COMPANY ENERFIN RESOURCES
WELL CC 22-3-65 "THREE FINGER JACK
FIELD MIST
COUNTY COLUMBIA STATE OR

HALLIBURTON

QUAD COMBO
HRI/BCS/SDL/DSN

2"=100'

COMPANY ENERFIN RESOURCES

WELL CC 22-3 65 "THREE FINGER JACK"

FIELD MIST

COUNTY COLUMBIA STATE OR

API No 36 009 00368
Location X 1290595
Y 874598

Sect 3 Twp 6N Rge 5W

Other Services
NONE

Permanent Datum	G.L	Elev 1088.0'	Elev	K.B	1102.0'
Log measured from	K.B	14.0' above perm datum		D.F.	--------
Drilling measured from	K.B.			G.L.	1088.0'

Date	OCT-27-2007			
Run No.	ONE			
Depth – Driller	3838'			
Depth – Logger	3837'			
Bottom – Logged Interval	3829'			
Top – Logged Interval	526'			
Casing – Driller	8.625" @ 524'	@	@	@
Casing – Logger	526'			
Bit Size	7.875"			
Type Fluid in Hole	CYPAN			
Dens. | Visc.	9.8 | 48.0	|	|	|
Ph | Fluid Loss	8.8 | 4.8	|	|	|
Source of Sample	FLOWLINE			
Rm @ Meas. Temp.	2.260 @ 54 F	@	@	@
Rmf @ Meas. Temp.	3.120 @ 53 F	@	@	@
Rmc @ Meas. Temp.	1.930 @ 57 F	@	@	@
Source Rmf | Rmc	MEAS | MEAS	|	|	|
Rm @ BHT	1.229 @ 105 F	@	@	@
Time Since Circ.	0900 10-27			
Time on Bottom	1345 10-27			
Max. Rec. Temp.	105 F @ TD	@	@	@
Equip. | Location	49599 | WDLD	|	|	|
Recorded By	G. ROUSSEAU			
Witnessed By	D.HUGGINS	R. VICKERY		

Service Ticket No	5451544	API Serial No	36-009-00368	PGM Version X_V5.8

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES		
Date | Sample No		
Depth – Driller		
Type Fluid in Hole		
Dens. | Visc.	|	|
Ph | Fluid Loss	|	|
Source of Sample		
Rm @ Meas. Temp.	@	@
Rmf @ Meas. Temp.	@	@
Rmc @ Meas. Temp.	@	@
Source Rmf | Rmc	|	|
Rm @ BHT	@	@
Rmf @ BHT	@	@
Rmc @ BHT	@	@

RESISTIVITY SCALE CHANGES

Type Log	Depth	Scale Up Hole	Scale Down Hole

RESISTIVITY EQUIPMENT DATA

Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
ONE	HRIT #211_132	NA	1.50" SO	NA

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	A-180	Serial No.	4601 264	Serial No.	1714M741	Serial No.	05
Model No.	NGRT	Model No.	305B BCS	Model No.	SDLT-DA	Model No.	DSNT-X
Diameter	3.625"	No. of Cent.	TWO	Diameter	5.500"	Diameter	3.625'
Detector Model No.	432	Spacing	2 FEET	Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	CS-137	Source Type	AM241BE
Length	4.00"	LSA [Y / N]	NO	Serial No.	2694 GW	Serial No.	DSN-307
Distance to Source	18.0'	FWDA [Y / N]	NO	Strength	1.5 CI	Strength	15.0 CI

LOGGING DATA

GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON		
Run	Depth		Speed	Scale		Scale			Scale			Scale		
No.	From	To	Ft / Min	L	R	L	R	Matrix	L	R	Matrix	L	R	Matrix
ONE	3837'	526'	60	0	200	150	50	55.5	1.65	2.65	2.65	60	0	SAND
				API	API	USEC	USEC	USEC	GMCC	GMCC	GMCC	%	%	

DIRECTIONAL INFORMATION

Maximum Deviation	47.56	deg. @	2613.0'	KOP	614.0'

Remarks:

ANNULAR HOLE VOLUME CALCULATED USING 4.500" CASING.

HRID-BCSD-SDLT-ML-DSNT-NGRT-RWCH RUN IN COMBINATION.

CREW: J. CABRERA, I. PYLES. RIG: TD DRILLING NO. 101.

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.

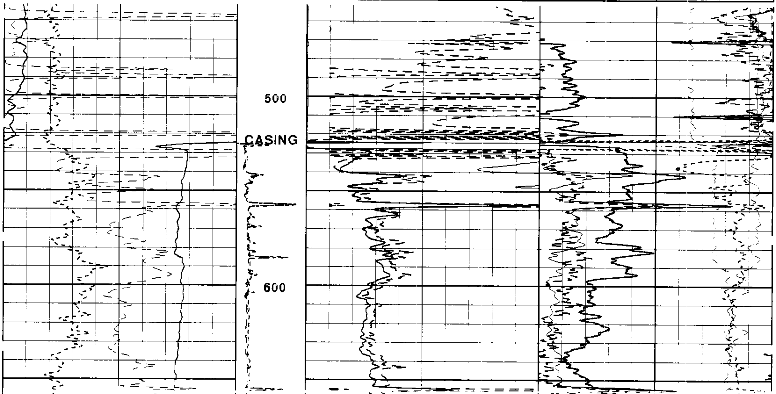
HALLIBURTON

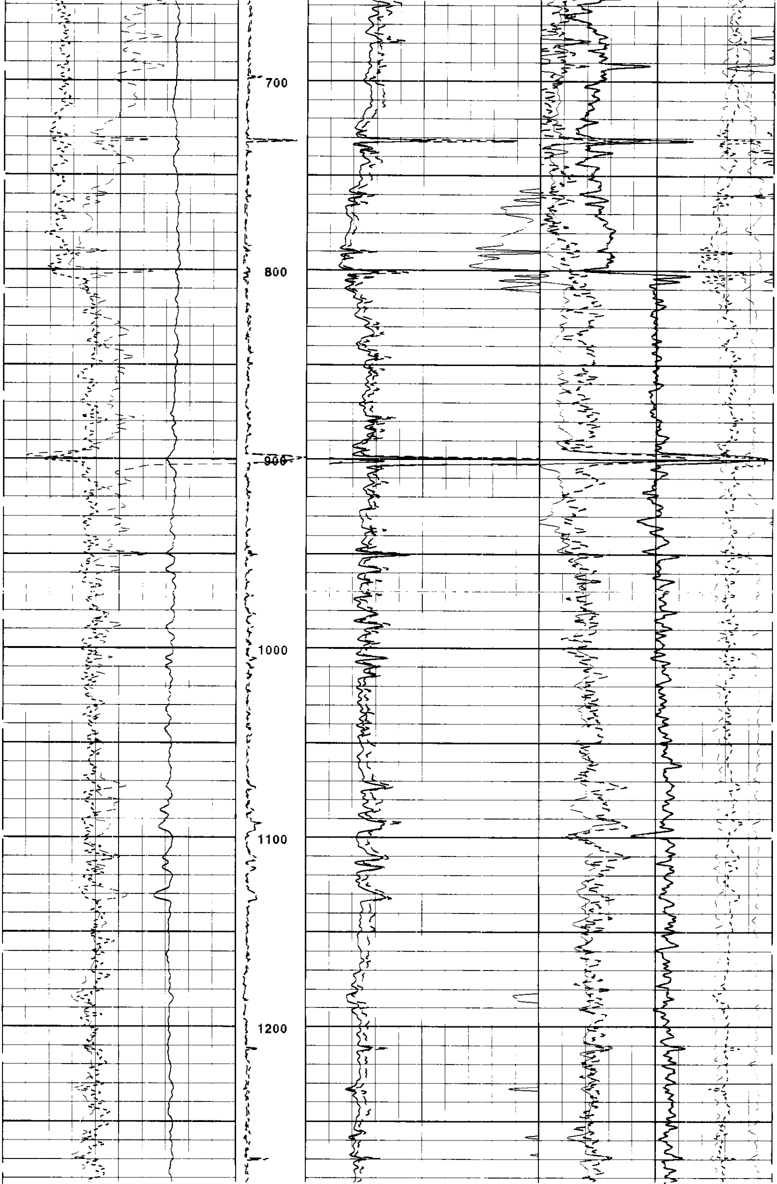
HALLIBURTON

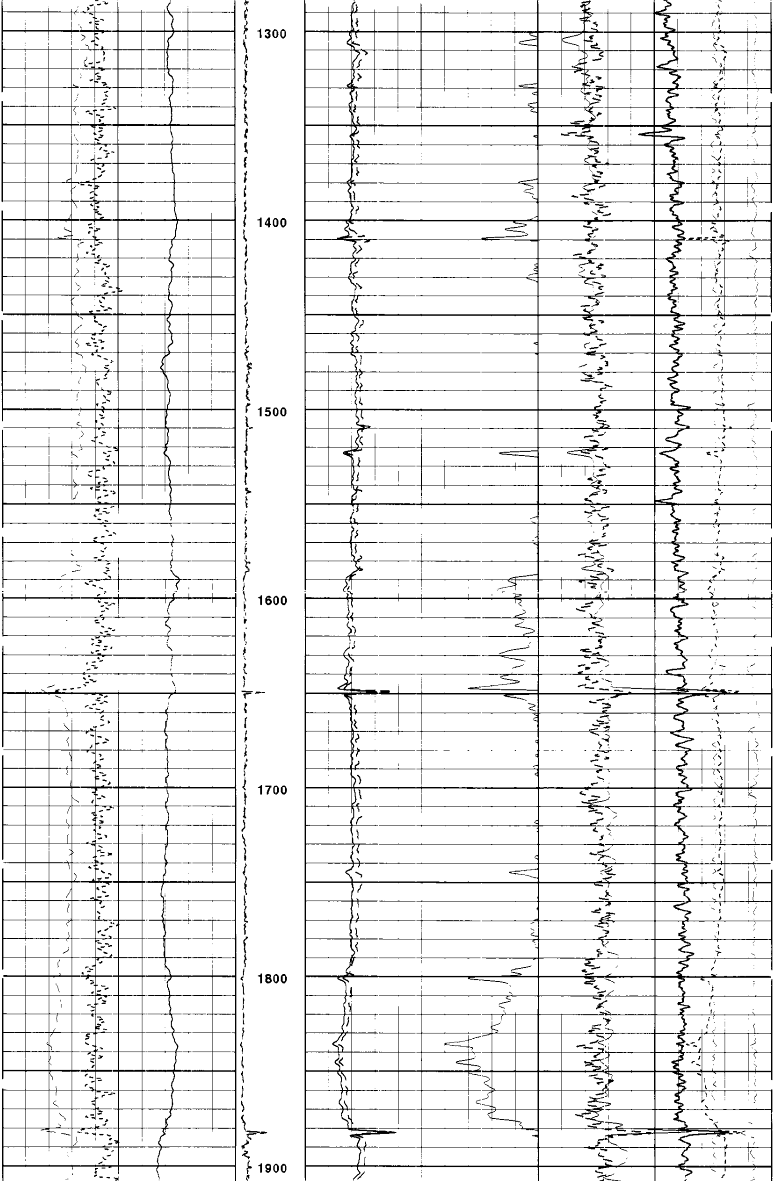
Version No: 5.8 hc:3.0
Data File: ener_3_fin_j_qu.3.cls
Format File: plot_01_2.spc
Plot Time: 2007-10-27 14:45:40
Log Time: 2007-10-27 13:45:34

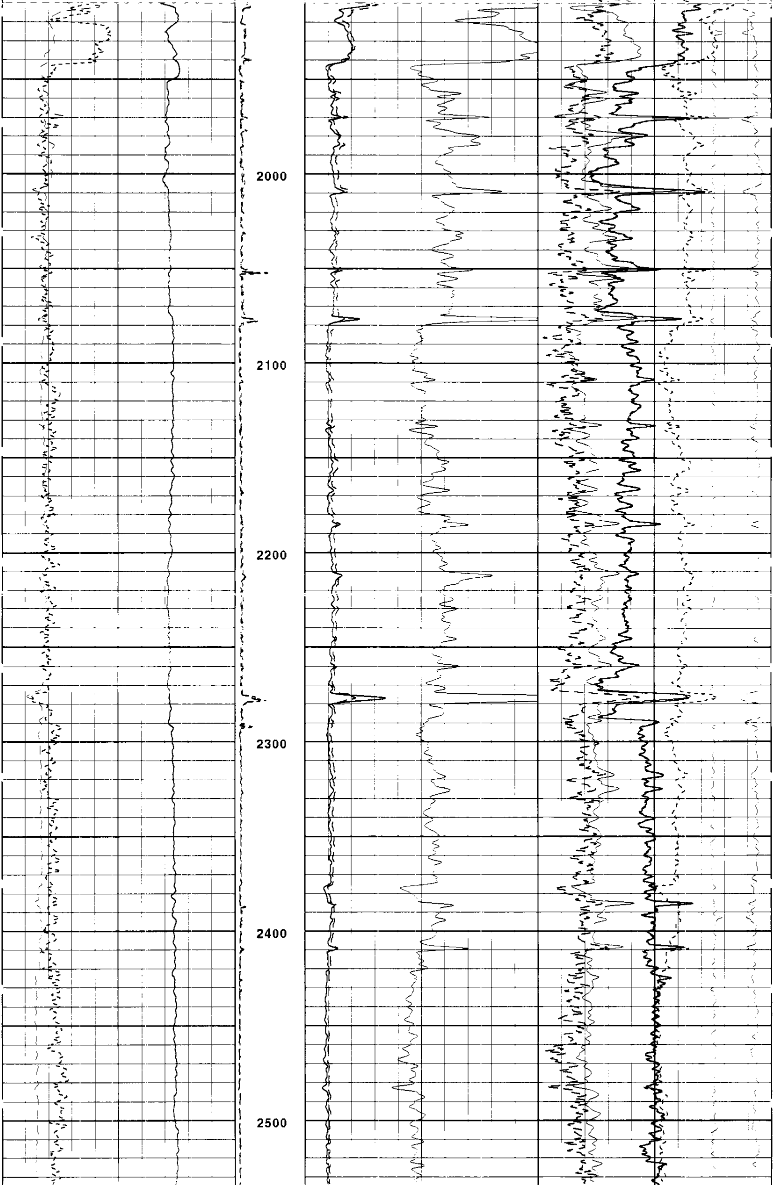
Top Depth: 450.75
Bottom Depth: 3845.50

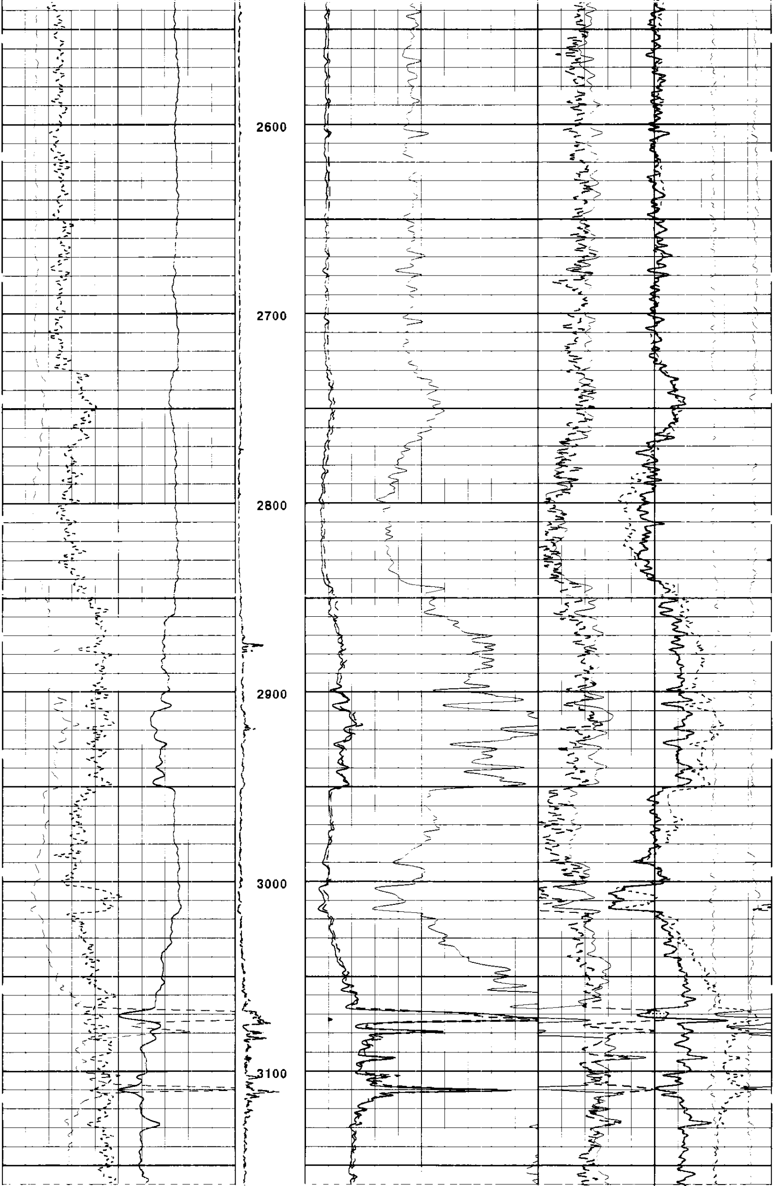
GR 0 API 200	NOR 0 OHMM 20	HDR1 0 OHMM 20	NPHI 60. % 0
SP -]10[+	LAT 0 OHMM 20	DFL 0 OHMM 20	DPHI 60. % 0
RWA 0 OHMM 3	1:600 FT.	AMP DFL 0 OHMM 4	RHOB 1.65 G/CC 2.65
			HDC1 1000 MMHO 0
			DT 150 US/F 50
			DRHO -0.5 G/CC 0.5
			PE 12 2

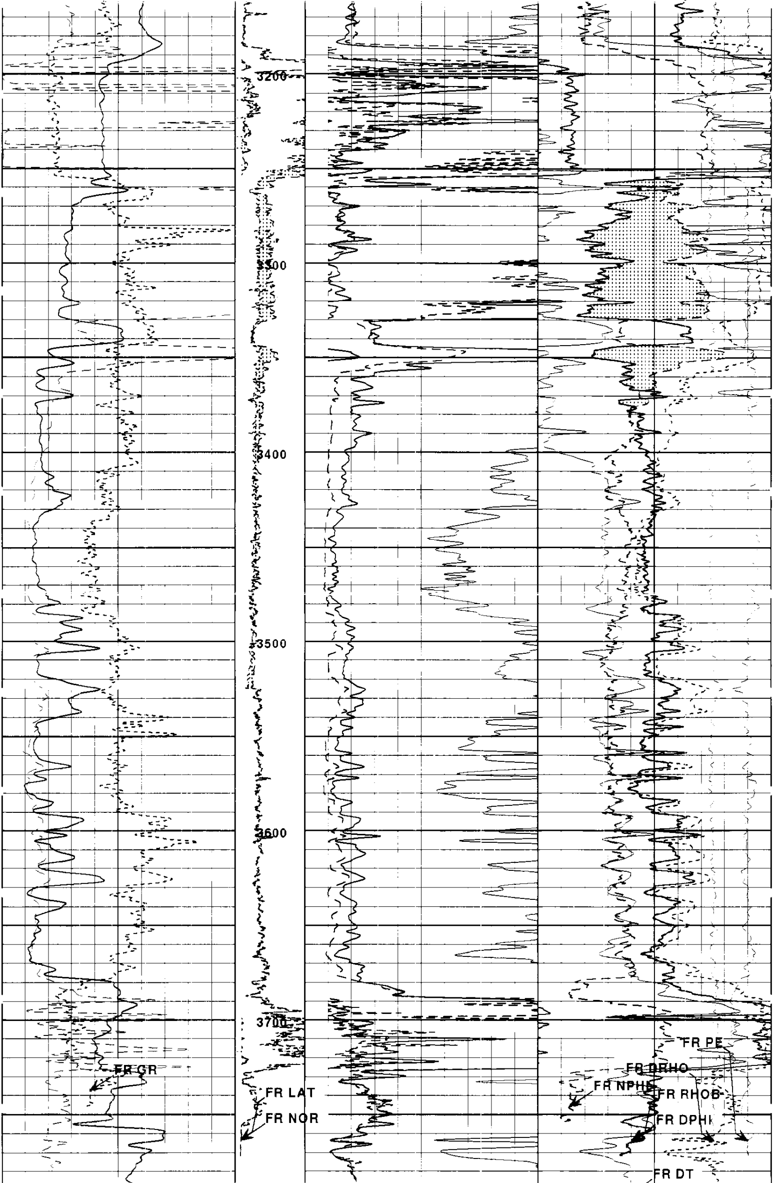


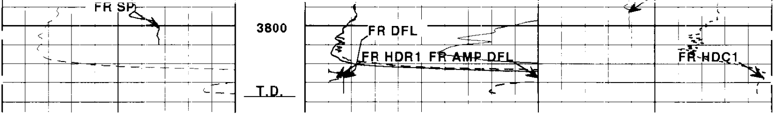












			PE 12 2
			DRHO -0.5 G/CC 0.5
			DT 150 US/F 50
			HDC1 1000 MMHO 0
RWA 0 OHMM 3	1:600 FT.	AMP DFL 0 OHMM 4	RHOB 1.65 G/CC 2.65
SP -]10[+	LAT 0 OHMM 20	DFL 0 OHMM 20	DPHI 60. % 0
GR 0 API 200	NOR 0 OHMM 20	HDR1 0 OHMM 20	NPHI 60. % 0

HALLIBURTON

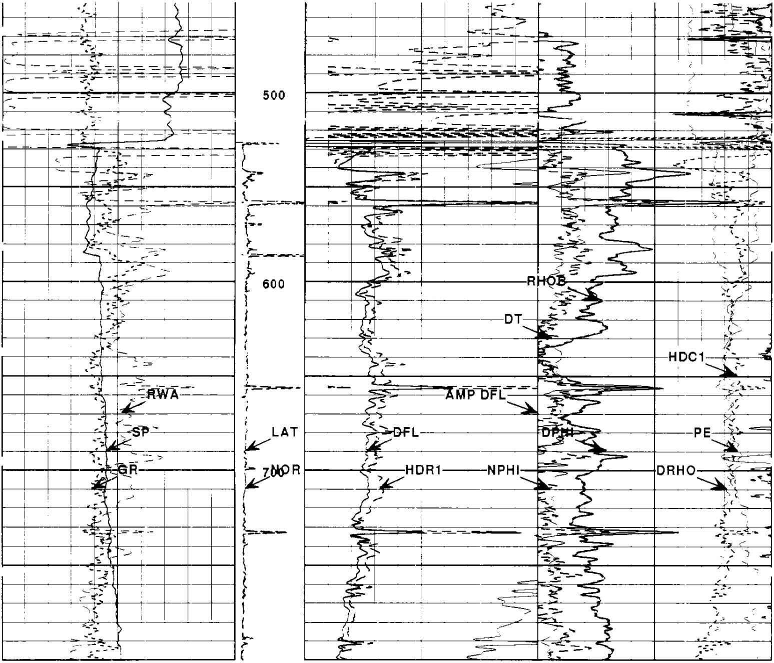
Version No: 5.8 | hc:3.0
Data File: ener_3_fin_j_qu.3.cls
Format File: plot_01_2.spc
Plot Time: 2007-10-27 13:49:29
Log Time: 2007-10-27 13:45:34
Top Depth: ------
Bottom Depth: 3845.50

REPEAT SECTION

HALLIBURTON

Version No: 5.8 | hc:3.0
Data File: ener_3_fin_j_qu_002_.v.cls
Format File: plot_2.1.spc
Plot Time: 2007-10-27 14:43:39
Log Time: 2007-10-27 13:12:11
Top Depth: 451.34
Bottom Depth: 800.01

GR 0 API 200	NOR 0 OHMM 20	HDR1 0 OHMM 20	NPHI 60. % 0
SP -]10[+	LAT 0 OHMM 20	DFL 0 OHMM 20	DPHI 60. % 0
RWA 0 OHMM 3	1:600 FT.	AMP DFL 0 OHMM 4	RHOB 1.65 G/CC 2.65
			HDC1 1000 MMHO 0
			DT 150 US/F 50
			DRHO -0.5 G/CC 0.5
			PE 12 2



Curve	Left	Unit	Right
PE	12		2
DRHO	-0.5	G CC	0.5
DT	150	US F	50
HDC1	1000	MMHO	0
RWA	0	OHMM	3
SP		-]10[+	
GR	0	API	200
1:600		FT.	
LAT	0	OHMM	20
NOR	0	OHMM	20
AMP DFL	0	OHMM	4
DFL	0	OHMM	20
HDR1	0	OHMM	20
RHOB	1.65	G/CC	2.65
DPHI	60.	%	0
NPHI	60.	%	0

HALLIBURTON

Version No: 5.8 | hc:3.0
Data File: ener_3_fin_|_qu_002_.v.cls
Format File: plot_2.1.spc
Plot Time: 2007-10-27 14:43:37
Log Time: 2007-10-27 13:12:11

Top Depth: 451.34
Bottom Depth: 800.01

Current EXCELL-2000 Parameter Values

Depth: 121.083
Date: 27-Oct-2007 13:06:
Service Number: 2241
Software Version: 5.8

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
ANTSPA	DITSHD	ANNOTATION LABEL SPACING	500.	Ft
GR_OK	GAMMA	DO GAMMA CALCULATIONS?	YES	
CASED	SHARED	CASED HOLE?	NO	
CASEOD	SHARED	CASING DIAMETER (OD)	4.5	Inches
MUDWT	SHARED	BOREHOLE FLUID WEIGHT	9.8	Pounds/Gal.
GRSO	GAMMA	GAMMA RAY STANDOFF	0.	Inches
BS	SHARED	BIT SIZE	7.875	Inches
DSN_OK	DSNT_X	DO DSNT_X CALCULATIONS?	YES	
DRILL	DSNT_X	TPL - NEUTRON IN SLEEVE?	NO	
BADHOL	DSNT_X	DSNT_X BAD HOLE CORRECTION	NO	
NLITH	DSNT_X	NEUTRON LITHOLOGY	SAND	
DSNSO	DSNT_X	DSNT_X STANDOFF	0.	Inches
DSNTMP	DSNT_X	DSNT_X TEMPERATURE CORRECTION	NONE	
DSNPRS	DSNT_X	DSNTX PRESSURE CORRECTION	NONE	
VLDTMP	DSNT_X	IS DSNT_X TEMPERATURE VALID?	YES	
SDL_OK	SDL_DA	DO SDL CALCULATIONS?	YES	
EVR_OK	SDL_DA	DO SDL EVR CALCULATIONS?	YES	
AIR	SDL_DA	AIR FILLED BOREHOLE?	NO	
LOGB	SDL_DA	LOGGING CAL BLOCKS?	NO	
SDLTC	SDL_DA	SDL TEMPERATURE CORRECTION?	YES	
MUDT	SDL_DA	MUD CORRECTION TYPE?	NONE	
RHOMAT	SHARED	MATRIX DENSITY	2.65	Grams/CC
RHOFLU	SHARED	FLUID DENSITY	1.	Grams/CC
CAL_OK	CAL_DA	DO CALIPER CALCULATIONS?	YES	
AHVOK	CAL_DA	DO ANNULAR VOLUME CALCULATION?	YES	
MLOGOK	MIC_SD	DO MICRO-LOG CALCULATIONS?	YES	
FWSTOK	BCS	DO FWST CALCULATIONS?	YES	
WYLIE	BCS	ACOUSTIC POROSITY EQUATION	HLSP	
DTSHA	BCS	DELTA T SHALE	100.	uSec/Ft.
DTMAT	BCS	DELTA T MATRIX	55.5	uSec/Ft.
DTFLU	BCS	DELTA T FLUID?	189.	uSec/Ft.
DTFT	BCS	USE 1 OR 2 FT DT FOR POROSITY	2	Feet
ARCHA	SHARED	ARCHIE A	0.62	
ARCHM	SHARED	ARCHIE M	2.15	
FSEL	SHARED	POROSITY SELECTION FOR F	ACOU	
USEFIX	BCS	USE MINIMUM FIXED THRESHOLD.	NO	
USENOI	BCS	USE NOISE THRESHOLD FOR PICK.	NO	
TDU_OK	TDUF	USE TDU DISPLAY CONTROLS?	YES	
HRI_OK	HRIDE	DO HRI INDUCTION CALCULATION?	YES	
DFL_OK	HRIDE	DO DFL CALCULATIONS?	YES	
PYRITE	HRIDE	PYRITE SWITCH	NO	OHMM
CASING	HRIDE	CASING DEPTH	0.	Feet
HRIDSP	HRIDE	SPIKE REDUCTION FILTER TYPE?	DELT	
HRITC	HRIDE	HRI TEMPERATURE CORRECTION	NONE	
CTEM	HRIDE	CONST TEMPERATURE	75.	DegF
BHT	HRIDE	BOTTOM HOLE TEMPERATURE	100.	Degrees F.
TSURF	HRIDE	SURFACE TEMPERATURE	60.	Degrees F.
BHD	HRIDE	BOTTOM HOLE DEPTH	3838.	Feet
SP	HRIDE	USE DIGITAL SP?	NO	
SP_OF	HRIDE	SPONTANEOUS POTENTIAL OFFSET	0.	
RMUD	HRIDE	MUD RESIST AT SURFACE (0=Air)	2.	OHMM
TRM	HRIDE	TEMPERATURE OF MUD	75.	DEGF
RRMIN	HRIDE	MINIMUM RESISTIVITY FOR MAP?	0.2	OHMM
RRMAX	HRIDE	MAXIMUM RESISTIVITY FOR MAP?	200.	OHMM
XPHLOC	XP_RWA	CROSSPLOT SELECTION FOR XPOR	XPLT	

COMPANY ENERFIN RESOURCES

WELL CC 22-3-65 "THREE FINGER JACK"

FIELD MIST

COUNTY COLUMBIA **STATE** OR

HALLIBURTON

QUAD COMBO
HRI/BCS/SDL/DSN

2"=100'