



HIGH DEFINITION INDUCTION LOGSM
GAMMA RAY LOG
CALIPER LOG

FILE NO:	COMPANY	MGM ENERGY CORP	
API NO:	WELL	MGM SHELL EAST MACKAY I-78	
	FIELD	EAST MACKAY	
	PROVINCE	NORTHWEST TERRITORIES	
Ver. 3.87	LOCATION:	OTHER SERVICES	
LICENSE: 1202	LAT 64.795	LONG -125.722	2ZDL-CN-GR-XYCAL CVL, XMAC-GR
PERMANENT DATUM	G.L.	ELEVATION	155.00 M
LOG MEASURED FROM	K.B.	6.2 M	ABOVE P.D.
DRILL. MEAS. FROM	KELLY BUSHING		
			KB 161.2 M DF GL 155.00 M
DATE	29-JAN-2013		
RUN	TRIP	1	
SERVICE ORDER	CA215445		
DEPTH DRILLER	405.2 M		
DEPTH LOGGER	404.0 M		
BOTTOM LOGGED INTERVAL	403.0 M		
TOP LOGGED INTERVAL	25.0 M		
CASING DRILLER	406.4 MM		
CASING LOGGER	22.5 M		
BIT SIZE	311.0 MM		
TYPE OF FLUID IN HOLE	MILL GEL MUD SLURRY		
DENSITY	1140.0 G/L		78] S
PH	8.0		10.6 ML
SOURCE OF SAMPLE	FLOWLINE		
RM AT MEAS. TEMP.	1.60 OHMM		
RMF AT MEAS. TEMP.	1.20 OHMM		
RMC AT MEAS. TEMP.	2.20 OHMM		
SOURCE OF RMF	RMC	MEASURED	MEASURED
RM AT BHT	1.40 OHMM		
TIME SINCE CIRCULATION	10.0 HOURS		
MAX. RECORDED TEMP.	26.3 DEGC		
EQUIP. NO.	LOCATION	CANADA OPEN	
RECORDED BY	I.ZALESKI KH		
WITNESSED BY	D.PRIOR		

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT, BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCE FROM ELECTRICAL OR OTHER MEASUREMENTS, WE CANNOT, AND WE DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATION. WE SHALL NOT BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COST, DAMAGES, OR EXPENSES WHATSOEVER INCURRED OR SUSTAINED BY THE CUSTOMER RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR EMPLOYEES.

BOREHOLE RECORD		
BIT SIZE	FROM	TO
311.0 MM	22.5 M	405.2 M

CASING RECORD			
SIZE	WEIGHT	GRADE	FROM
406.4 MM	81.8 KG/M	NA	0.0 M
			TO
			22.5 M

REMARKS

RUN 1 TRIP 1 : TIME STOPPED CIRCULATION: 29-JAN-2013 11:30 AM
MAXIMUM TEMPERATURE ON THERMOMETERS: 26 AND 26 DEGC
TEMPERATURE LOG WAS RECORDED ON THE WAY DOWN.
BOREHOLE AND TEMPERATURE CORRECTIONS HAVE BEEN APPLIED TO HDIL DATA.
HDIL RECORDED WITH AND CORRECTED TO 38.0 MM STANDOFF.
CALIPER PRESENTED WITH HDIL TO ASSIST WITH THE QC OF THE DATA.

RIG: AKITA #37

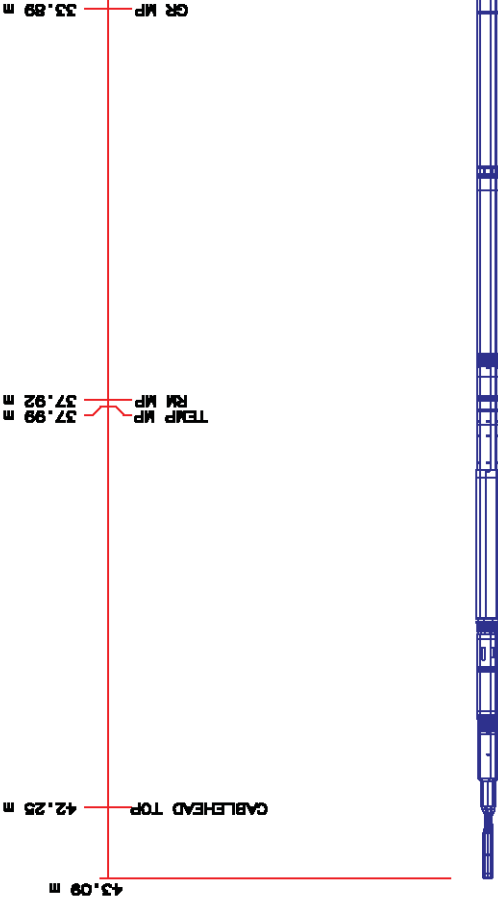
CREW: I.ZALESKI KH, J.PEREIRA, N.MCDERMID, K.HASLUK

RUN	TRIP	TOOL	SERIES NO.	SERIAL NO.	POSITION
1	1	SWIVEL	3944XD	10513050	FREE
1	1	DHPA	4430XB	10390592	FREE
1	1	TTRM SUB	3981XB	10516528	FREE
1	1	COMM	3514XB	10504656	FREE
1	1	WTS DGR/SU	1329XB	10293862	FREE
1	1	QRT	4401XB	12466129	FREE
1	1	ACOUSTIC EL	1677EA	10383992	CENTRALIZED
1	1	XMAC RX MDR	1678MC	10386815	CENTRALIZED
1	1	XMAC ISO	1678PB	10039369	FREE
1	1	XMAC TX ELC	1678BA	12168167	CENTRALIZED
1	1	XMAC TX ELC	1678FA	12188364	CENTRALIZED
1	1	WTS DBL KNJ	3939XA	12448499	FREE
1	1	FOC/WTS ADP	3527EA	123337591	FREE
1	1	FOC/WTS ADP	3527FA	12494796	FREE
1	1	TMA SUB	3980XA	2402456	FREE
1	1	FOCUS CN	2436XA	10105638	DECENTRALIZED
1	1	FOCUS ZDEN	2223XA	10391896	PAD DEVICE
1	1	DBL KNJ	3931XA	10469360	FREE
1	1	ALGNMNT SUB	4408NA	10265502	FREE
1	1	FOCUS ZDEN	2223XA	10102923	PAD DEVICE
1	1	DBL KNJ	3931XA	10189700	FREE
1	1	FOCUS HDL	1530XA	10125755	STANDOFF

INSTRUMENT CONFIGURATION

Source File: /data/MGM/run1_oh/m98dg_mgm_R1-tdg

CABLEHEAD	Diameter : 8.6 cm	Length : 107.6 cm	Weight : 10.9 kg	Series : CABL338	Mnemonic : CBLH	Measure Point: 83.8 cm: CABLEHEAD TOP
SWIVEL	Diameter : 8.6 cm	Length : 106.7 cm	Weight : 30.8 kg	Series : 3944XD		
DOWNHOLE POWER ADAPTER	Diameter : 9.2 cm	Length : 180.7 cm	Weight : 39.1 kg	Series : 4430XB	Mnemonic : DHPA	
TTRM SUB	Diameter : 9.2 cm	Length : 116.8 cm	Weight : 28.2 kg	Series : 3981XA	Mnemonic : TTRM	
WTS COMMON REMOTE	Diameter : 9.2 cm	Length : 194.0 cm	Weight : 57.3 kg	Series : 3514XB	Mnemonic : WTS	
DIGITAL SPECTALOG	Diameter : 9.2 cm	Length : 222.8 cm	Weight : 59.1 kg	Series : 1329XA	Mnemonic : DSL	Measure Point: 48.8 cm: CR MP



Diameter	: 8.6 cm
Length	: 329.4 cm
Weight	: 50.0 kg
Series	: 4401XB
Mnemonic	: ORIT
Measure Point	: 0.0 cm: ORIENT MP

Diameter	: 8.6 cm
Length	: 238.3 cm
Weight	: 48.4 kg
Series	: 1677EA
Mnemonic	: XMAC

GROSS MULTIPOLE ARRAY ACOUSTIC LOG

Diameter	: 9.6 cm
Length	: 332.4 cm
Weight	: 101.8 kg
Series	: 1678MC
Mnemonic	: XMEF1
Measure Point	: 167.8 cm: R8
Measure Point	: 152.4 cm: R7
Measure Point	: 137.2 cm: R6
Measure Point	: 121.9 cm: R5
Measure Point	: 106.7 cm: R4
Measure Point	: 91.4 cm: R3
Measure Point	: 76.2 cm: R2
Measure Point	: 61.0 cm: R1

SHEAR WAVE ACOUSTIC LOG

Diameter	: 9.2 cm
Length	: 152.4 cm
Weight	: 61.4 kg
Series	: 1678PB
Mnemonic	: XMAC

MULTI-POLE ARRAY ACOUSTIC

Diameter	: 9.8 cm
Length	: 241.3 cm
Weight	: 77.3 kg
Series	: 1678BA
Mnemonic	: XMAC
Measure Point	: 195.8 cm: QUADRUPOLE T3
Measure Point	: 142.2 cm: MONOPOLE T2
Measure Point	: 142.2 cm: Y-DIPOLE T4
Measure Point	: 142.2 cm: X-DIPOLE T3
Measure Point	: 88.9 cm: MONOPOLE T1
Diameter	: 8.6 cm
Length	: 131.8 cm
Weight	: 28.4 kg
Series	: 1678FA
Mnemonic	: MAC

KNUCKLE JOINT (DOUBLE)

Diameter	: 8.6 cm
Length	: 141.8 cm
Weight	: 40.8 kg
Series	: 3939XA
Mnemonic	: KJUT

WTS FOCUS TELEMETRY TRANSFORMER SUB

Diameter	: 9.2 cm
Length	: 165.7 cm
Weight	: 30.5 kg
Series	: 3528EB
Mnemonic	: ADMP

WTS FOCUS POWER ADAPTOR

Diameter	: 9.2 cm
Length	: 110.2 cm
Weight	: 70.9 kg
Series	: 3528FB
Mnemonic	: ADMP

FOCUS TBM/TBMP/MUD RES/ACCEL

Diameter	: 8.0 cm
Length	: 131.4 cm
Weight	: 27.7 kg
Series	: 3980XA
Mnemonic	: TTMA

FOCUS COMPENSATED NEUTRON

Diameter	: 8.0 cm
Length	: 146.7 cm
Weight	: 29.5 kg
Series	: 2435XA
Mnemonic	: CN
Measure Point	: 58.4 cm: LSN MP
Measure Point	: 44.5 cm: SSN MP

FOCUS Z-DENS LOG

Diameter	: 9.5 cm
Length	: 292.1 cm
Weight	: 90.9 kg
Series	: 2223XA
Mnemonic	: ZDL
Measure Point	: 51.4 cm: CR1 MP / CR2 MP

ORIENT MP 30.11 m

R8	26.08 m
R7	25.93 m
R6	25.77 m
R5	25.62 m
R4	25.47 m
R3	25.32 m
R2	25.17 m
R1	25.01 m

MONOPOLE T2 22.42 m

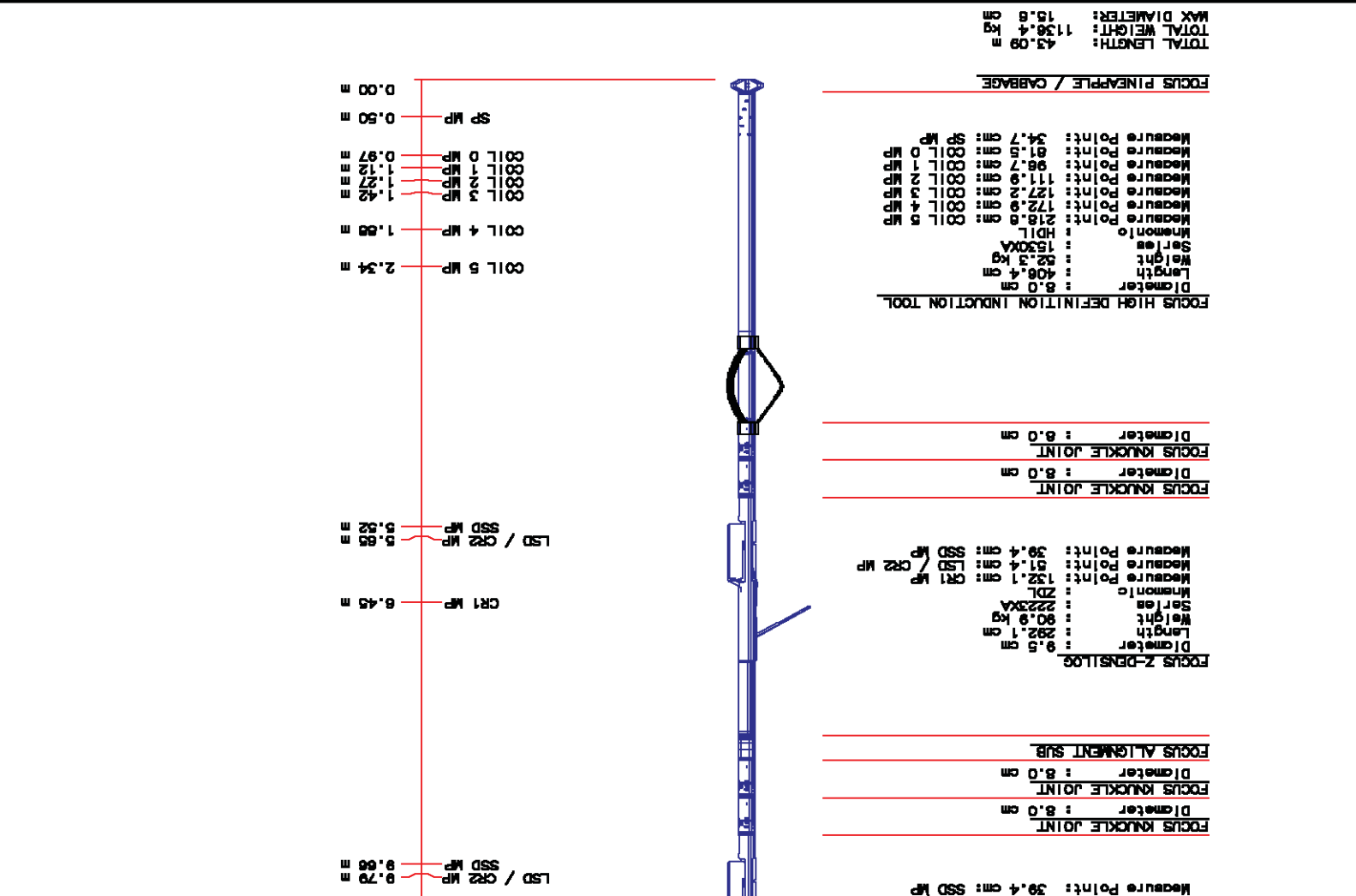
X-DIPOLE T3 21.89 m

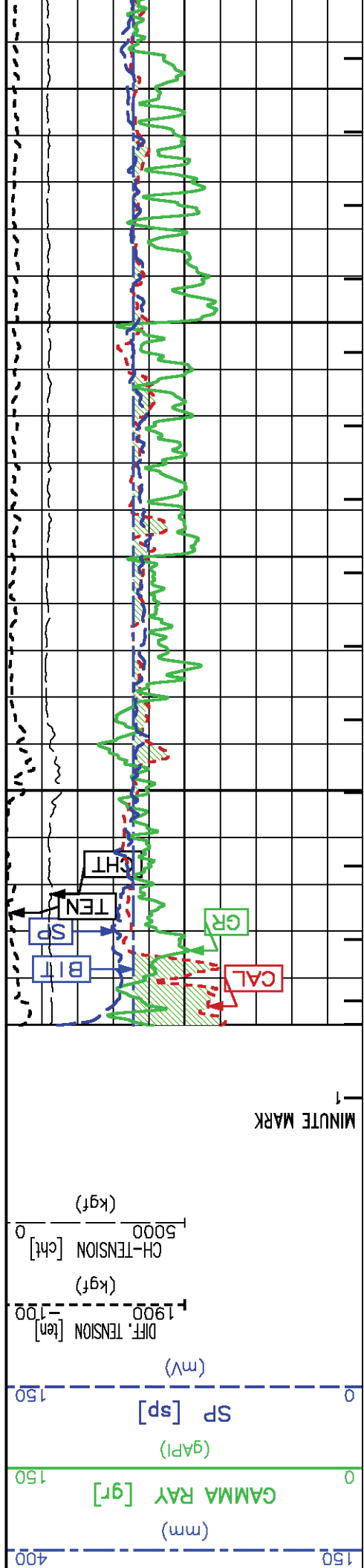
MONOPOLE T1 21.36 m

LSN MP 12.78 m

CR1 MP 10.59 m

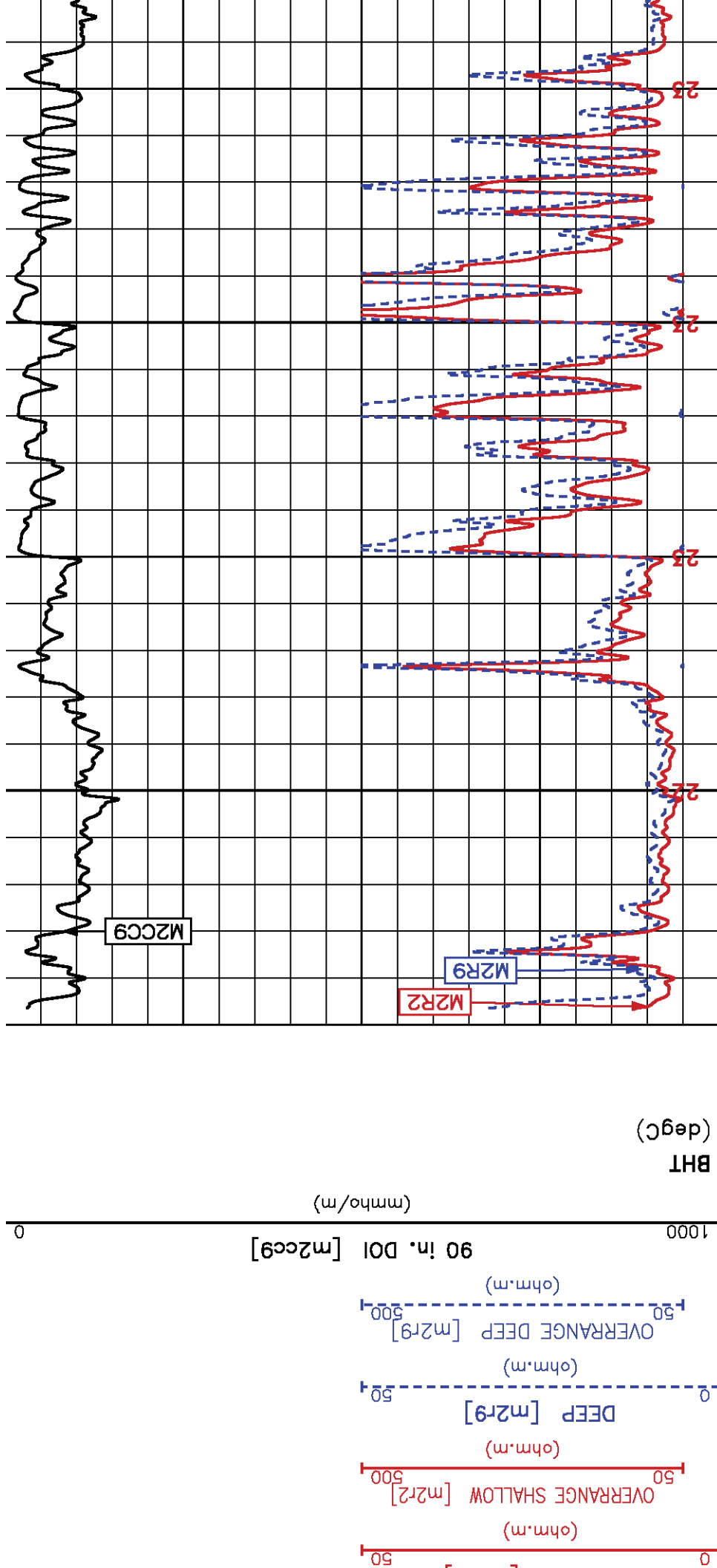
MAIN LOG - UPPER PRESENTATION

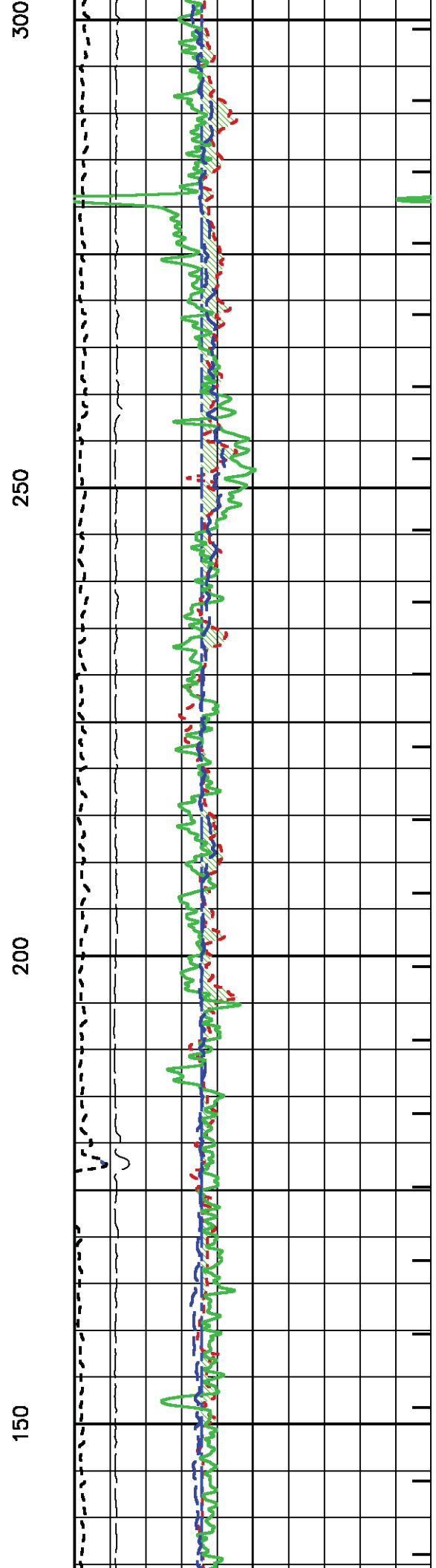
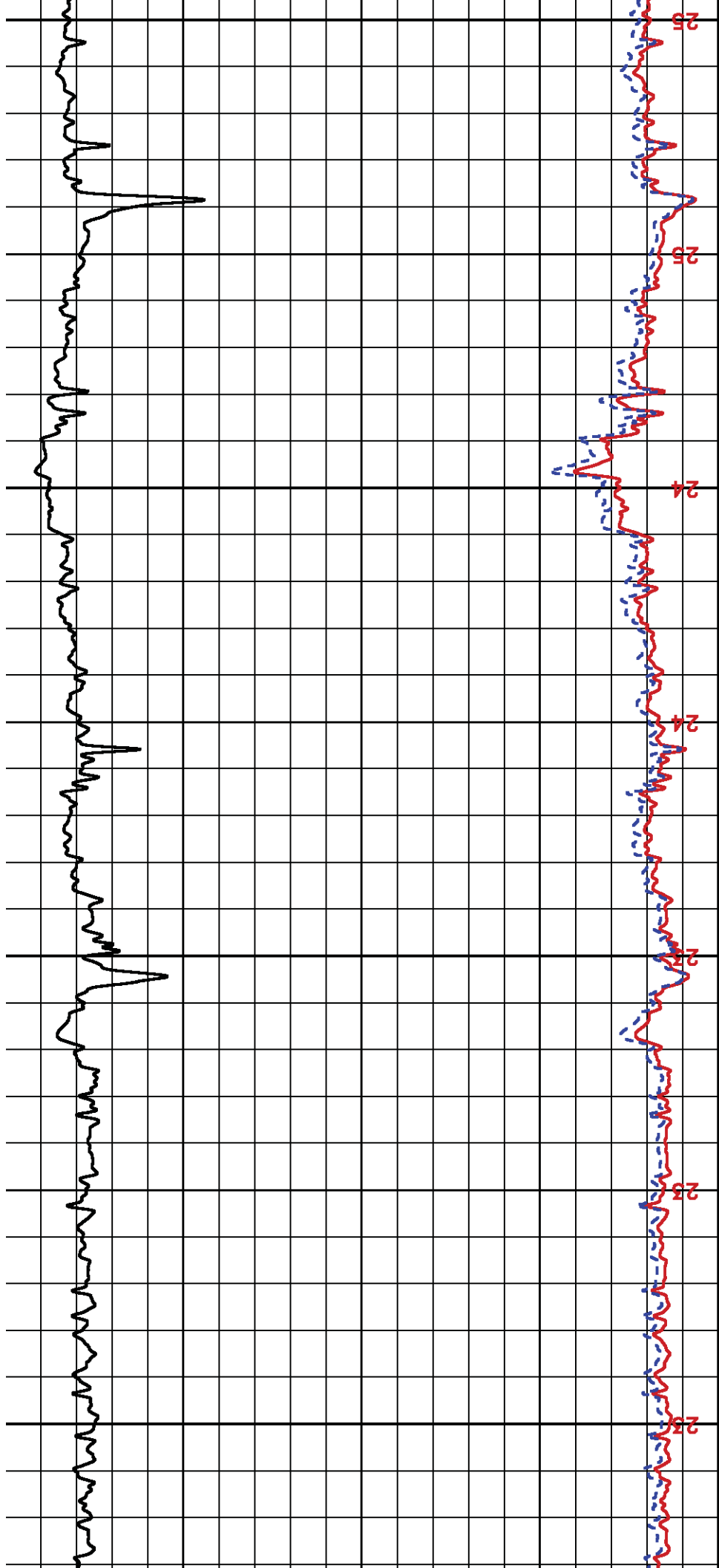


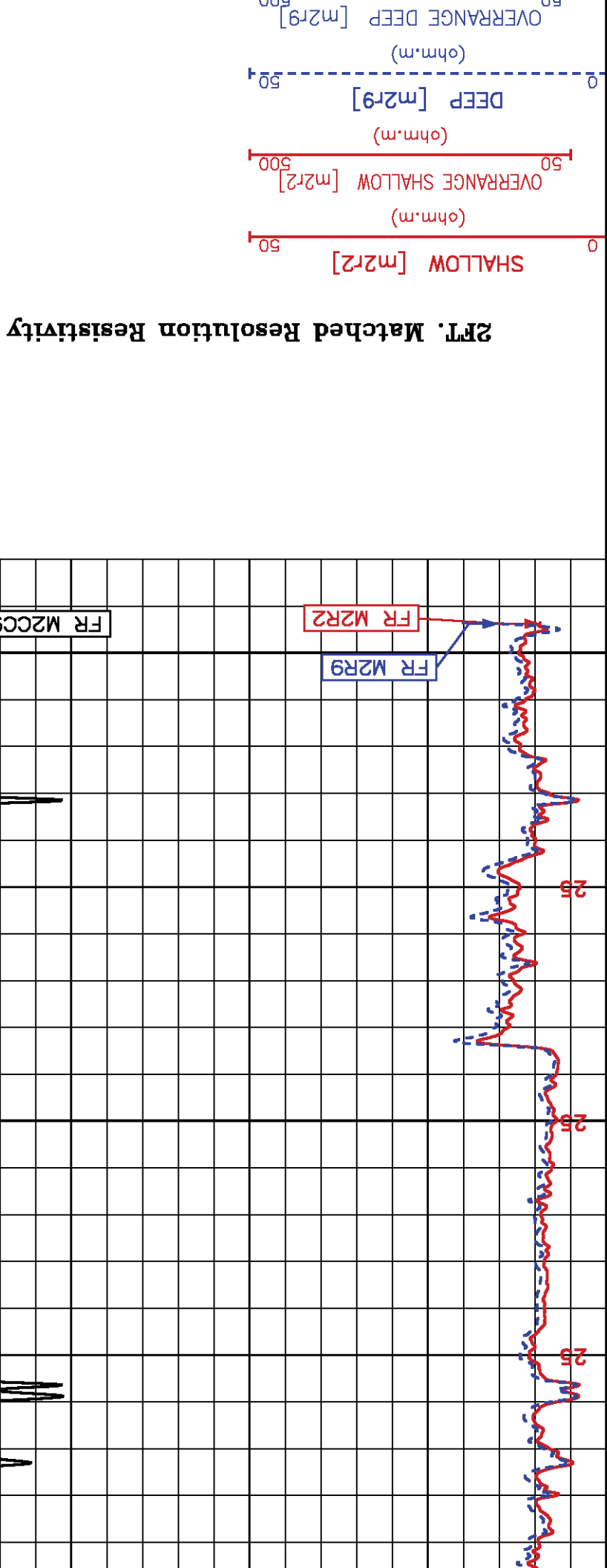
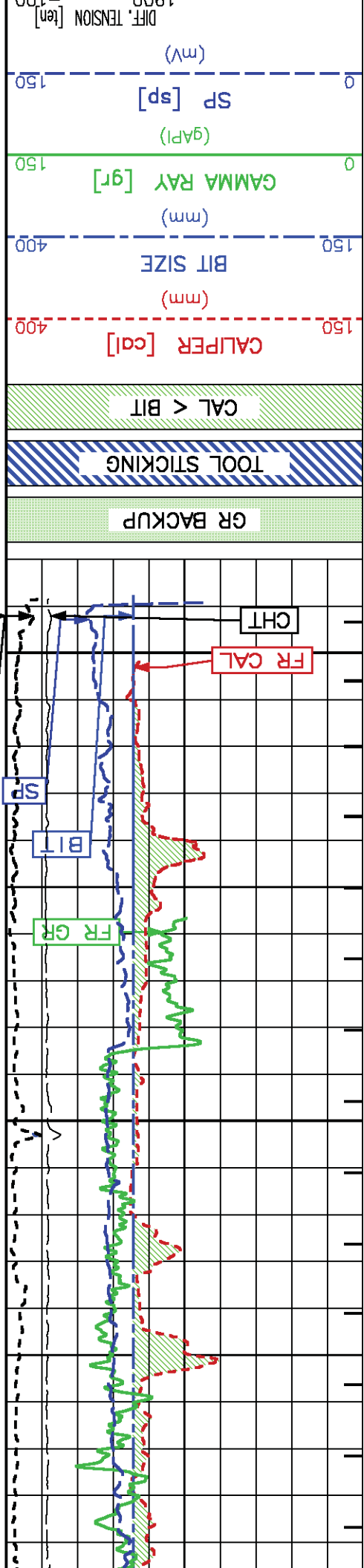


100

50







Tue Jan 29 22:53:01 2013

Fileview 5.61

PARAMETER AND FILTER SUMMARY REPORT

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File: /data/mcm/run1_oh/m98007.prm
Logging Mode: DEPTH
Direction: UP
Top Depth: -0.989 m
Bottom Depth: 405.844 m

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MAIN LOG

The graph displays two data series: CH-TENSION [cht] (kgf) and BHT (degC). The CH-TENSION series is represented by a solid line with circular markers, and the BHT series is represented by a dashed line with circular markers. The x-axis is labeled '90 in. DOI [m2cc9] (mmho/m)' and ranges from 0 to 1000. The y-axis is labeled 'CH-TENSION [cht] (kgf)' and ranges from 0 to 1500. A 'MINUTE MARK' is indicated on the y-axis. The BHT series shows a linear increase from approximately 100 degC at 0 mmho/m to 1000 degC at 1000 mmho/m. The CH-TENSION series shows a non-linear increase, starting at approximately 100 kgf at 0 mmho/m and reaching approximately 1400 kgf at 1000 mmho/m.

90 in. DOI [m2cc9] (mmho/m)	CH-TENSION [cht] (kgf)	BHT (degC)
0	100	100
250	120	250
500	130	500
750	135	750
1000	1400	1000

The figure displays a series of stacked plots sharing a common x-axis representing distance in meters, ranging from 0 to 2000. The top section contains six plots related to drilling parameters: Gamma Ray (gAPI), Caliper (mm), Bit Size (mm), Spindle Power (mV), Differential Tension (kgf), and Chisel Tension (kgf). The bottom section features four resistivity curves for different depths of investigation (DOI): 10 in. DOI (red), 20 in. DOI (purple), 30 in. DOI (green), and 60 in. DOI (cyan). The 60 in. DOI curve is labeled '2FT. Matched Resolution Resistivity'.

TEN

25

50

75

GR

CAL

BIT

SP

CHT

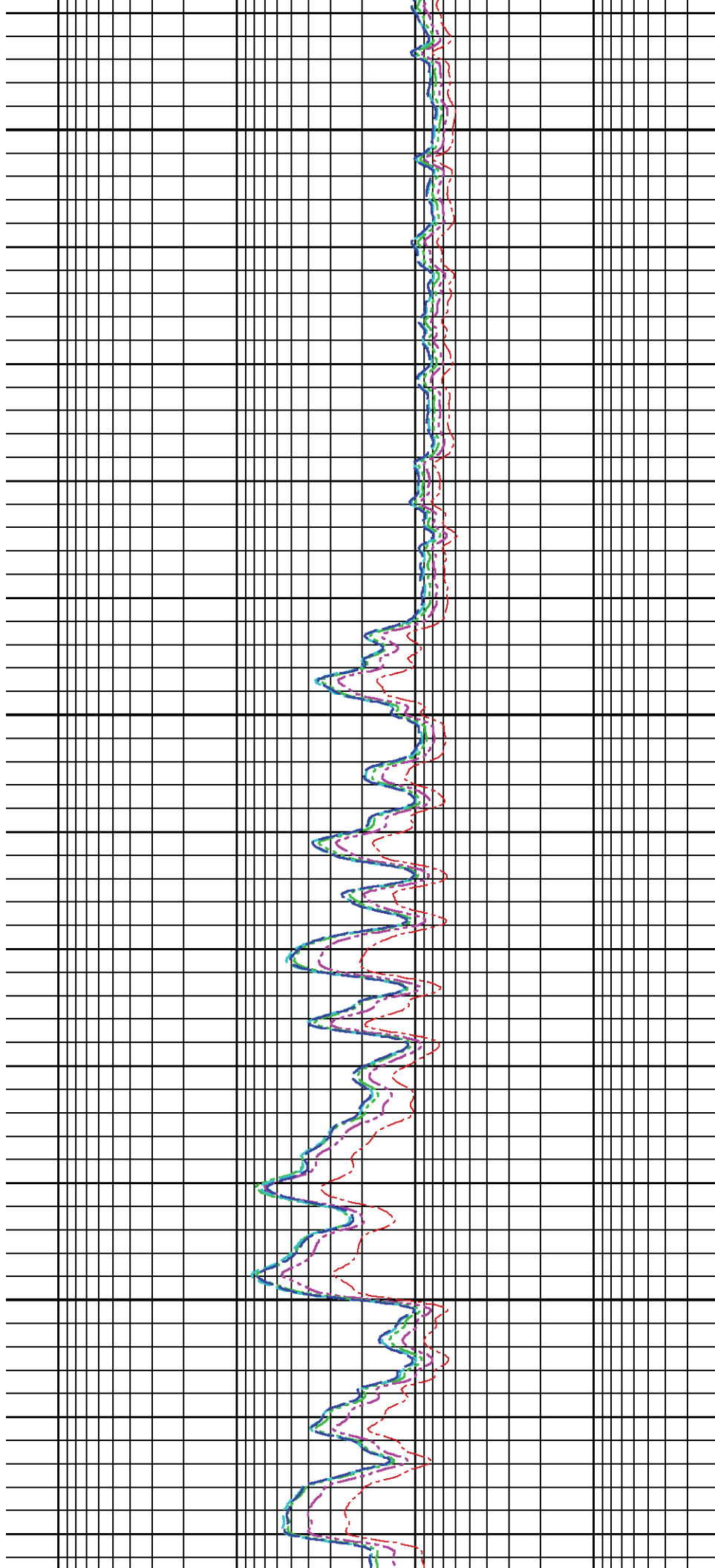
M2R1

M2R2

M2R3

M2R6

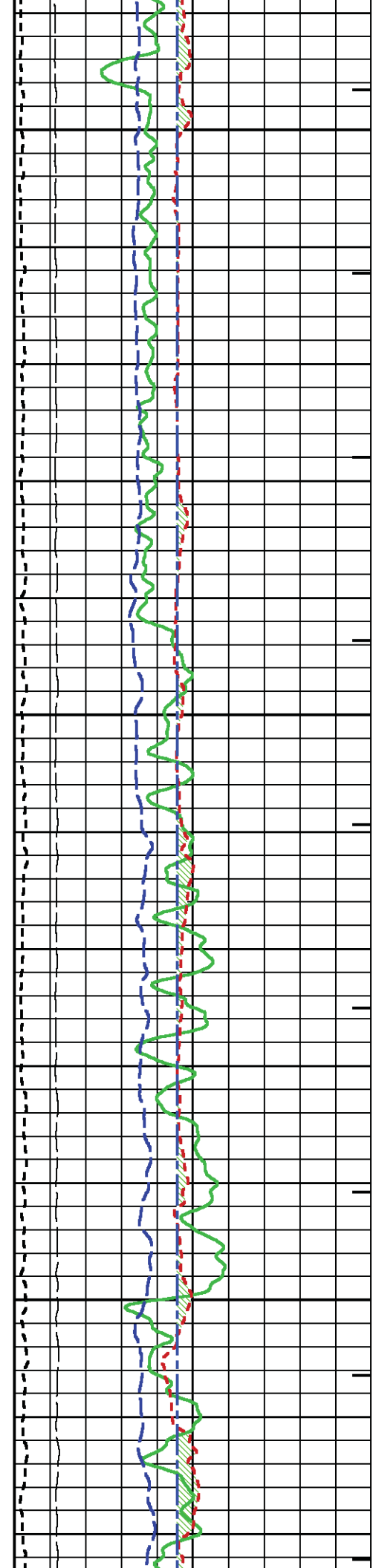
M2R9

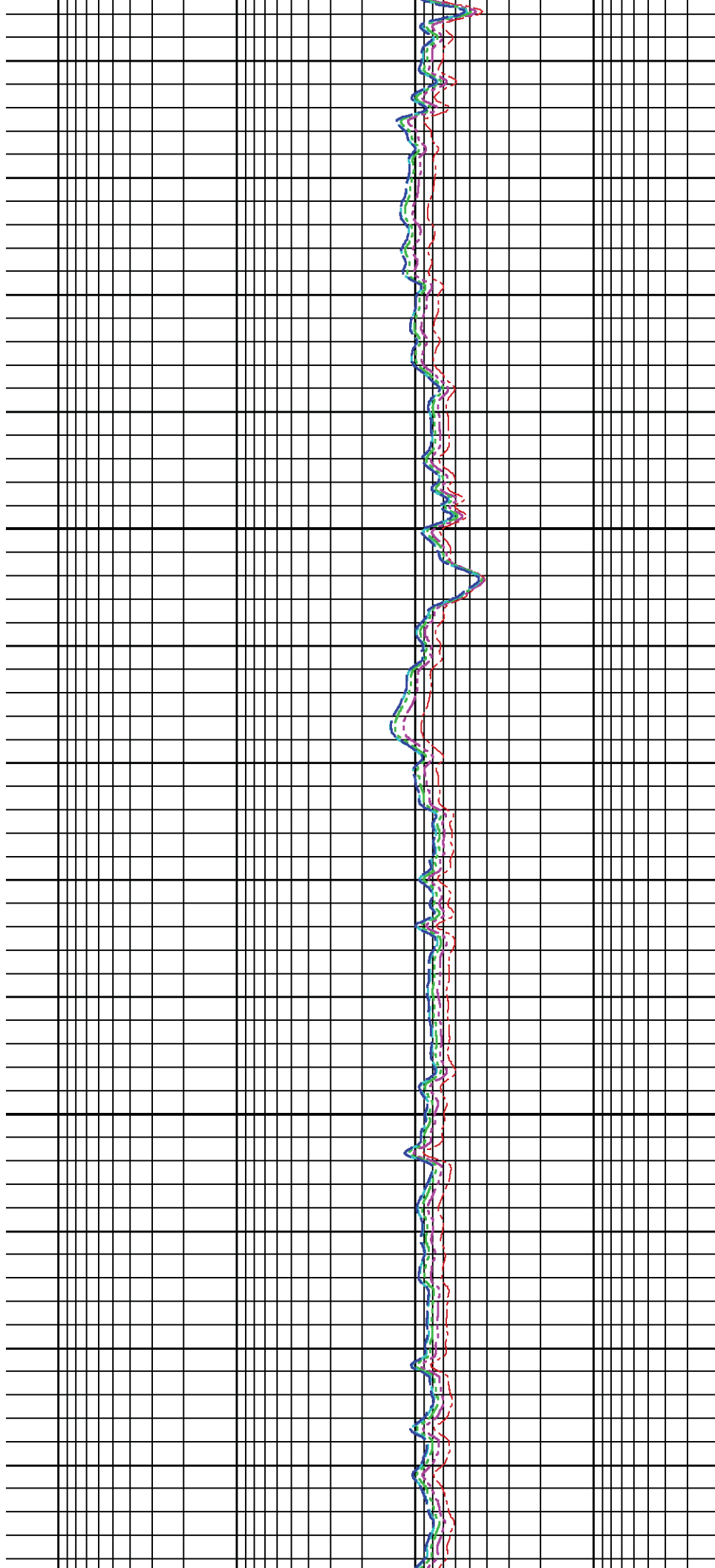


100

125

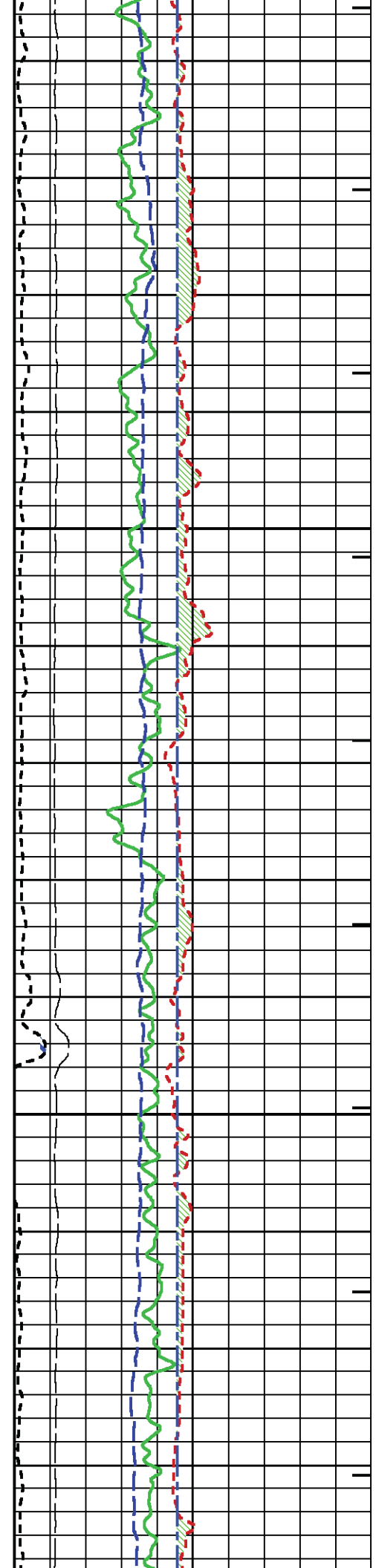
150

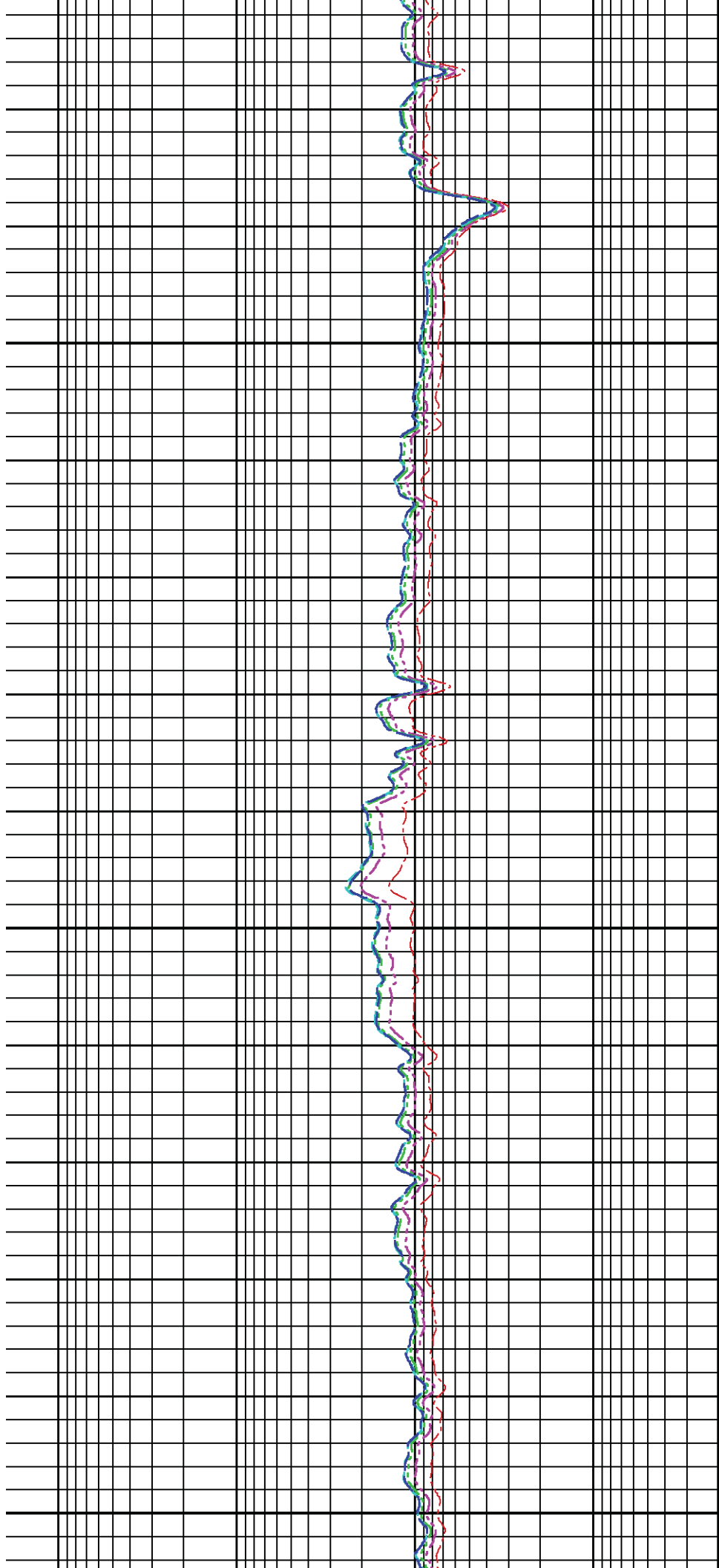




200

175

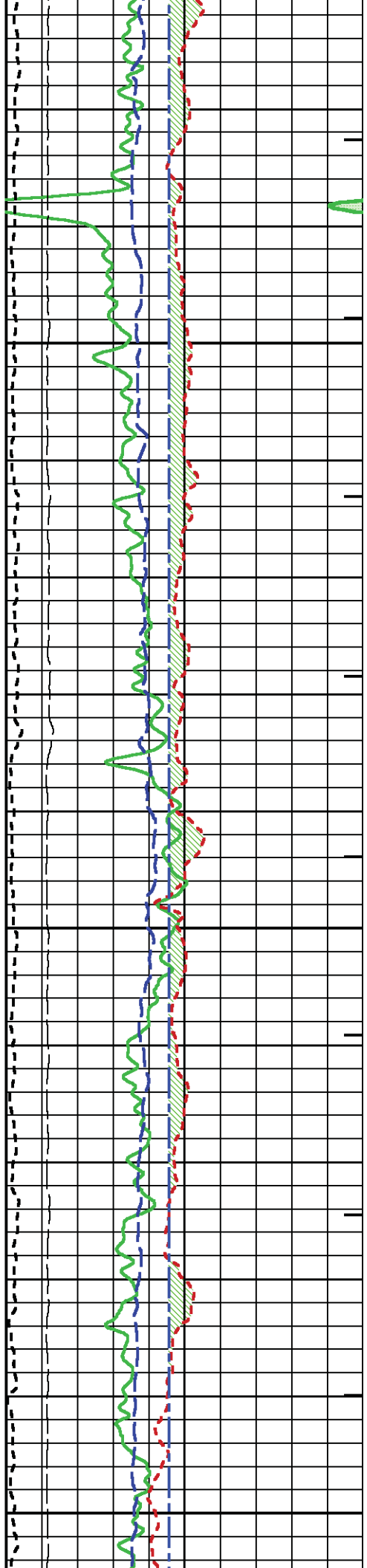


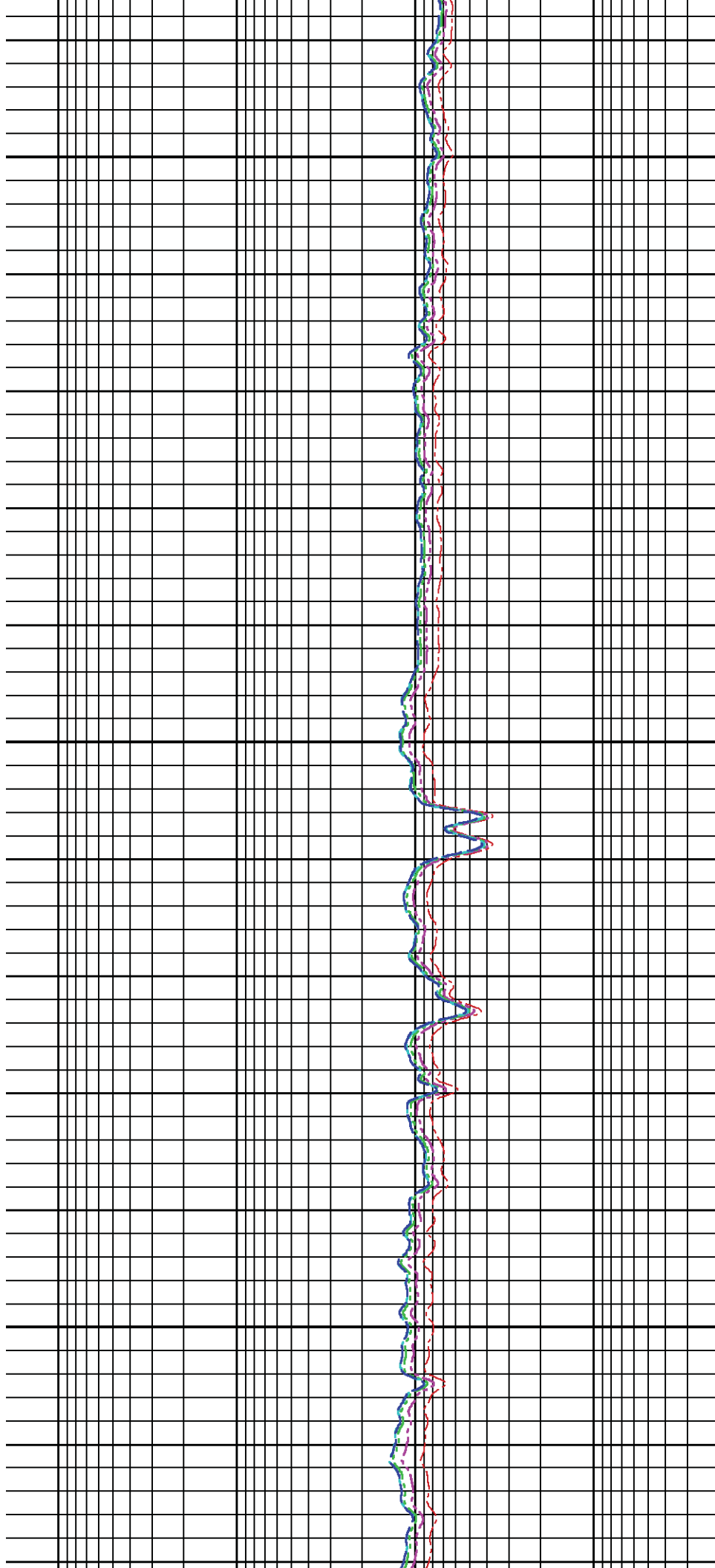


225

250

275

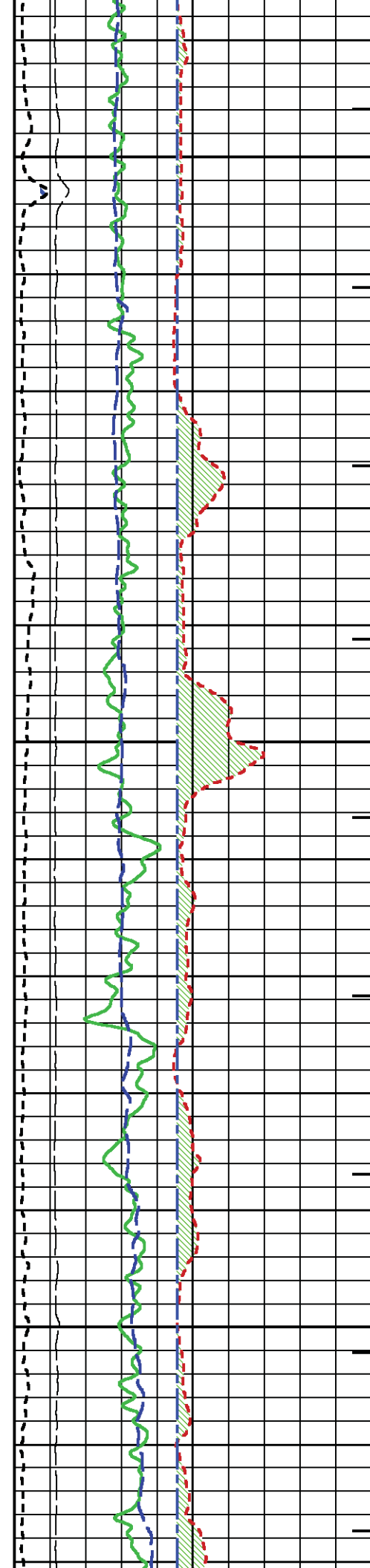


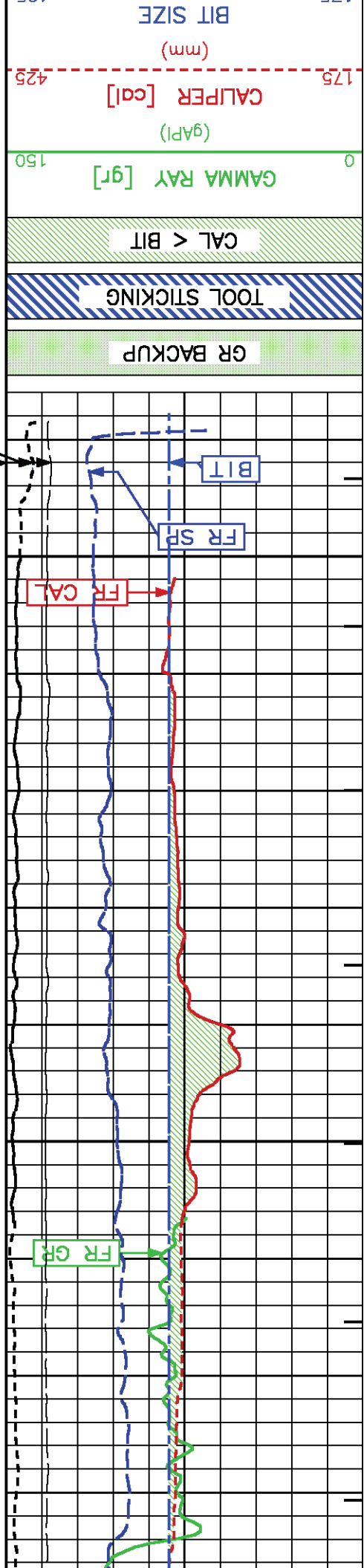


300

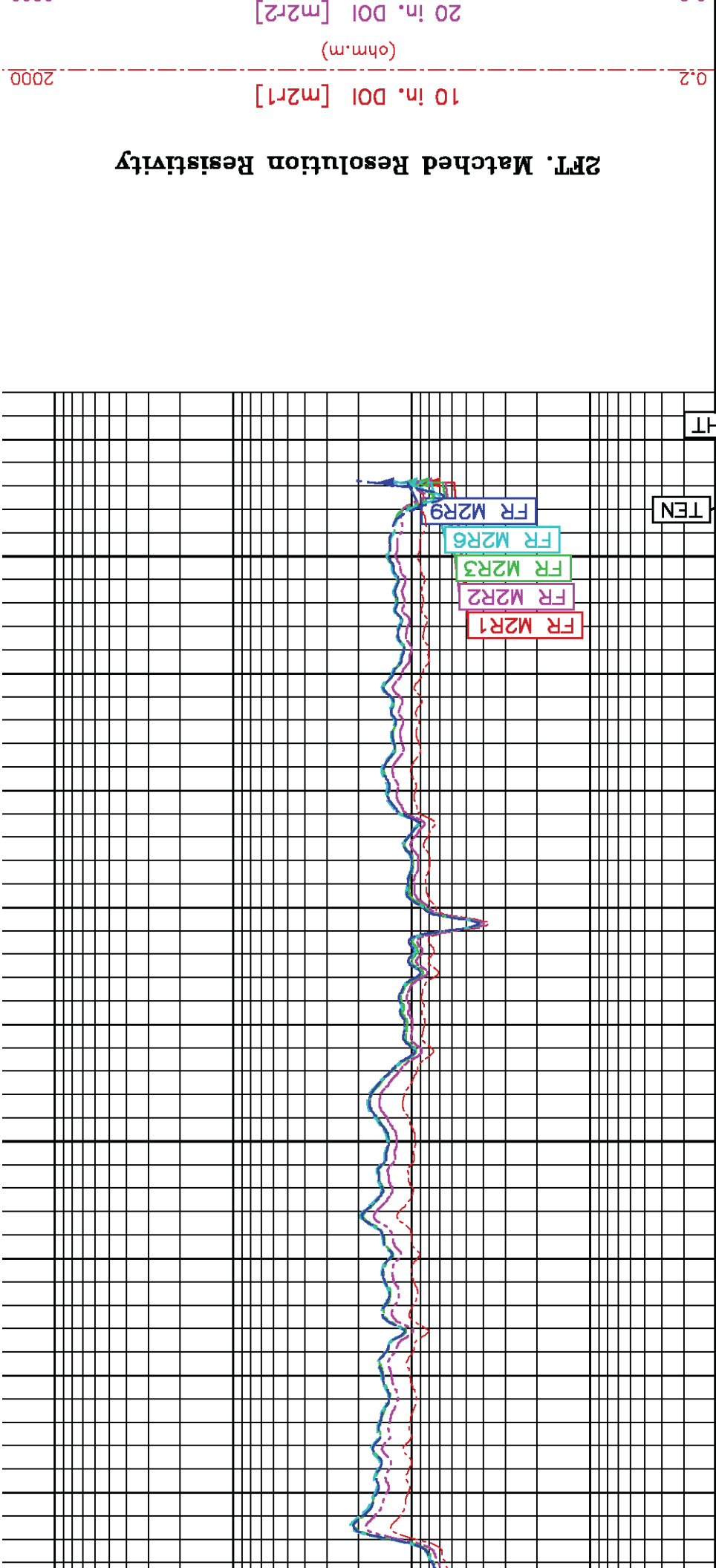
325

350

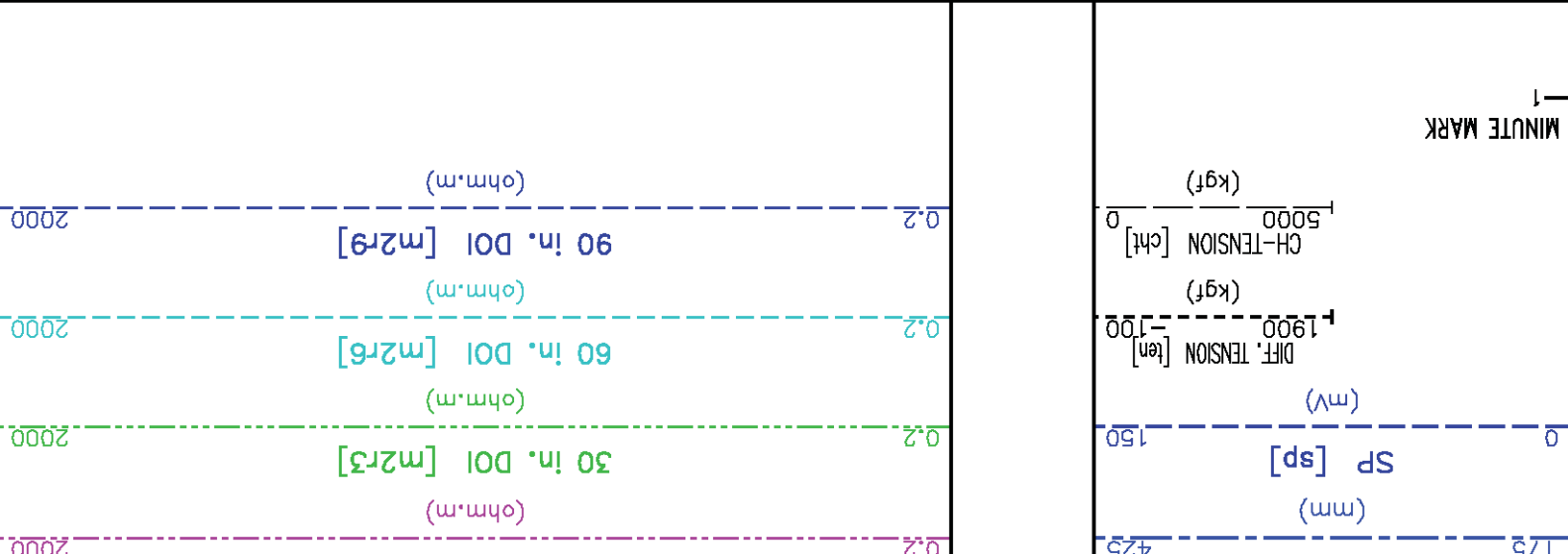




2FT. Matched Resolution Resistivity



REPEAT LOG



ECLIPS 6.11 Aug 06, 2010
Updates: 1,2 Patches: 3
Perfit /main/62 Cplot Pdf_Cpp /main/16
Fileview 5.61

PARAMETER AND FILTER SUMMARY REPORT

SYMMETRIC FILTER				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CHT	FILTER ()	medium (1)		TOP
TENSION	FILTER ()	medium (1)		TOP
GR	FILTER ()	medium (1)		TOP
SP-SPDH	FILTER ()	medium (1)		TOP

BOREHOLE & CEMENT				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
X-Y COMBINED CALIPER PROCESSING	X-Y Caliper	Average	mm	TOP
BIT SIZE	BIT SIZE	311.000	mm	TOP
BH MUD RESISTIVITY SOURCE	RHMD SOURCE (HDIL)	TOOL MEASURED		TOP
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	26.0	degC	TOP
	MUD SAMPLE RES	1.400	ohm.m	TOP
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	25.0	degC	TOP
	at BH REF DEPTH	0.0	m	TOP
	with TEMP GRADIENT	2.187	degC/m	TOP
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		TOP
	FIXED DIAMETER (mbh*)	311.000	mm	TOP
BOREHOLE CORR DIAMETER				TOP
X-Y COMBINED CALIPER PROCESSING-FOCMSY Caliper - FOCUS		Average		TOP

ACCELERATION PROCESSING				
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION ON		TOP
		343.129		TOP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		TOP
	ABC to CALCULATE	STANDOFF		TOP
	TOOL POSITION	38.10	mm	TOP
	Rmud MULTIPLIER	ECCENTERED		TOP
		1.000		TOP

PARAMETER AND FILTER SUMMARY REPORT				
File: /data/MGM/run1_oh/m98007.prm LOGGING MODE: DEPTH TOP DEPTH: -0.989 m BOTTOM DEPTH: 405.844 m DIRECTION: UP				

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
CHT	FILTER ()	medium (1)		TOP
TENSION	FILTER ()	medium (1)		TOP
GR	FILTER ()	medium (1)		TOP
SP-SPDH	FILTER ()	medium (1)		TOP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
BOREHOLE & CEMENT				
X-Y COMBINED CALIPER PROCESSING	X-Y Caliper	Average		TOP
BIT SIZE	BIT SIZE	311.000	mm	TOP
BH MUD RESISTIVITY SOURCE	Rmud SOURCE (HDIL)	TOOL MEASURED		TOP
MUD SAMPLE RESISTIVITY	MUD SAMPLE TEMP	26.0	degC	TOP
	MUD SAMPLE RES	1.400	ohm.m	TOP
BOREHOLE TEMP from GRADIENT	Known BH REF TEMP	25.0	degC	TOP
	at BH REF DEPTH	0.0		TOP
	with TEMP GRADIENT	2.187	degC/m	TOP
BOREHOLE CORR DIAMETER SOURCE	CALIPER/FIXED DIA. (mbh*)	USE CALIPER		TOP
BOREHOLE CORR DIAMETER	FIXED DIAMETER (mbh*)	311.000	mm	TOP
X-Y COMBINED CALIPER PROCESSING-FOCUSED CALIPER - FOCUS	Average			TOP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
ACCELERATION PROCESSING				
ACCEL CORR SWITCH	ACCEL DEPTH CORR	CORRECTION OFF		TOP

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	INTERVAL (m)
HDIL PROCESSING				
HDIL TEMPERATURE CORRECTION	TEMP CORRECTION	ON		TOP
ADAPTIVE BOREHOLE CORRECTION	ABC PROCESSING	ON		TOP
	ABC to CALCULATE	STANDOFF		TOP
	TOOL POSITION	38.10	mm	TOP
	Rmud MULTIPLIER	ECCENTERED		TOP
		1.000		TOP

CURVE NAME	CREATION DATE	CURVE DESCRIPTION
CURVE DESCRIPTION REPORT		

F1:BIT	Jan 29 20:52:41 2013	BIT SIZE
F1:CAL	Jan 29 20:52:41 2013	CALIPER
F1:CHT	Jan 29 20:52:41 2013	CABLE HEAD TENSION
F1:GR	Jan 29 20:52:41 2013	GAMMA RAY
F2:M2R1	Jan 29 21:27:27 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 10-INCH DOI
F1:M2R2	Jan 29 20:52:41 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 20-INCH DOI
F1:M2R3	Jan 29 20:52:41 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 30-INCH DOI
F1:M2R6	Jan 29 20:52:41 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 60-INCH DOI
F1:M2R9	Jan 29 20:52:41 2013	VERTICAL 2-FOOT RESOLUTION MATCHED RESISTIVITY, 90-INCH DOI
F1:MMRK	Jan 29 20:52:41 2013	MINUTE MARK
F1:SP	Jan 29 20:52:41 2013	SPONTANEOUS POTENTIAL
F1:TEN	Jan 29 20:52:41 2013	DIFFERENTIAL TENSION

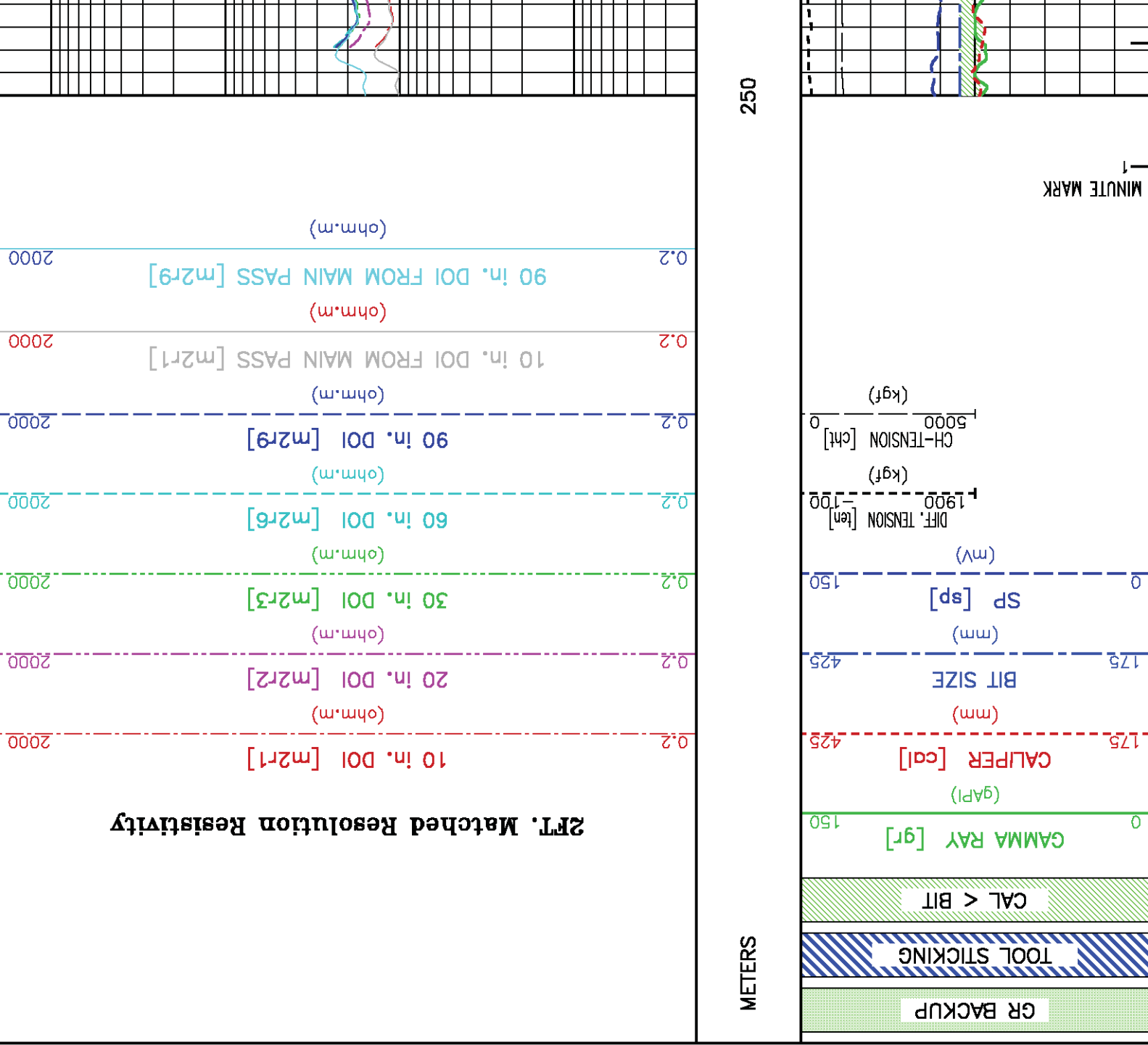
CURVE MEASURE POINT OFFSET		
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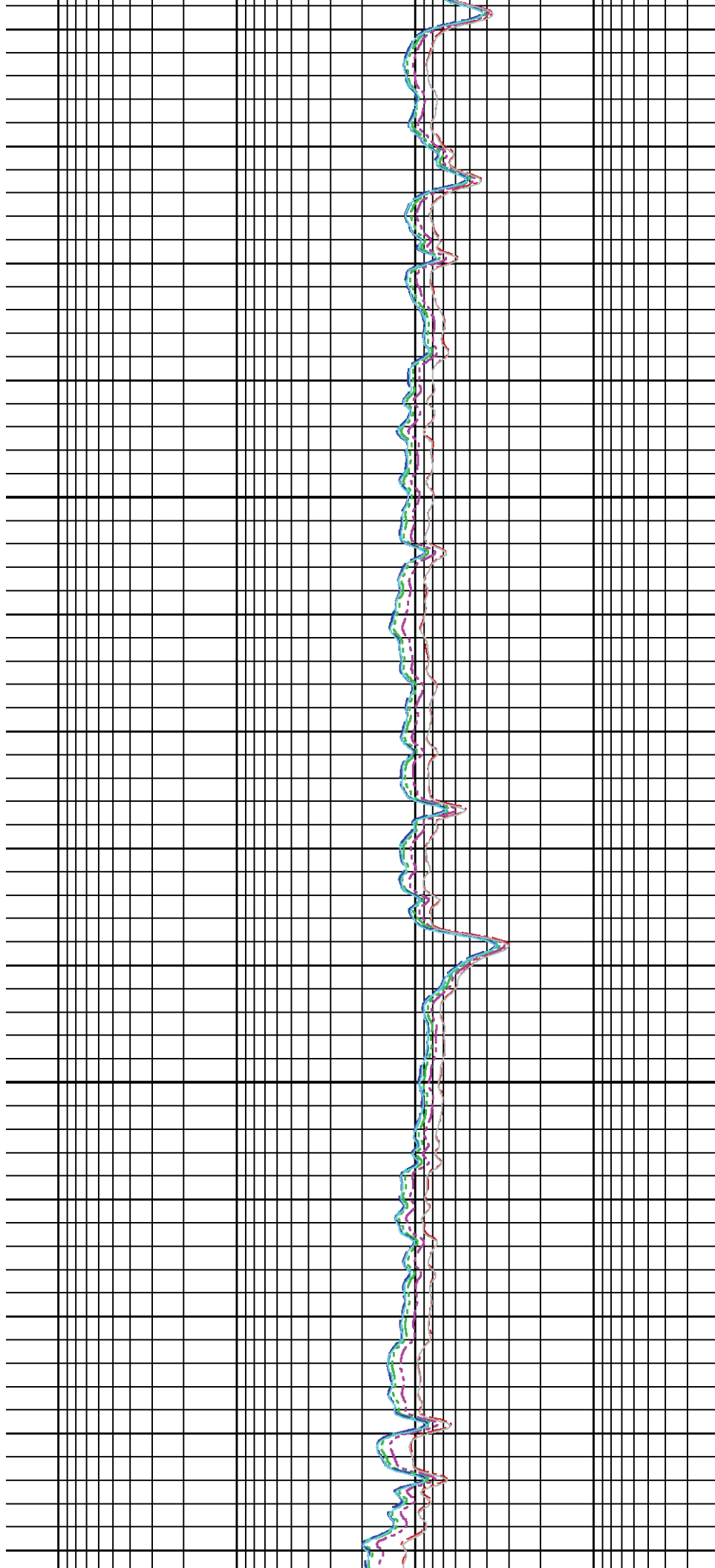
CURVE	BIT	CURVE	GR	CURVE	OFFSET1 (m)	CURVE	OFFSET1 (m)	CURVE	OFFSET1 (m)	CURVE	SP	OFFSET1 (m)
	0.00		33.76		0.84		0.84		0.84		0.38	
	5.52		M2R1		0.84		M2R6		0.84		TEN	0.00
	0.00		M2R2		0.84		M2R9		0.84			

Presentation : sysa:/data/MGM/run1_oh/thdlrpt.pdf [1:240 Scale]
Plot Interval : 250 - - 325 Meters

Data File 1 : f1 : sysa:/data/MGM/run1_oh/slamrpt.txt
Created On : Jan 29 20:52:41 2013
Company : MGM ENERGY CORP
Well : MGM SHELL EAST MACKAY I-78
Field : EAST MACKAY
File Interval : 187.147 - - 342.519 Meters
Oct : m980g

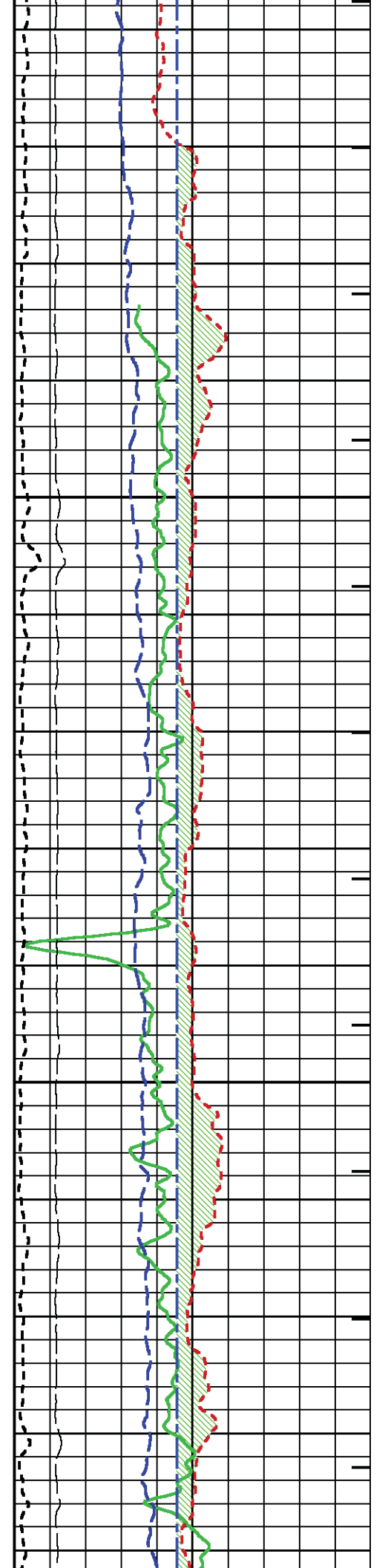
Data File 2 : f2 : sysa:/data/MGM/run1_oh/slam_maln.txt
Created On : Jan 29 21:27:27 2013
Company : MGM ENERGY CORP
Well : MGM SHELL EAST MACKAY I-78
Field : EAST MACKAY
File Interval : -38.481 - - 406.184 Meters
Oct : m980g





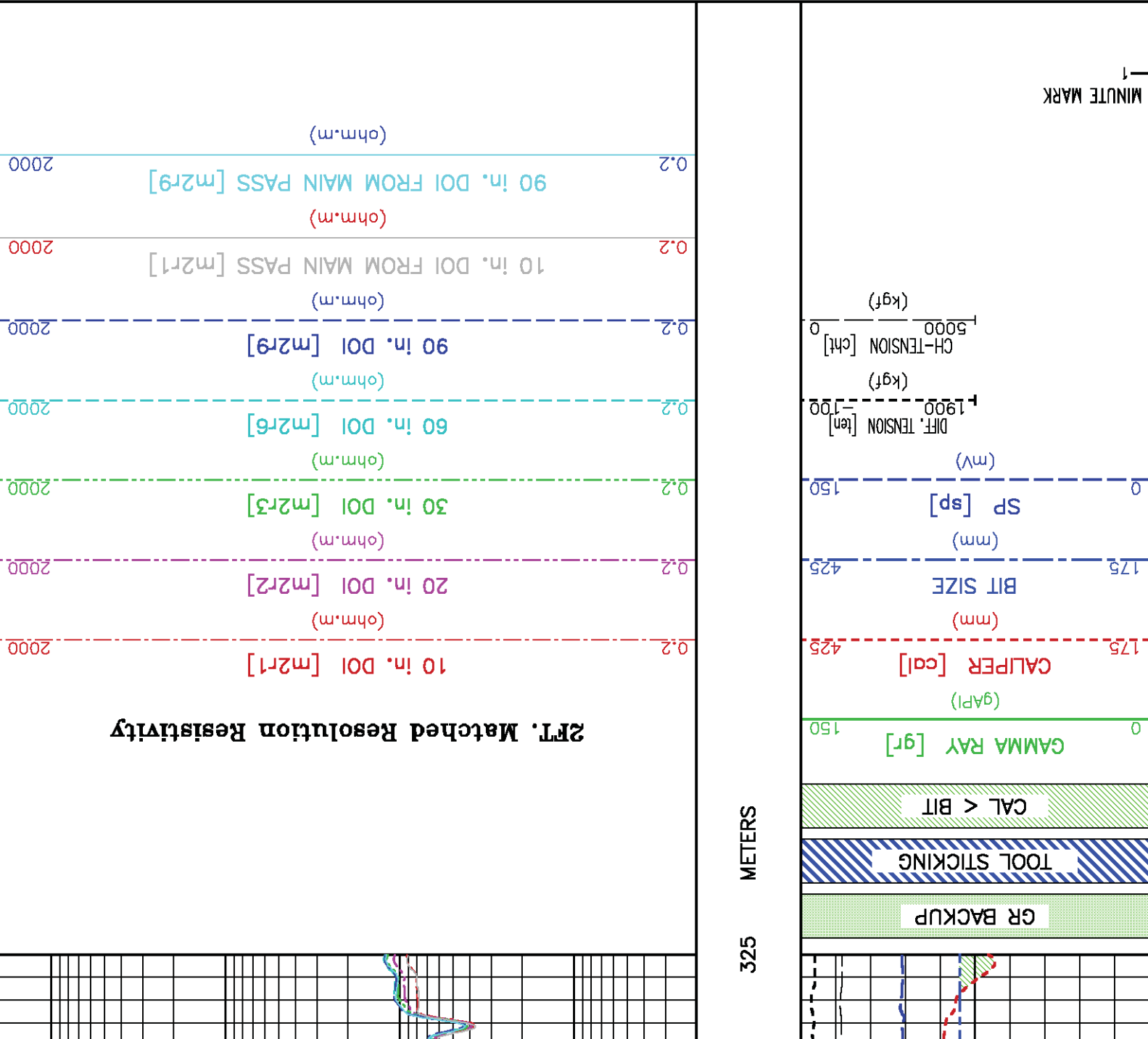
300

275



Source File: /data/MGM/run1_oh/m980g_cals.jp1

CALIBRATION / VERIFICATION SUMMARY



Signal Low Signal High Scale Mult Scale Add Engr Low Engr High CHT

50.00	560.75	1.96	-97.90	0.00	1000.00
(raw)	(raw)		(kgf)	(kgf)	(kgf)

GR PRIMARY CALIBRATION SUMMARY

TOOL #: 1329XA 10293862 DATE/TIME PERFORMED: Wed Jan 2 15:27:33 2013

UNIT #: 5753XB 10108816 CALB JIG #: 4702NK DA-479

BACKGROUND CALBTR ON CR DIFF MULT BACKGROUND CALBTR ON CALBTR

149.13	1025.69	876.6	0.171	25.52	175.52	150
(cts/s)	(cts/s)	(cts/s)		(gPI)	(gPI)	(gPI)

830.0 960.0

GR PRIMARY VERIFICATION SUMMARY

TOOL #: 1329XA 10293862 DATE/TIME PERFORMED: Wed Jan 2 15:30:55 2013

UNIT #: 5753XB 10108816 VERI JIG #: 4702NK DA-479

BACKGROUND CALBTR ON MULT BACKGROUND CALBTR ON DIFF.

145.09	1035.84	0.171	24.83	177.26	152.43
(cts/s)	(cts/s)		(gPI)	(gPI)	(gPI)

140.00 150.00

CAL PRIMARY CALIBRATION SUMMARY

TOOL #: 2223XA 10391896 DATE/TIME PERFORMED: Fri Jan 18 17:30:07 2013

UNIT #: S23 8672

SIZE VALUE MULTIPLIER ADD

SMALL RING (Arm) 177.800 1199.6

LARGE RING (Arm) 279.400 2200.0 0.10156 55.96938

PAD CLOSED

1723.2 0.06350 -109.42319

CAL BEFORE LOG VERIFICATION SUMMARY

TOOL #: 2223XA 10391896 DATE/TIME PERFORMED: Tue Jan 29 22:24:27 2013 DAYS SINCE CAL: 11

UNIT #: 3815SA 008672

TOOL # :	2223XA 10102923	DATE/TIME PERFORMED:	Tue Jan 29 22:24:24 2013	DAYS SINCE CAL:	11
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CAL[2] BEFORE LOG VERIFICATION SUMMARY

SIZE	VALUE	MULTIPLIER	ADD
SMALL RING (Arm)	177.800		
	1040.0		
LARGE RING (Arm)	279.400		
	2060.0		
		0.09961	74.20783
PAD CLOSED			
	1784.0		
		0.06350	-113.28400

UNIT #:	S23 8672
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TOOL # :	2223XA 10102923	DATE/TIME PERFORMED:	Fri Jan 18 18:11:06 2013
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CAL[2] PRIMARY CALIBRATION SUMMARY

MEASURED		ACTUAL	DIMETER (arm+pad)
313.9	321.2	311.000	
	300.8		

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	2401.2	0.10156	55.96938	299.8
PAD	1708.8	0.06350	-109.42319	-0.9

UNIT #: 38155A 008672

TOOL # :	2223XA 10391896	DATE/TIME PERFORMED :	Tue Jan 29 22:25:39 2013	DAYS SINCE CAL :	11
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CAL AFTER LOG VERIFICATION SUMMARY

MEASURED		ACTUAL		DIAMETER (arm+pad)	
(mm)		(mm)		(mm)	
314.0	300.8	311.000			

	VALUE	MULTIPLIER	ADD	SIZE (mm)
ARM	2402.4	0.10156	55.96938	300.0
PAD	1708.4	0.06350	-109.42319	-0.9

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Coil 3 R	ELEC. GAINS									
	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz		
Coil 3 R	0.0030	-0.0072	0.0028	-0.0004	-0.0004	0.0020	0.0020	-0.0012	-0.0040	0.1000
Coil 3 Q	-0.0038	-0.0027	0.0030	0.0005	0.0002	0.0013	0.0001	-0.0016	-0.1000	0.1000
Coil 4 R	-0.0380	0.0001	0.0056	-0.0069	0.0008	-0.0002	0.0030	-0.0033	-0.2000	0.2000
Coil 4 Q	0.0095	0.0076	0.0011	-0.0045	0.0033	-0.0015	-0.0057	0.0001	-0.2000	0.2000
Coil 5 R	-0.0949	-0.0102	0.0011	0.0031	-0.0017	0.0046	0.0131	-0.0087	-0.4000	0.4000
Coil 5 Q	0.0196	0.0146	0.0227	-0.0034	-0.0076	0.0054	0.0044	-0.0075	-0.4000	0.4000

Coil 0 M	AM Factor									
	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz		
Coil 0 M	161.24	159.90	157.17	153.12	147.73	141.04	133.17	123.98		
Coil 0 P	7.653	25.205	42.334	59.431	76.548	93.715	110.883	128.108		
Coil 1 M	283.01	280.47	275.36	267.77	257.78	245.49	231.11	214.57		
Coil 1 P	7.712	25.410	42.664	59.864	77.071	94.270	111.496	128.682		
Coil 2 M	571.86	566.67	556.16	540.76	520.61	495.72	466.91	433.66		
Coil 2 P	7.810	25.663	43.072	60.425	77.755	95.107	112.453	129.813		
Coil 3 M	928.30	919.66	902.11	876.20	842.46	800.98	752.74	697.61		
Coil 3 P	7.934	26.028	43.686	61.276	78.835	96.396	113.972	131.521		
Coil 4 M	1448.5	1435.5	1409.4	1371.0	1320.8	1259.3	1188.0	1107.8		
Coil 4 P	7.838	25.730	43.189	60.587	77.981	95.375	112.787	130.196		
Coil 5 M	2951.6	2924.6	2869.4	2787.5	2681.9	2552.7	2404.0	2238.3		
Coil 5 P	7.980	26.148	43.889	61.558	79.212	96.848	114.481	132.078		

Coil 0 R	AM Factor									
	10 KHz	30 KHz	50 KHz	70 KHz	90 KHz	110 KHz	130 KHz	150 KHz		
Coil 0 R	-1089	-633	-499	-429	-380	-343	-318	-296		
Coil 0 Q	-812	-589	-484	-436	-410	-395	-388	-383		
Coil 1 R	-113	-126	-120	-114	-107	-100	-94	-90		
Coil 1 Q	-262	-123	-95	-85	-81	-79	-78	-76		
Coil 2 R	7.0	-28.7	-32.2	-31.0	-29.3	-27.3	-25.5	-23.4		
Coil 2 Q	-47.7	-13.0	-9.4	-8.5	-7.3	-6.4	-4.4	-2.5		
Coil 3 R	3.4	-8.9	-10.2	-9.4	-9.6	-9.0	-8.2	-8.1		

HDIL BEFORE LOG VERIFICATION SUMMARY									
TOOL #: 1530XA 10125755									
DATE/TIME PERFORMED: Tue Jan 29 19:45:27 2013									
DAYS SINCE CAL: 11									
UNIT #: 3815SA 008672									
ZERO DATA(mV)									
Coil 0 R		0.005	-0.006	-0.002	0.001	-0.001	0.000	-0.000	0.001
		-0.200	0.200	-0.100	0.100	-0.100	0.100	-0.100	0.100
		10 KHZ	30 KHZ	50 KHZ	70 KHZ	90 KHZ	110 KHZ	130 KHZ	150 KHZ
PARMS									
		TCID 0		TCID 1		Cal Temp		T Factor	
		2.610		0.758		16.0		1.00	
		IDs				(degC)			
Coil 0 M		0.986	0.991	0.994	0.995	0.996	0.995	0.996	0.995
		0.850	1.100	0.860	1.100	0.870	1.100	0.880	1.100
Coil 0 P		-0.224	-0.271	-0.179	-0.098	-0.033	0.008	0.017	0.063
		-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
Coil 1 M		0.974	0.981	0.984	0.985	0.985	0.985	0.986	0.985
		0.850	1.100	0.860	1.100	0.870	1.100	0.880	1.100
Coil 1 P		-0.217	-0.326	-0.221	-0.134	-0.045	-0.014	0.018	0.050
		-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
Coil 2 M		0.999	0.999	1.000	1.000	1.001	1.000	1.001	1.000
		0.890	1.100	0.890	1.100	0.890	1.100	0.890	1.100
Coil 2 P		-0.020	-0.058	-0.063	-0.060	-0.063	-0.041	-0.031	-0.002
		-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
Coil 3 M		1.007	1.008	1.009	1.009	1.009	1.009	1.008	1.007
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 3 P		0.011	-0.018	-0.015	0.007	0.018	0.049	0.115	0.143
		-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
Coil 4 M		1.001	1.002	1.003	1.003	1.004	1.003	1.004	1.005
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 4 P		-0.017	-0.058	-0.062	-0.058	-0.022	0.002	0.021	0.030
		-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500
Coil 5 M		0.997	0.997	0.997	0.997	0.998	0.998	0.999	1.000
		0.900	1.100	0.900	1.100	0.900	1.100	0.900	1.100
Coil 5 P		-0.036	-0.046	-0.055	-0.065	-0.026	0.066	0.033	0.026
		-1.500	1.500	-1.500	1.500	-1.500	1.500	-1.500	1.500

HDIL AFTER LOG VERIFICATION SUMMARY

Coil 5 P	7.919	26.141	43.891	61.577	79.243	96.888	114.535	132.164
Coil 5 M	2951.9	2925.0	2869.6	2788.6	2682.7	2554.1	2403.9	2239.7
Coil 4 P	7.774	25.724	43.200	60.613	78.017	95.447	112.879	130.306
Coil 4 M	1449.3	1436.4	1410.2	1371.8	1321.7	1260.4	1188.8	1108.5
Coil 3 P	7.861	26.024	43.695	61.298	78.887	96.471	114.062	131.630
Coil 3 M	928.15	919.53	901.90	876.12	842.31	801.11	752.98	697.47
Coil 2 P	7.730	25.652	43.087	60.452	77.814	95.170	112.548	129.909
Coil 2 M	571.26	566.06	555.56	540.18	520.02	495.39	466.43	433.30
Coil 1 P	7.655	25.412	42.689	59.912	77.128	94.358	111.599	128.832
Coil 1 M	283.08	280.54	275.39	267.80	257.83	245.63	231.21	214.66
Coil 0 P	7.585	25.203	42.353	59.467	76.606	93.789	110.999	128.217
Coil 0 M	161.04	159.71	156.98	152.93	147.56	140.94	133.03	123.94

ELEC. GAINS 10 KHZ 30 KHZ 50 KHZ 70 KHZ 90 KHZ 110 KHZ 130 KHZ 150 KHZ

Coil 5 Q	-0.009	0.005	0.012	0.003	-0.005	0.006	0.002	-0.012
Coil 5 R	-0.089	-0.009	0.010	0.007	0.003	0.007	-0.005	-0.002
Coil 4 Q	0.006	0.007	-0.002	-0.005	0.003	-0.004	0.002	-0.002
Coil 4 R	-0.030	-0.003	0.003	-0.007	-0.004	-0.007	-0.001	0.002
Coil 3 Q	-0.006	-0.003	-0.003	-0.004	0.002	0.001	0.002	-0.005
Coil 3 R	0.001	-0.006	-0.000	-0.000	-0.000	-0.000	0.001	-0.003
Coil 2 Q	-0.002	0.000	0.001	-0.000	0.001	-0.001	-0.001	-0.002
Coil 2 R	0.004	-0.001	0.001	-0.001	0.002	-0.000	-0.004	-0.003
Coil 1 Q	-0.017	0.001	-0.000	0.001	-0.000	0.000	-0.000	0.001
Coil 1 R	-0.006	0.001	-0.001	0.001	-0.000	0.000	0.001	0.001

ZERO DATA(mV)										ELEC. GAINS																													
10 KHz					30 KHz					50 KHz					70 KHz					90 KHz					110 KHz					130 KHz					150 KHz				
Coil 0 R	0.005	-0.002	-0.001	0.059	0.000	0.000	0.000	0.002	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000											
Coil 0 Q	-0.005	-0.002	0.001	-0.029	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000											
Coil 1 R	-0.005	0.001	-0.004	0.051	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000											
Coil 1 Q	-0.017	0.001	-0.009	0.101	0.001	0.002	-0.029	0.031	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001											
Coil 2 R	0.001	0.002	-0.001	0.029	0.001	0.000	-0.031	0.029	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001											
Coil 2 Q	-0.001	-0.002	0.000	-0.100	0.000	0.000	-0.029	0.031	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000											
Coil 3 R	0.006	-0.003	0.004	-0.040	0.004	-0.000	-0.040	0.040	-0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001											
Coil 3 Q	-0.002	-0.001	0.002	-0.043	0.037	-0.005	-0.044	0.036	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002											
Coil 4 R	-0.041	0.001	-0.001	-0.057	0.053	0.007	-0.067	0.053	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002											
Coil 4 Q	0.011	0.009	0.009	-0.062	0.058	-0.009	-0.065	0.055	-0.006	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004											
Coil 5 R	-0.087	-0.005	0.009	-0.110	0.130	-0.009	-0.113	0.127	-0.009	-0.000	-0.000	-0.013	0.127	-0.009	-0.003	-0.003	-0.013	0.127	-0.008	-0.003	-0.003	-0.013	0.127	-0.008	-0.003	-0.003	-0.013	0.127											
Coil 5 Q	0.002	0.009	0.004	-0.108	0.132	0.004	-0.117	0.123	0.004	-0.008	-0.008	-0.115	0.123	-0.008	-0.002	-0.002	-0.114	0.126	-0.002	-0.001	-0.001	-0.118	0.122	-0.001	-0.001	-0.001	-0.013	0.108											

161.07	159.73	157.01	152.94	147.57	140.92	133.01	123.87	Coil 0 M
7.611	25.208	42.357	59.469	76.609	93.784	110.985	128.171	Coil 0 P
283.03	280.48	275.36	267.75	257.80	245.55	231.04	214.46	Coil 1 M
7.679	25.418	42.690	59.908	77.123	94.361	111.582	128.786	Coil 1 P
571.34	566.15	555.66	540.23	520.14	495.44	466.42	433.20	Coil 2 M
7.759	25.660	43.090	60.458	77.806	95.164	112.531	129.868	Coil 2 P
928.05	919.37	901.77	876.12	842.15	800.88	752.54	697.35	Coil 3 M
7.888	26.028	43.697	61.305	78.882	96.460	114.046	131.587	Coil 3 P
1449.1	1436.2	1410.0	1371.8	1321.3	1260.1	1188.3	1107.6	Coil 4 M
7.800	25.731	43.203	60.615	78.024	95.444	112.872	130.238	Coil 4 P
2951.7	2924.7	2869.5	2787.7	2682.2	2553.5	2402.9	2237.8	Coil 5 M
7.944	26.149	43.900	61.586	79.245	96.920	114.549	132.139	Coil 5 P



COMPANY		MGM ENERGY CORP	
WELL		MGM SHELL EAST MACKAY I-78	
FIELD		EAST MACKAY	
PROVINCE		NORTHWEST TERRITORIES	
LOCATION:	ELEVATIONS:		
	KB	161.2 M	
	DF		
	GL	155.00 M	
DATE		29-JAN-2013	
LAT		64.795	
LONG		-125.722	
FILE NO:	LICENSE:		
API NO:	1202		