HALLIBURTON

ELECTRIC MICRO IMAGER
SHIVA PROCESSED
5"=100'

COMPANY	**METHANE ENERGY**
WELL	**"BEAVER HILL COREHOLE"**
FIELD	**WILDCAT**
COUNTY	**COOS COUNTY**
STATE	**OR**

Location: 1047' FSL
2175' FWL

Elevations: K.B.: 328.5 R.T.: ------ G.L.: 319.0'

Date Processed	04-22-2005	Logs Processed	EMIT-A
Job Number	3655137	Date Logged	04-22-2005
Interval Processed	4462'-500'	Type Fluid In Hole	GEL/WATER
Processed By	G. ROUSSEAU	Location	WDLD
Processed At	WELLSITE		

--- COMPUTER PROCESSED PRODUCT ---

Fold Here

Service Ticket No.:	3655137	**API Serial No.:**	NA	**PGM Version:**	XL v5.0

DIRECTIONAL INFORMATION

Maximum Deviation		**deg. @**		**KOP**	

Remarks:

HOLE VOLUMES CALCULATED FOR 7.00" CASING.
EMIT-NGRT RUN IN COMBINATION.
BIT SIZE: 8.750" 456.0'-3833.0', 7.875" 3833'-4476'.

CREW: D. ROSENSTEEL, D. BRIGHT, K. CHAN, RIG: TAYLOR NO. 7.

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

HALLIBURTON

SHIVA COMPUTATION PARAMETERS

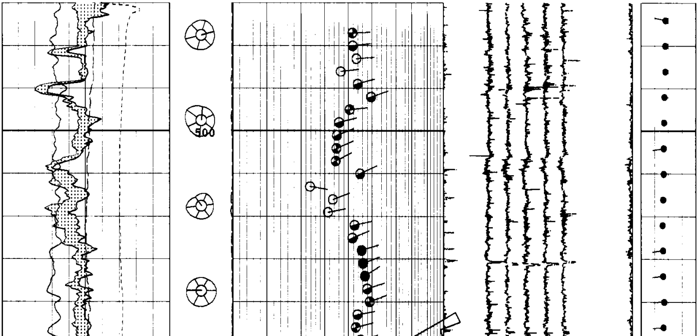
COMPANY NAME : METHANE ENERGY
WELL NAME : BEAVER HILL COREHOLE
FIELD NAME : WILDCAT
COUNTRY : USA

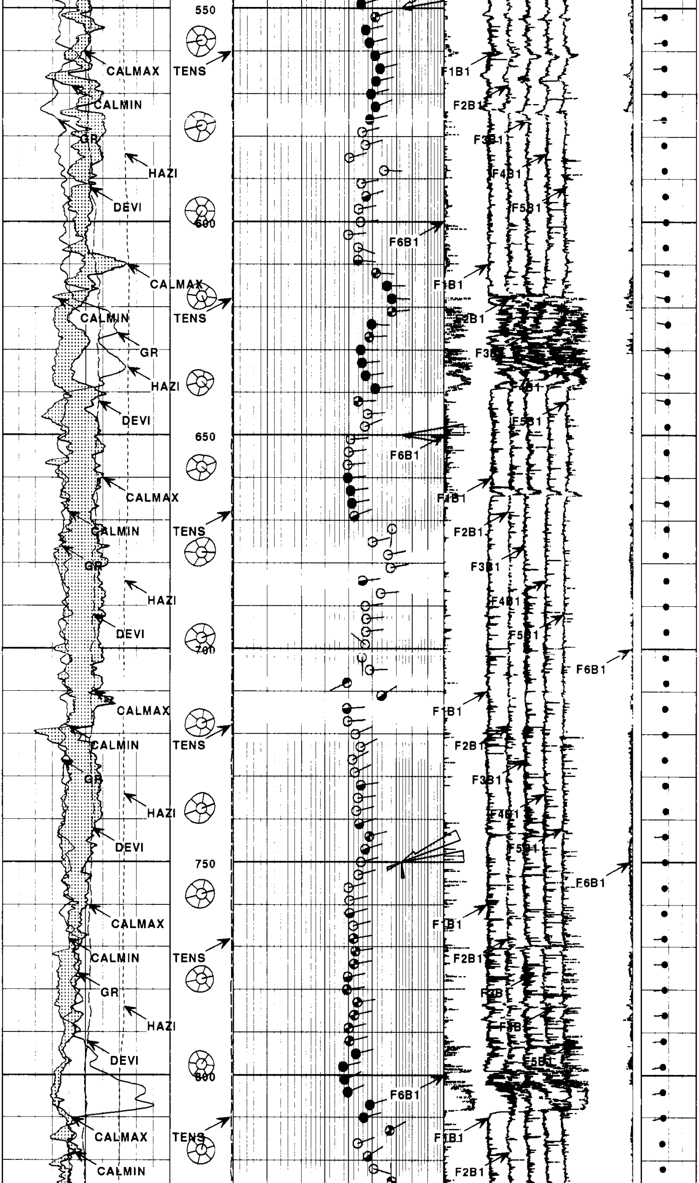
Horizontal Reference Plane		Tool type	WBM
Shift Search Angle	75.0	Output selected by N Lines then Quality	
Correlation Interval	9.000 f	Number of Maxima	3
Correlation Step	3.000 f	Peak Fraction	.90
Dip Cutoff Angle	60.0	Number of Triangles Searched	20
Closure Cutoff Angle	1.0	Plotted dip quality range	A-E
Planarity Cutoff Angle	3.0	Depth of Investigation	.90
Declination	19.0	Mirror Dip Rejection	No

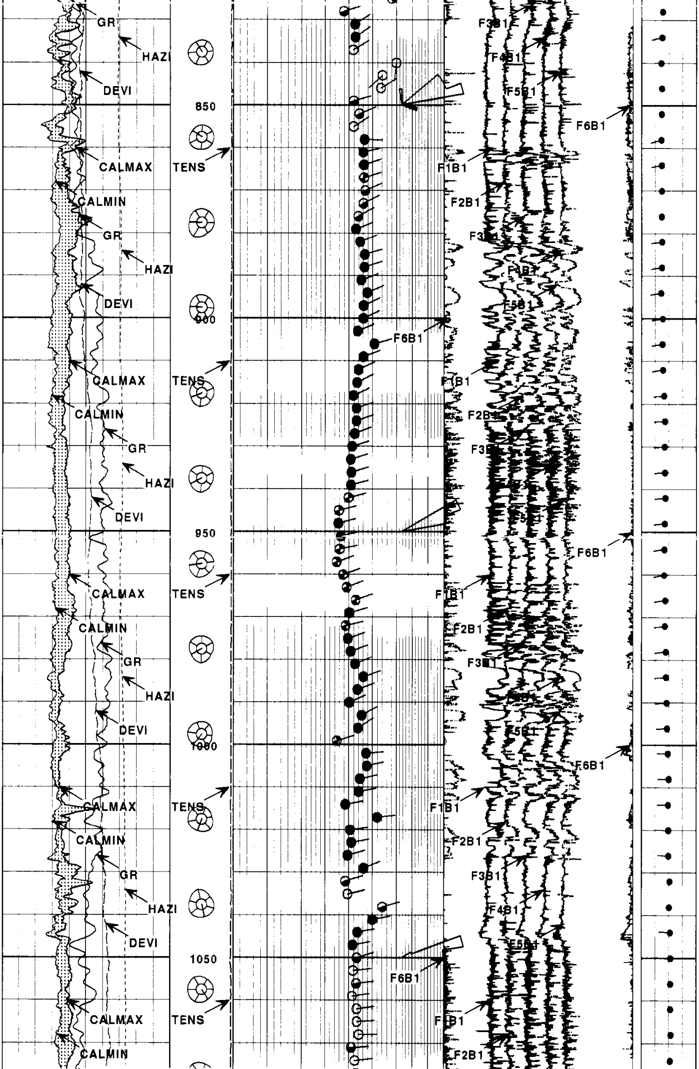
HALLIBURTON
EXCELL

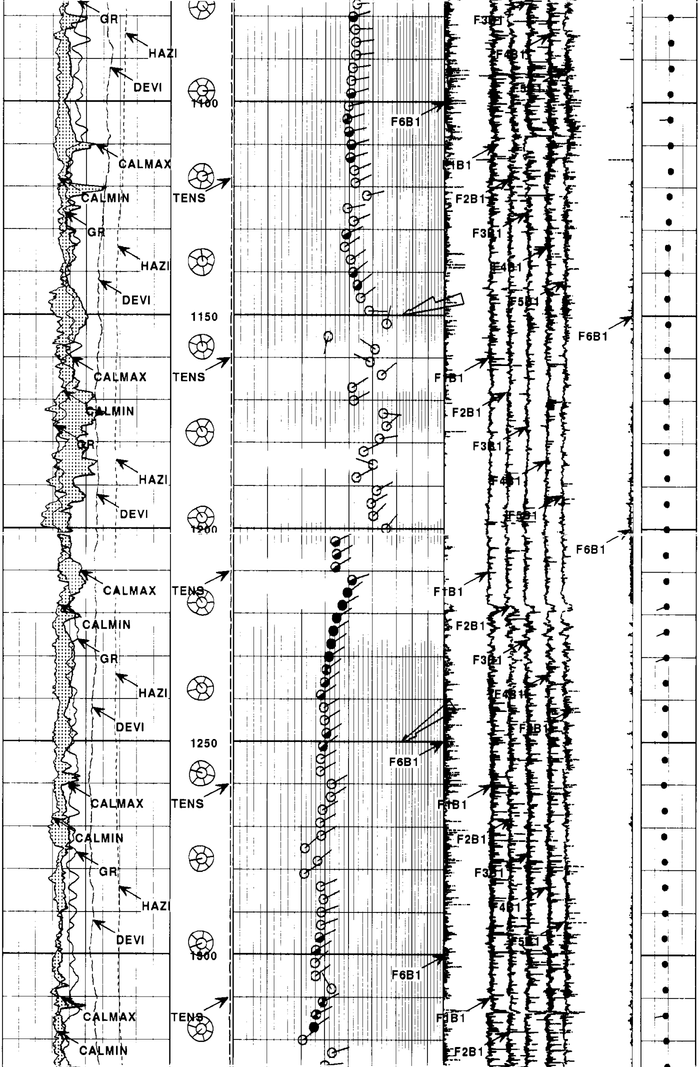
Version No: 5.6 | hc:3.0
Data File: 0422_0430_s3373.2.cls
Format File: shiva5_f1b1_greg.spc
Plot Time: 2005-04-22 09:03:15
Log Time: 2005-04-22 05:45:51
Top Depth: 470.00
Bottom Depth: 4469.75

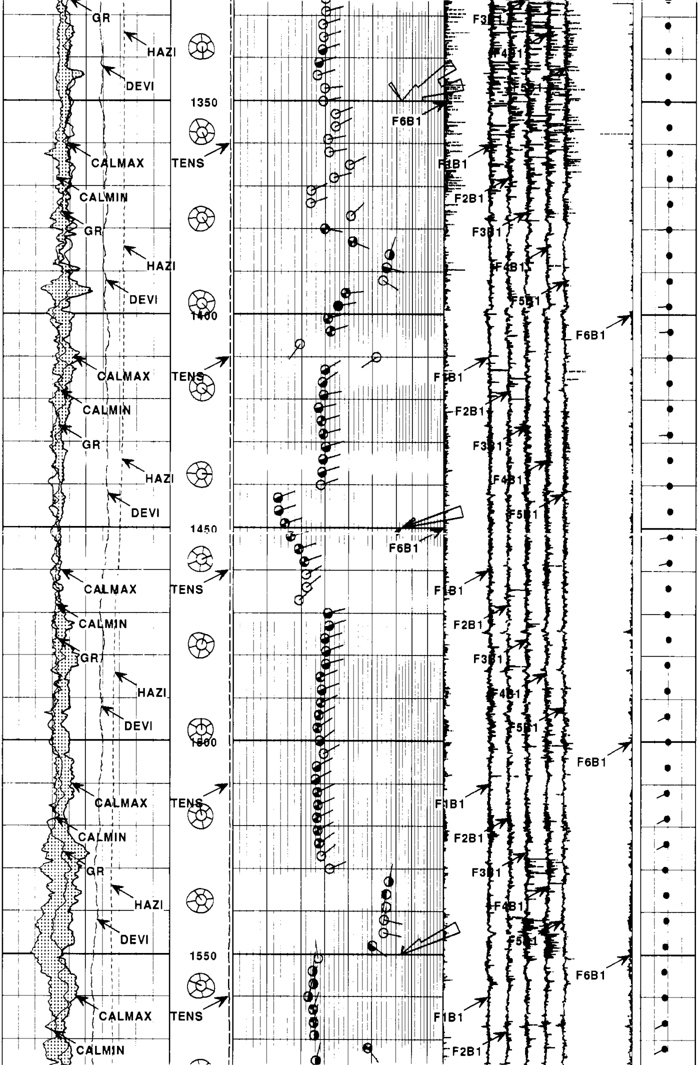
GAMMA RAY CALIPERS	BH X-SECTION	SHIVA DIPS	RAW SP-CORR RES. CURVES	DEVIATIO
CALMAX 6 INCHES 16	AZI1 0 360	DIP 0 DEG 90	F1B1 1000 -1000	DRIFT 0 DEG 10
CALMIN 6 INCHES 16	TENS 10000 1000		F2B1 1200 -800	
GR 0 API 150	1:240 FT.		F3B1 1400 -600	
HAZI -40 DEGREES 360			F4B1 1600 -400	
DEVI -1 DEGREES 9			F5B1 1800 -200	
			F6B1 2500 500	

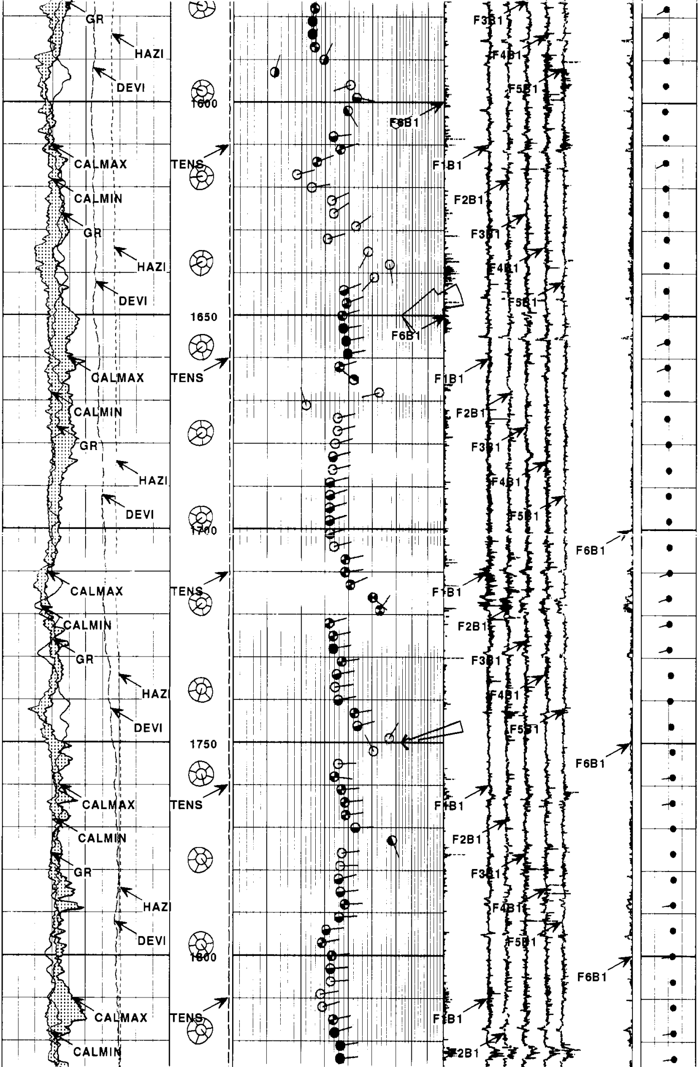


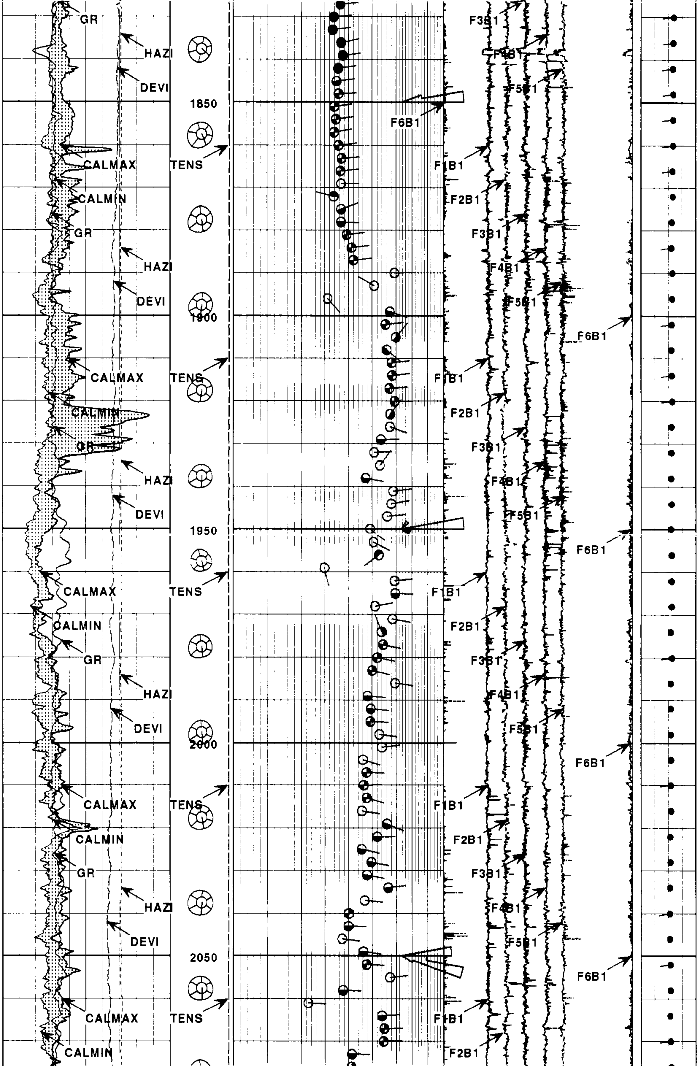


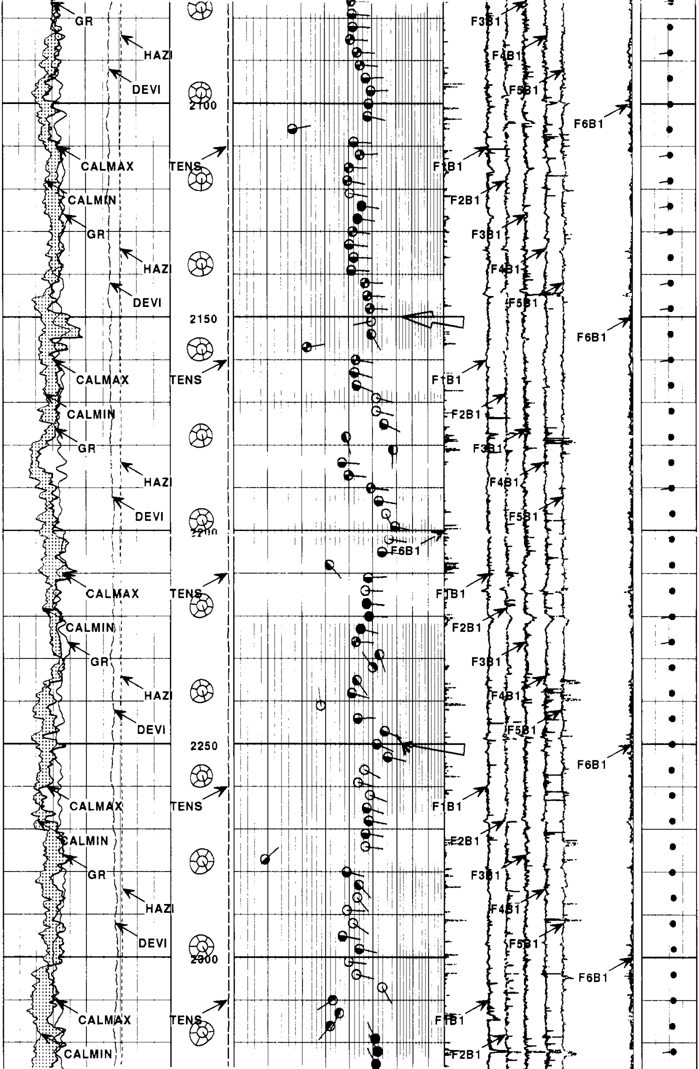


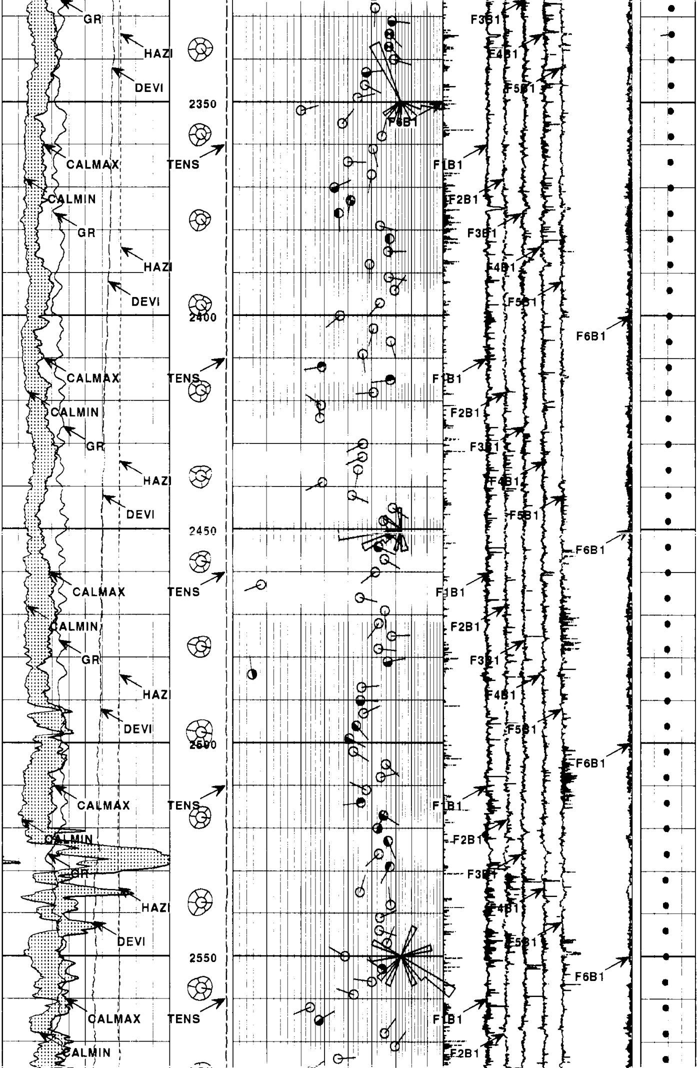


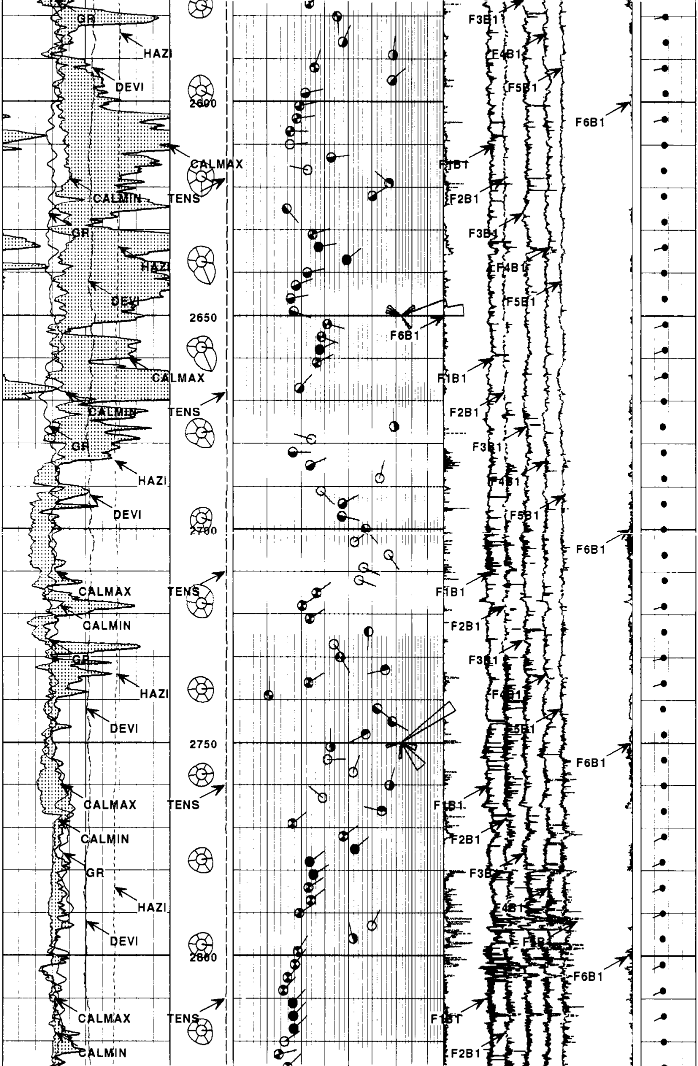


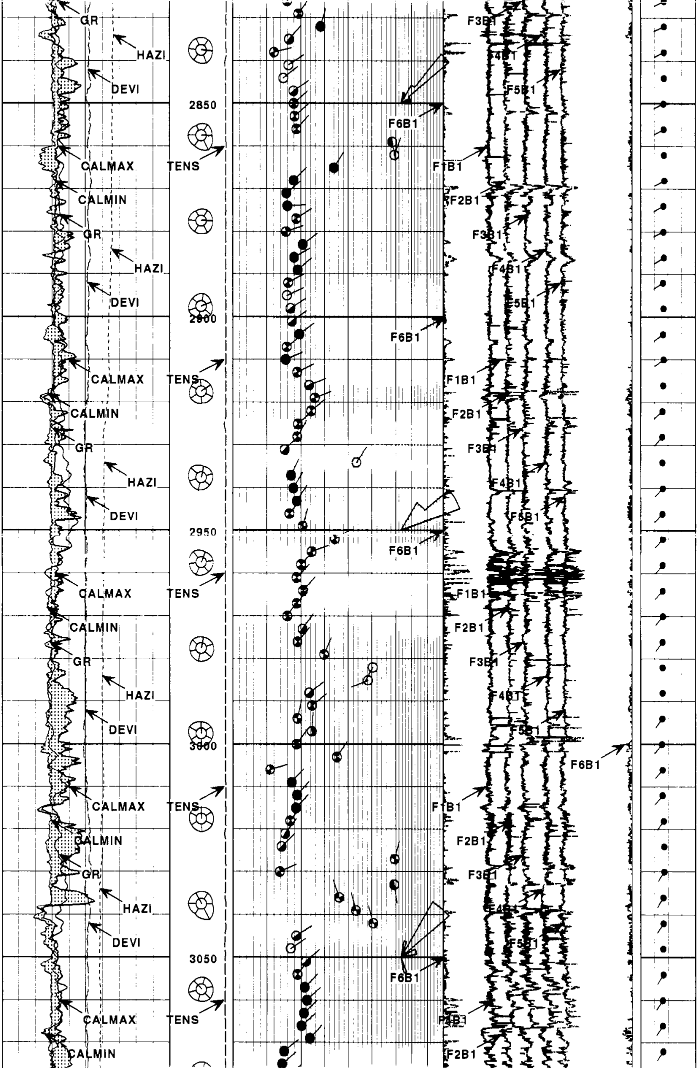


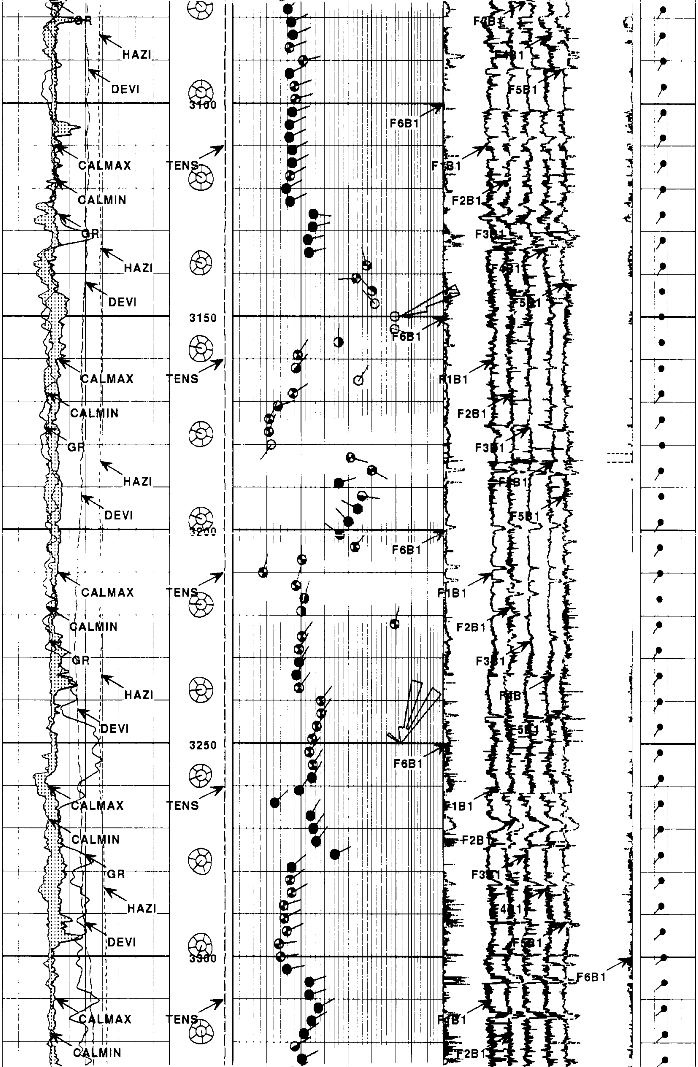


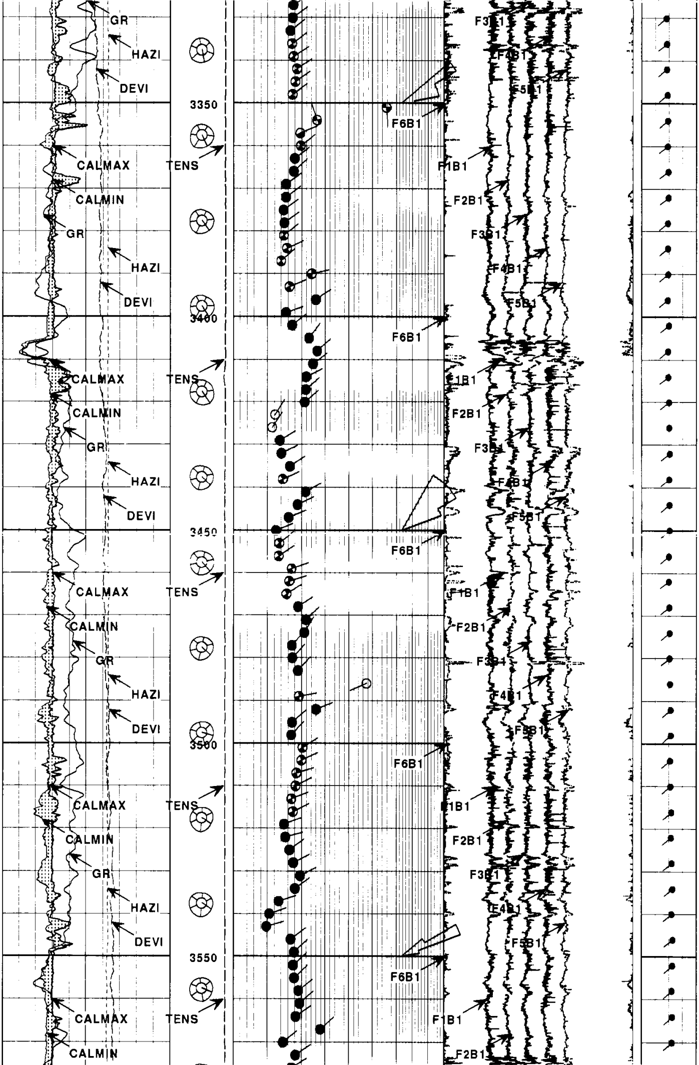


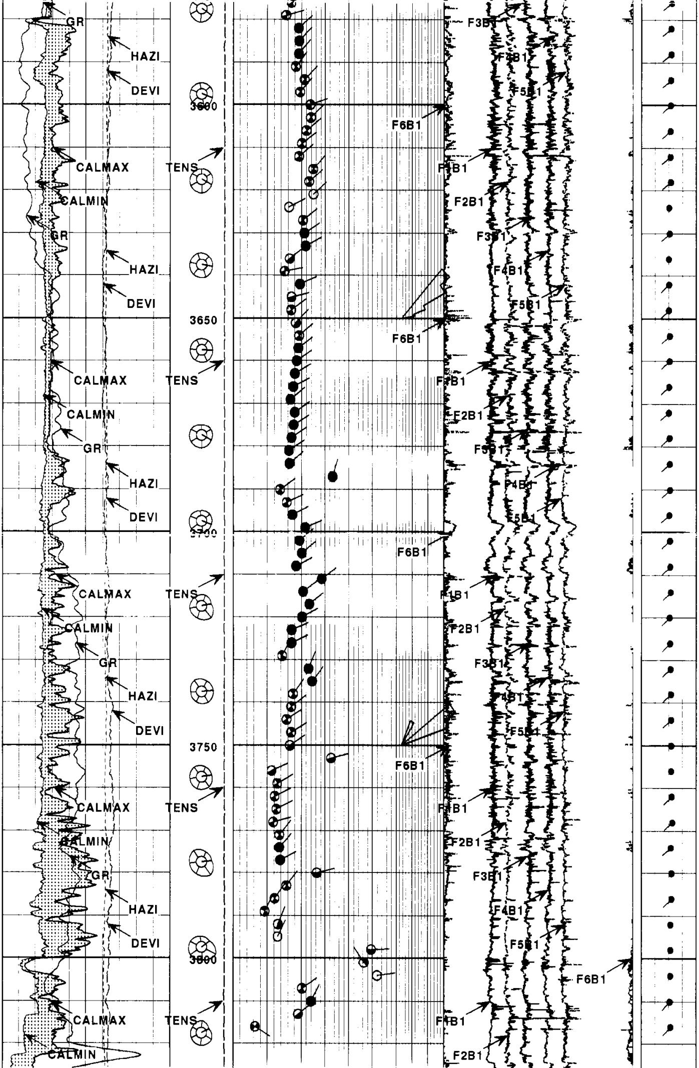


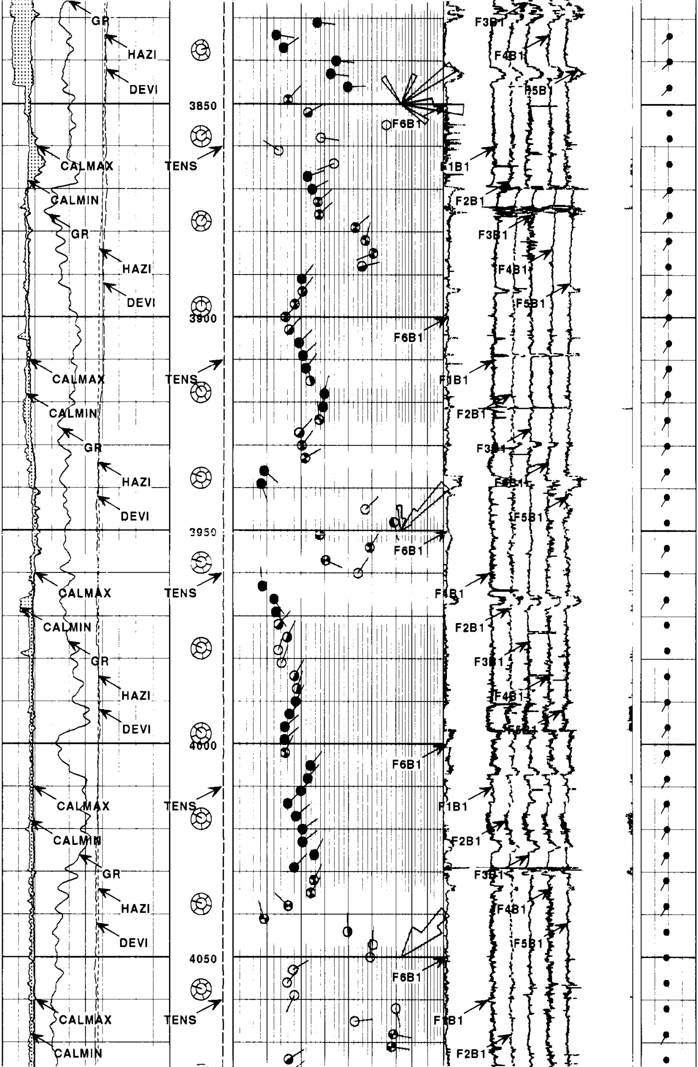


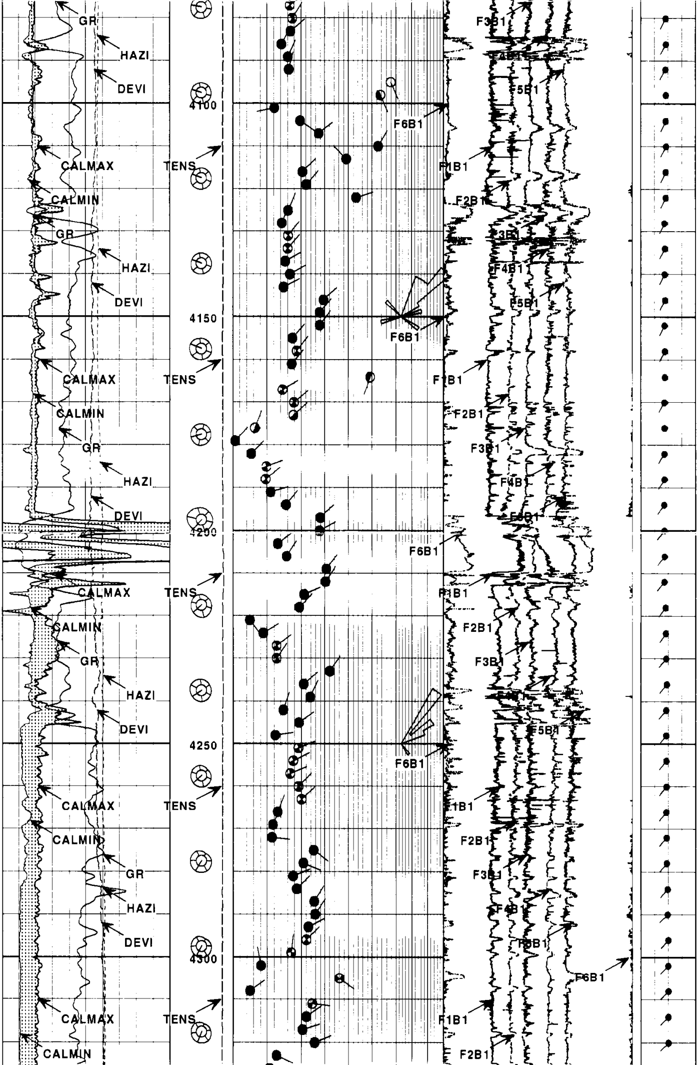


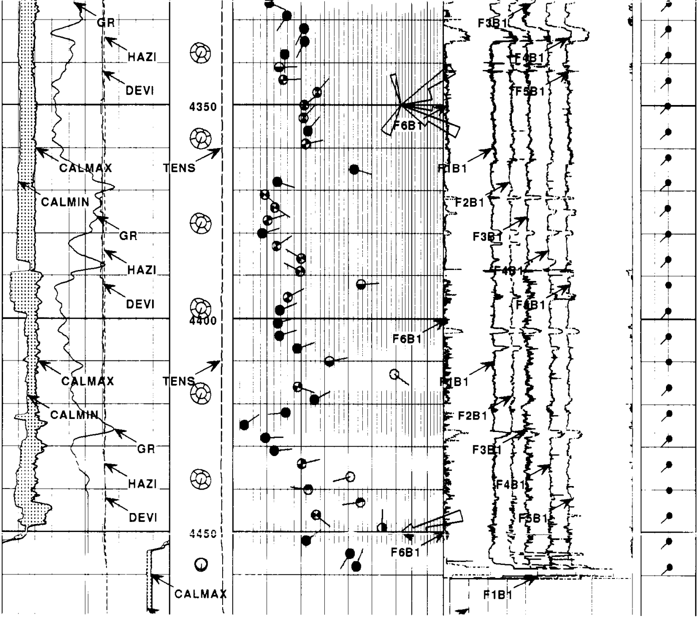












DEVI		
-1	DEGREES	9

HAZI		
-40	DEGREES	360

GR		
0	API	150

CALMIN		
6	INCHES	16

CALMAX		
6	INCHES	16

1:240
FT.

TENS	
10000	1000

AZI1	
0	360

DIP		
0	DEG	90

Curve	Left	Right
F6B1	2500	500
F5B1	1800	-200
F4B1	1600	-400
F3B1	1400	-600
F2B1	1200	-800
F1B1	1000	-1000

DRIFT		
0	DEG	10

GAMMA RAY CALIPERS	BH X-SECTION	SHIVA DIPS	RAW SP-CORR RES. CURVES	DEVIATI

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EXCELL

Version No: 5.6 | hc:3.0
Data File: 0422_0430_s3373.2.cls
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Planarity Cutoff Angle	3.0	Depth of Investigation	.90
Declination	19.0	Mirror Dip Rejection	No

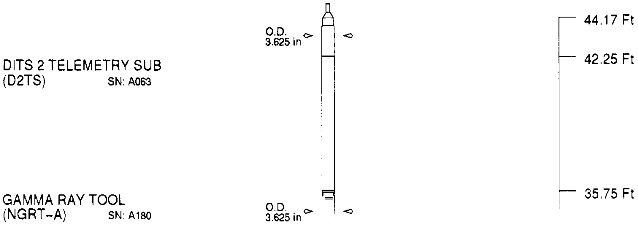
Current EXCELL-2000 Parameter Values

Depth: 65.833
Date: 22-Apr-2005 04:44
Service Number: 3373
Software Version: 5.6

Mnemonic	Tool	Parameter Description	Value	Units
PERF	DITSHD	PERFORATED INTERVAL	NO	
TD	DITSHD	TOTAL DEPTH	0.	FT
CS_ANT	DITSHD	CASING DEPTH (FOR ANNOTATION)	0.	FT
DIP_OK	SHARED	DO DIPMETER CALCULATIONS?	YES	
EMI_OK	EMID2A	DO EMI IMAGE CALCULATIONS?	YES	
ROTIMG	EMID2A	ROTATE EMI IMAGE (N-E-S-W-N)	YES	
COMPAS	EMID2A	WHICH COMPAS FOR ROTATION	EMI	
AUTOGN	EMID2A	EMI BUTTON AUTO GAIN	YES	
BCOLOR	EMID2A	EMI BUTTON AUTOGAIN COLOR	127.	
BFILT	EMID2A	BUTTON AUTO GAIN FILTER	0.02	
NAVOK	SHARED	DO NAVIGATION CALCULATIONS?	YES	
CAL_OK	EMICAL	DO CALIPER CALCULATIONS?	YES	
BS	SHARED	BIT SIZE	7.875	Inches
CASED	SHARED	IS THE HOLE CASED?	NO	
CASEOD	SHARED	CASING DIAMETER (OD)	7.	Inches
GR_OK	GAMMA	DO GAMMA CALCULATIONS?	YES	
MUDWT	GAMMA	BOREHOLE FLUID WEIGHT	9.3	Pounds/Gal.
GRSO	GAMMA	GAMMA RAY STANDOFF	0.	Inches

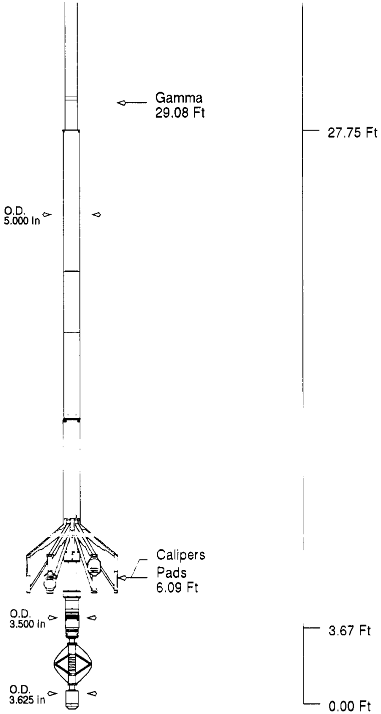
ELECTRIC MICRO
IMAGER
GAMMA

Excell 2000 Tool String Diagram



ELECTRIC MICRO IMAGER EMI-A D2
(EMI-A)

BOTTOM CENTRALIZER IN FWST
(CENT)



Tool Mnemonic	Length (Ft)	Weight In Air (lbs)	Logging Speed (Ft/min)
D2TS	6.50	100.00	N/A
NGRT-A	8.00	151.80	60.00
EMI-A	24.08	496.00	30.00
CENT	3.67	35.00	N/A
Tool String	42.25	782.80	30.00

COMPANY	**METHANE ENERGY**
WELL	**"BEAVER HILL COREHOLE"**
FIELD	**WILDCAT**
COUNTY	**COOS COUNTY**
STATE	**OR**

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SHIVA PROCESSED**
5"=100'