○ = BOTTOM OF HOLE



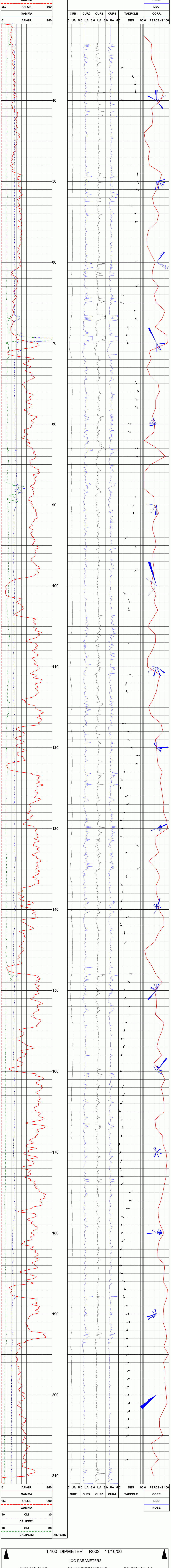
1:100 DIPMETER R002 11/16/06

LOG PARAMETERS

MATRIX DENSITY : 2.65  
MAGNETIC DECL : 21.600  
PRESENTATION NAME/DATE = dipc1-100a.0 11/08/2006

NEUTRON MATRIX : SANDSTONE  
ELECT. CUTOFF : 99999  
BIT SIZE : 9.144

MATRIX DELTA T : 177



1:100 DIPMETER R002 11/16/06

LOG PARAMETERS

MATRIX DENSITY : 2.65  
MAGNETIC DECL : 21.600  
PRESENTATION NAME/DATE = dipc1-100a.0 11/08/2006

NEUTRON MATRIX : SANDSTONE  
ELECT. CUTOFF : 99999  
BIT SIZE : 9.144

MATRIX DELTA T : 177

TOOL CALIBRATION R002 11/16/06 11:40  
TOOL 9411A TM VERSION 1  
SERIAL NUMBER 390

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



**century**  
GEOPHYSICAL CORP.

**GAMMA - NEUTRON**

**R002**

century-geo.com

COMPANY: ANGELO AMERICAN  
WELL: R002  
FIELD: N/A  
MUNICIPALITY: TUMBER RIDGE  
PROVINCE: BRITISH COLUMBIA

OTHER SERVICES:  
RESISTIVITY  
SPECTRO  
N/A

LOCATION: RESOR  
SECTION: N/A  
FORMATION: N/A  
NAME: N/A  
HAND: N/A  
APNO: N/A

UNIQUE WELL ID: N/A  
PERMANENT DATUM: G1  
LOG MEASURED FROM: G1  
ELEVATION 83 N/A  
ELEVATION OF N/A  
ELEVATION G1 N/A

DATE: 11/18/06  
DEPTH ORTLER: 248.89  
LOG MEASURED FROM: G1

LOG TOP: 9.144  
LOG BOTTOM: 239.18  
CHANGING CO: N/A  
CHANGING OD: 239.18  
CHANGING BOTTOM: 20.48

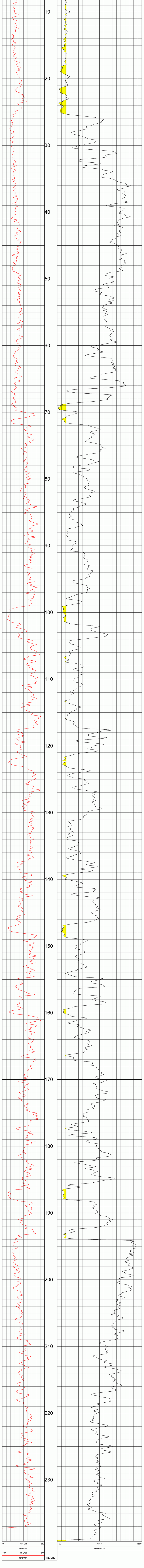
CHANGING TYPE: STEEL  
BORING FLUID: WATER  
NMI TEMPERATURE: N/A  
NMI TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: N/A  
WITNESSED BY: RIECK  
RECORDED BY: N/A  
REMARKS 1: N/A  
REMARKS 2: N/A

ALL SERVICES PROVIDED SUBJECT TO STANDARD TERMS AND CONDITIONS

**1:100 NEUTRON R002 11/16/06**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6      ELECT. CUTOFF : 99999      BIT SIZE : 9.144  
PRESENTATION NAME/DATE = 9057A.0 11/16/2006



**1:100 NEUTRON R002 11/16/06**

**LOG PARAMETERS**

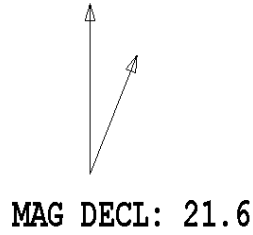
MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6      ELECT. CUTOFF : 99999      BIT SIZE : 9.144  
PRESENTATION NAME/DATE = 9057A.0 11/16/2006

TOOL CALIBRATION R002 11/16/06 09:32  
TOOL: 9057A TM VERSION 1  
SERIAL NUMBER 1067

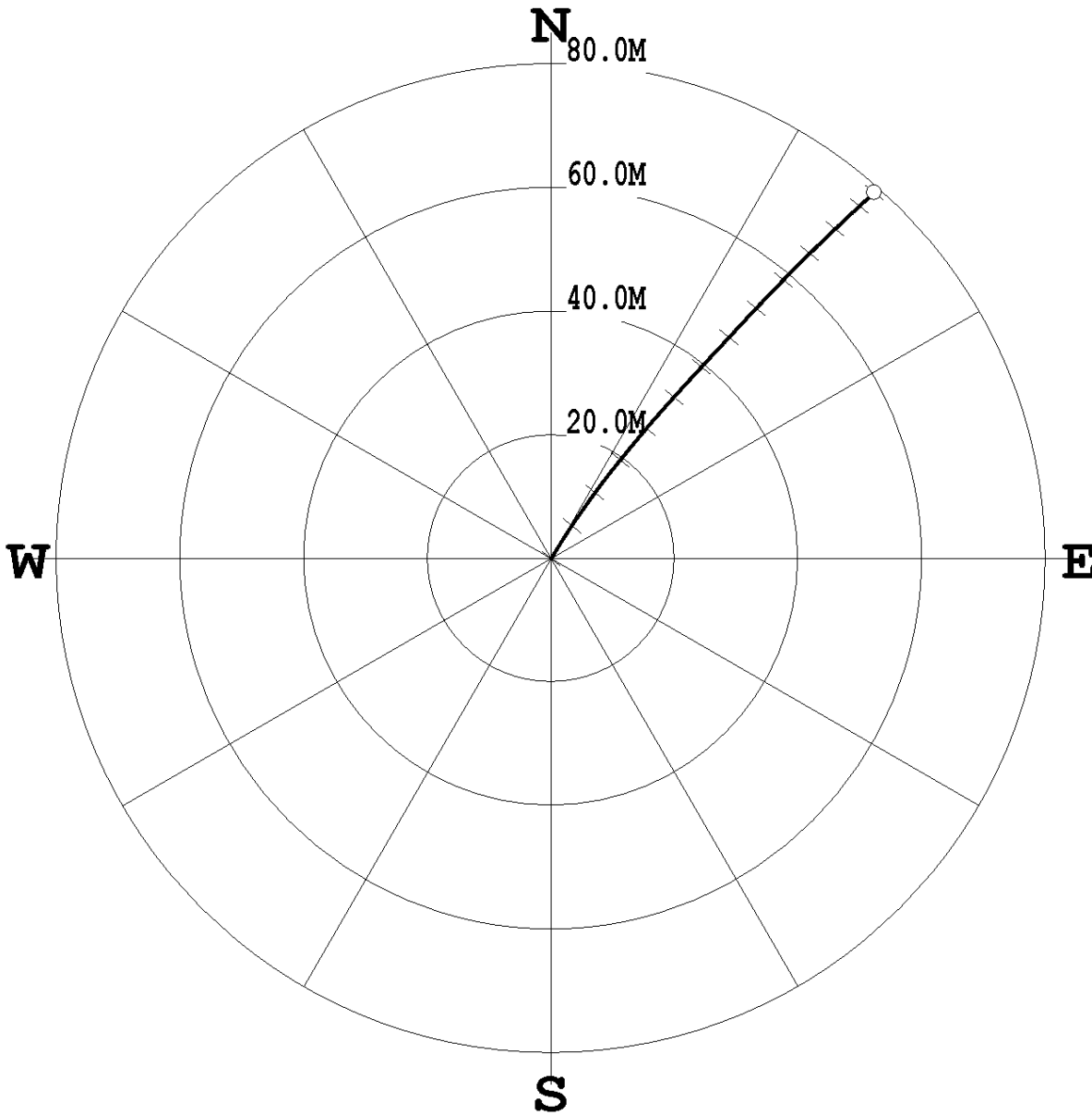
SENSOR	STANDARD	DATE	RESPONSE
1	GAMMA 0.000 [API-GR ]	May22,06 08:03:18	1.00 [CPS]
2	GAMMA 325.000 [API-GR ]	May22,06 08:03:18	325.00 [CPS]
3	NEUTRON Default [CPS]	Oct24,05 14:50:54	Default [CPS]
4	NEUTRON 152.000 [API-N ]	Oct24,05 14:50:54	167.00 [CPS]
5	SP Default [CPS]	Dec01,05 14:21:19	Default [CPS]
6	RES(16N) Default [CPS]	Dec01,05 14:21:19	Default [CPS]
7	RES(64N) Default [CPS]	Dec01,05 14:54:52	Default [CPS]
8	RES(16N) Default [CPS]	Dec01,05 14:54:52	Default [CPS]
9	RES(64N) Default [CPS]	Dec01,05 14:55:00	Default [CPS]
10	TEMP Default [CPS]	Dec01,05 14:55:07	Default [CPS]
11	TEMP Default [CPS]	Dec01,05 14:55:07	Default [CPS]
12	RES Default [CPS]	Dec01,05 14:55:17	Default [CPS]
13	RES Default [CPS]	Dec01,05 14:55:17	Default [CPS]
14	POR(NEU) 100.000 [PERCENT]	Apr11,02 17:42:07	178.00 [CPS]

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ANGLO AMERICAN  
LOCATION: N/A  
HOLE ID: R003  
DATE OF LOG: 11/08/06  
PROBE: 9411A 390



SCALE: 10 M/CM  
TRUE DEPTH: 136.15 M  
AZIMUTH: 41.5  
DISTANCE: 78.9 M  
+ = 10 M INCR  
○ = BOTTOM OF HOLE



**DIPMETER**

R003

COMPANY	ANGLO AMERICAN	OTHER SERVICES:	
WELL	R003	NEUTRON	
FIELD	N/A	DENSITY	N/A
MUNICIPALITY	BRITISH COLUMBIA		

PROVINCE	BRITISH COLUMBIA
LOCATION	RESSOR
SECTION	N/A
TOWNSHIP	N/A
RANGE	N/A
RANGE	N/A
APRNO.	N/A
UNIQUE WELL ID	N/A

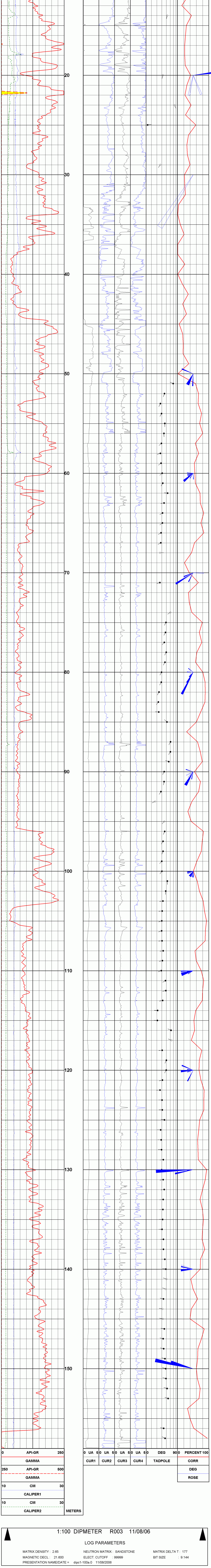
PERMANENT DATUM	S.L.	ELEVATION M3 N/A
LOG MEASURED FROM S.L.		ELEVATION OF N/A
DEL MEASURED FROM S.L.		ELEVATION Q1 N/A

DATE	11/08/06
DEPTH DRILLER	178.8
BIT SIZE	5.144
LOG TOP	:10.00
LOG BOTTOM	:158.00

CASING BOTTOM	:10.16
CASING TYPE	STEEL
BOREHOLE FLUID	WATER
BOREHOLE TEMPERATURE	N/A
FLUID TEMPERATURE	N/A
MUD RES	N/A
MUD WEIGHT	N/A
WITNESSED BY	R HECK
RECORDED BY	JANGLE HOLE
REMARKS 1	N/A
REMARKS 2	N/A

1:100 DIPMETER R003 11/08/06  
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.600	ELECT. CUTOFF : 99999	BIT SIZE : 9.144
PRESENTATION NAME/DATE = dipc1-100a.0 11/08/2006		



1:100 DIPMETER R003 11/08/06  
LOG PARAMETERS

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.600	ELECT. CUTOFF : 99999	BIT SIZE : 9.144
PRESENTATION NAME/DATE = dipc1-100a.0 11/08/2006		

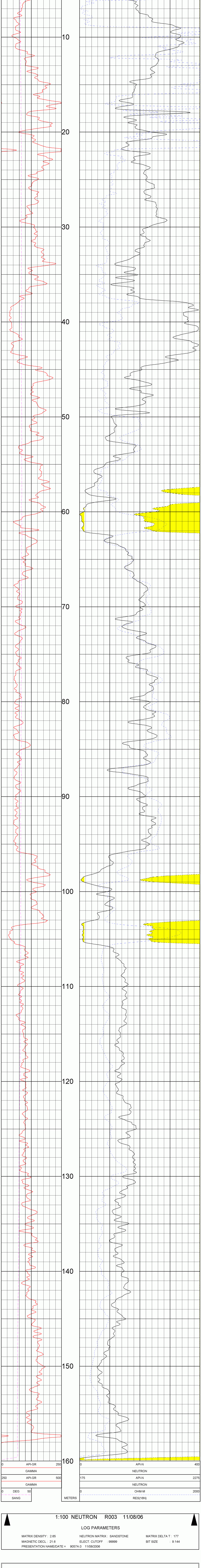
TOOL CALIBRATION R003 11/08/06 14:07			
TOOL 9411A TM VERSION 1		SERIAL NUMBER 390	
DATE	TIME	SENSOR	STANDARD
1	Jul27,05 10:45:12	GAMMA	Default [CPS]
1	Jul27,05 10:45:12	GAMMA	Default [CPS]
2	Aug02,05 09:21:29	VOLTAG	720.00 [CPS]
2	Aug02,05 09:21:29	VOLTAG	2360.00 [CPS]
3	Aug02,05 10:37:25	CUR1	4.213 [UA ]
3	Aug02,05 10:37:25	CUR1	7855.00 [CPS]
4	Aug02,05 09:27:32	CUR2	0.000 [UA ]
4	Aug02,05 09:27:32	CUR2	80.00 [CPS]
5	Aug02,05 09:24:02	CUR3	4.177 [UA ]
5	Aug02,05 09:24:02	CUR3	7910.00 [CPS]
6	Aug02,05 09:26:09	CUR4	0.000 [UA ]
6	Aug02,05 09:26:09	CUR4	105.00 [CPS]
7	Feb18,06 10:59:53	CALIPER	15.240 [INCH ]
7	Feb18,06 10:59:53	CALIPER	7900.00 [CPS]
		CALIPER	140.00 [CPS]
		CALIPER	7860.00 [CPS]
		CALIPER	180.00 [CPS]
		CALIPER	9145.00 [CPS]
		CALIPER	2208.00 [CPS]

COMPANY	ANGLO AMERICAN	OTHER SERVICES	
WELL	R003	DENSITY	
FIELD	N/A	DEPTH	
MUNICIPALITY	TUMBLER RIDGE	DIP/SLATE	N/A
PROVINCE	BRITISH COLUMBIA		
LOCATION	PRESSOR		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
RPT. NO.	N/A		
LINE/WEI.ELL ID.	N/A		
PERMANENT DATUM	G.S.L.	ELEVATION AB N/A	
LOG MEASURED FROM G.L.		ELEVATION OF N/A	
DPL MEASURED FROM G.L.		ELEVATION OF N/A	
DATE	11/08/06		
DEPTH DRILLER	1768		
BIT SIZE	9.144		
LOG TOP	0.18		
LOG BOTTOM	159.94		
CASING OD			
CASING BOTTOM	10.16		
CASING TYPE	STEEL		
BOREHOLE FLUID	WATER		
RM TEMPERATURE	N/A		
MUD RES	N/A		
MUD WEIGHT	N/A		
WITNESSED BY	F.HECK		
RECORDED BY	J.ANGLEHOLE		
REMARKS 1	N/A		
REMARKS 2	N/A		

**1:100 NEUTRON R003 11/08/06**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.6	ELECT. CUTOFF : 99999	BIT SIZE : 9.144
PRESENTATION NAME/DATE = 9057A.0	11/08/2006	



**1:100 NEUTRON R003 11/08/06**

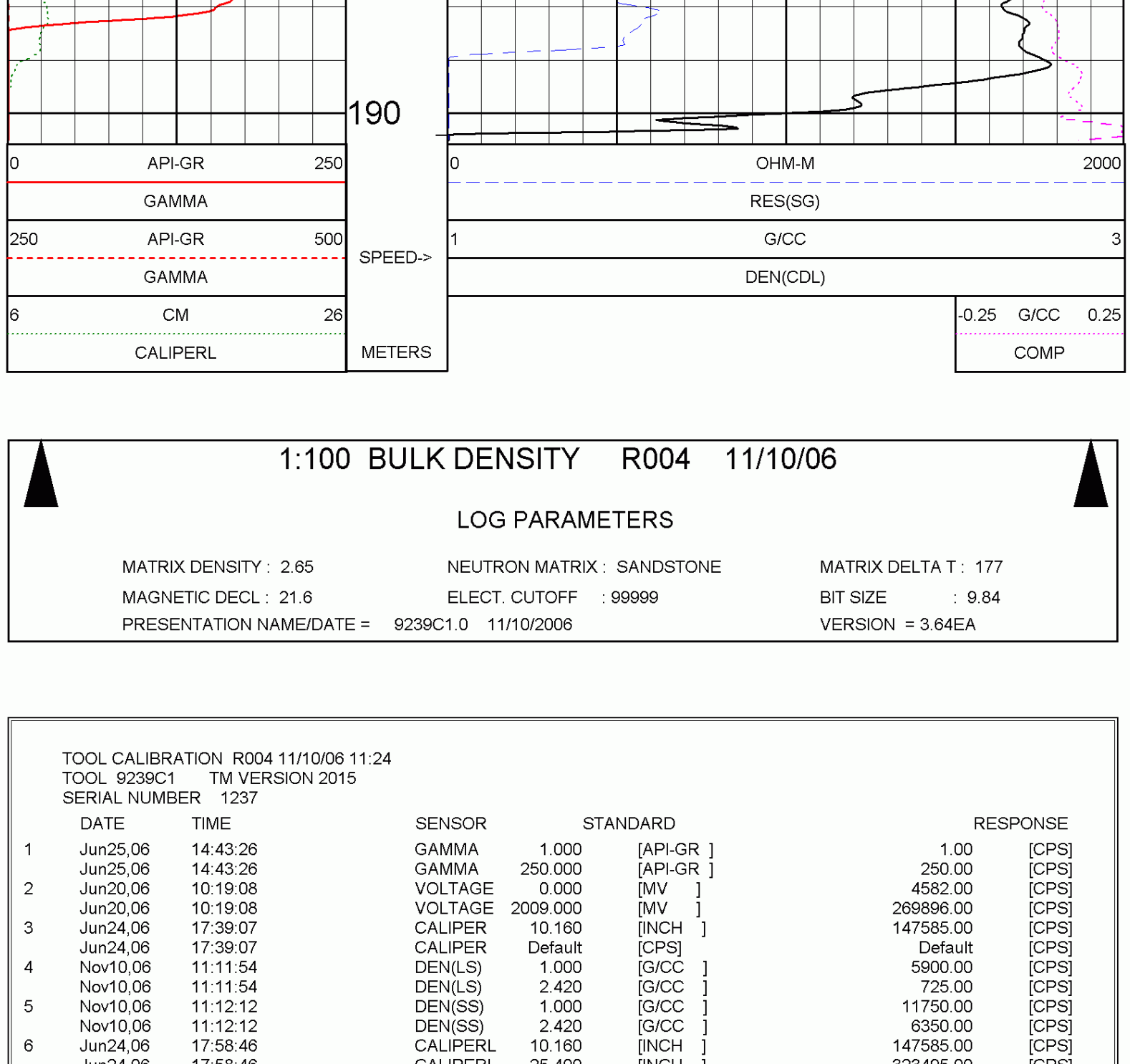
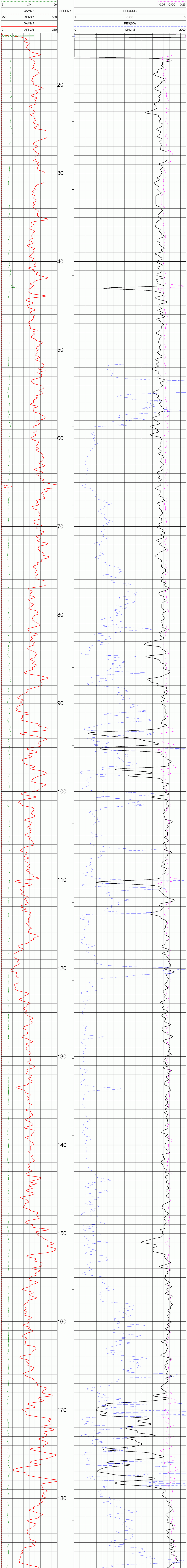
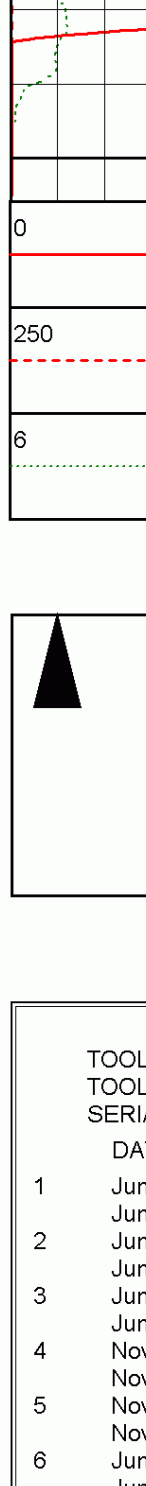
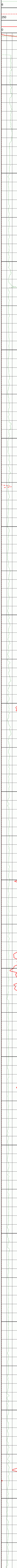
**LOG PARAMETERS**

MATRIX DENSITY : 2.65	NEUTRON MATRIX : SANDSTONE	MATRIX DELTA T : 177
MAGNETIC DECL : 21.6	ELECT. CUTOFF : 99999	BIT SIZE : 9.144
PRESENTATION NAME/DATE = 9057A.0	11/08/2006	

**TOOL CALIBRATION R003 11/08/06 12:50**

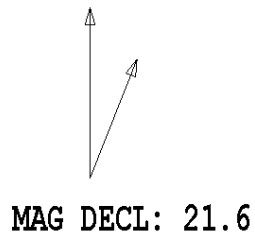
TOOL 9057A TM VERSION 1  
SERIAL NUMBER 1067

DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22,06 08:03:18	GAMMA	0.000 [API-GR ]	1.00 [CPS]
2	May22,06 08:03:18	GAMMA	325.000 [API-GR ]	325.00 [CPS]
3	Oct24,05 14:50:54	NEUTRON	Default [CPS]	Default [CPS]
4	Dec01,05 14:21:19	NEUTRON	152.000 [API-N ]	167.00 [CPS]
5	Dec01,05 14:21:19	SP	Default [CPS]	Default [CPS]
6	Dec01,05 14:54:52	RES(16N)	Default [CPS]	Default [CPS]
7	Dec01,05 14:54:52	RES(16N)	Default [CPS]	Default [CPS]
8	Dec01,05 14:55:00	RES(64N)	Default [CPS]	Default [CPS]
9	Dec01,05 14:55:00	RES(64N)	Default [CPS]	Default [CPS]
10	Dec01,05 14:55:07	TEMP	Default [CPS]	Default [CPS]
11	Dec01,05 14:55:07	TEMP	Default [CPS]	Default [CPS]
12	Dec01,05 14:55:17	RES	Default [CPS]	Default [CPS]
13	Dec01,05 14:55:17	RES	Default [CPS]	Default [CPS]
14	Apr11,02 17:42:07	POR(NEU)	100.000 [PERCENT ]	178.00 [CPS]

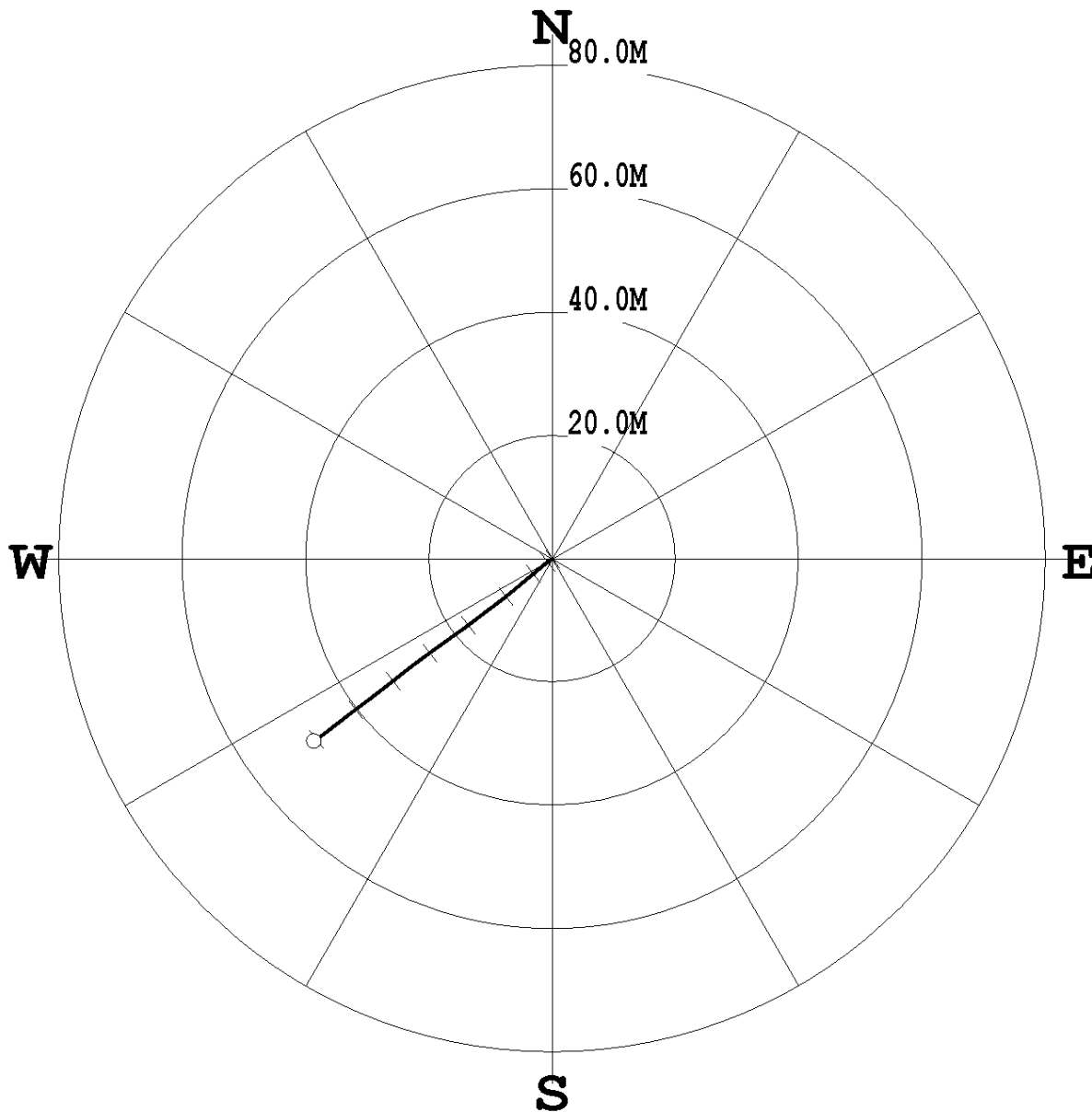


# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ANGLO AMERICAN  
LOCATION: N/A  
HOLE ID: R004  
DATE OF LOG: 11/10/06  
PROBE: 9411A 390

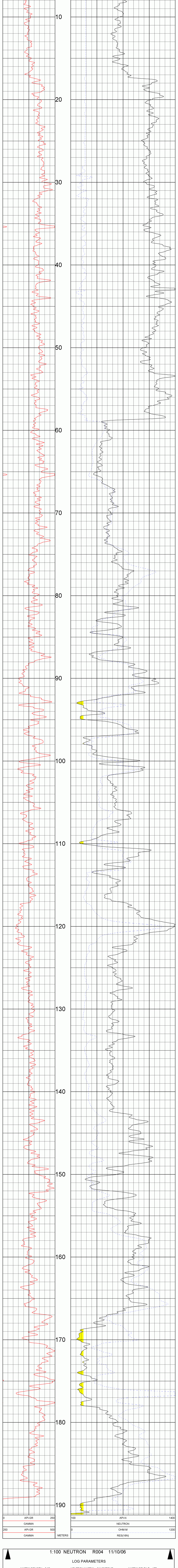


SCALE: 10 M/CM  
TRUE DEPTH: 181.43 M  
AZIMUTH: 232.6  
DISTANCE: 48.6 M  
+ = 20 M INCR  
○ = BOTTOM OF HOLE



LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6 ELECT. CUTOFF : 99999 BIT SIZE : 9.84  
PRESENTATION NAME/DATE = 9057A.0 11/10/2006 VERSION = 3.64EA



LOG PARAMETERS

MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6 ELECT. CUTOFF : 99999 BIT SIZE : 9.84  
PRESENTATION NAME/DATE = 9057A.0 11/10/2006 VERSION = 3.64EA

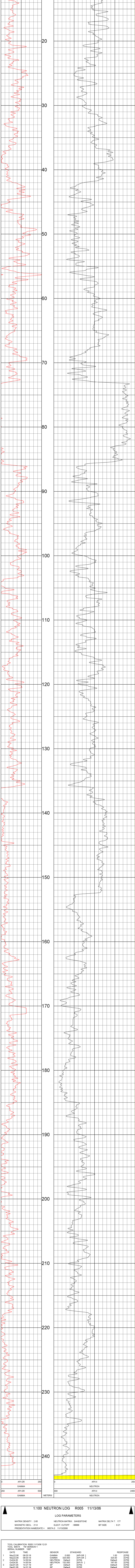
DATE	TIME	SENSOR	STANDARD	RESPONSE
1	May22.06 08:03:18	GAMMA	0.000 [API-GR ]	1.00 [CPS]
2	May22.06 08:03:18	GAMMA	325.000 [API-GR ]	325.00 [CPS]
3	Oct24.05 14:50:54	NEUTRON	Default [CPS]	Default [CPS]
3	Oct24.05 14:50:54	NEUTRON	152.000 [API-N ]	167.00 [CPS]
4	Dec01.05 14:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 14:21:19	SP	Default [CPS]	Default [CPS]
4	Dec01.05 14:54:52	RES(16N)	Default [CPS]	Default [CPS]
4	Dec01.05 14:54:52	RES(16N)	Default [CPS]	Default [CPS]
5	Dec01.05 14:55:00	RES(64N)	Default [CPS]	Default [CPS]
5	Dec01.05 14:55:00	RES(64N)	Default [CPS]	Default [CPS]
6	Dec01.05 14:55:07	TEMP	Default [CPS]	Default [CPS]
6	Dec01.05 14:55:07	TEMP	Default [CPS]	Default [CPS]
7	Dec01.05 14:55:17	RES	Default [CPS]	Default [CPS]
7	Dec01.05 14:55:17	RES	Default [CPS]	Default [CPS]
8	Apr11.02 17:42:07	POR(NEU)	100.000 [PERCENT]	178.00 [CPS]

COMPANY	ARCO AMERICAN	OTHER SERVICES	
WELL	R005	HEAVY	
FIELD	N/A	PHMETE	
MUNICIPALITY	TUMBERT RIDGE		
PROVINCE	BERNICE COLUMBIA		
LOCATION	KESSON		
SECTION	N/A		
TOWNSHIP	N/A		
RANGE	N/A		
APNO	N/A		
UNIT/LOT WELL ID	N/A		
PERMANENT DATUM	GL	ELEVATION 48 N/A	
LOG MEASURED FROM	GL	ELEVATION OF N/A	
LOG MEASURED FROM	GL	ELEVATION OF N/A	
DATE	11/13/06		
DEPTH ORIFLER	249		
BIT SIZE	9.21		
LOG TOP	-0.95		
LOG BOTTOM	243.55		
CASING OD	N/A		
CASING BOTTOM	9.14		
CASING TYPE	STEEL		
BORINGHOLE FLUID	WATER		
FM TEMPERATURE	N/A		
FM RES	N/A		
MUD WEIGHT	N/A		
WITNESSED BY	R HECK		
RECORDED BY	N/A		
REMARKS 1	N/A		
REMARKS 2	N/A		

**1:100 NEUTRON LOG R005 11/13/06**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.6      ELECT. CUTOFF : 99999      BIT SIZE : 9.21  
 PRESENTATION NAME/DATE = 9057A.0 11/13/2006



**1:100 NEUTRON LOG R005 11/13/06**

**LOG PARAMETERS**

MATRIX DENSITY : 2.65      NEUTRON MATRIX : SANDSTONE      MATRIX DELTA T : 177  
 MAGNETIC DECL : 21.6      ELECT. CUTOFF : 99999      BIT SIZE : 9.21  
 PRESENTATION NAME/DATE = 9057A.0 11/13/2006

TOOL CALIBRATION R005 11/13/06 12:01	TOOL 9057A TM VERSION 1	SERIAL NUMBER 1067	SENSOR	STANDARD	RESPONSE
1	May22.06	08:03:18	GAMMA	0.000 [API-GR ]	1.00 [CPS]
2	May22.06	08:03:18	GAMMA	325.000 [API-GR ]	325.00 [CPS]
3	Oct24.05	14:50:54	NEUTRON	Default [CPS]	Default [CPS]
4	Oct24.05	14:50:54	NEUTRON	152.000 [API-N ]	167.00 [CPS]
5	Dec01.05	14:21:19	SP	Default [CPS]	Default [CPS]
6	Dec01.05	14:21:19	RES(16N)	Default [CPS]	Default [CPS]
7	Dec01.05	14:54:52	RES(64N)	Default [CPS]	Default [CPS]
8	Dec01.05	14:55:07	RES(64N)	Default [CPS]	Default [CPS]
9	Dec01.05	14:55:07	TEMP	Default [CPS]	Default [CPS]
10	Dec01.05	14:55:17	RES	Default [CPS]	Default [CPS]
11	Dec01.05	14:55:17	RES	Default [CPS]	Default [CPS]
12	Apr11.02	17:42:07	FOR(NEU)	100.000 [PERCENT]	178.00 [CPS]



COMPANY: JACOBO AMERICANO  
WELL: R005  
FIELD: N/A  
MUNICIPALITY: TUMBES RIVER  
PROVINCE: TUMBES RIVER  
LOCATION: TUMBES RIVER  
SECTION: N/A  
TOWNSHIP: N/A  
RANGE: N/A  
ARNO: N/A  
UNIQUE WELL ID: N/A

OTHER SERVICES:  
NEUTRON  
RHOMETRE  
N/A

PERMANENT DATUM: G.L.  
LOG MEASURED FROM: G.L.  
ORIG. MEASURED FROM: G.L.  
ELEVATION: 83 N/A  
ELEVATION OF N/A  
ELEVATION OF N/A

DATE: 11/13/06  
DEPTH ORTLER: 249  
BIT SIZE: 9.21  
LOG TOP: 0.239  
LOG BOTTOM: 241.92

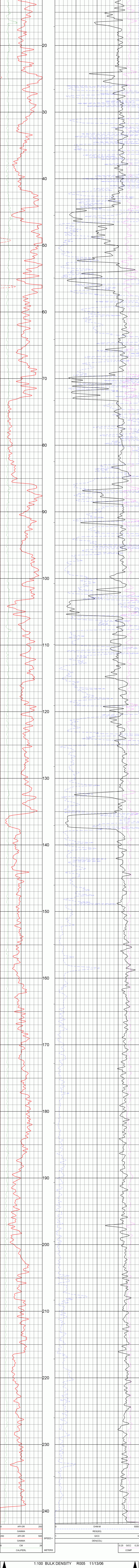
CASING BOTTOM: 9.14  
CASING OD: N/A  
CASING TYPE: STEEL  
BOREHOLE FLUID: WATER  
RM TEMPERATURE: N/A  
MUD RES: N/A  
MUD WEIGHT: N/A  
MIXED BY: N/A  
RECORDED BY: R HECK  
REMARKS 1: N/A  
REMARKS 2: N/A

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**1:100 BULK DENSITY R005 11/13/06**

**LOG PARAMETERS**  
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6 ELECT. CUTOFF : 99999 BIT SIZE : 9.21  
PRESENTATION NAME/DATE = 9239C1.0 11/12/2006



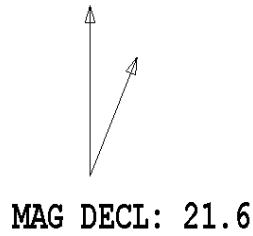
**1:100 BULK DENSITY R005 11/13/06**

**LOG PARAMETERS**  
MATRIX DENSITY : 2.65 NEUTRON MATRIX : SANDSTONE MATRIX DELTA T : 177  
MAGNETIC DECL : 21.6 ELECT. CUTOFF : 99999 BIT SIZE : 9.21  
PRESENTATION NAME/DATE = 9239C1.0 11/12/2006

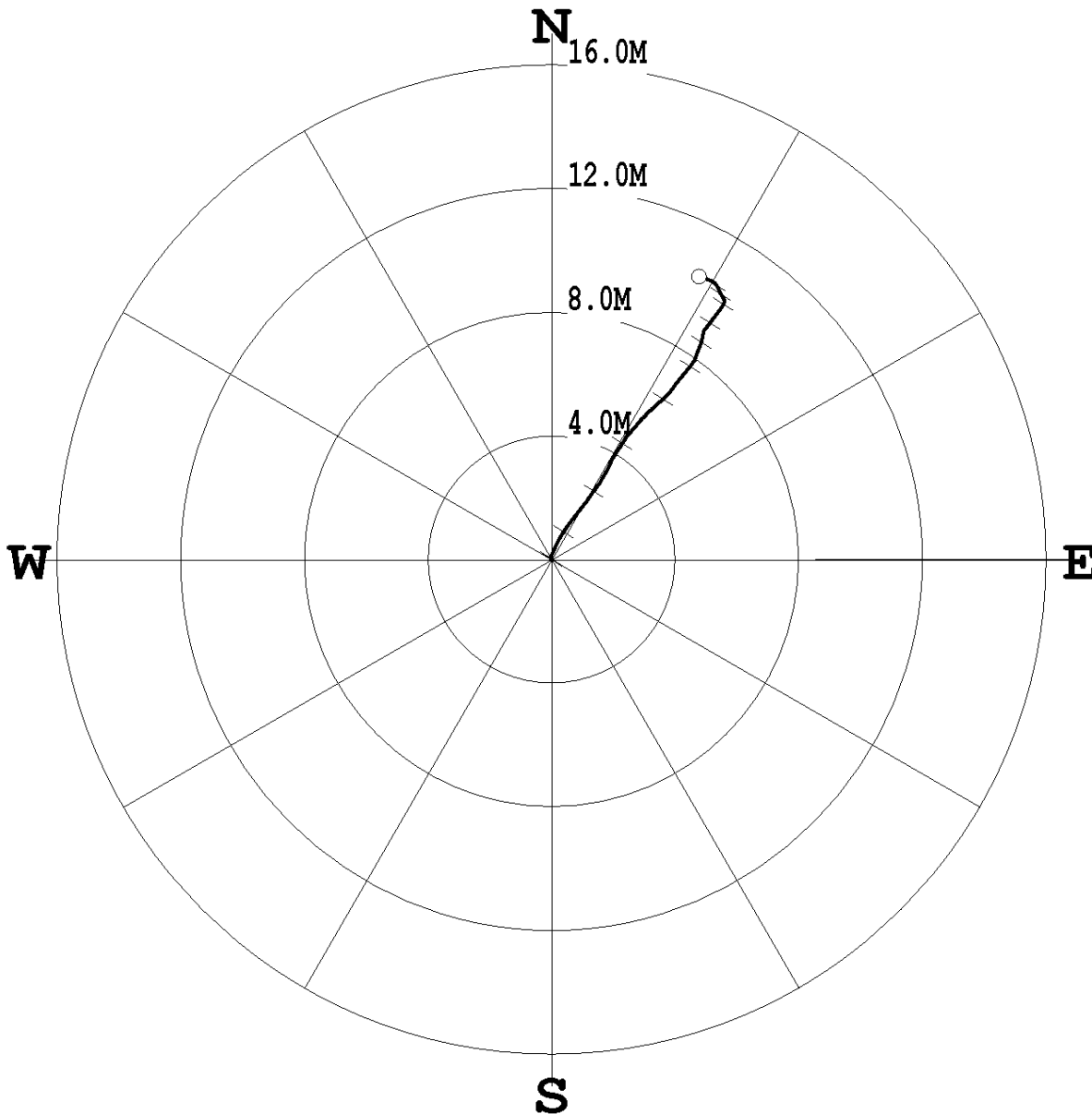
TOOL CALIBRATION R005 11/13/06 12:56		TOOL: 9239C1 TM VERSION 2015			
SERIAL NUMBER 1268					
DATE	TIME	SENSOR	STANDARD	RESPONSE	
1	Nov13.06	12:36:58	GAMMA	Default [CPS]	Default [CPS]
2	Nov13.06	12:36:58	GAMMA	283.000 [API-GR ]	286.00 [CPS]
3	Nov13.06	12:37:40	VOLTAGE	31.850 [MV ]	5358.00 [CPS]
4	Nov13.06	12:37:40	VOLTAGE	572.000 [MV ]	76881.00 [CPS]
5	Nov13.06	12:39:21	CALIPER	2.540 [CM ]	25725.00 [CPS]
6	Nov13.06	12:39:21	CALIPER	20.320 [CM ]	43375.00 [CPS]
7	Nov13.06	16:18:20	DEN(LS)	1.000 [G/CC ]	5860.00 [CPS]
8	Nov13.06	16:18:24	DEN(LS)	2.383 [G/CC ]	525.00 [CPS]
9	Nov13.06	19:48:40	DEN(SS)	1.000 [G/CC ]	11100.00 [CPS]
10	Nov13.06	19:47:14	DEN(SS)	2.383 [G/CC ]	4575.00 [CPS]
11	Nov13.06	12:42:14	CALIPERL	10.180 [CM ]	128735.00 [CPS]
12	Nov13.06	12:42:14	CALIPERL	25.400 [CM ]	304375.00 [CPS]
13	Nov13.06	12:41:56	CURRENT	96.600 [UA ]	10840.00 [CPS]
14	Nov13.06	12:41:56	CURRENT	281.000 [UA ]	29568.00 [CPS]
15	Nov13.06	12:36:24	F	Default [CPS]	

# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ANGLO AMERICAN  
LOCATION: N/A  
HOLE ID: R005  
DATE OF LOG: 11/13/06  
PROBE: 9057A 1067

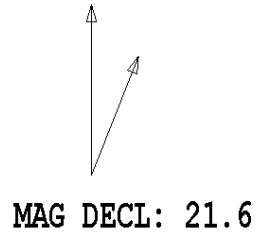


SCALE: 2 M/CM  
TRUE DEPTH: 242.53 M  
AZIMUTH: 27.6  
DISTANCE: 10.3 M  
+ = 20 M INCR  
○ = BOTTOM OF HOLE



# PLAN VIEW COMPU-LOG DEVIATION

CLIENT: ANGLO AMERICAN  
LOCATION: N/A  
HOLE ID: R005  
DATE OF LOG: 11/13/06  
PROBE: 9411A 390



SCALE: 2 M/CM  
TRUE DEPTH: 244.42 M  
AZIMUTH: 30.5  
DISTANCE: 11.9 M  
+ = 20 M INCR  
○ = BOTTOM OF HOLE

