CC 04

Welex

THERMAL MULTIGATE DECAY LOG (TMD)

COMPANY REICHHOLD ENERGY
WELL C.C. No. 4 R/D No. 1
FIELD MIST
COUNTY COLUM. STATE ORE

COMPANY REICHHOLD ENERGY
WELL C.C. No. 4 R/D No. 1
FIELD MIST
COUNTY COLUMBIA STATE OREGON

Location:
NONE
WB&M
Sec. 15 Twp. 6 N Rge. 5 W

Other Services:
T.T.B.P.

RECEIVED - PTLD
AUG 26 1985
DEPT. OF GEOLOGY

Permanent Datum GL Elev. 753.6
Log Measured From KB 12 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 765.6
D.F.
G.L. 753.6

Date	10-25-83			
Run No.	ONE			
Depth — Driller	2574			
Depth — Welex	2574			
Btm. Log Inter.	2573			
Top Log Inter.	2200			
Type Fluid in Hole	FORMATION			
Salinity ppm NaCl	20,000			
Density lb./gal.	9.1			
Level	N/A			
Max. Rec. Temp.	140			
Opr. Rig Time	4 HOURS			
Equip. I Location	9430 I WDLND	I	I	I
Recorded by	JORDAN, JACKSON			
Witnessed by	STINSON			

Borehole Record

Bit	From	To
6 1/4	401	2890

Casing & Tubing Record

Size	Weight	From	To
7	20	SURFACE	401
4 1/2	10.5	SURFACE	2690
2 3/8	4.7	SURFACE	2276

EQUIPMENT DATA

API NO.

SOFTWARE VERSION NO.

GAMMA RAY

Run No.	ONE		
Tool Model No.	395		
Diameter	1 11/16		
Detector Model No.	N/A		
Type	SCINT		
Length	6"		
Distance to N. Source	N/A		

GENERAL

Hoist Truck No.	9430		
Instrument Truck No.	3021		
Tool Serial No.	106332		

TMD

Run No.	ONE		
Log Type	TMD		
Tool Model No.	395		
Diameter	1 11/16		
Detector Model No.	N/A		
Type - SS	SCINT		
Type - LS	SCINT		
Source Model No.	A-320A		
Serial No.	106332		
Spacing	N/A		
Type	D-T		
Strength	1×10^8 n/sec		

LOGGING DATA

GENERAL				GAMMA RAY				TMD			
Run No	Depth From	Depth To	Speed Ft./Min.	Filter Type B or A	Sens. Settings	Zero Div. L or R	API G.R. Units Per Log Div.	Input Filter Type B or A.	Output Filter (Σ_{FM} only) Y or N	Borehole Option Fresh or Salt	R_{NF} Sensitivity
ONE	2574	2200	18	A	.38641	L	15	A	Y	BOTH	1.0498

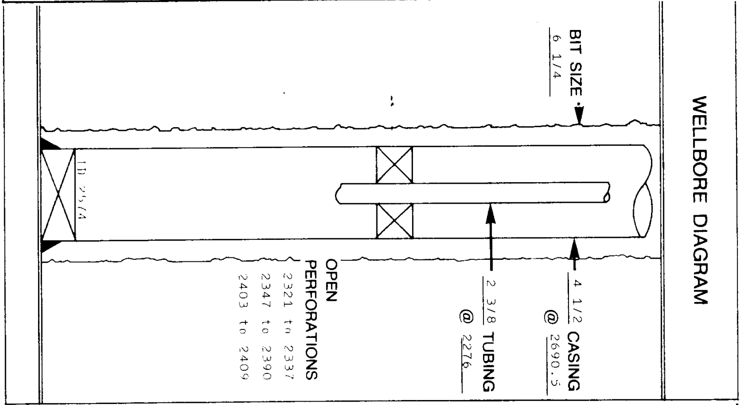
Reference Literature:

Service Ticket No. 154301

Remarks: Ew-33 Esh-35 Ehc-2.5 BH-GAS FILLED
CALC. OPTION 3 AVG 0-30%

DRAFTED BY — JOHN YAECK

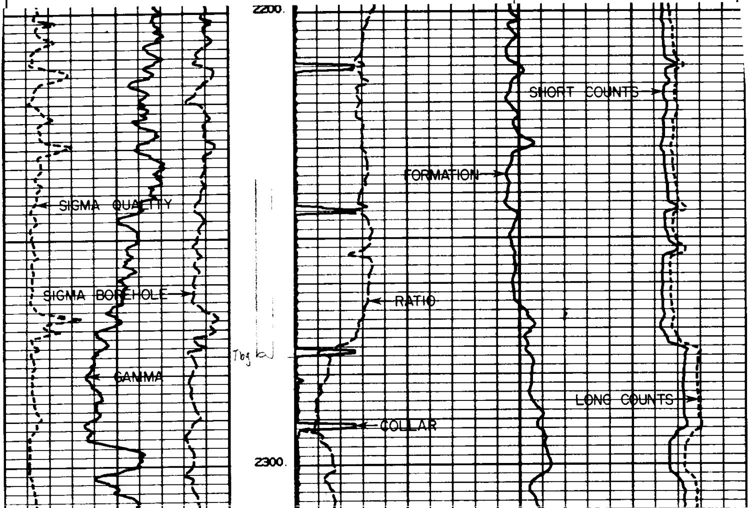
Welex does not guarantee the accuracy of any interpretation of log data, conversion of log data to physical rock parameters, or recommendations which may be given by Welex personnel or which may appear on the log or in any other form. Any user of such data, interpretations, conversions, or recommendations agrees that Welex is not responsible, except where due to gross negligence or wilful misconduct, for any loss, damages, or expenses resulting from the use thereof.

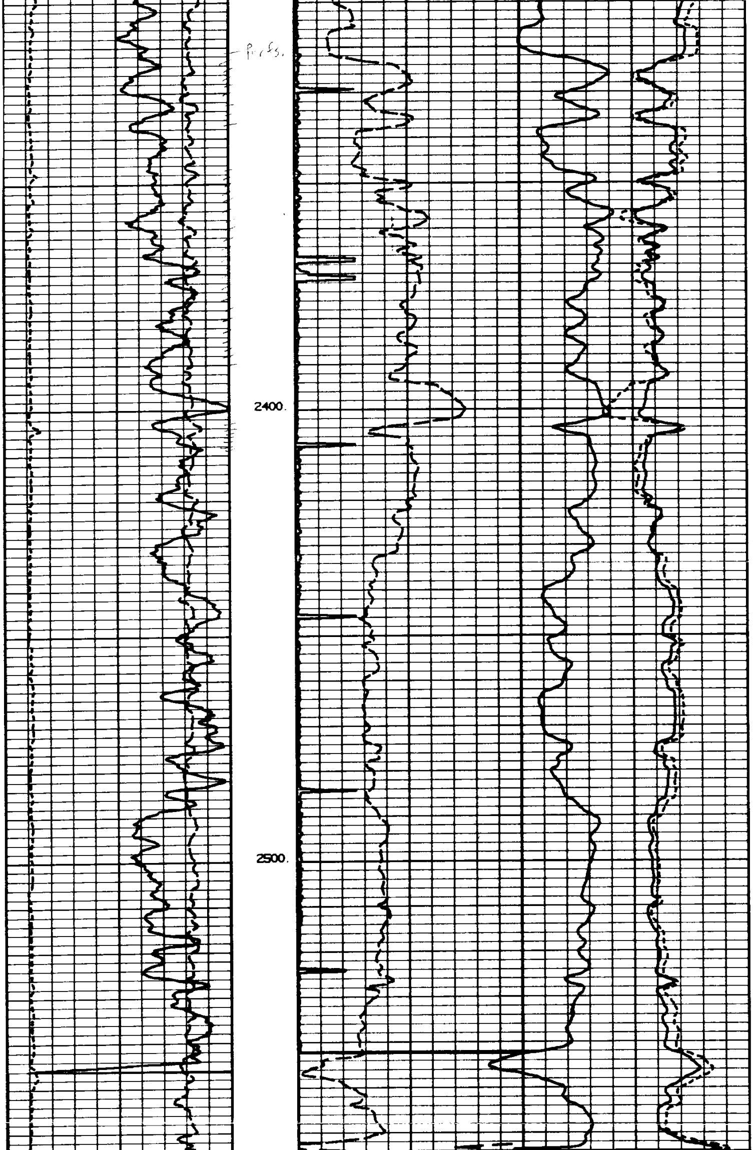


PRIMARY

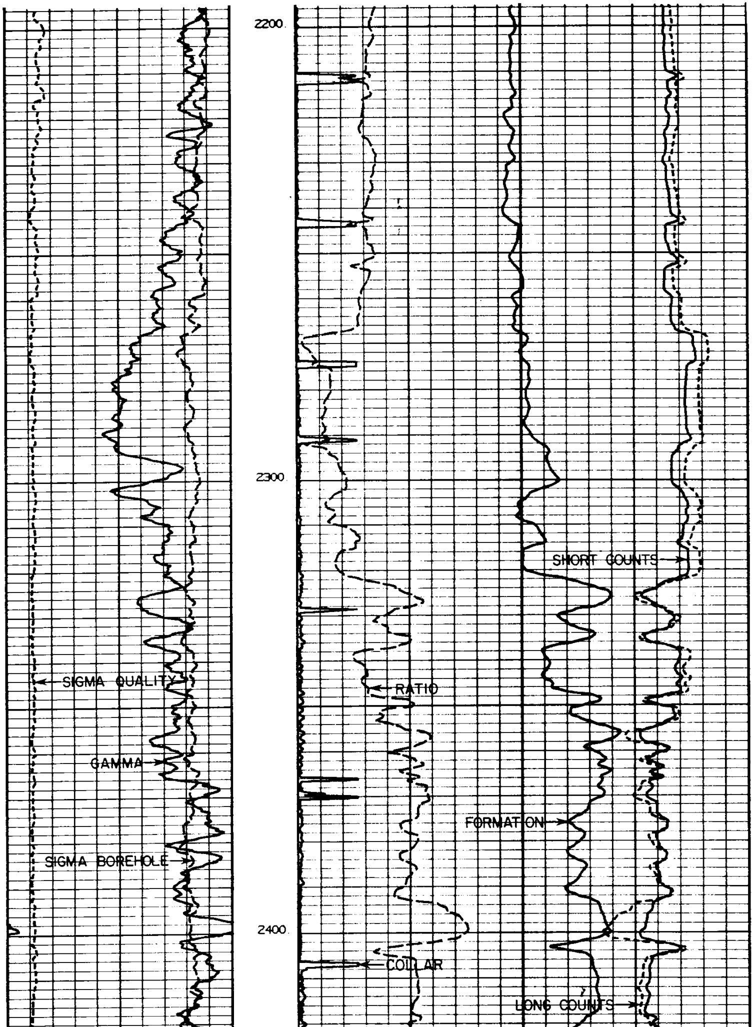
1.05	Σ_{QUAL}	0.55	60	Σ_{FM}^{CORR}				0
240	Σ_{BH-SS}	40	0	CCL	300	30000	(G3-6) SS	0
0	GAMMA	150	8	R_{NF}	3	5500	(G3-6) LS	0

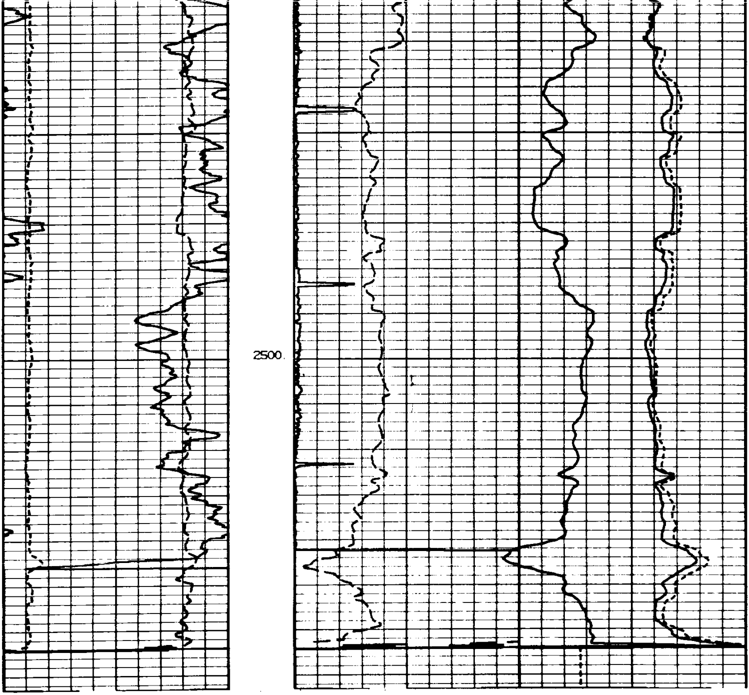
FRESH OPTION





SALT OPTION



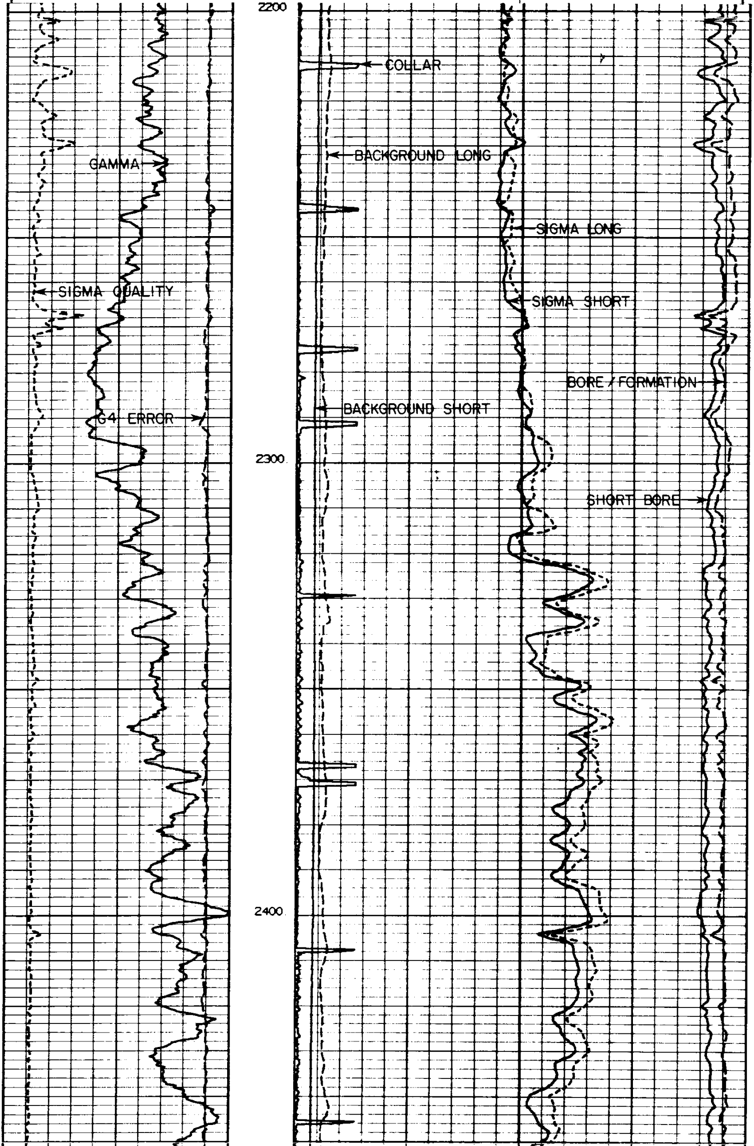


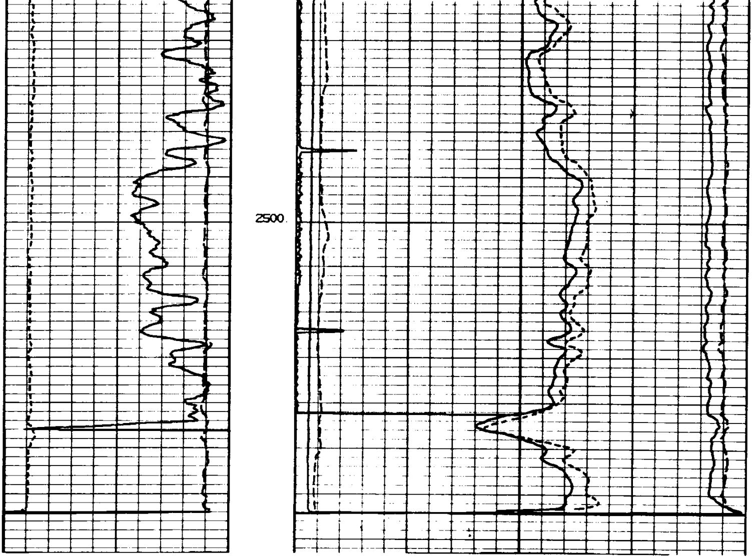
0	GAMMA	150						
240	Σ_{BH-SS}	40	8	$R_{N/F}$	3	5500	(G3-6) LS	0
1.05	Σ_{QUAL}	0.55	0	CCL	800	30000	(G3-6) SS	0
			60	Σ_{FM}^{CORR}				0

QUALITY

1.05	Σ_{QUAL}	0.55	60	Σ_{FM-SS}				0
0.9	$G4_{ERROR}$	-0.1	60	Σ_{FM-LS}				
0	GAMMA	150	0	CCL	800			
			0	LS-BKG	100	5	$R_{BH/FM}$	0
			0	SS-BKG	1000	90000	$(A_{BH} \cdot \tau_{BH})$ SS	0

FRESH OPTION





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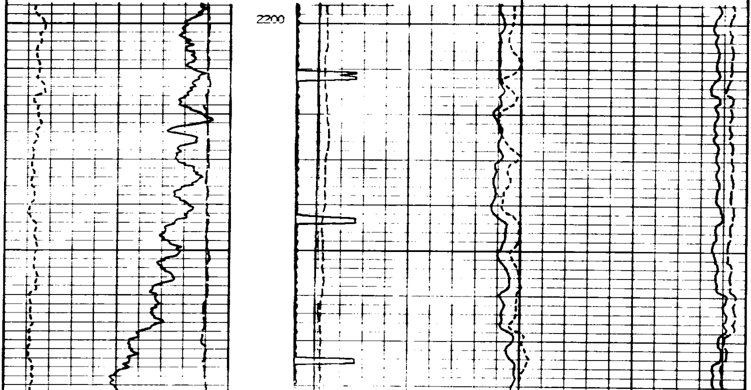
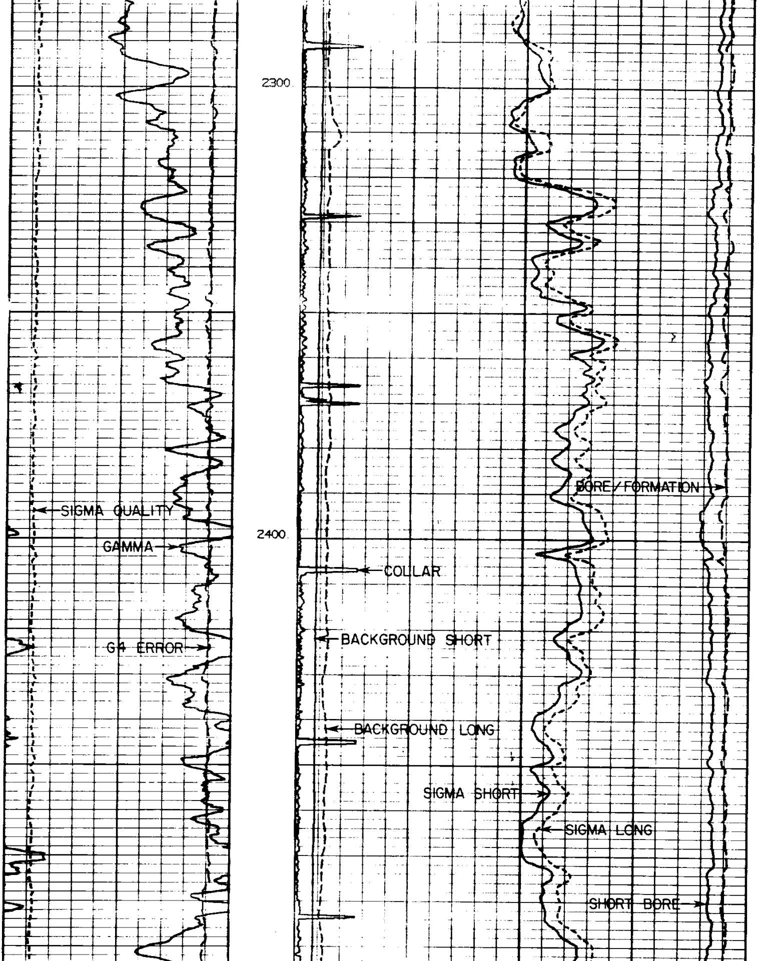
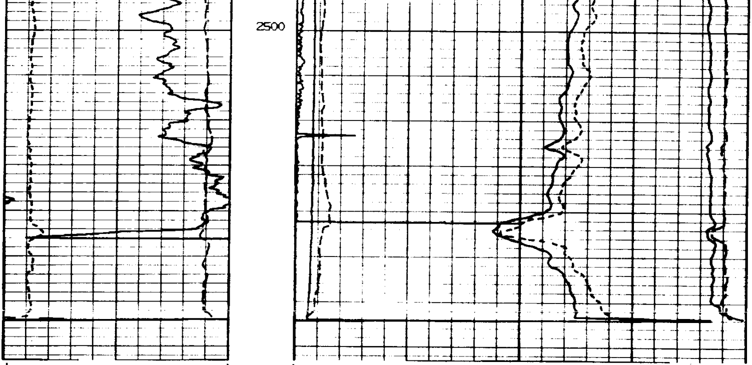






	0 SS-BKG 1000	90000 $(A_{BH} \cdot T_{BH})$ SS 0
	0 LS-BKG 100	5 $R_{BH/FM}$ 0
0 GAMMA 150	0 CCL 300	
0.9 $G4_{ERROR}$ -0.1	60 Σ_{FM-LS} 0	
1.05 Σ_{QUAL} 0.55	60 Σ_{FM-SS} 0	

COMPANY REICHHOLD ENERGY

WELL C.C. No. 4 R/D No.1

FIELD MIST

COUNTY COLUMBIA STATE OREGON

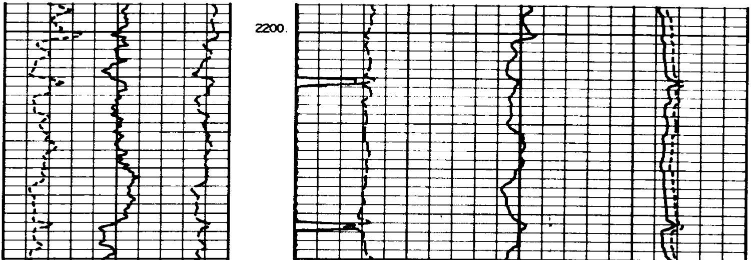
T.D. LOGGED 2573

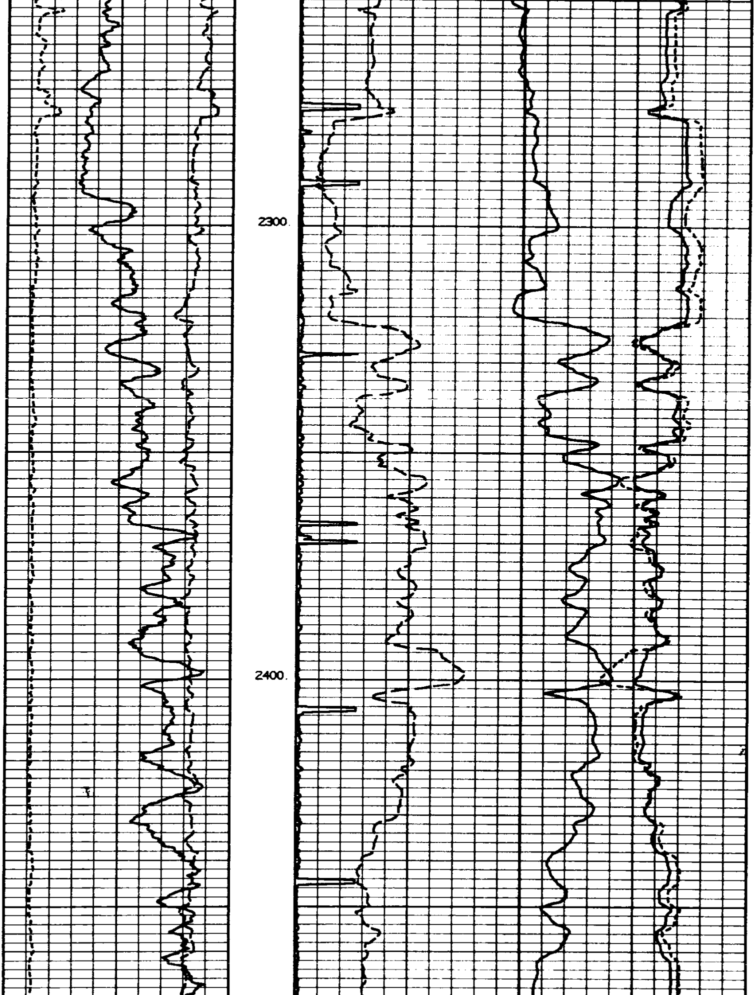
T.D. DRILLER 2574

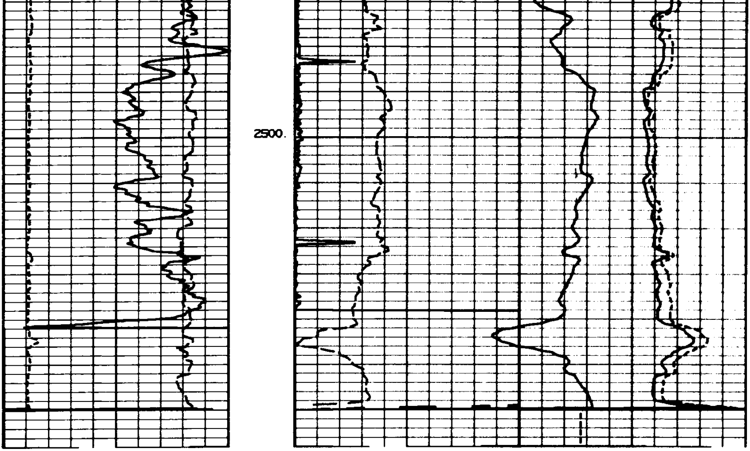
T.D. WELEX 2574

REPEAT SECTION

FRESH — PRIMARY

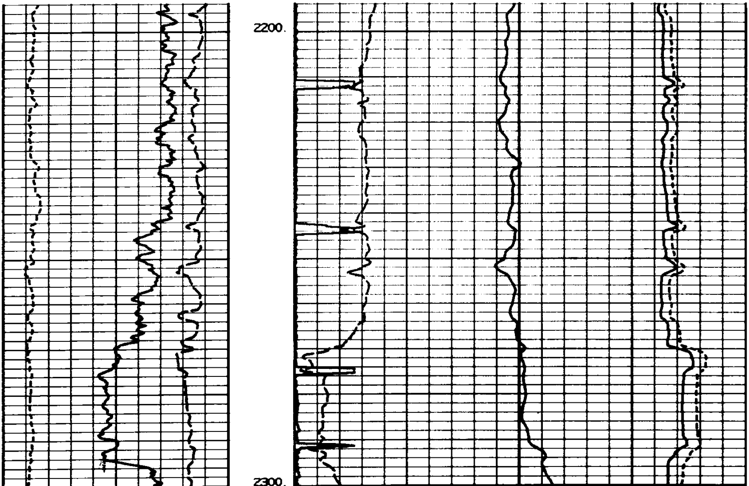


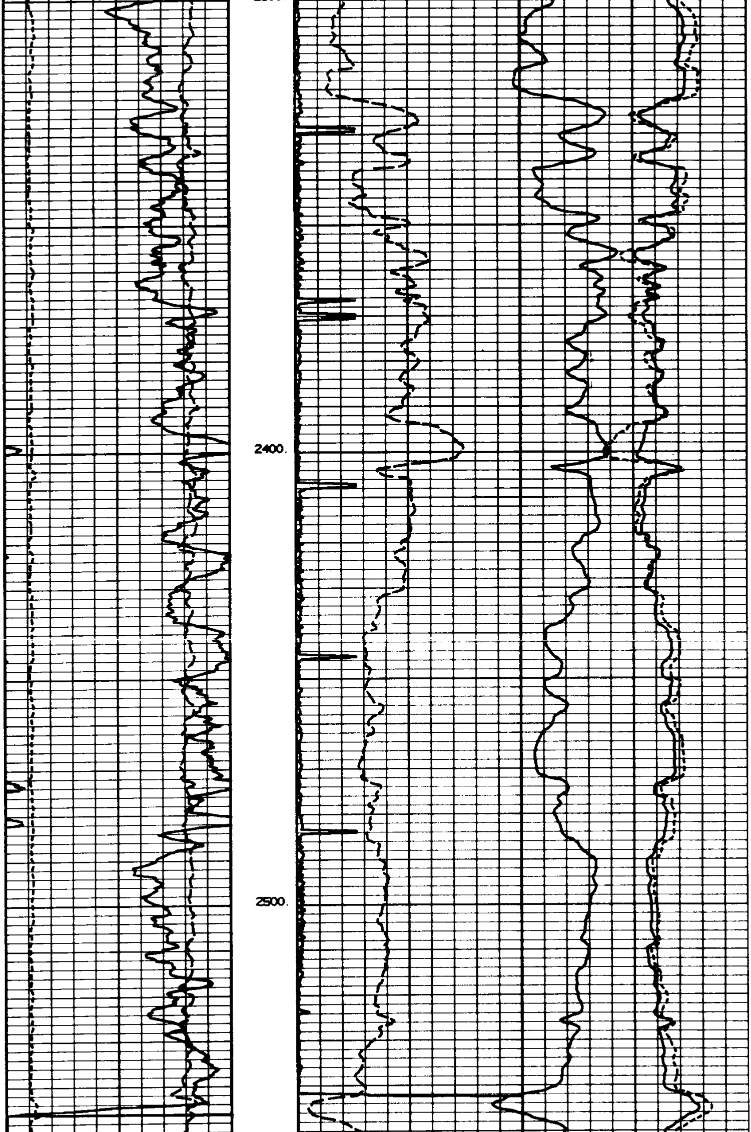




REPEAT SECTION

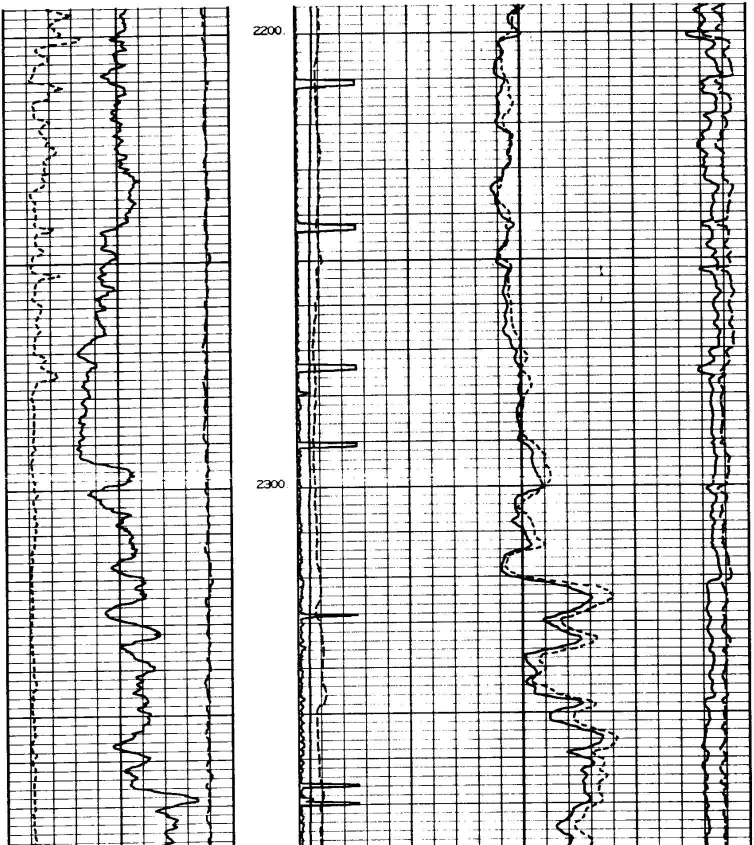
SALT — PRIMARY

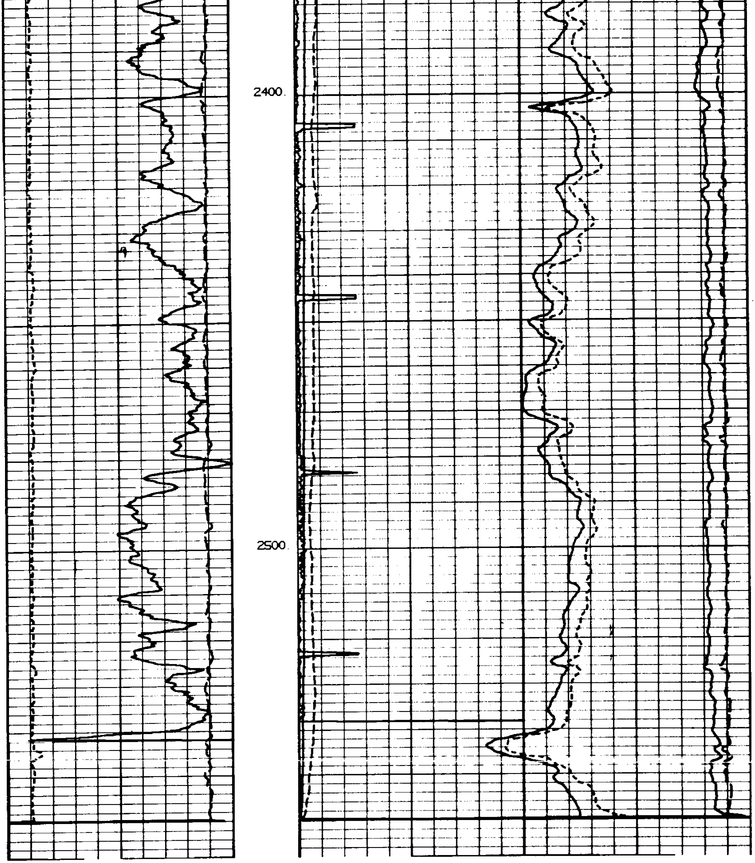




REPEAT SECTION

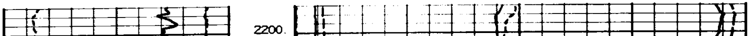
FRESH — QUALITY

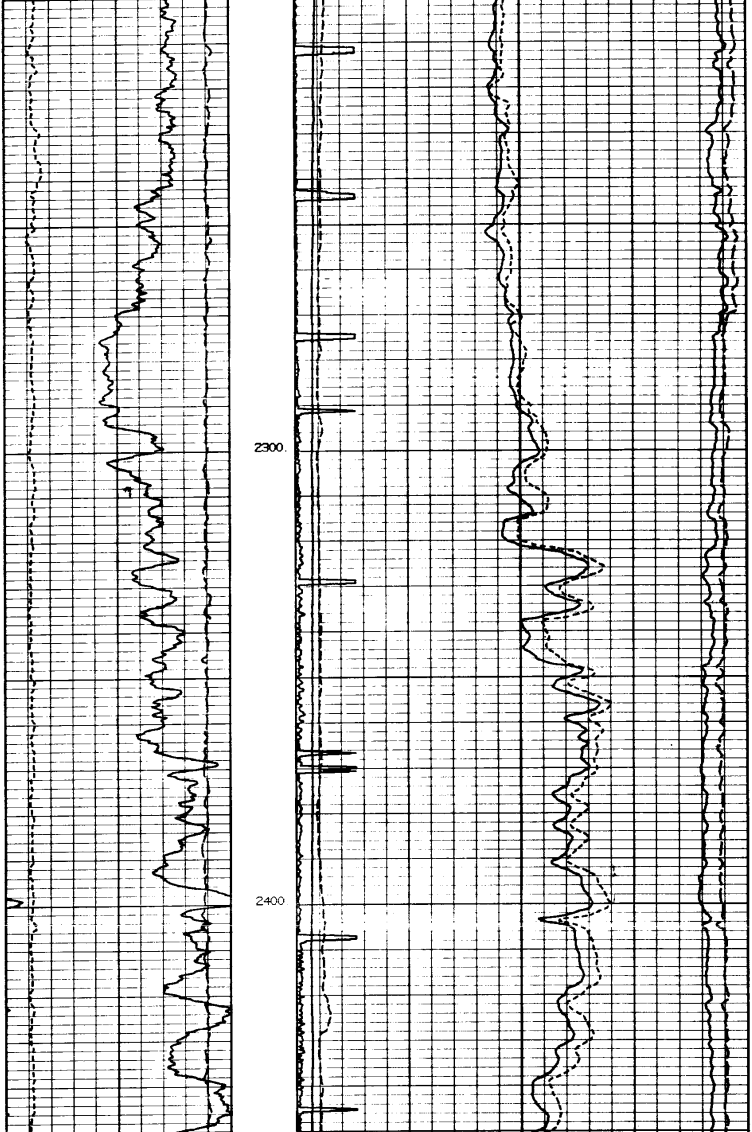


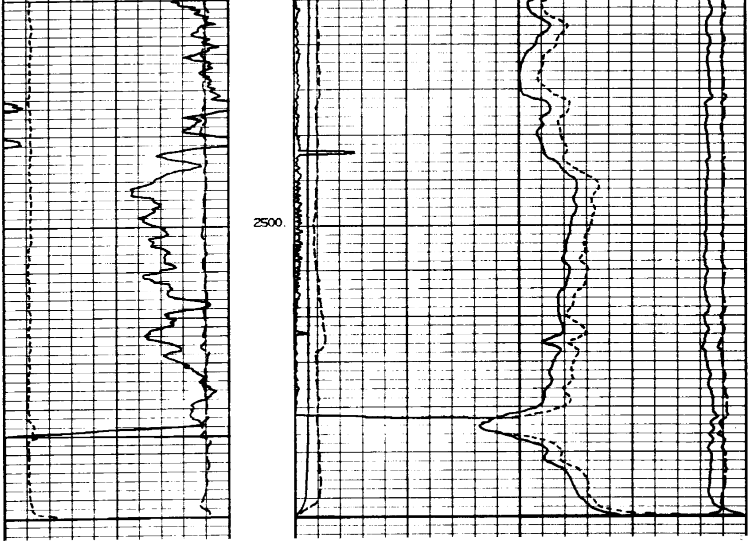


REPEAT SECTION

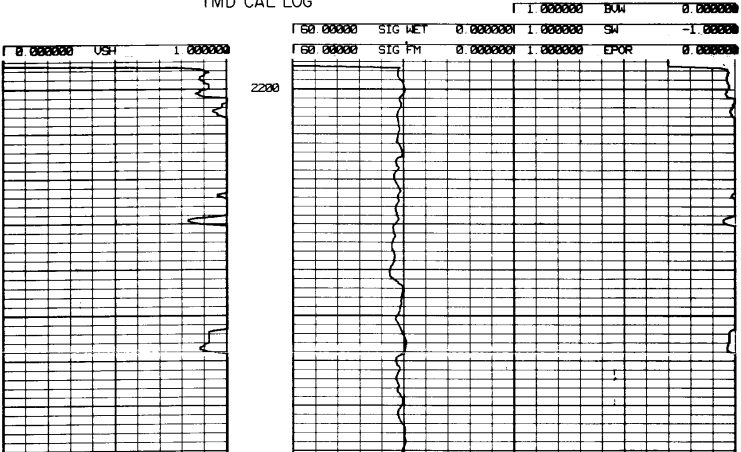
SALT — QUALITY

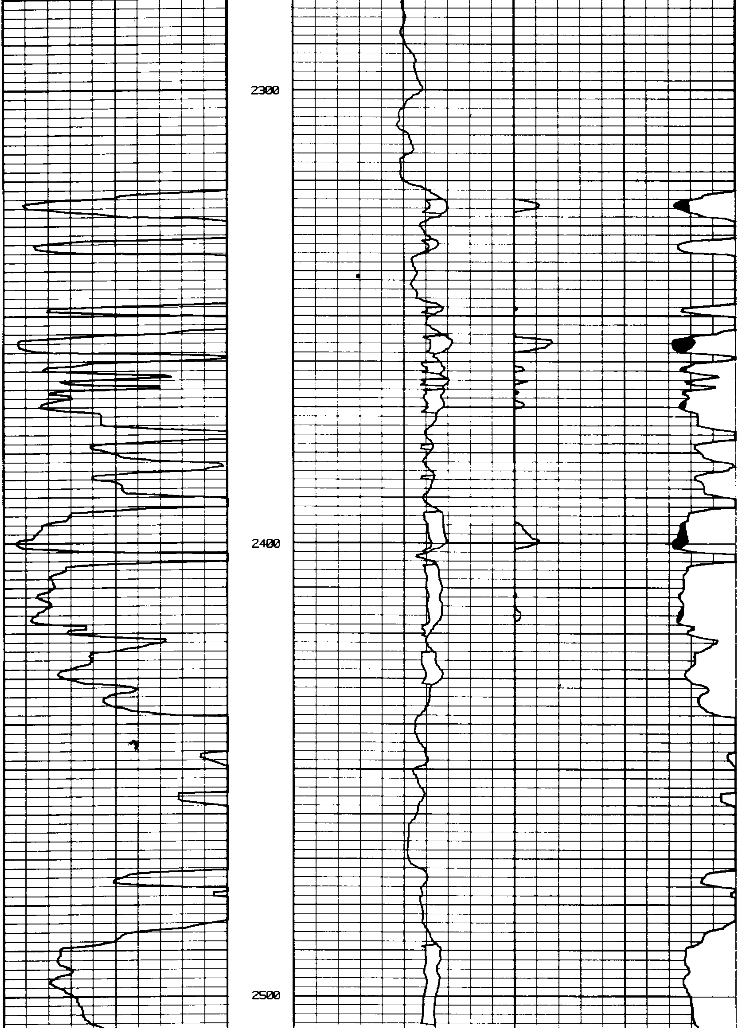


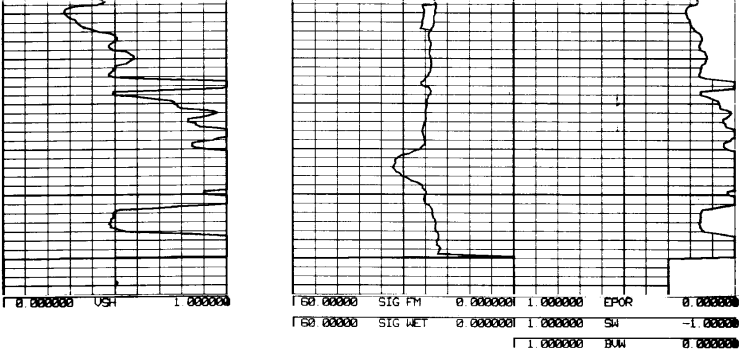




TMD CAL LOG







CALIBRATION BEFORE SURVEY

SUMMARY

TRACE SURVEY	GALVO	TRK	SCALE L	SCALE R	INT CAL	NORM OR MATRIX	INTCP	(NORM*) OFFSET	(INTCP*) T.C.	DELAY	PLOTS C1VC2	DIG CHAN
SIGMA SHORT	4	4	60.,	0.	0.	0.	3	0.	1.	0.	NNY	1
SIGMA LONG	5	4	60.,	0.	0.	0.	0	0.	0.	0.	NNM	2
SIGMA BORE	3	1	240.,	40.	0.	0.	0	0.	0	0.	SSN	7
BACKG SHORT	6	2	0.,	1000.	0.	0.10008	0	0.	1.	0.	NNY	3
BACKGR LONG	12	2	0.,	100.	0.	0.10008	0	0.	0.	0.	NNS	4
SHORT COUNT	9	3	30000.,	0.	0.	0.80064	0	0.	0.	9.1	YYN	9
LONG COUNTS	10	3	5000.,	0.	0.	0.20016	0	0.	0.	9.35	SSN	8
RATIO	8	2	8.,	3.	0.	1.0498	0	0.	0.	0.	SSN	5
GAMMA	2	1	0.,	150.	0.	0.38641	0	0.	1.	27.169	YYY	6
CCL	1	2	0.,	1000.	0.	0.0125	0	0.	0.	31.	YYY	10
L. TENSION	16	3	4095.,	0.	0.	1.	0	0.	0.	0.	NNN	11
SIGMA FORM	7	4	60.,	0.	0.	0.	0	0.	0.	0.	YYN	14
SIGMA QUAL	11	1	1.05,	0.55	0.	0.	0	0.	0.	0.	FFF	12
QUALITY 1	13	1	0.9,	-0.1	0.	0.	0	0.	0.	0.	NNS	13
B/F	14	3	5.,	0.	0.	0.	0	0.	0.	0.	NNM	15
SHORT BORE	15	3	90000.,	0.	0.	0.	0	0.	0.	0.	NNY	16