HALLIBURTON

DUAL INDUCTION
COMPENSATED SONIC

5" = 100'

COMPANY ENERFIN RESOURCES N
WELL JH #31-20-54
FIELD MIST
COUNTY COLUMBIA STATE OR

COMPANY ENERFIN RESOURCES NORTHWEST
WELL JH #31-20-54
FIELD MIST
COUNTY COLUMBIA STATE OR
API NO 36-009-00321
LOCATION
1956.73 FEET WEST AND
74.90 FEET SOUTH FROM
THE NORTHEAST CORNER OF:
SECT 20 TWP 5N. RGE 4W.

OTHER SERVICES
NONE

PERMANENT DATUM G.L. ELEV. 624.8
LOG MEASURED FROM K.B. 10.0 FT.ABOVE PERM DATUM
DRILLING MEASURED FROM KELLY BUSHING

ELEV.: K.B. 634.8
D.F. ---
G.L. 624.8

DATE	09/28/96			
RUN NO.	ONE			
DEPTH-DRILLER	2436			
DEPTH-LOGGER	2436			
BTM. LOG INTER	2434			
TOP LOG INTER	CASING			
CASING DRILLER	7.000@ 495	@	@	@
CASING-LOGGER	495			
BIT SIZE	6.250			
TYPE FLUID IN HOLE	DRIS./ACRY.			
DENS. : VISC.	10.3 : 43	:	:	:
PH : FLUID LOSS	8.0 : 6.0	:	:	:
SOURCE OF SAMPLE	CIRCULATED			
RM @ MEAS. TEMP.	0.9 @ 73	@	@	@
RMF @ MEAS. TEMP.	0.8 @ 73	@	@	@
RMC @ MEAS. TEMP.	1.2 @ 73	@	@	@
SOURCE RMF:RMC	CIRC.:CIRC.	:	:	:
RM @BHT	0.7 @ 100	@	@	@
TIME SINCE CIRC.	1800 09/28			
TIME ON BOTTOM	2156 09/28			
MAX. REC TEMP.	100 @ BHT	@	@	@
EQUIP.: LOCATION	7626 :WDLND	:	:	:
RECORDED BY	M.SCHWARTZ			
WITNESSED BY	D.HUGGINS	R.LUCAS		

FOLD HERE

SERVICE TICKET NO.: 997079 API SERIAL NO.: 36-009-00321 PGM VERSION: 3.30

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES

RESISTIVITY SCALE CHANGES

			TYPE LOG	DEPTH	SCALE UP HOLE	SCALE DOWN HOLE
DATE:SAMPLE NO.	09/28/96:ONE	/ / :				
DEPTH-DRILLER						
TYPE FLUID	SAME ABOVE					
IN HOLE						
DENS. : VISC	:	:				
PH : FLUID LOSS	:	:				

SOURCE OF SAMPLE		
RM @ MEAS TEMP	@	@
RMF @ MEAS TEMP	@	@
RMC @ MEAS TEMP	@	@
SOURCE: RMF:RMC	CALC.:CALC.	:
RM @ BHT	0.7 @ 100	@
RMF @ BHT	0.6 @ 100	@
RMC @ BHT	0.9 @ 100	@

RESISTIVITY EQUIPMENT DATA

RUN NO	TOOL TYPE & NO	PAD TYPE	TOOL POS.	OTHER
ONE	DILT #109432	N.A.	1.5"SO	
ONE	DSGT #108932	N.A.	1.5"SO	

EQUIPMENT DATA

GAMMA		ACOUSTIC		DENSITY		NEUTRON	
RUN NO.	ONE	RUN NO.	ONE	RUN NO.		RUN NO.	
SERIAL NO.	108581	SERIAL NO.	FDBA013	SERIAL NO.		SERIAL NO.	
MODEL NO.	NGRT	MODEL NO.	LSS	MODEL NO.		MODEL NO.	
DIAMETER	3.625	NO.OF CENT.	THREE	DIAMETER.		DIAMETER	
DETECTOR MODEL NO.	N.A.	SPACING	10 FEET	LOG TYPE		LOG TYPE	
TYPE	SCINT.		11 FEET	SOURCE TYPE		SOURCE TYPE	
LENGTH	4.000	LSA [Y/N]	YES	SERIAL NO.		SERIAL NO.	
DISTANCE TO SOURCE	N.A.	FWDA [Y,N]	NO	STRENGTH		STRENGTH	

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	2436	495	30	0	150	150	50	57						
				GAPI	GAPI	USFT	USFT	US/FT						

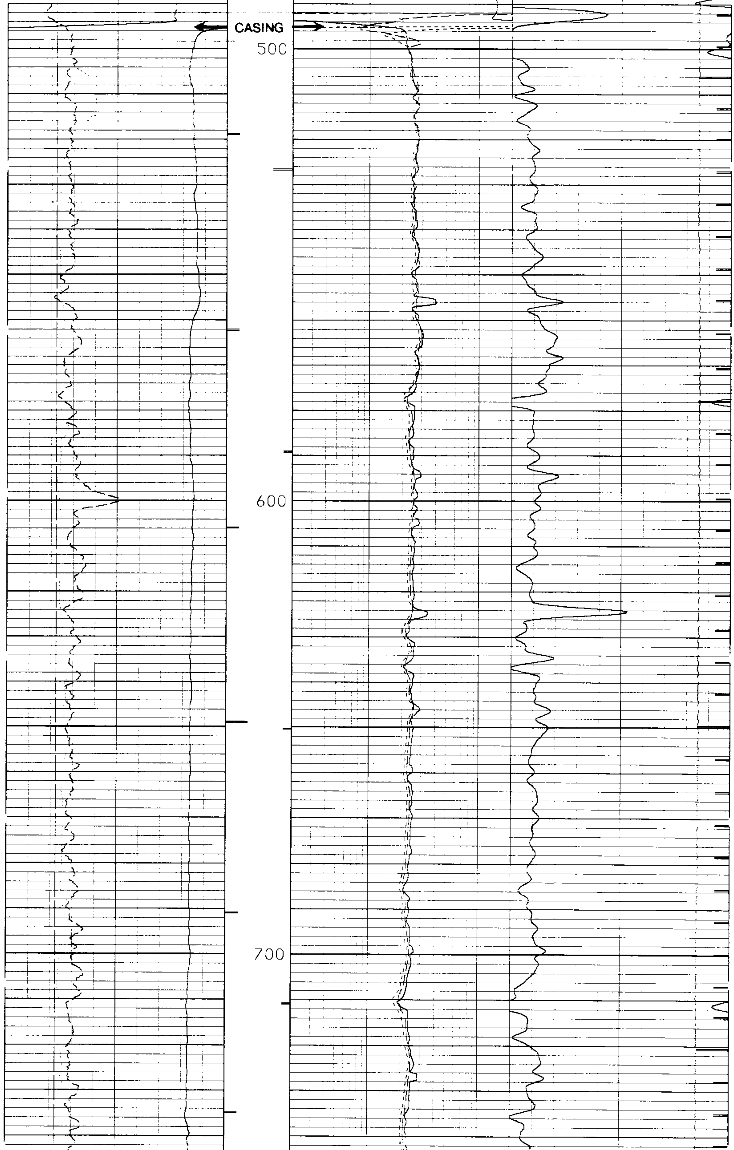
REMARKS: ANNULAR HOLE VOLUME CALCULATED USING 3.5" CASING.

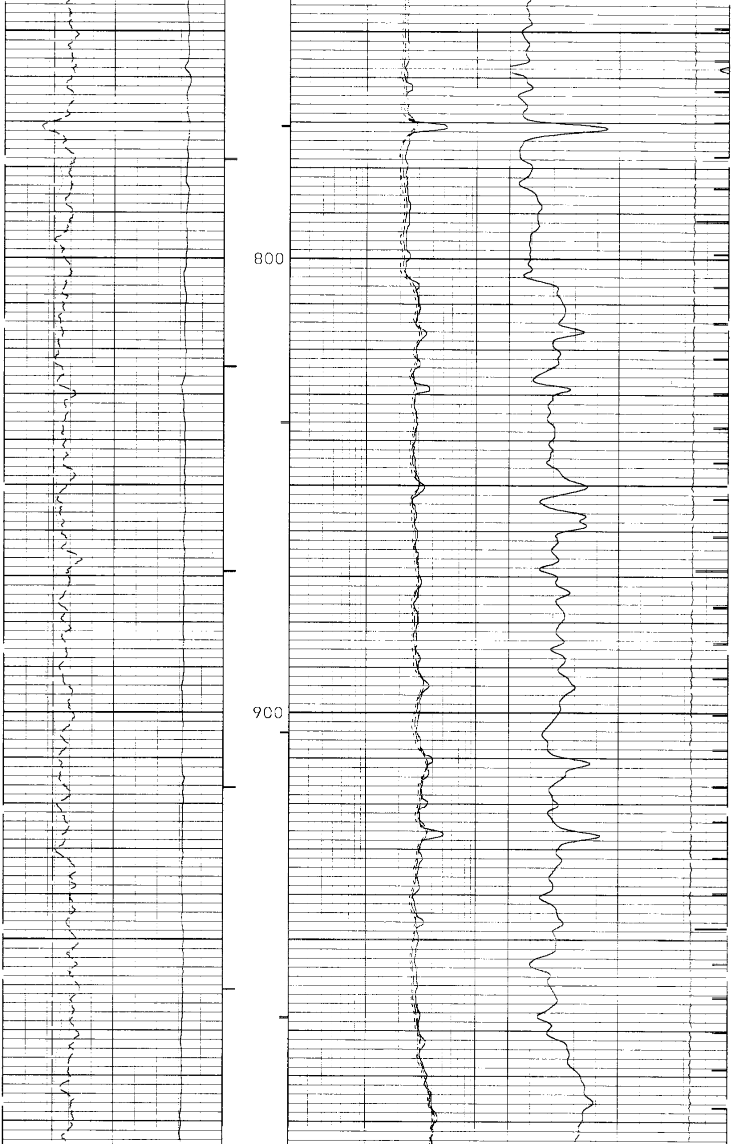
CREW ON LOCATION: M.EMERSON, M.BOLLINGER RIG: TAYLOR #4

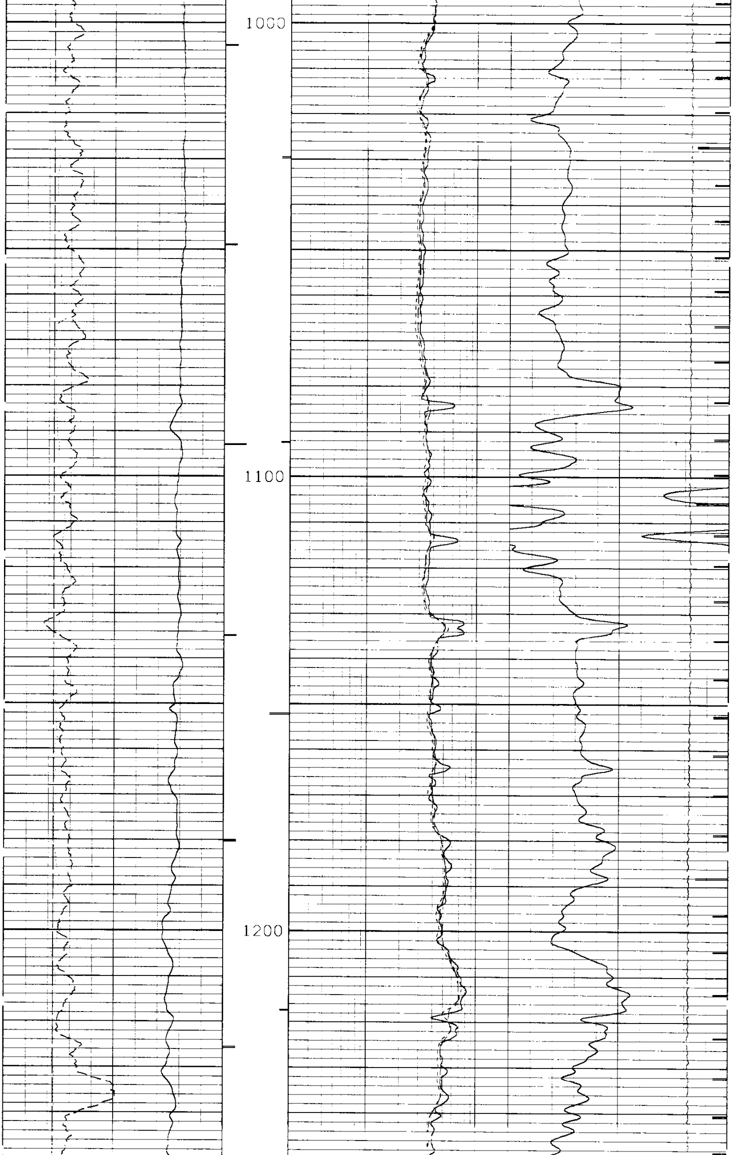
THANK YOU FOR USING HALLIBURTON.

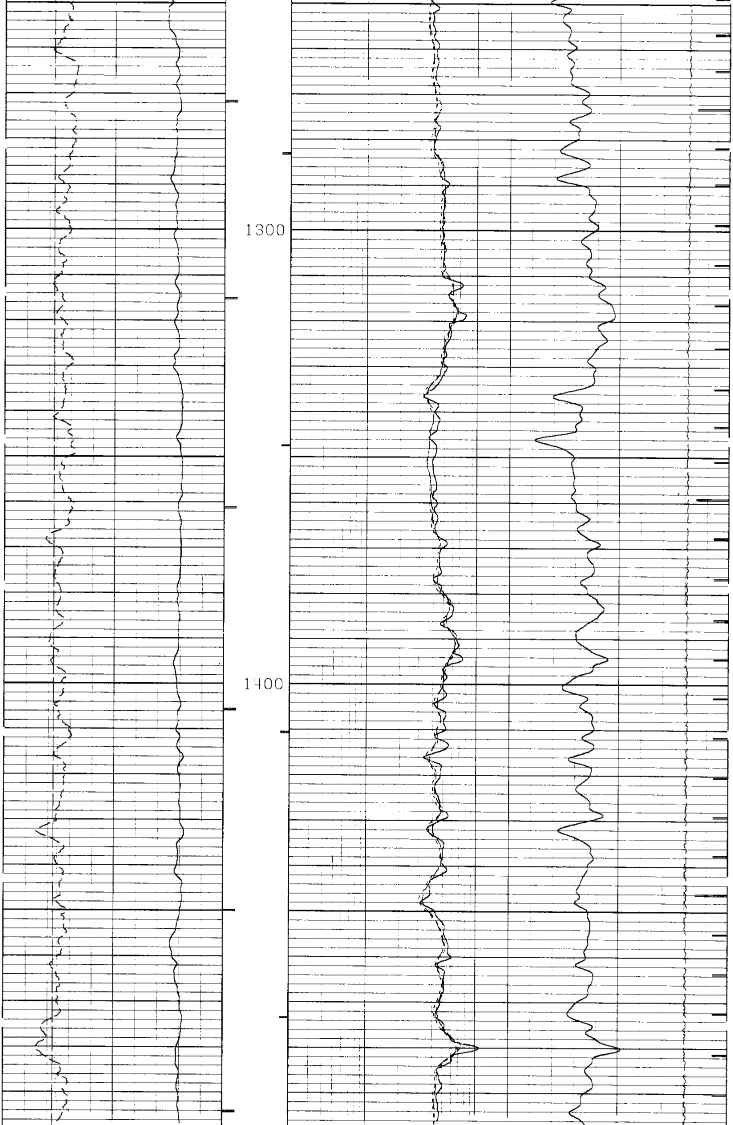
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR 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

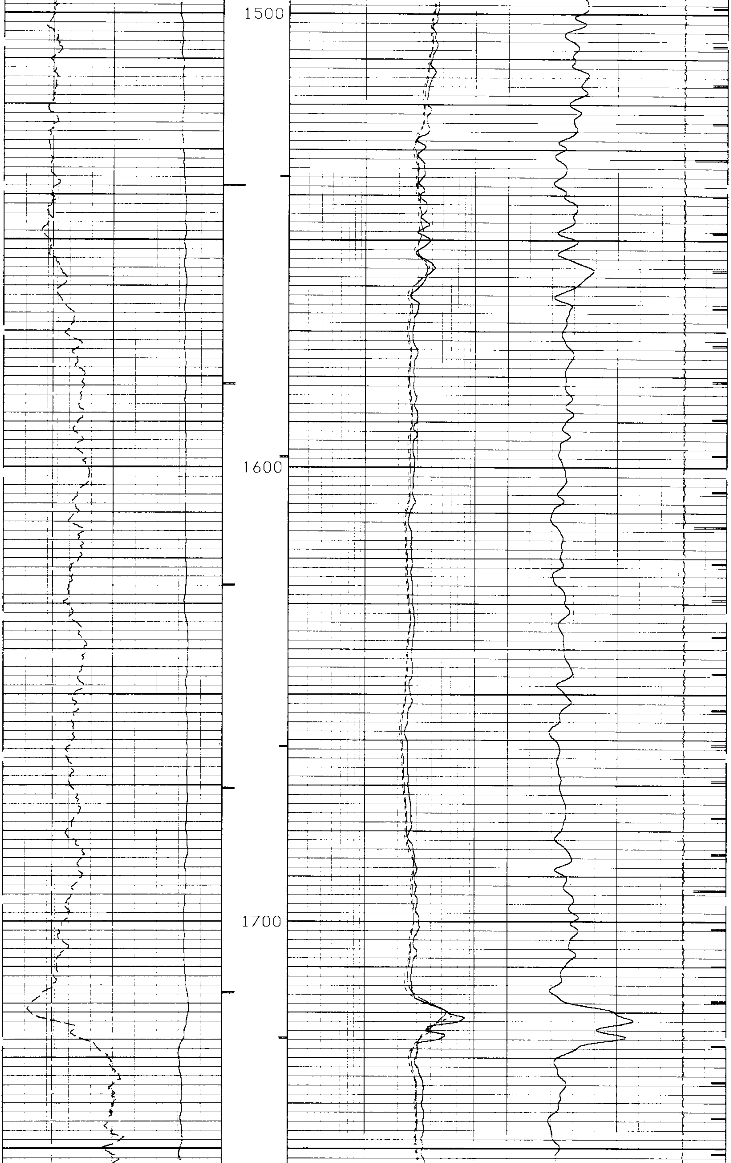
GAMMA	AHV	DEEP	TENSION
0 API COUNTS 150	---->	0.2 OHM-M 20	10000 POUNDS 0
SP	BHV	MEDIUM	DELTA T
-]10[+	<----	0.2 OHM-M 20	150 USEC/FT 50
BIT SIZE		GUARD	ITT MARK
4 INCHES 14		0.2 OHM-M 20	---->
CALIPER			
4 INCHES 14			

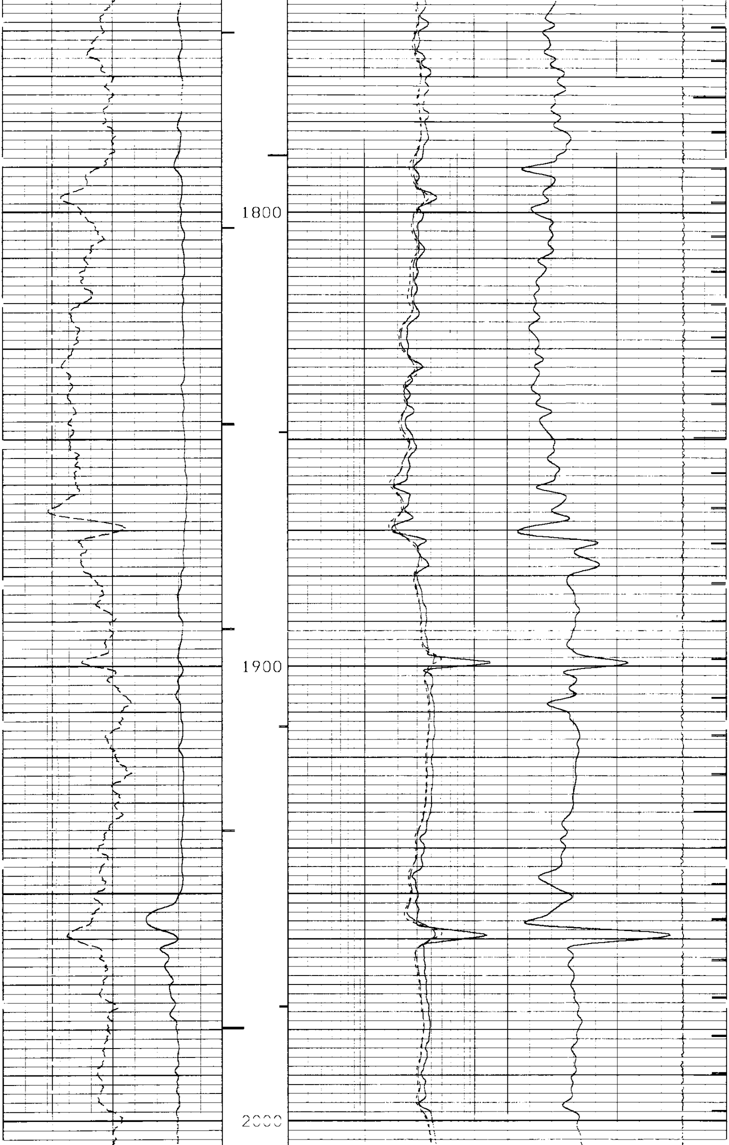


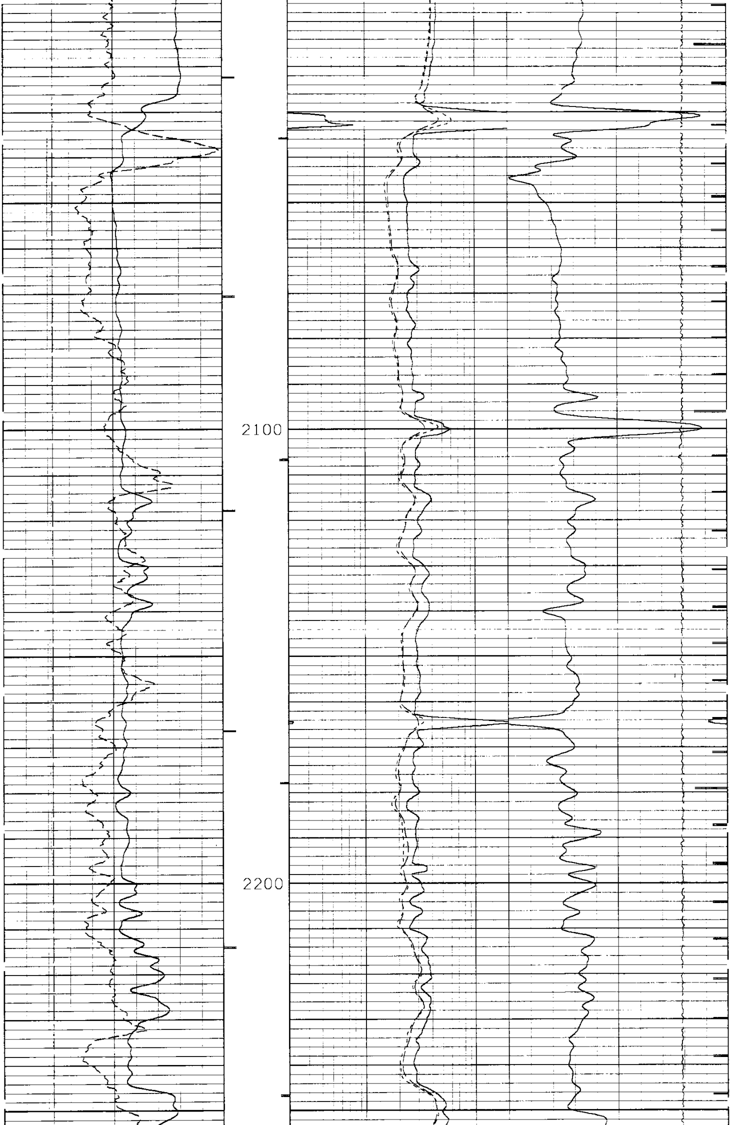


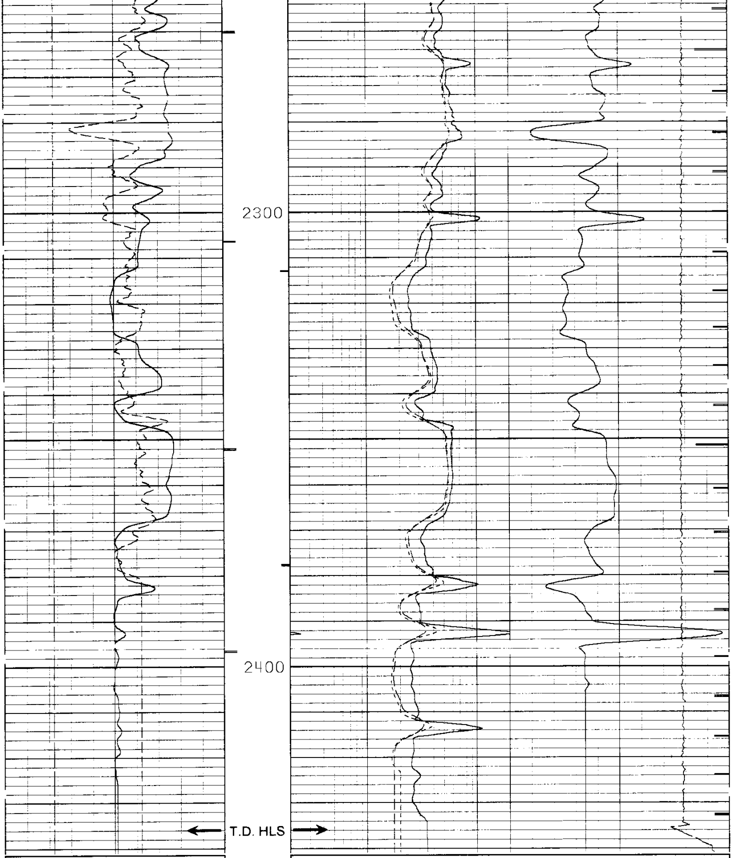










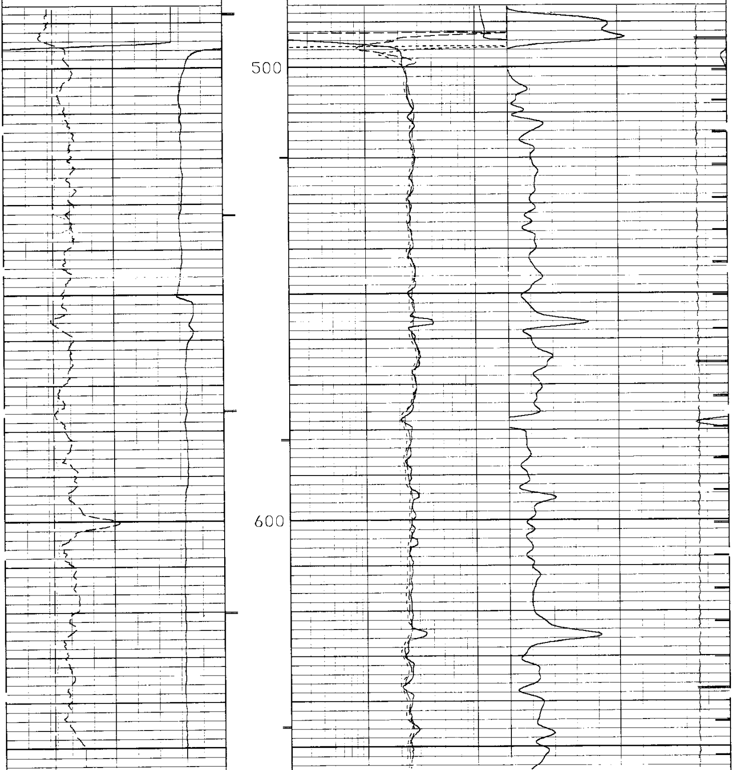


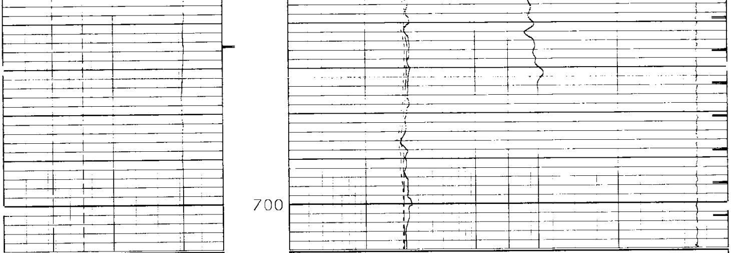
CALIPER			
4 INCHES 14			
BIT SIZE		GUARD	ITT MARK
4 INCHES 14		0.2 OHM-M 20	---->
SP	BHV	MEDIUM	DELTA T
-]10[+	<----	0.2 OHM-M 20	150 USEC/FT 50
GAMMA	AHV	DEEP	TENSION
0 API COUNTS 150	---->	0.2 OHM-M 20	10000 POUNDS 3

UPLOG # 2 Depth: 2440.00 Service:2242.04 Unit:7626
Realtime Log Date: 28-SEP-1996 Time: 21:56:01 Vers:2.80

REPEAT SECTION

GAMMA	BHV	DEEP	TENSION
0 API COUNTS 150	---->	0.2 OHM-M 20	10000 POUNDS 0
SP	BHV	MEDIUM	DELTA T
-]10[+	<----	0.2 OHM-M 20	150 USEC/FT 50
BIT SIZE		GUARD	ITT MARK
4 INCHES 14		0.2 OHM-M 20	---->
CALIPER			
4 INCHES 14			





CALIPER			
4 INCHES 14			
BIT SIZE		GUARD	ITT MARK
4 INCHES 14		0.2 OHM-M 20	---->
SP	BHV	MEDIUM	DELTA T
-]10[+	<----	0.2 OHM-M 20	150 USEC/FT 50
GAMMA	AHV	DEEP	TENSION
API COUNTS 150	---->	0.2 OHM-M 20	10000 POUNDS 0

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UPLOG        *    Depth:       710.00 Service:2242.04   Unit:7626
Realtime Log        28-SEP-1996 Time:  21:37:50   Vers:2.80
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