COMPANY: **Enerfin Resources Northwest**

WELL: **C.C. 14-22-75 (Raptor)**

FIELD: **Mist Gas**

COUNTY: **Columbia** **STATE:** **Oregon**

COUNTY: Columbia
Field: Mist Gas
Location: 1126.89' N & 123.58' E of SW c
Well: C.C. 14-22-75 (Raptor)
Company: Enerfin Resources Northwest

Schlumberger

Array Induction
BHC Sonic

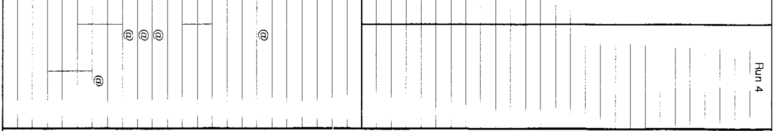
LOCATION			
1126.89' N & 123.58' E of SW corner of Section 22		Elev.:	K.B. 1339.79 ft G.L. 1329.79 ft D.F.
Permanent Datum:	Ground Level	Elev.:	1329.79 ft
Log Measured From:	Kelly Bushing	10.0 ft	above Perm. Datum
Drilling Measured From:	Kelly Bushing		

API Serial No.	SECTION	TOWNSHIP	RANGE
	22	7N	5W

Logging Date		23-JUL-1999		
Run Number		1		
Depth Driller		2976 ft		
Schlumberger Depth		2900 ft		
Bottom Log Interval		2892 ft		
Top Log Interval		472 ft		
Casing Driller Size @ Depth		7.000 in @ 476 ft		@
Casing Schlumberger		476 ft		
Bit Size		6.250 in		
Type Fluid In Hole		Accu-gauge		
MUD Density	Viscosity	9.1 lbm/gal	35 s	
Fluid Loss	PH	5.6 cm3	9.5	
Source Of Sample		Flowline		
RM @ Measured Temperature		0.720 ohm.m @ 89 degF		@
RMF @ Measured Temperature		0.870 ohm.m @ 72 degF		@
RMC @ Measured Temperature		0.940 ohm.m @ 68 degF		@
Source RMF	RMC	Press	Press	
RM @ MRT	RMF @ MRT	0.634 @ 102	0.630 @ 102	@ / @
Maximum Recorded Temperatures		102 degF		
Circulation Stopped	Time	23-JUL-1999	10:00	
Logger On Bottom	Time	23-JUL-1999		
Unit Number	Location	3152	Sacramento	
Recorded By		Clayton Campbell		
Witnessed By		Dave Huggins		

	Run 1	Run 2	Run 3

Logging Date		
Run Number		
Depth Driller		
Schlumberger Depth		
Bottom Log Interval		
Top Log Interval		
Casing Driller Size @ Depth	@	
Casing Schlumberger		
Bit Size		
Type Fluid In Hole		
MUD Density / Viscosity		
Fluid Loss / PH		
Source Of Sample		
RM @ Measured Temperature	@	
RMF @ Measured Temperature	@	
RMC @ Measured Temperature	@	
Source RMF / RMC		
RM @ MRT / RMF @ MRT	@	@ / @
Maximum Recorded Temperatures		
Circulation Stopped / Time		
Logger On Bottom / Time		
Unit Number / Location		
Recorded By		
Witnessed By		



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OTHER SERVICES1	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
2 centralizers used on sonic sonde	
0.5 inch standoffs used on array induction tool	
Rig: Taylor Drilling #7	

RUN 1		RUN 2
SERVICE ORDER #:	6075771	SERVICE ORDER #:
PROGRAM VERSION:	9C0-413	PROGRAM VERSION:
FLUID LEVEL:		FLUID LEVEL:

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2

Input DLIS Files

DEFAULT	HILTB .006	FN:5 PRODUCER	06-Aug-1999 09:22	2904.0 FT	348.0 FT

Integrated Hole/Cement Volume Summary

Hole Volume = 546.85 ft3
Cement Volume = 437.38 ft3 (assuming 2.88 in casing O.D.)
Computed from 2903.5 ft to 476.0 ft

OP System Version: 9C0-413

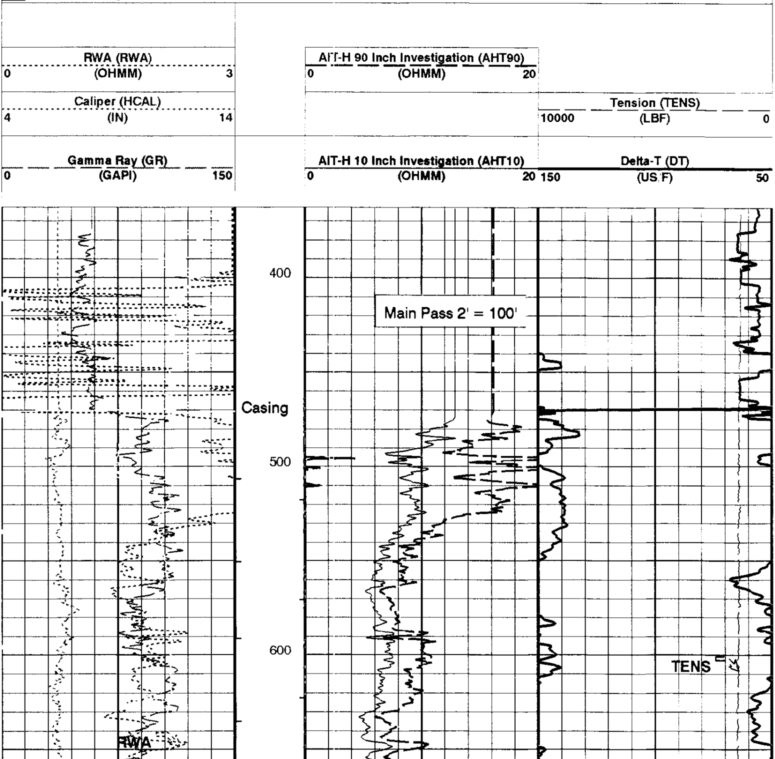
MCM

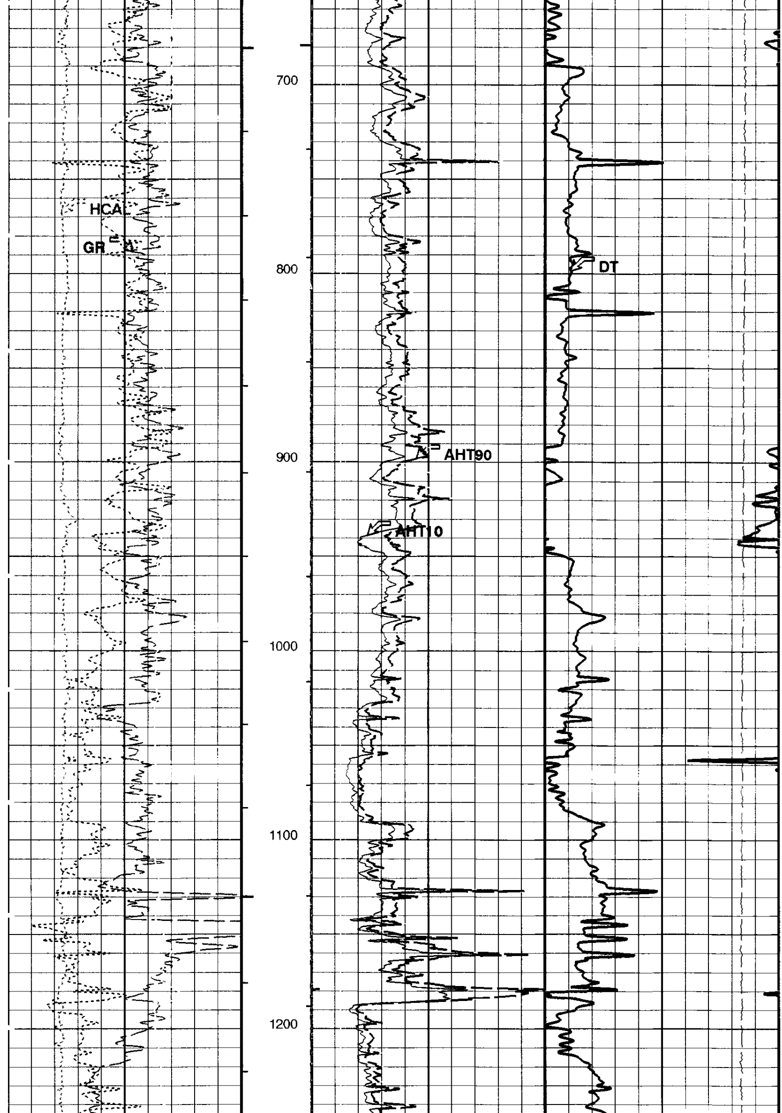
HILTB	OP9-KP1	DSLT-BA	OP9-KP1
TCCBF	9C0-413		

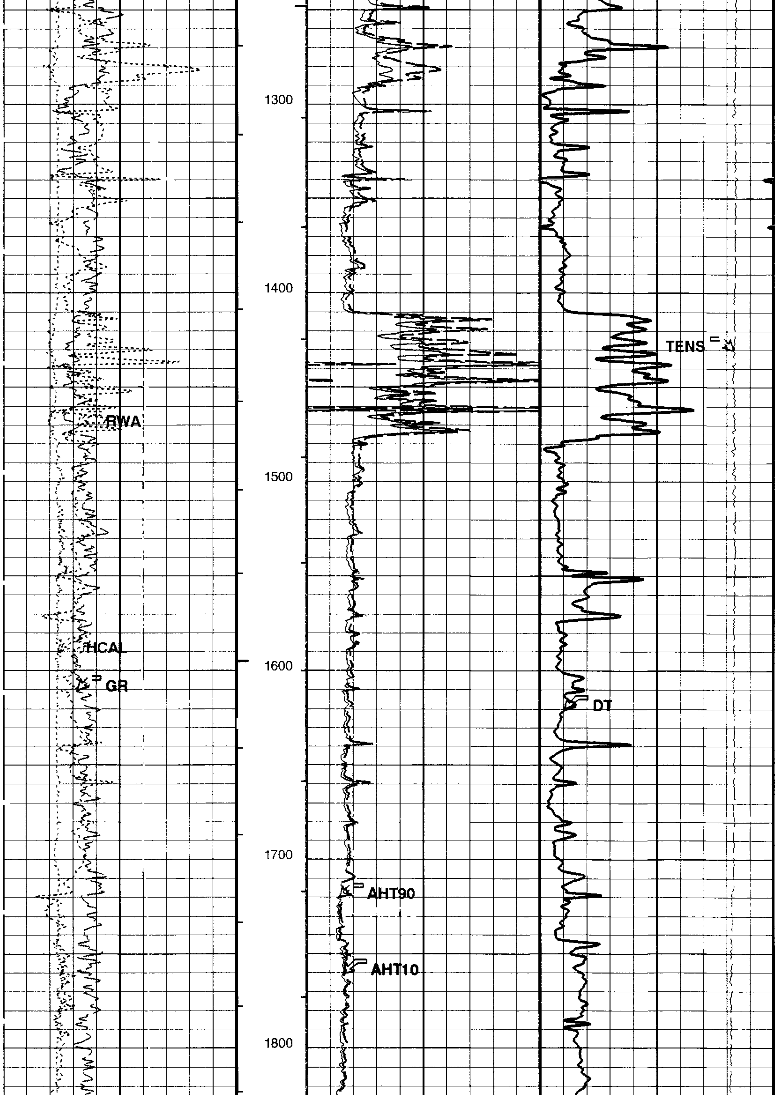
PIP SUMMARY

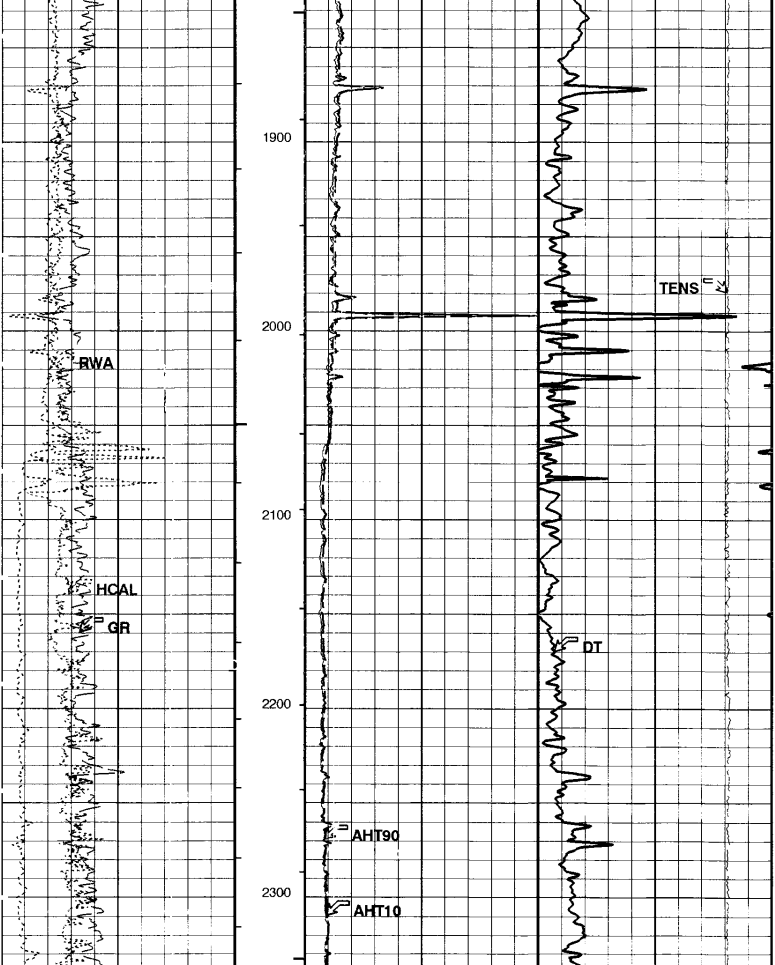
⊢ Integrated Hole Volume Minor Pip Every 10 F3
⊢ Integrated Hole Volume Major Pip Every 100 F3
⊣ Integrated Cement Volume Minor Pip Every 10 F3
⊣ Integrated Cement Volume Major Pip Every 100 F3

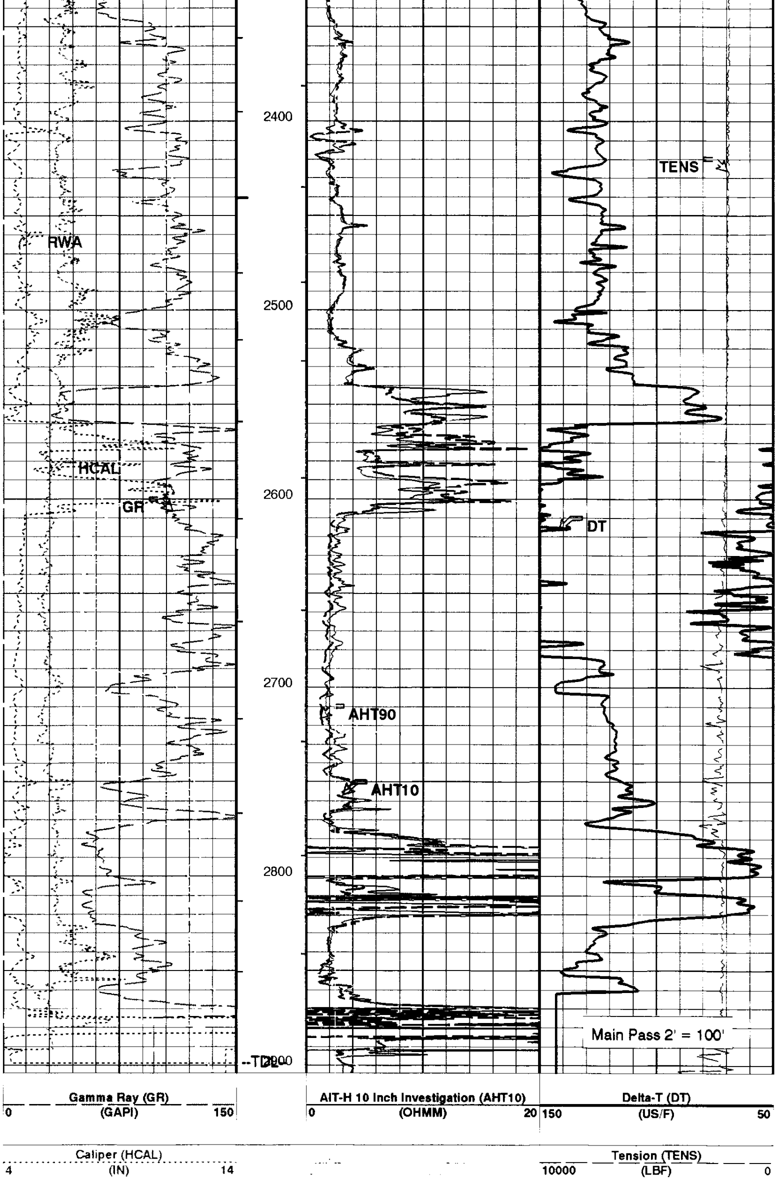
■ Time Mark Every 60 S











RWA (RWA)			AIT-H 90 Inch Investigation (AHT90)		
0	(OHMM)	3	0	(OHMM)	20

PIP SUMMARY

├ Integrated Hole Volume Minor Pip Every 10 F3
├─ Integrated Hole Volume Major Pip Every 100 F3
┤ Integrated Cement Volume Minor Pip Every 10 F3
─┤ Integrated Cement Volume Major Pip Every 100 F3
■ Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
AHBHM	AIT-H Bhole Correction Mode	0_COMPUTEMUDRESISTIVITY	
AHBLM	AIT-H Basic Logs Mode	6_ONE_TWO_AND_FOUR	
AHBPO	AIT-H Basic Logs Processing Option	STANDARD_PROCESSING	
AHCDE	AIT-H Casing Detection Enable	YES	
AHCEN	AIT-H Tool Centering Flag (in Borehole)	ECCENTERED	
AHMRF	AIT-H Mud Resistivity Factor	1.000	
AHSAP	AIT-H Suspend Answer Product Processing	0_NOSUSPENSION	
AHSTA	AIT-H Tool Standoff	0.500	in
ARTS	AIT Rt Selection (for ALLRES computation)	13_AHT90	
BHT	Bottom Hole Temperature (used in calculations)	101.0	degF
BS	Bit Size	6.250	in
DFD	Drilling Fluid Density	9.100	lbm/gal
DHC	Density Hole Correction	BS	
DTCM	Delta-T Computation Mode	FULL	
FEXP	Form Factor Exponent	2.000	
FNUM	Form Factor Numerator	1.000	
FPHI	Form Factor Porosity Source	DPHZ	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
GRSE	Generalized Mud Resistivity Selection	GEN9	
GTSE	Generalized Temperature Selection	TEMP	
HSCM	HILT Speed Correction Mode	NO_SC	
HSTI	STI Uses HILT Acceleration	YES	
MODE	Sonic Firing Mode	BHC	
MST	Mud Sample Temperature	89.000	degF
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	STDRES	
NSAR	HRDD Depth Sampling Rate	1.000	in
RMFS	Resistivity of Mud Filtrate Sample	0.870	ohm.m
RTCO	RTCO - Rt Invasion Correction	YES	
RW	Resistivity of Connate Water	1.000	ohm.m
SHT	Surface Hole Temperature	68.000	degF
SPDR	SP Drift	0.008	mV/ft
SPNV	SP Next Value	-10.000	mV
TD	Total Depth	2976.0	ft
TWS	Temperature of Connate Water Sample	100.0	degF

Format: AITSON_S2 Vertical Scale: 2" per 100' Graphics File Created: 06-Aug-1999 09:33

OP System Version: 9C0-413

MCM

HILTB	OP9-KP1	DSLT-BA	OP9-KP1
TCCBF	9C0-413		

Input DLIS Files

DEFAULT	HILTB .006	FN:5	PRODUCER	06-Aug-1999 09:22	2904.0 FT	348.0 FT

Input DLIS Files

DEFAULT HILTB .006 FN:5 PRODUCER 06-Aug-1999 09:22 2904.0 FT 348.0 FT

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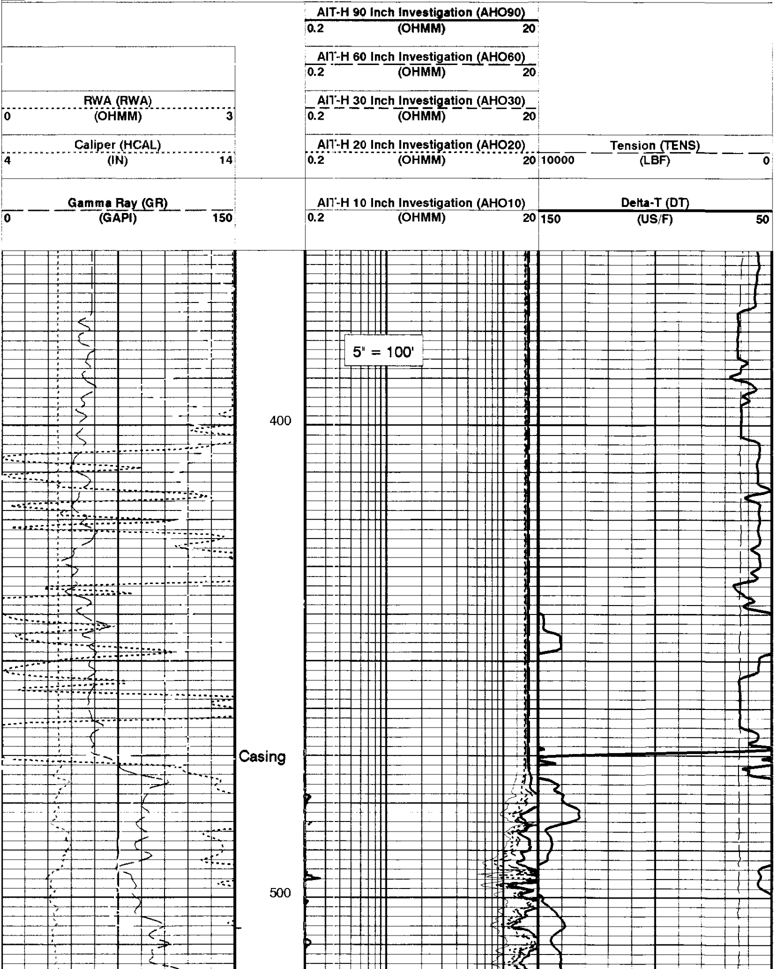
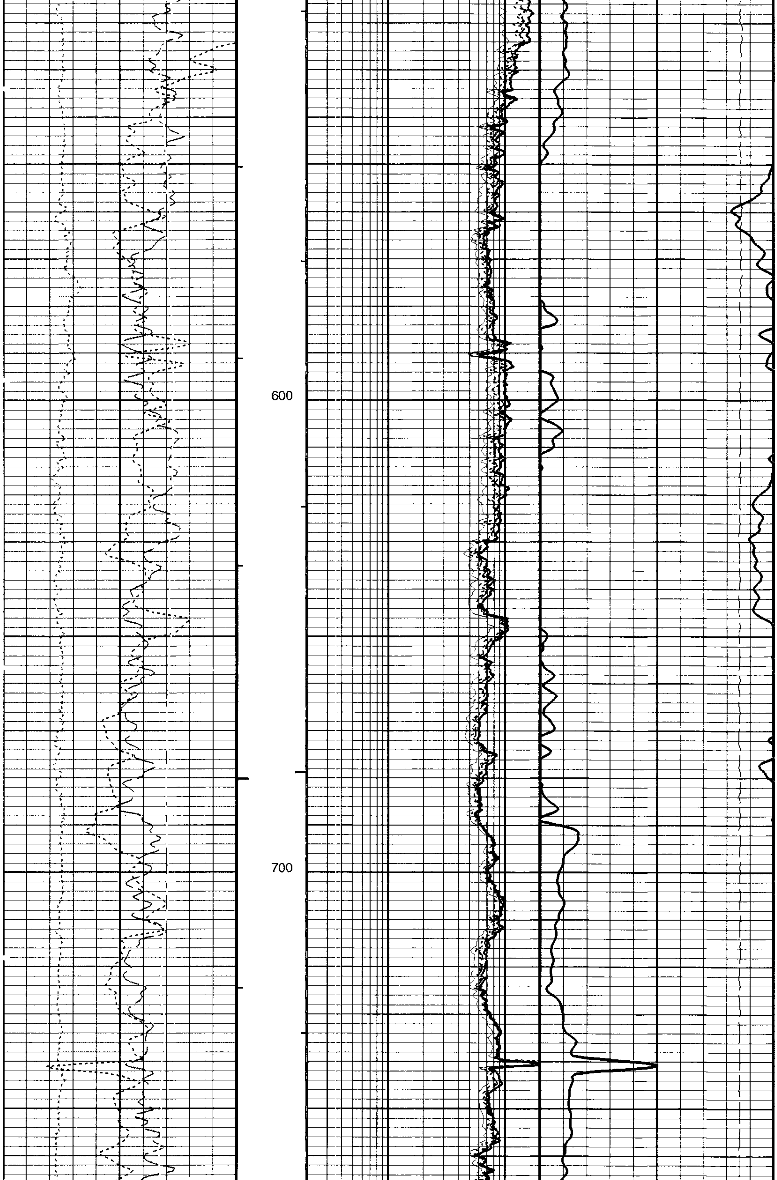
MCM

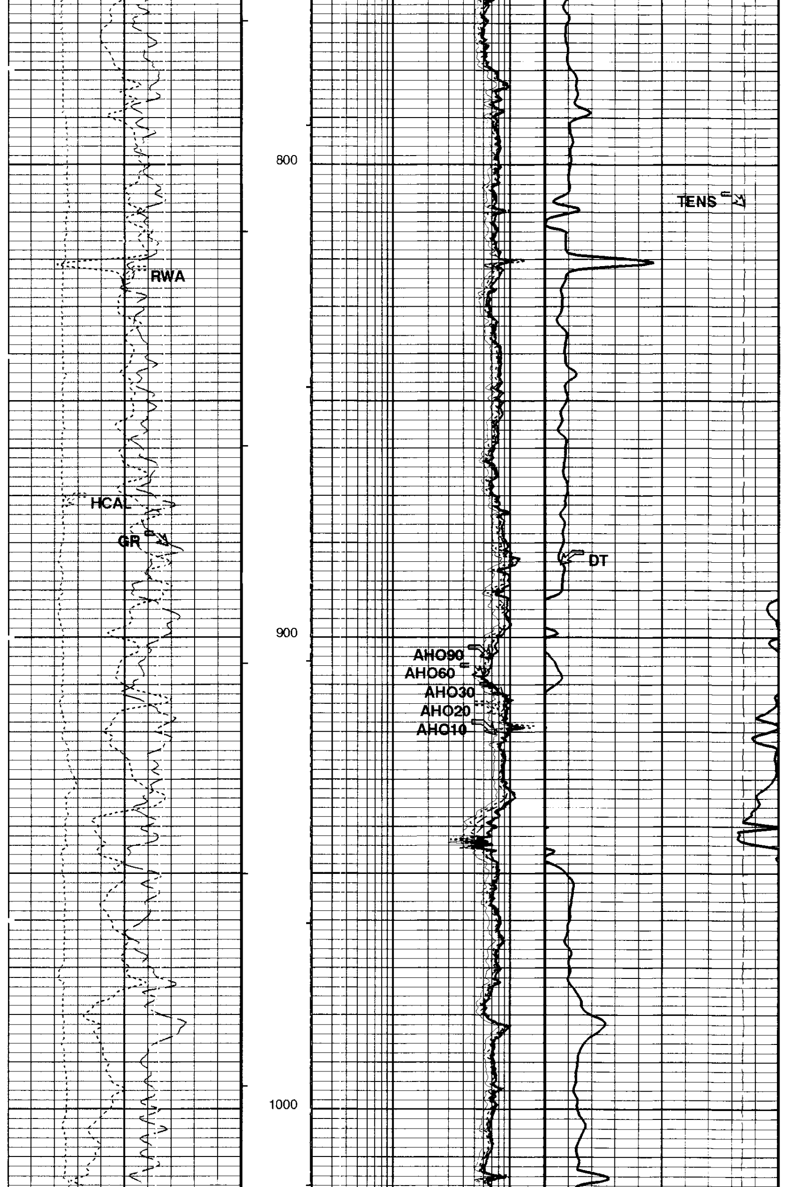
HILTB OP9-KP1 DSLT-BA OP9-KP1
TCCBF 9C0-413

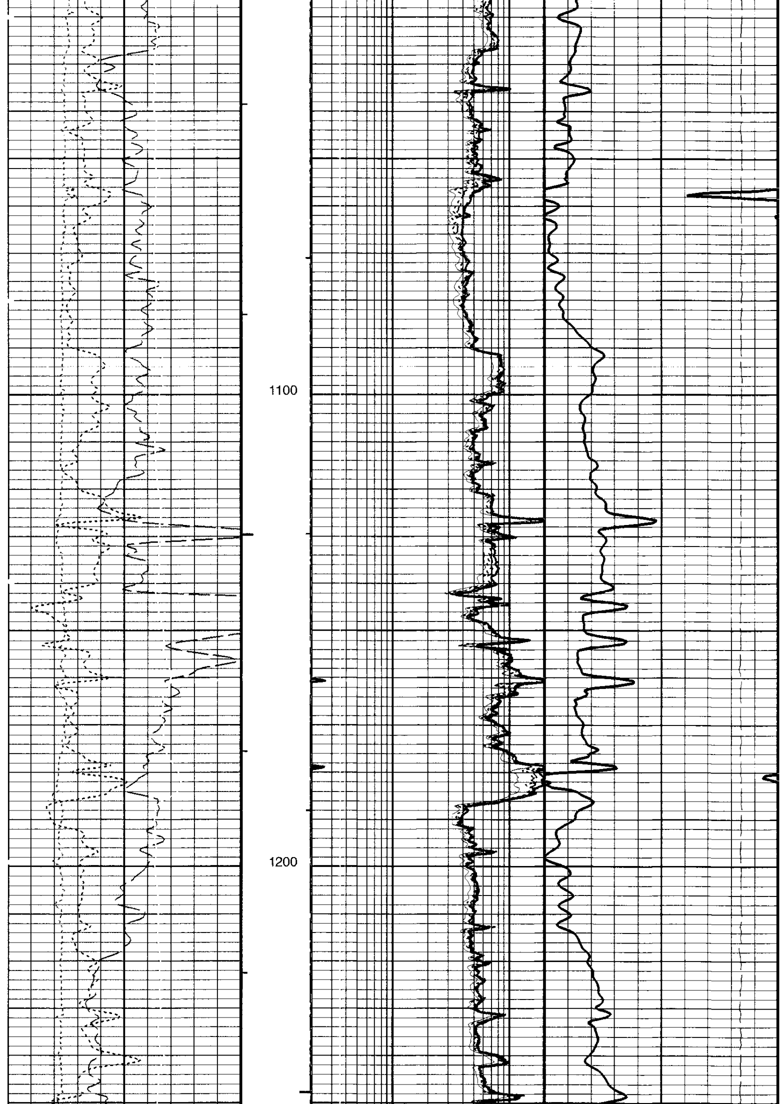
PIP SUMMARY

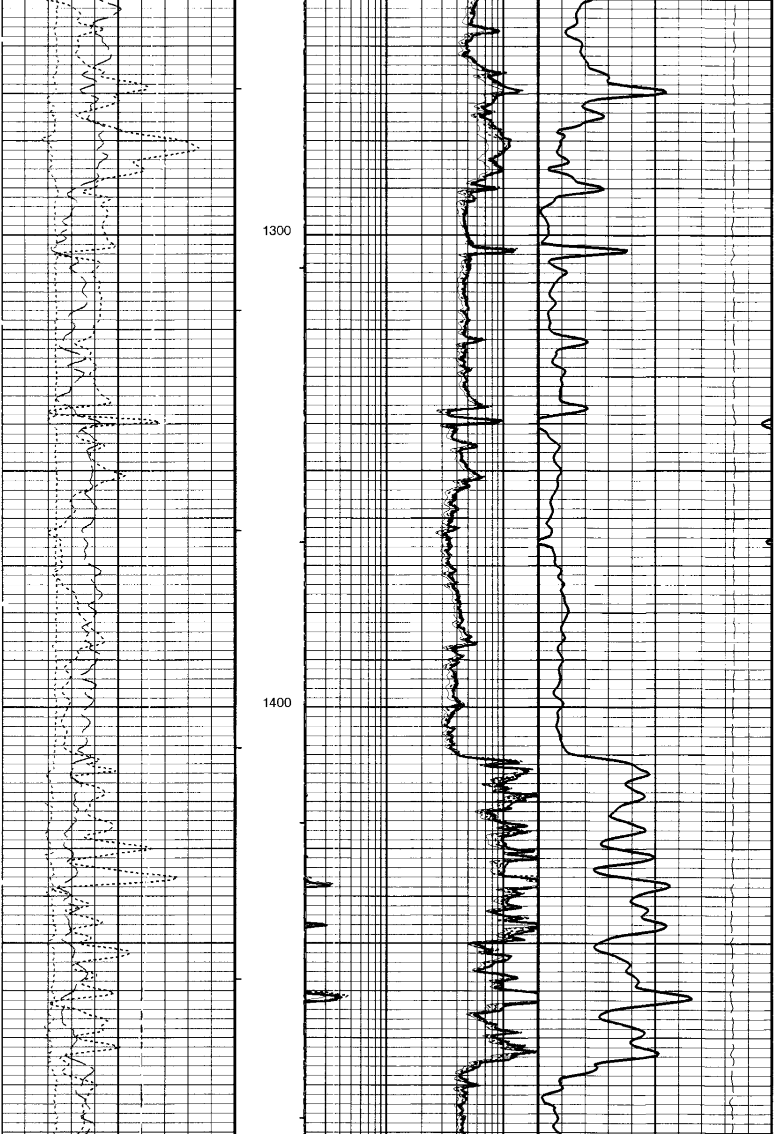
⊢ Integrated Hole Volume Minor Pip Every 10 F3
⊢ Integrated Hole Volume Major Pip Every 100 F3
⊣ Integrated Cement Volume Minor Pip Every 10 F3
⊣ Integrated Cement Volume Major Pip Every 100 F3
■ Time Mark Every 60 S

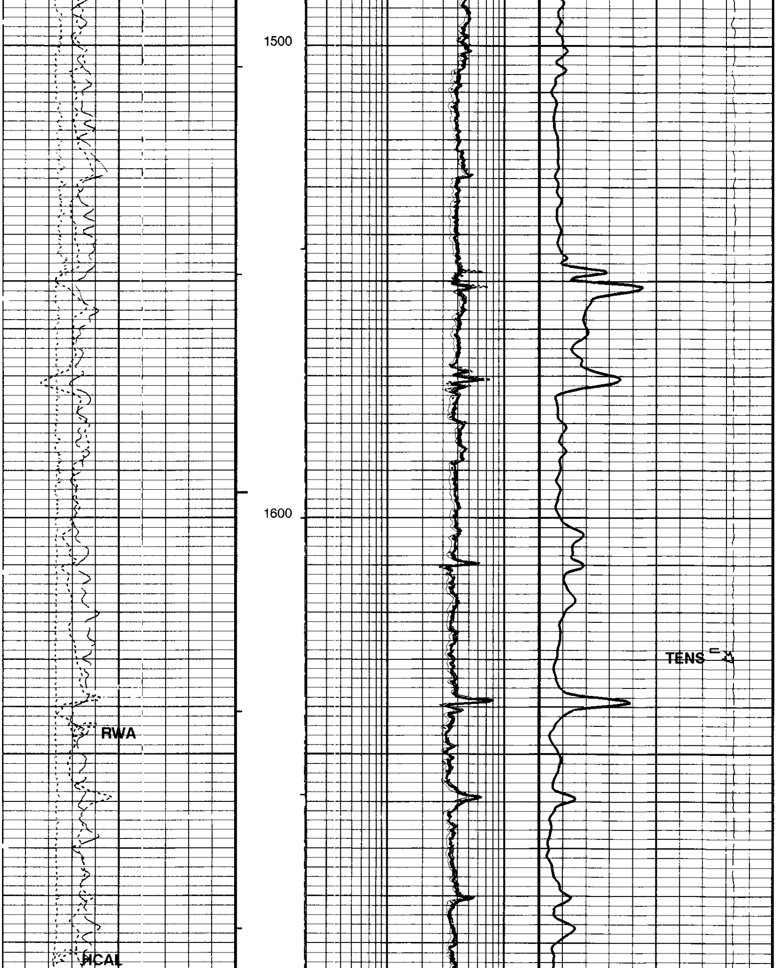


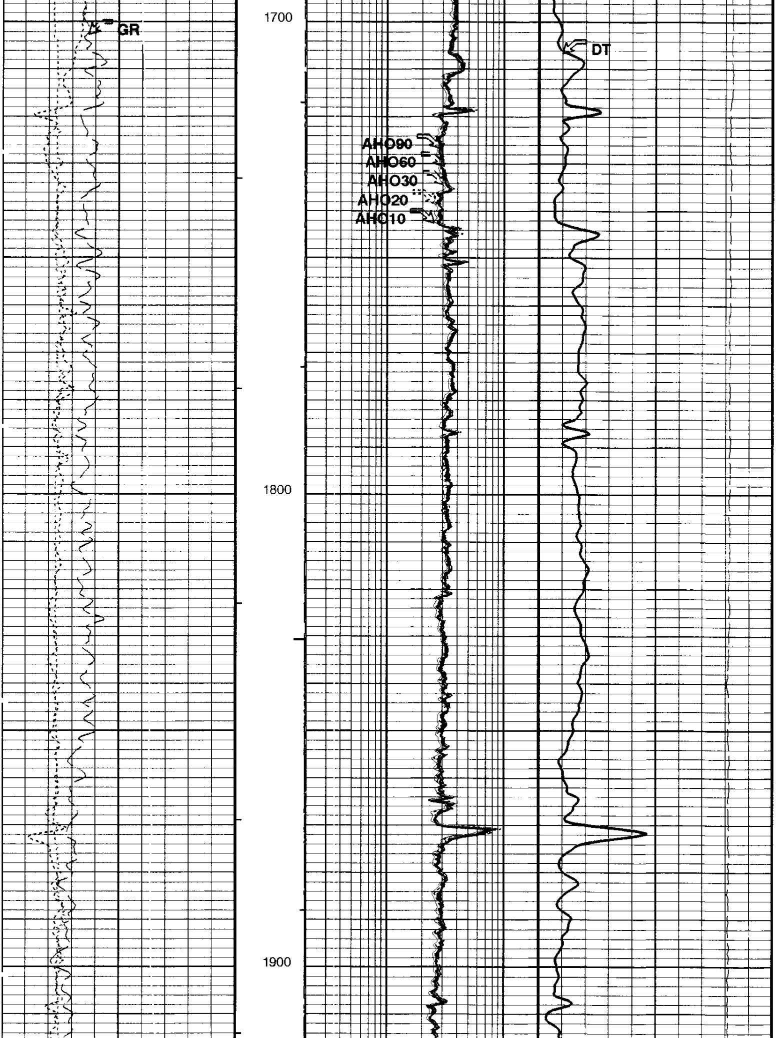


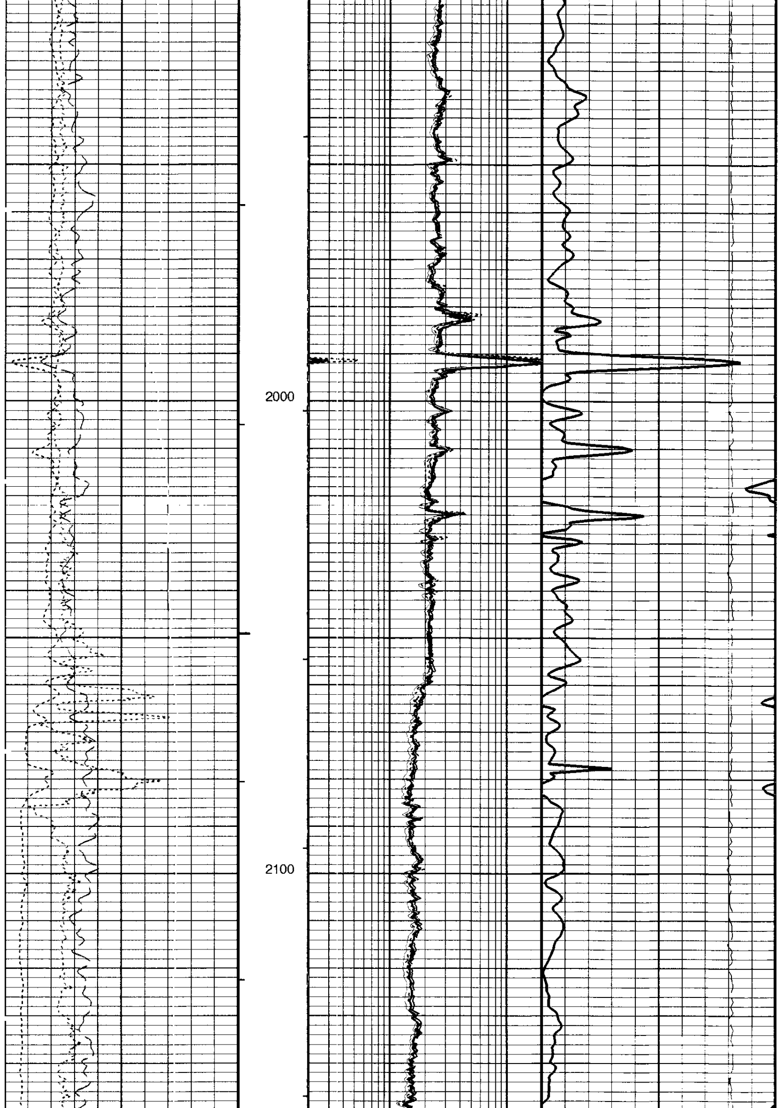


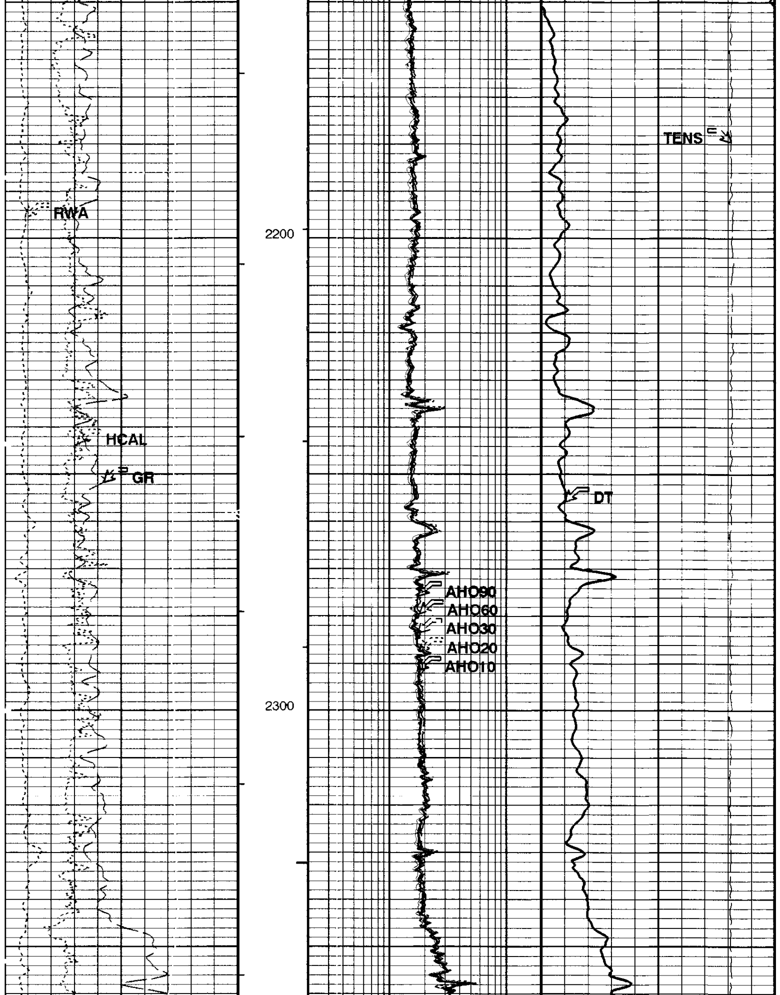


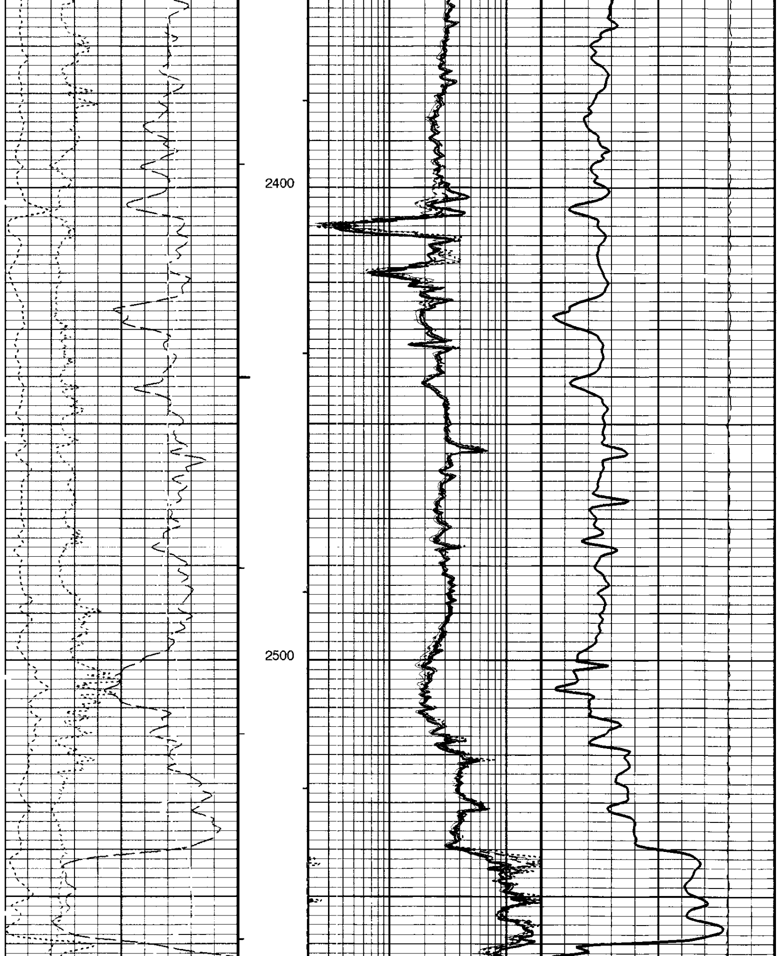


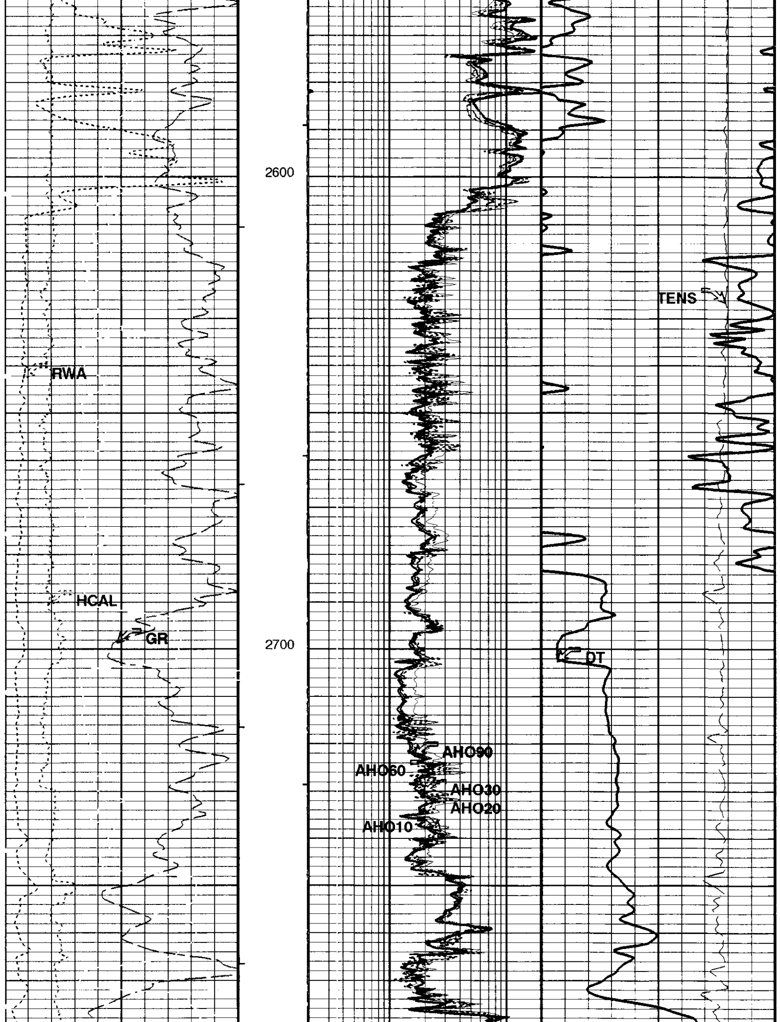


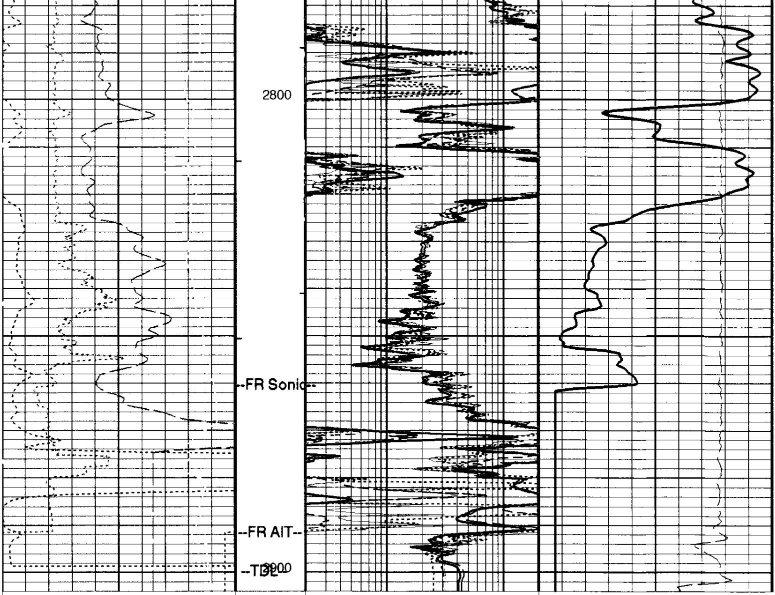












Track 1	Track 3	Track 4
Gamma Ray (GR) 0 (GAPI) 150	AIT-H 10 Inch Investigation (AHO10) 0.2 (OHMM) 20	Delta-T (DT) 150 (US/F) 50
Caliper (HCAL) 4 (IN) 14	AIT-H 20 Inch Investigation (AHO20) 0.2 (OHMM) 20	Tension (TENS) 10000 (LBF) 0
RWA (RWA) 0 (OHMM) 3	AIT-H 30 Inch Investigation (AHO30) 0.2 (OHMM) 20	
	AIT-H 60 Inch Investigation (AHO60) 0.2 (OHMM) 20	
	AIT-H 90 Inch Investigation (AHO90) 0.2 (OHMM) 20	

PIP SUMMARY

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AHMRF	AIT-H Mud Resistivity Factor	1.000	
AHSAP	AIT-H Suspend Answer Product Processing	0_NOSUSPENSION	
AHSTA	AIT-H Tool Standoff	0.500	in
ARTS	AIT Rt Selection (for ALLRES computation)	13_AHT90	
BHT	Bottom Hole Temperature (used in calculations)	101.0	degF
BS	Bit Size	6.250	in
DFD	Drilling Fluid Density	9.100	lbm/gal
DHC	Density Hole Correction	BS	
DTCM	Delta-T Computation Mode	FULL	
FEXP	Form Factor Exponent	2.000	
FNUM	Form Factor Numerator	1.000	
FPHI	Form Factor Porosity Source	DPHZ	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
GRSE	Generalized Mud Resistivity Selection	GEN9	
GTSE	Generalized Temperature Selection	TEMP	
HSCM	HILT Speed Correction Mode	NO_SC	
HSTI	STI Uses HILT Acceleration	YES	
MODE	Sonic Firing Mode	BHC	
MST	Mud Sample Temperature	89.000	degF
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	STDRES	
NSAR	HRDD Depth Sampling Rate	1.000	in
RMFS	Resistivity of Mud Filtrate Sample	0.870	ohm.m
RTCO	RTCO - Rt Invasion Correction	YES	
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COMPANY:	Enerfin Resources Northwest
WELL:	C.C. 14-22-75 (Raptor)
FIELD:	Mist Gas
COUNTY:	Columbia
STATE:	Oregon

BOTTOM LOG INTERVAL	2892 ft
SCHLUMBERGER DEPTH	2900 ft
DEPTH DRILLER	2976 ft
KELLY BUSHING	1339.79 ft
DRILL FLOOR	
GROUND LEVEL	1329.79 ft

Schlumberger

Array Induction
BHC Sonic