

TRANSMITTAL

Date: May 27, 2015

NATIONAL ENERGY BOARD
517 10th Avenue SW
Calgary, Alberta
T2R 0A8

Attention: Garry Woo

Please find enclosed:

MGM Energy Corp

Licence: 1202

MGM Shell East MacKay I-78 – Northwest Territories

UID: 3001786450125 30

Baker Hughes

1 CD with 2 paper copies included:

- Magnetic Resonance Explorer Log 2D Analysis vs Core Data
- Rockview Analysis vs Core Data

MAIL ROOM
SALLE DE COURIER
2015 MAY 28 P 9:44
NEB/ONE

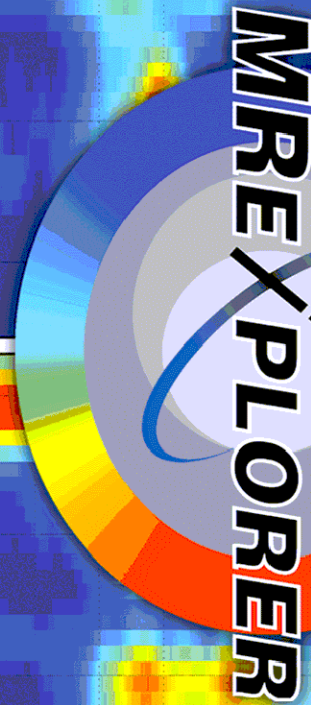
Received by: _____

Date: _____

**Please acknowledge receipt of the above information by signing and returning this form to
Maureen.Barker@paramountres.com.**

MIREX

Formation Evaluation



MAGNETIC RESONANCE EXPLORER LOG 2D ANALYSIS VS CORE DATA

COMPANY MGM ENERGY CORP

WELL MGM SHELL EAST MACKAY I-78

FIELD EAST MACKAY

PROVINCE NORTHWEST TERRITORIES

LOCATION: UID 3001786450125 30

LAT 64.795 N LONG 125.722 W

ELEVATIONS:

KB 161.20 M DF GL 155.00 M

DATE 19-FEB-2013 ECC CA215446

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES 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
<u>311.0 MM</u>	<u>0.0 M</u>	<u>401.8 M</u>
<u>222.0 MM</u>	<u>401.8 M</u>	<u>2001.0 M</u>

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
<u>244.5 MM</u>	<u>59.5 KG/M</u>	<u>NA</u>	<u>0.0 M</u>	<u>401.8 M</u>

REMARKS

TIME STOPPED CIRCULATION: 18-FEB-2013 01:30 PM.

CORRELATED TO BAKER HUGHES WIRELINE 29-JAN-2013.

MREX DATA RECORDED IN POROPERM + LIGHT OIL ACQUISITION MODE.

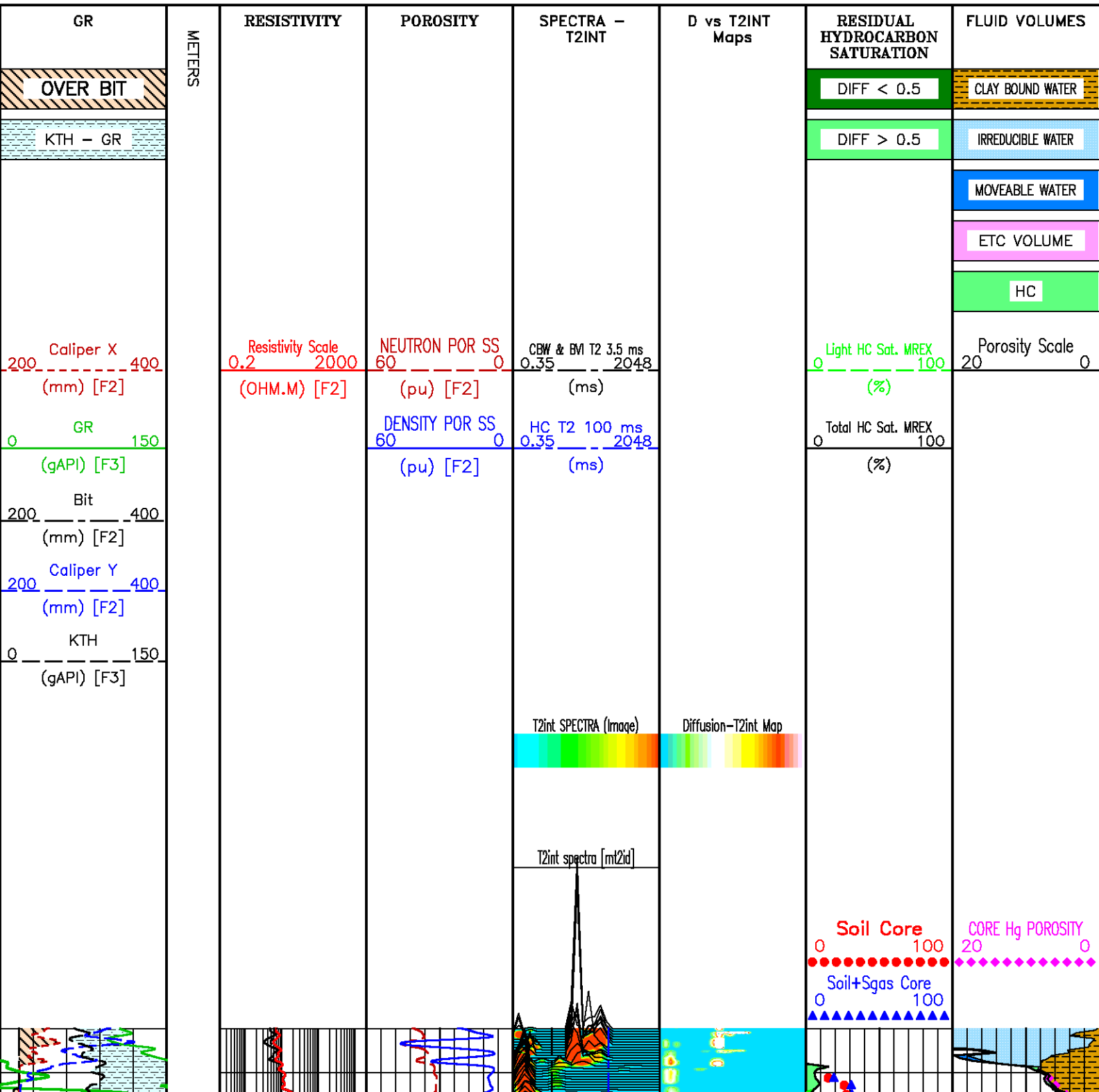
MUD TYPE WATER BASED GELCHEM 1130 G/L.

T2 CUTOFFS USED CBW: 1.3MS, BVI 3.5 MSEC, HC 3.5MS - 100MS
BASIC PROCESSING IS ALSO DONE WITH CBW 3.5MS AND BVI 33MS.

2D HC SATURATION ANALYSIS:
HYDROCARBON IS MARKED BETWEEN T2INTR RANGE 3.5MS - 100MS.
THIS RANGE IS FURTHER SUBDIVIDED INTO DIFFUSIVITY > 0.5 (LIGHT OIL)
AND D < 0.5 (HEAVIER OIL).

** THE T2 AND DIFFUSIVITY RANGES FOR UNCONVENTIONAL SHALE-OIL IS STILL AN AREA OF RESEARCH. THESE VALUES MAY NEED REVISION AS INTERPRETATION MODELS ARE DEVELOPPED.
MREX DATA PRESENTED WITH CORE DATA ON THE LOGS.
THE PRESENT MODEL SHOWS A REASONABLE AGREEMENT BETWEEN CORE DATA AND MREX DATA.

MREX 2D SATURATION ANALYSIS VS CORE SATURATION







COMPANY	MGM ENERGY CORP	FILE NO:	
WELL	MGM SHELL EAST MACKAY I-78		
FIELD	EAST MACKAY	API NO:	
PROVINCE	NORTHWEST TERRITORIES		
LOCATION:		ELEVATIONS:	
UID 3001786450125 30		KB 161.20 M	
		DF	LICENSE
		GL 155.00 M	1202
LAT 64.795 N	LONG 125.722 W	DATE	19-FEB-2013

FLEX

Rockview Analysis VS Core Data

COMPANY MGM ENERGY CORP
WELL MGM SHELL EAST MACKAY I-78
FIELD EAST MACKAY
PROVINCE NORTHWEST TERRITORIES
LOCATION: UID 3001786450125 30
ELEVATIONS:
KB 161.20 M **DF** GL 155.00 M
DATE 19-FEB-2013 **ECC** CA215446
SEC _____ **TWP** _____ **RGE** _____

IN MAKING INTERPRETATIONS OF LOGS OUR EMPLOYEES WILL GIVE CUSTOMER THE BENEFIT OF THEIR BEST JUDGEMENT. BUT SINCE ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES 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	0.0 M	401.8 M
222.0 MM	401.8 M	2001.0 M

CASING RECORD

SIZE	WEIGHT	GRADE	FROM	TO
244.5 MM	59.5 KG/M	NA	0.0 M	401.8 M

REMARKS

TIME STOPPED CIRCULATION: 18-FEB-2013 01:30 PM.

CORRELATED TO BAKER HUGHES WIRELINE 29-JAN-2013.

MUD TYPE WATER BASED GELCHEM 1130 G/L.

FLEX DATA PRESENTED WITH CORE DATA ON THE LOGS.
A GOOD AGREEMENT IS SEEN BETWEEN CORE DATA AND FLEX DATA.

MATRIX DENSITY IS BASED ON DEFAULT GRAIN DENSITY VALUES USED FOR MINERALS IN THE MODEL. KEROGEN DENSITY USED 1.2 G/CC.

Rockview Analysis Vs Core Data Results. 1:240

Created by : Post Acquisition Tool Suite (PATS), v6.4.2.4

Plotted by : BHI PATS Well Log Data Viewer, v6.4.2.4



Company : MGM ENERGY CORP

Well : MGM SHELL EAST MACKAY I-78

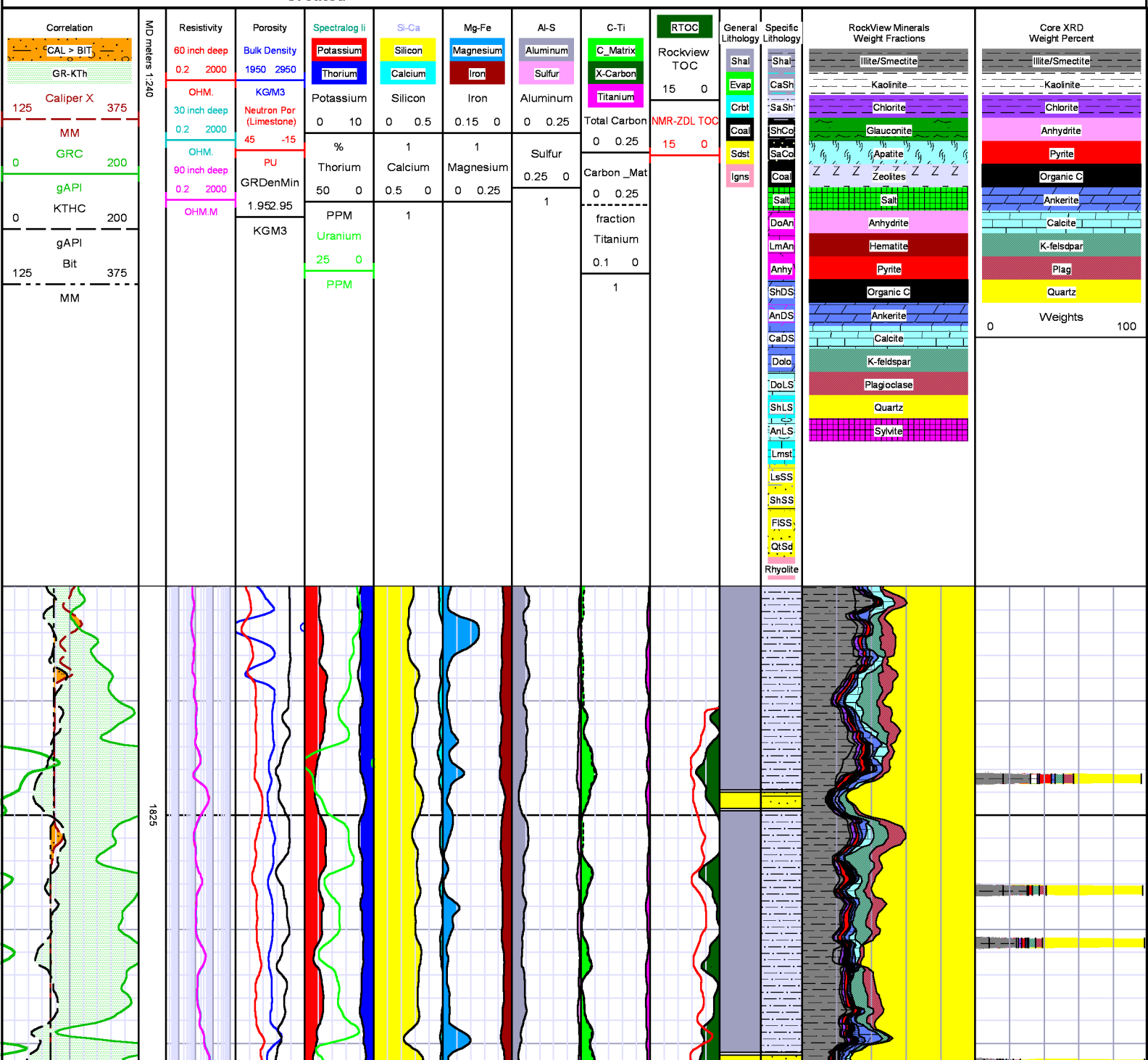
File Name : D:\Ape_Projects\mgm_215446_salurations_glider\lrd_onddepth_2.xtf

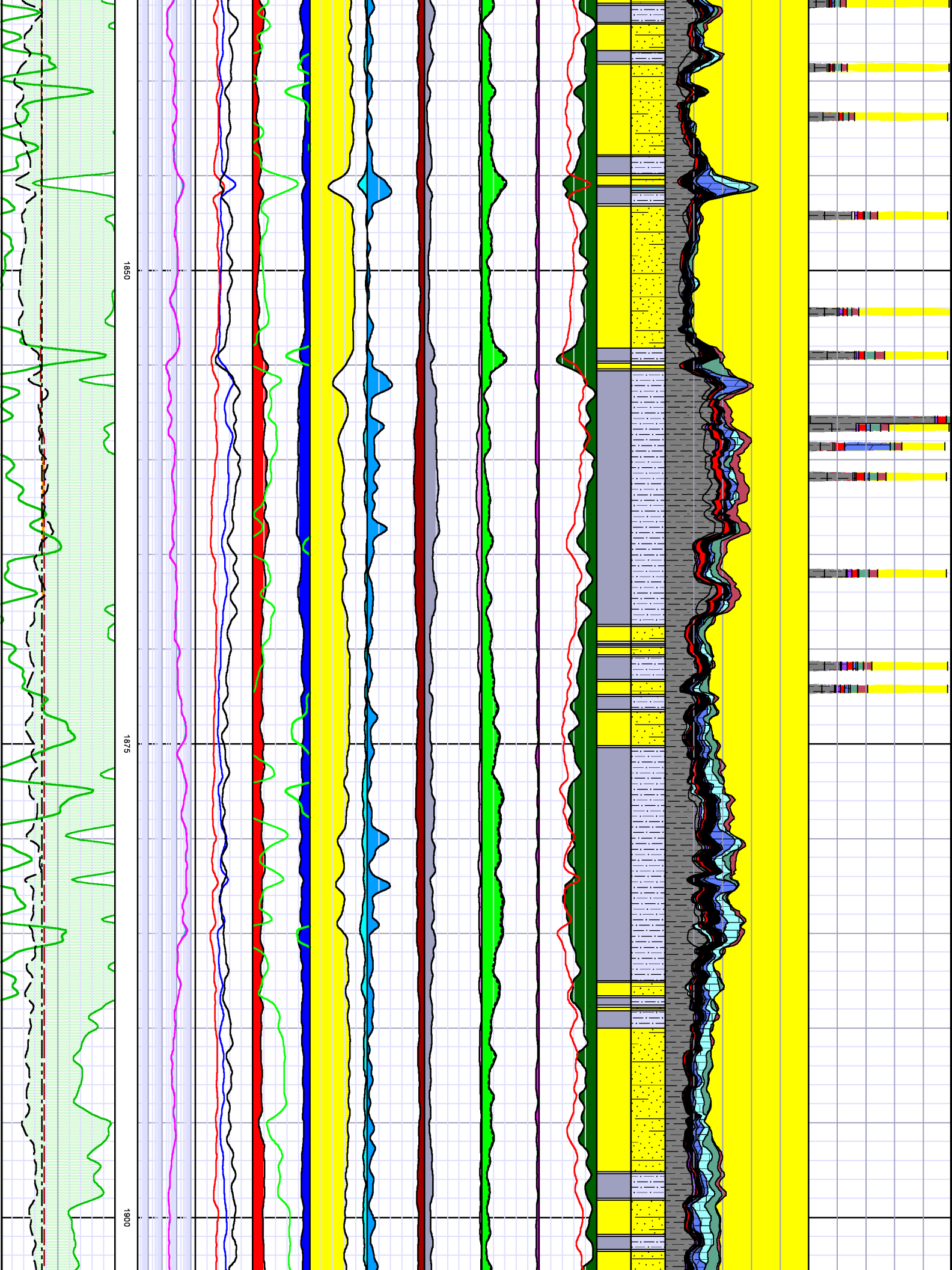
Mode : Log Viewer

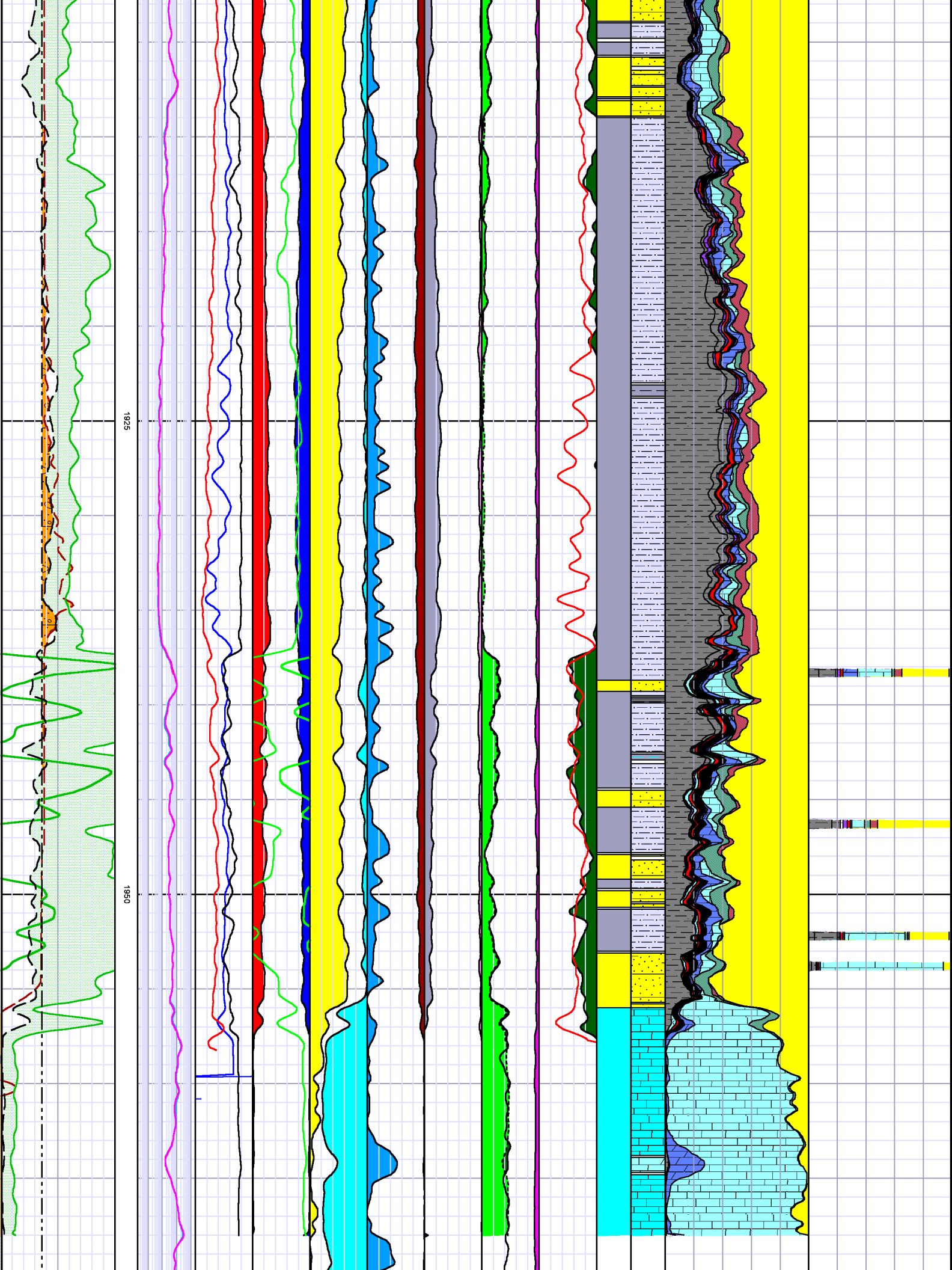
Interval : 1815.00 - 1970.00 meters UP

Created : 2/19/2013 10:01:49 AM

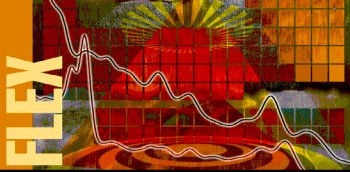
Baker Atlas







Correlation CAL > BIT GR-KTh 125 Caliper X 375 MM GRC 200 gAPI KTHC 200 gAPI Bit 375 MM	MD meters 1240	Resistivity 60 inch deep 0.2 2000 OHM. 30 inch deep 0.2 2000 OHM. 90 inch deep 0.2 2000 OHM.M	Porosity Bulk Density 1950 2950 KGM3 Neutron Por (Limestone) 45 -15 PU GRDenMin 1.952.95 KGM3	Spectralog li Potassium Thorium Potassium 0 10 % Thorium 50 0 PPM Uranium 25 0 PPM	Si-Ca Silicon Calcium Silicon 0 0.5 1 Calcium 0.5 0 1	Mg-Fe Magnesium Iron Iron 0.15 0 1 Magnesium 0 0.25 1	Al-S Aluminum Sulfur Aluminum 0 0.25 Sulfur 0.25 0 1	C-Ti C_Matrix X-Carbon Titanium Total Carbon 0 0.25 Carbon_Mat 0 0.25 fraction Titanium 0.1 0 1	RTOC Rockview TOC 15 0 NMR-ZDL TOC 15 0	General Lithology Shal Evap Crbt Coal Sdst Igns	Specific Lithology Shal CaSh SaSh ShCo SaCo Coal Salt DoAn LmAn Anhy ShDS AnDS CaDS Dolo DoLS ShLS AnLS Lmst LSSS ShSS FISS QtSd Rhyolite	RockView Minerals Weight Fractions Illite/Smectite Kaolinite Chlorite Glaucinite Apatite Zeolites Salt Anhydrite Hematite Pyrite Organic C Ankerite Calcite K-feldspar Plagioclase Quartz Sylvite	Core XRD Weight Percent Illite/Smectite Kaolinite Chlorite Anhydrite Pyrite Organic C Ankerite Calcite K-feldspar Plag Quartz Weights 0 100

 BAKER HUGHES 	COMPANY MGM ENERGY CORP		FILE NO:
	WELL MGM SHELL EAST MACKAY I-78		
	FIELD EAST MACKAY		API NO:
	PROVINCE NORTHWEST TERRITORIES		
LOCATION: UID 3001786450125 30		ELEVATIONS: KB 161.20 M DF GL 155.00 M	LICENSE 1202
SEC _____ TWP _____ RGE _____		DATE 19-FEB-2013	

Baker Atlas Verification Listing Created: 02/21/13 14:21:44
Input File = MGM_I-78_MREX_BASIC_CBW3.3ms_BVI33ms.dls

Storage Unit Label

Storage Unit Sequence: 1 DLIS Version: V1.00
Storage Unit Structure: RECORD Maximum Record Length: 8192
Storage Set ID: DLIS ATLAS 1

File Header File: 00001_BASICDLS33 Sequence: 1

Defining Origin: 0,0,DEFINING_ORIGIN

File Id: 00001_BASICDLS33

File Type: EXCHANGE

Producer Name: ATLAS Product: WFM/eclips Version: Access-5.44 File Set: BAKERH File Number: 1

Creation-Time: 113 0 2 21 14 16 13 55297

Company Name: MGM ENERGY CORP

Well Name: MGM SHELL EAST MACKAY I-78

Field Name: EAST MACKAY

Channels

Spacing: 0.076200 m Number of Channels: 25
1,0,TDEP 1,0,GRSLC 1,0,KTHC 1,0,MBVIC 1,0,MBVMC
1,0,MCBWC 1,0,MCHIC 1,0,MPERMC 1,0,MPHEC 1,0,MPHSC
1,0,MPOC01 1,0,MPOC02 1,0,MPOC03 1,0,MPOC04 1,0,MPOC05
1,0,MPOC06 1,0,MPOC07 1,0,MPOC08 1,0,MPOC09 1,0,MPOC10
1,0,MPOC11 1,0,MPOC12 1,0,MPOC13 1,0,MTPORC 1,0,T2GMPN1

Frame Summary

Index Type Start Stop Spacing Channels Index Channel Frame Name
BOREHOLE-DEPTH 1379.98206 1979.98086 0.076200 m 25 1,0,TDEP
1,0,0_076200B0

~Curve Information Section

#MNEM .UNIT API CODE CURVE DESCRIPTION

#---- .---- LG--CV-CL--M -----

depth .M 0 1 0 0 :1 Depth

GRSLC .GAPI 99 995 99 1 :2 Gamma Ray

KTHC .GAPI 99 995 99 1 :3 Potassium-Thorium GR

MBVIC .p.u. 30 310 1 1 :4 MR bulk volume irreducible

MBVMC .p.u. 30 310 1 1 :5 MR bulk volume moveable

MCBWC .p.u. 30 310 1 1 :6 MR clay bound porosity

MCHIC .p.u. 30 310 1 1 :7 MR Goodness of fit of each data packet

MPERMC.MD 30 310 1 1 :8 MR permeability

MPHEC .p.u. 30 310 1 1 :9 MR effective porosity

MPHSC .p.u. 30 310 1 1 :10 MR total porosity

MPOC01.p.u. 99 995 99 1 :11 Partial porosity bin

MPOC02.p.u. 99 995 99 1 :12 Partial porosity bin

MPOC03.p.u. 99 995 99 1 :13 Partial porosity bin

MPOC04.p.u.	99 995 99 1	:14 Partial porosity bin
MPOC05.p.u.	99 995 99 1	:15 Partial porosity bin
MPOC06.p.u.	99 995 99 1	:16 Partial porosity bin
MPOC07.p.u.	99 995 99 1	:17 Partial porosity bin
MPOC08.p.u.	99 995 99 1	:18 Partial porosity bin
MPOC09.p.u.	99 995 99 1	:19 Partial porosity bin
MPOC10.p.u.	99 995 99 1	:20 Partial porosity bin
MPOC11.p.u.	99 995 99 1	:21 Partial porosity bin
MPOC12.p.u.	99 995 99 1	:22 Partial porosity bin
MPOC13.p.u.	99 995 99 1	:23 Partial porosity bin
T2GMPN1.PU	99 995 99 1	:24 T2app Geometric Mean
MTPORC	99 995 99 1	:25 T2app Spectrum