Sutherlin Unit 1

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

COUNTY DOUGLAS
FIELD WILDCAT
LOCATION 36 24S 5W
WELL SUTHERLIN UNIT NO.1
COMPANY MOBIL OIL CORP.

COMPANY MOBIL OIL CORPORATION

WELL SUTHERLIN UNIT NO. 1

FIELD WILDCAT

COUNTY DOUGLAS STATE OREGON

STATE DEPARTMENT OF GEO
AND MINERAL INDUSTRI
1005 STATE OFFICE BUILD
PORTLAND, OREGON 97201

LOCATION 455.7'SOUTH & 2064.6'EAST FROM THE WEST ¼ CORNER OF

API SERIAL NO.	SEC.	TWP.	RANGE
	36	24S	5W

Other Services:
DIL BHC
HRT HDT
BGT
F-CURVE

Permanent Datum: GL ; Elev.: 488
Log Measured From KB , 23 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 511
D.F. - -
G.L. 488

Date	8-1-78		8-23-78		1-9-79		3-9-79	
Run No.	ONE		TWO		THREE		FOUR	
Depth—Driller	1900		3624		9511		13,177	
Depth—Logger	1900		3589		9506		13,177	
Btm. Log Interval	1899		3587		9505		13,177	
Top Log Interval	643		1860		3606		9,494	
Casing—Driller	20" @ 643		16" @1853		13¾" @ 3606		12¼" @ 9511	
Casing—Logger	643		1860		3604		9,494	
Bit Size	12¼"		12¼"		12¼"		9½"	
Type Fluid in Hole	LIGNOSUL.		LIGNOSUL..		LIGNOSUL.		LIGNOSUL.	
Dens. | Visc.	19	71	20.4	58	17.2	53	13	60
pH | Fluid Loss	11	7.2 ml	10.0	9.6 ml	12	8.4 ml	12	6.6 ml
Source of Sample	CIRCULATED		CIRCULATED		CIRCULATED		CIRCULATED	
Rm @ Meas. Temp.	0.68 @ 61 °F		.816 @76 °F		2.11 @ 55 °F		1.13 @ 75 °F	
Rmf @ Meas. Temp.	.152 @ 70 °F		.285 @68 °F		0.86 @ 56 °F		0.64 @ 62 °F	
Rmc @ Meas. Temp.	.665 @ 68 °F		1.52 @77 °F		3.68 @ 66 °F		2.59 @ 66 °F	
Source: Rmf | Rmc	M	M	M	M	M	M	M	M
Rm @ BHT	0.39 @ 110F		.639 @99 °F		0.79 @ 143°F		0.50 @ 180F	
TIME Circulation Stopped	0330		11½ HOURS		0500		0800	
TIME Logger on Bottom	0730		0300		1600		1500	
Max. Rec. Temp.	110F		99 °F		143°F		180 °F	
Equip. | Location	7731	SAC	7731	SAC	7758	SAC	7731	SAC
Recorded By	ANDERSEN		BRASFIELD		LIERHAUS		FINNELL	
Witnessed By Mr.	PRICE		FRIEND		RYDER		RYDER	

FOLD HERE The well name, location and borehole reference data were furnished by the customer.

RUN NO.		ONE	TWO	THREE	FOUR
Service Order No.		27511	48038	64709	64726
Fluid Level		FULL	FULL	FULL	FULL
Salinity, PPM CL.		13000	- -	- -	- -
Speed - F.P.M.		30	30	30	30
EQUIPMENT DATA					
Dens. Panel		EJ1262	EJ1262	EJ1352	NCM
Dens. Cart.		G- 260	G- 189	G- 260	189
Dens. Skid.		E- 129	E- 206	E- 253	177
Dens. Sonde		ED-472	EC-392	EC-472	392
Dens. Source		5199	5153	5199	5153
Dens. Calibrator		1241	1177	1241	1177
Neut. Panel		AB-405	AB-405	AB-405	NLM
Neut. Cart.		A- 409	A- 409	A-1420	409
Neut. Source		495	495	1418	495
Neut. Calibrator		AB-594	AB-594	AB-1446	594
GR Cart.		266	JAA1410	- -	1410
Memorizer Panel		CA-293	CA-293	CA-337	- -
Tape Recorder (TTR)		2927	2927	1940	- -
Depth Encoder (DRE)		2733	2733	1820	- -
Pressure Wheel (CPW)		1889	1889	2927	- -
Centralizers: Enter Spring, Standoffs, In-line, or None	Type	SPRING	SPRING	SPRING	- -
	No.	- -	- -	- -	- -
	S. O. — Inches	- -	- -	- -	- -
CALIBRATION DATA					
GR	BKG. CPS	65	46	48	23
	Source CPS	365	286	279	196
	Sens. - Cal	- -	0-70	0-100	164
	T. C. - Cal	6	6	6	- -
CNL	Short Spacing - Before Log	720	355	320	- -
	Long Spacing - Before Log	310	157	151	- -
	Short Spacing - After Log	- -	355	- -	- -
	Long Spacing - After Log	- -	157	- -	- -
FDC	P¹ — Before Log	102.3	104.3	109.4	336
	P² — Before Log	192.2	190.6	208.5	527
	P¹ — After Log	- -	103.0	- -	339
	P² — After Log	- -	186	- -	528

Type Log	Depth		

REMARKS:

LOGGING DATA

DEPTH		CNP			FDC				GR			
Top	Bottom	Porosity Scale	Matrix	Auto Corr. or Hole Size Setting	Porosity Scale	Grain Density	Liquid Density	Hole Fluid	Sens. Logged	T. C.	Zero. Div. Left	Scale Per 100 Div.
		60-0	SS	AUTO	60-0	2.65	1.0	LIQ	70	2	0	70
1860	3587	60-0	SS	AUTO	60-0	2.65	1.0	LIQ	70	2	0	70
3604	9504	60-0	LS	AUTO	45--15	2.71	1.0	LIQ	100	2	0	100
9494	13177	60-0	LS	AUTO	45--15	2.71	1.0	LIQ	100	1	0	100

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

CALIPER DIAM. IN INCHES

6" 16"

GAMMA RAY API UNITS

0 100

DEPTH

POROSITY INDEX % LIMESTONE-OH MATRIX

COMPENSATED FORMATION DENSITY POROSITY

60% 45% 30% 15% 0%

COMPENSATED NEUTRON POROSITY

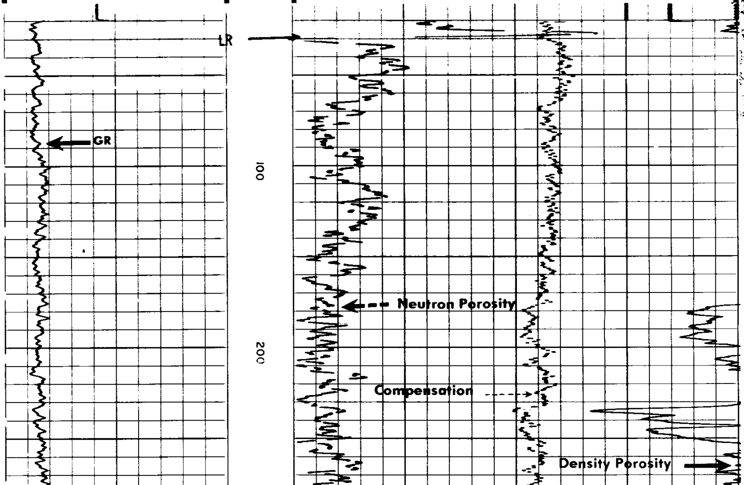
60% 45% 30% 15% 0%

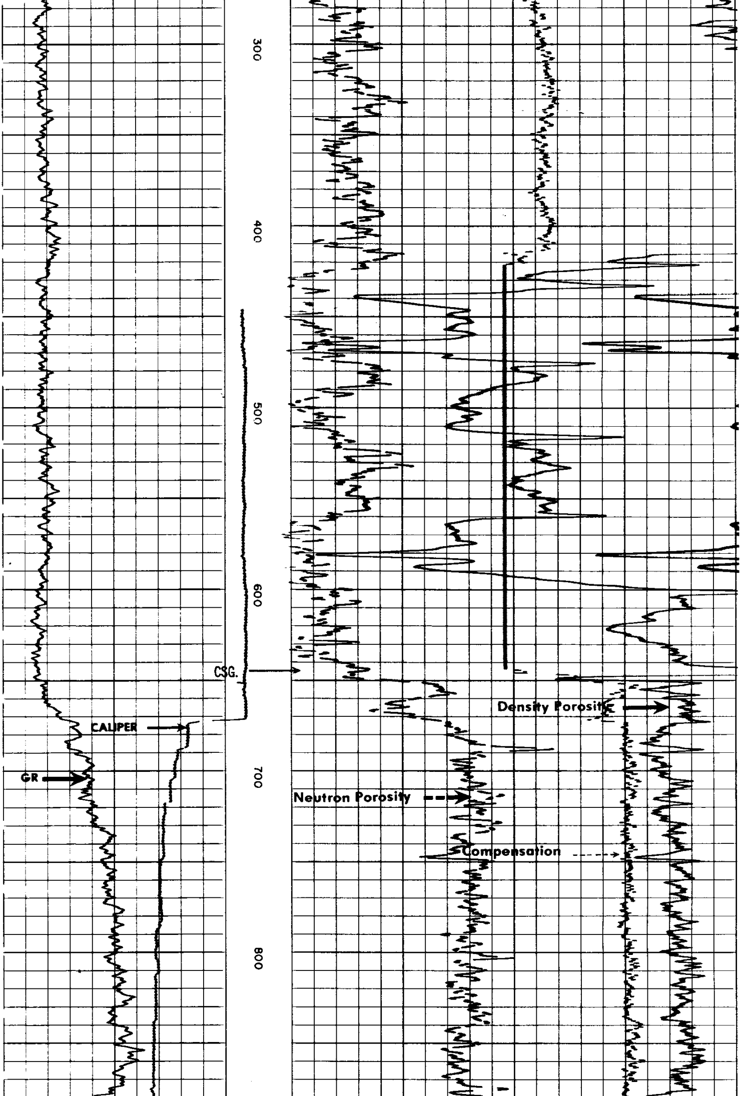
CORRECTION GRAMS CC

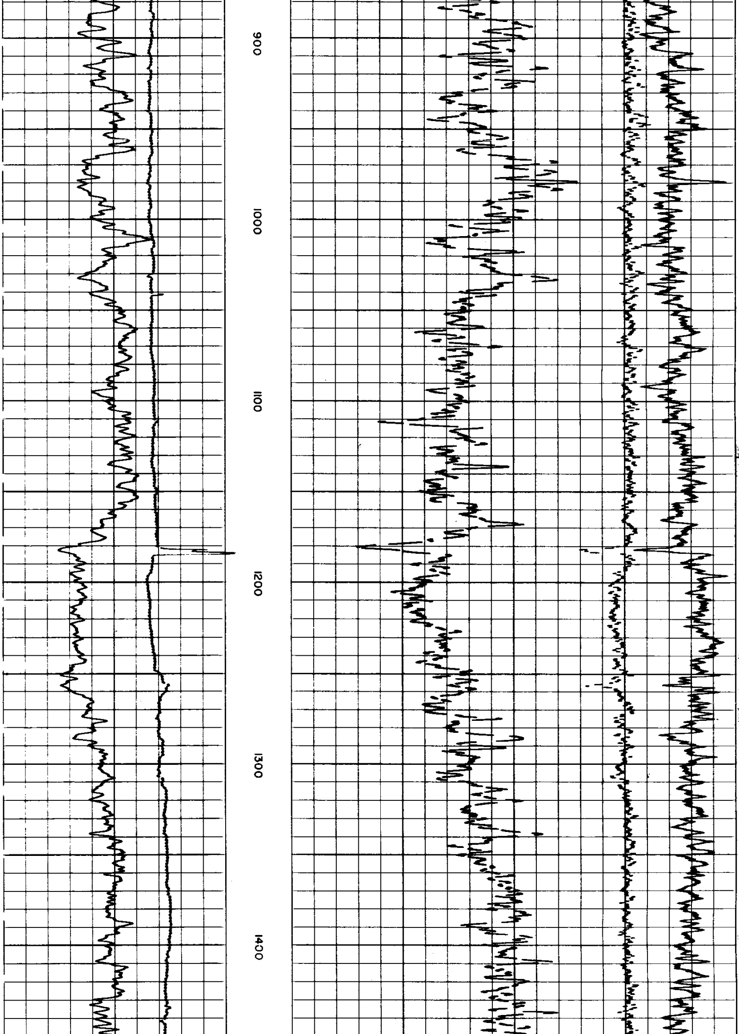
-.25 0 +.25

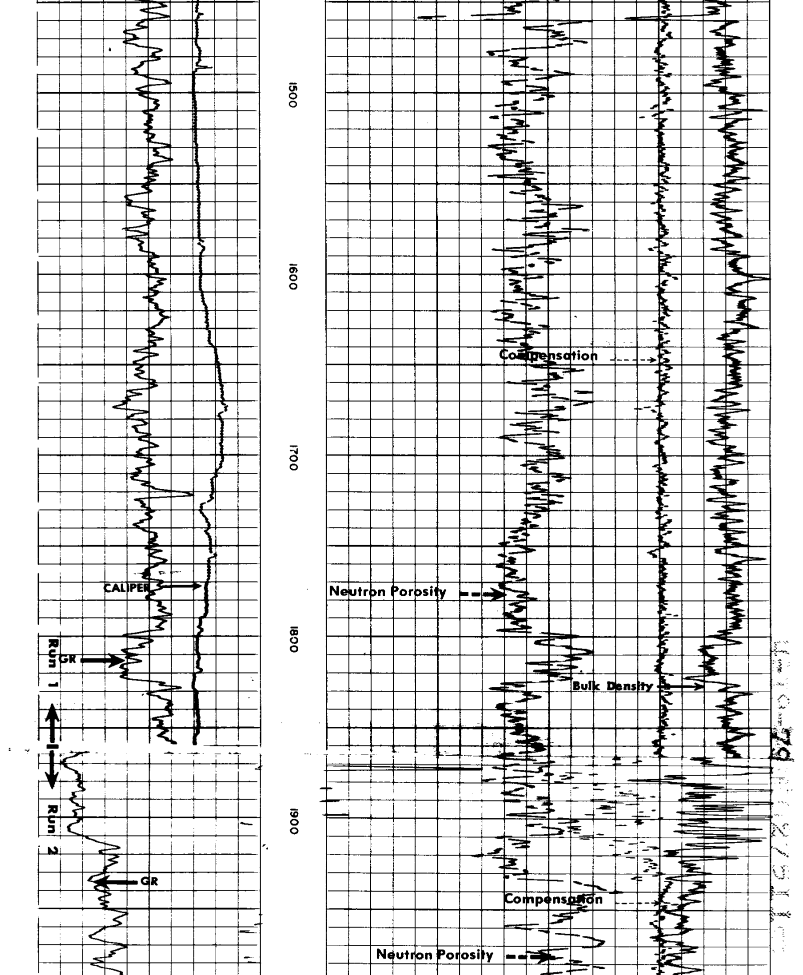
BULK DENSITY GRAMS/CC

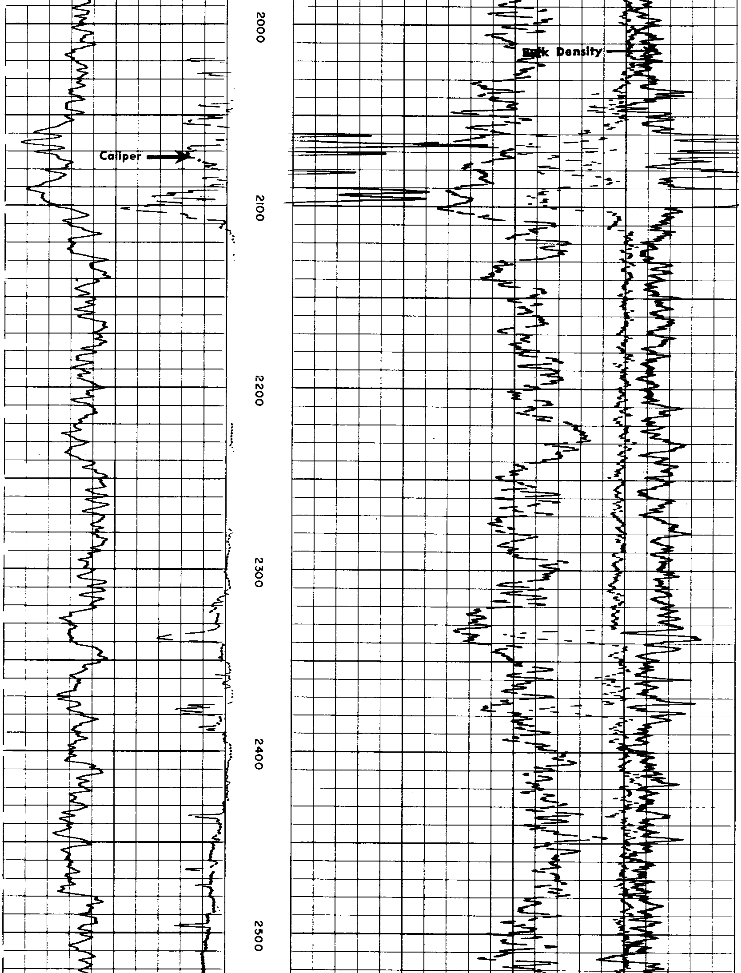
1.65 2.65

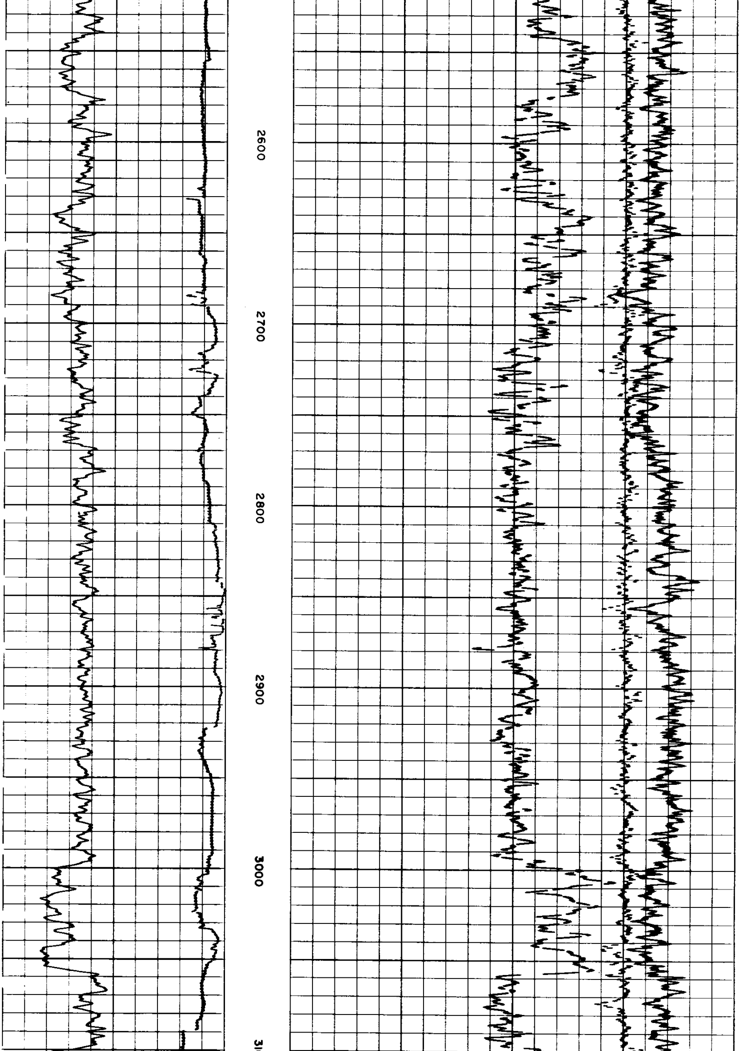


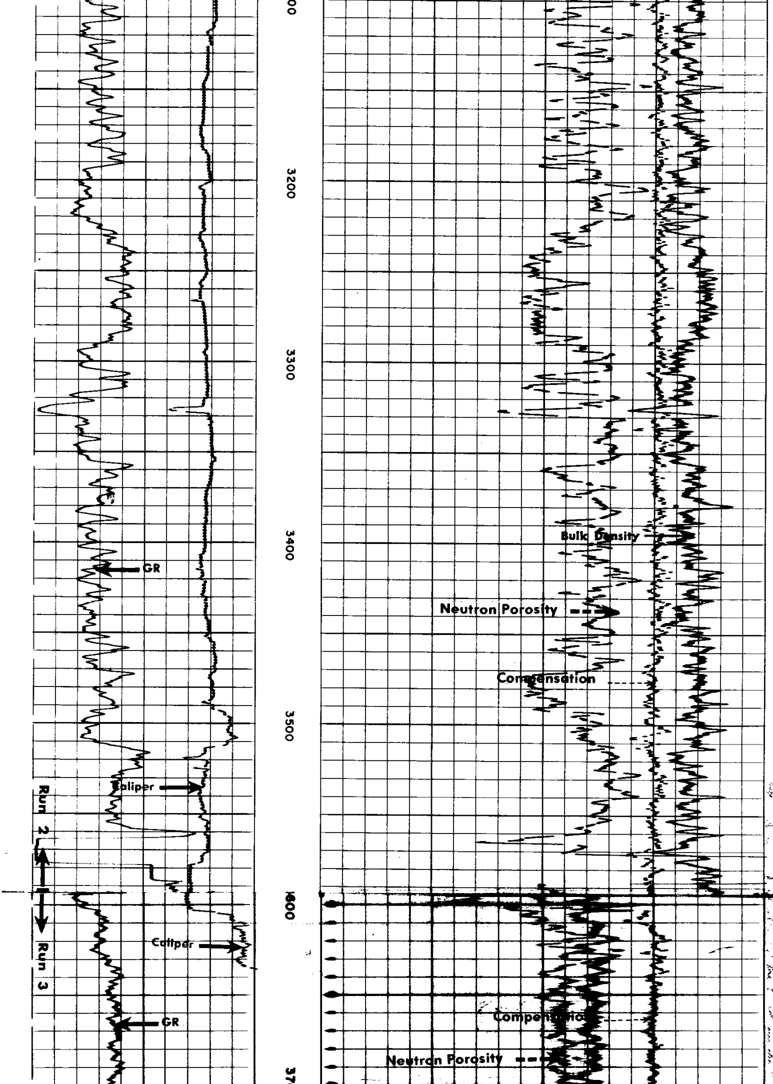


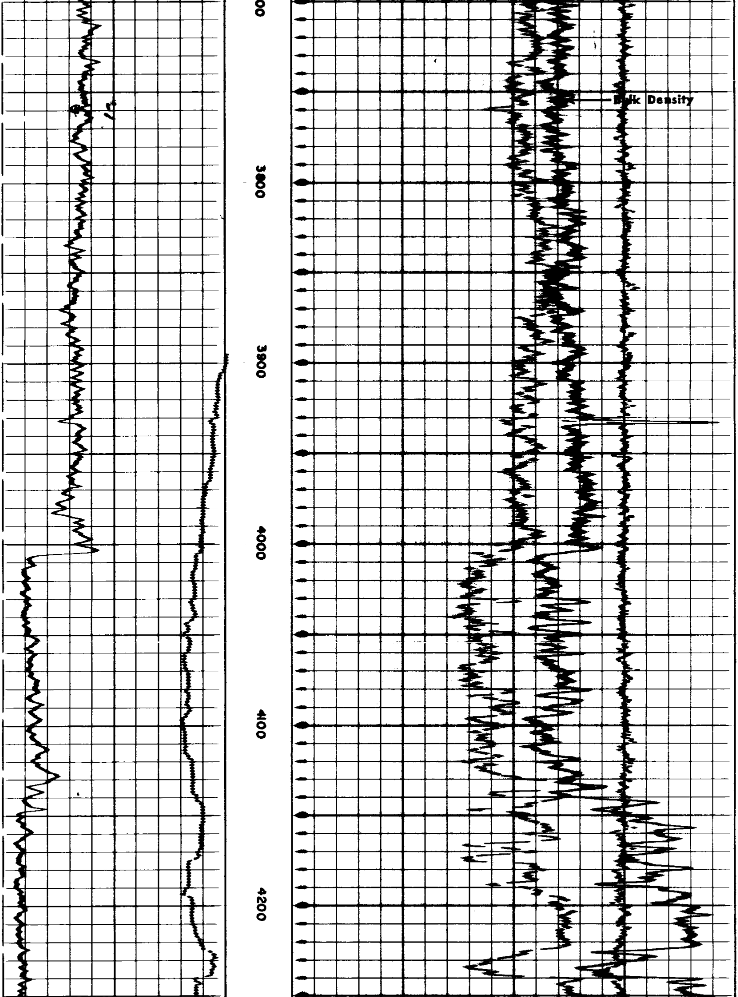


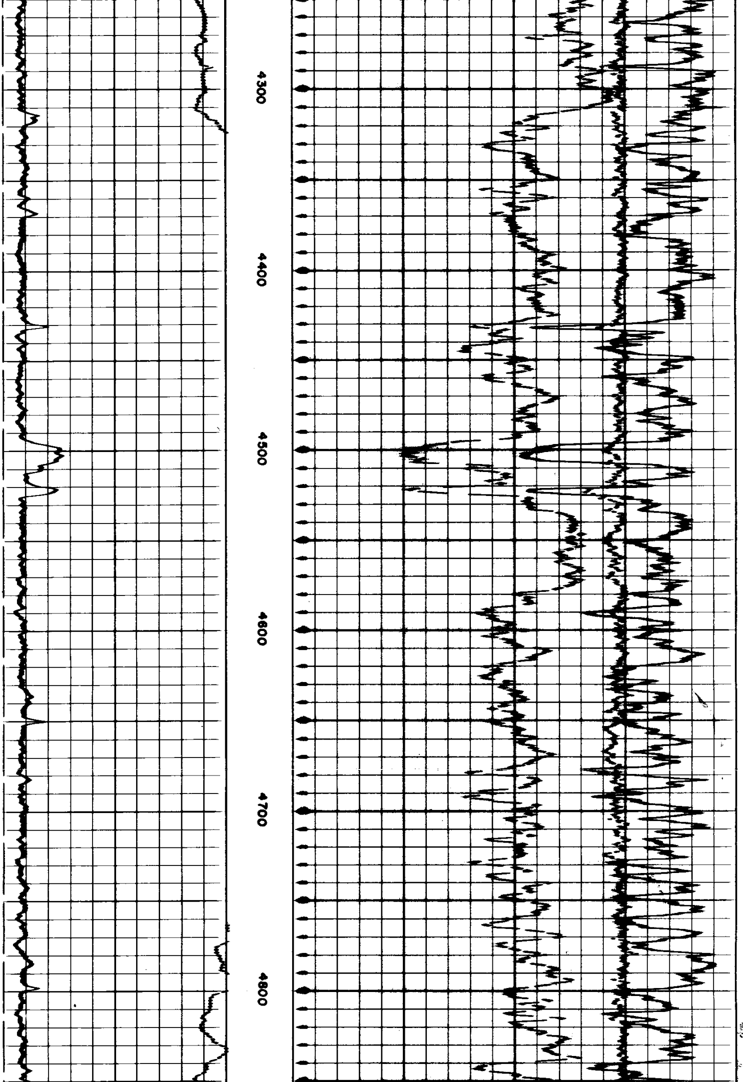


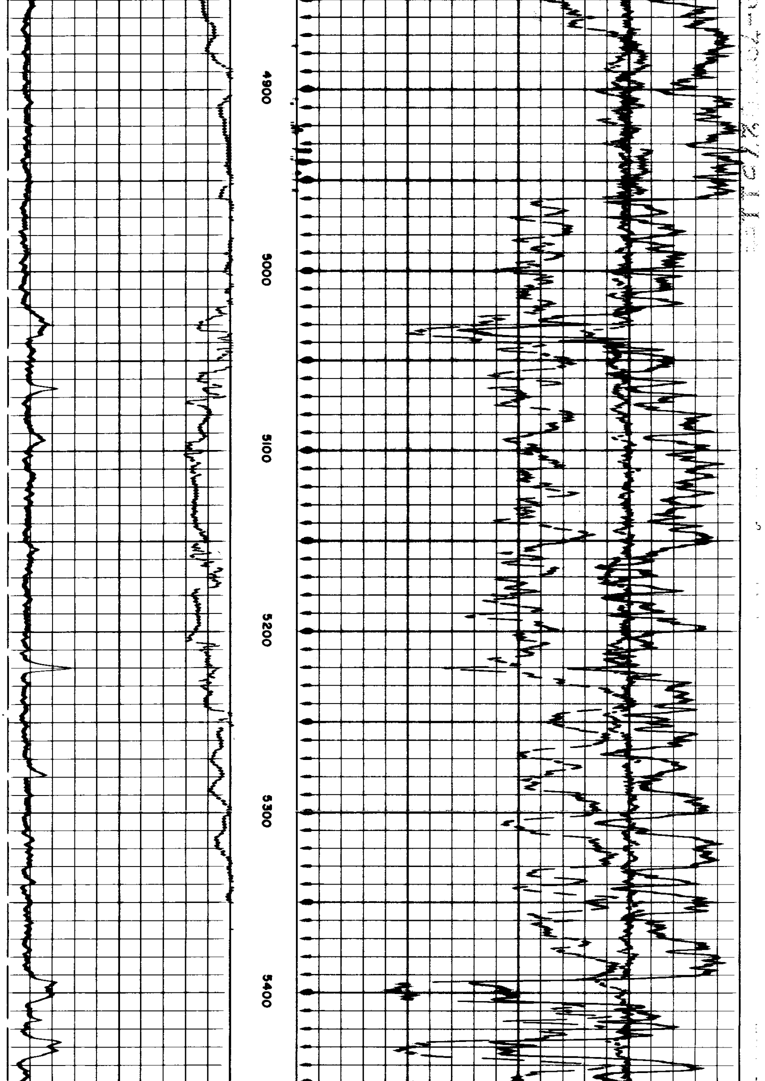


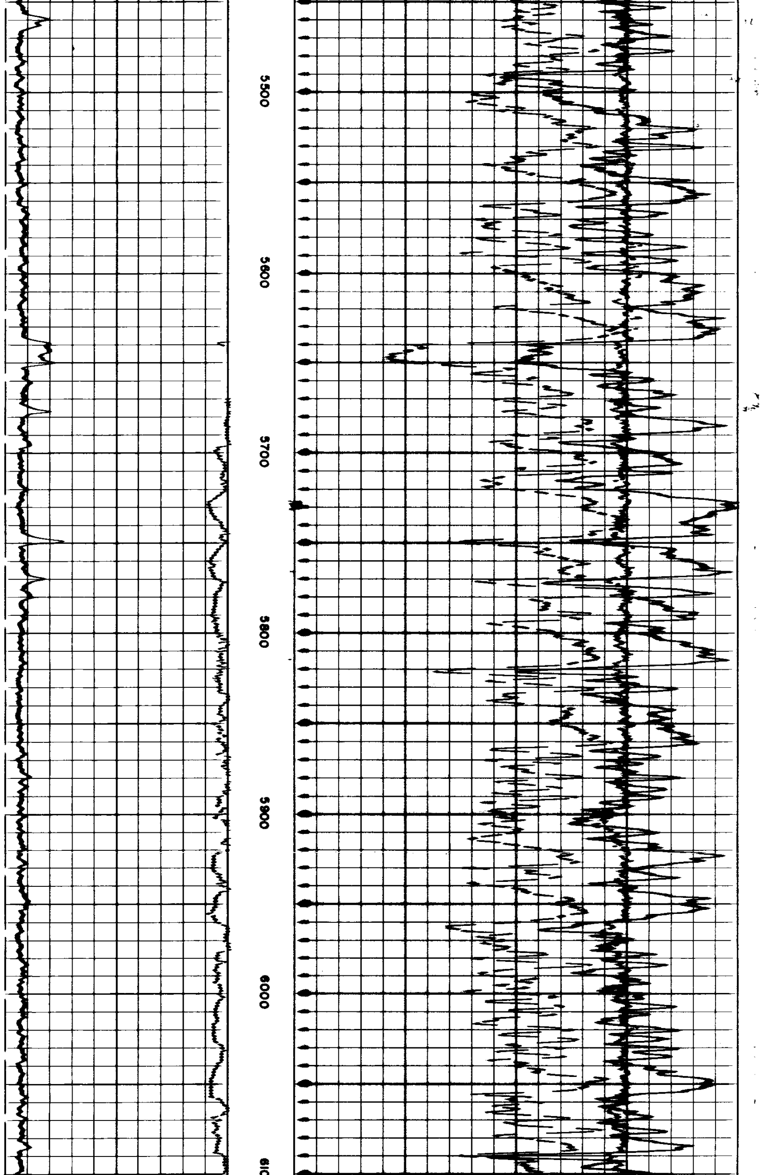


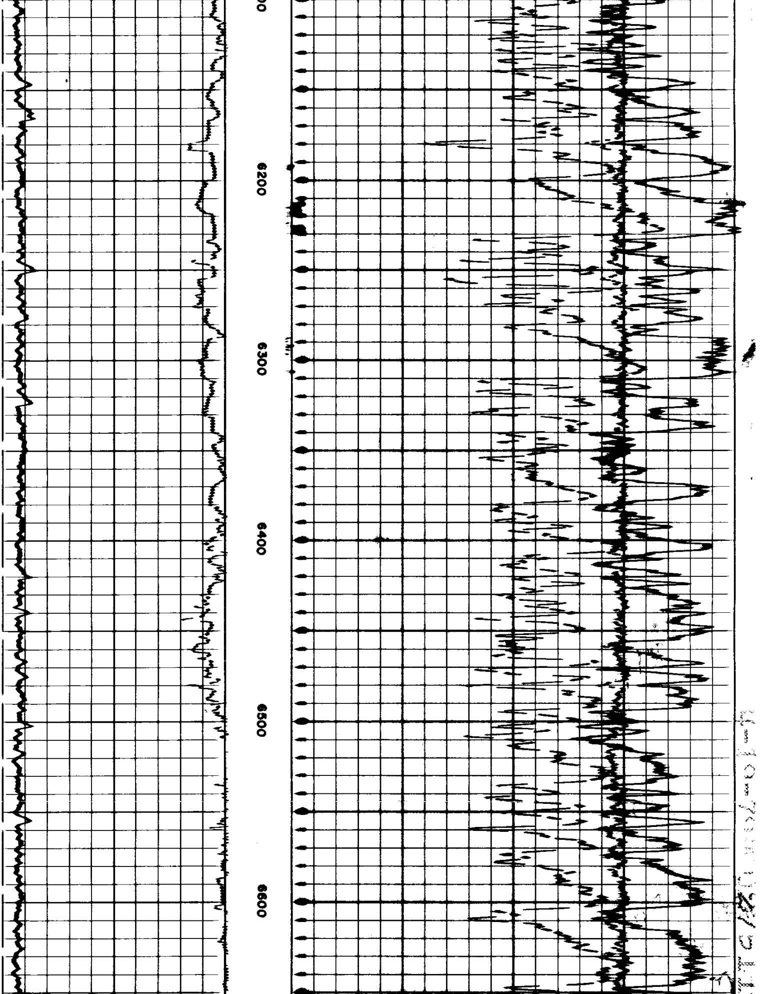


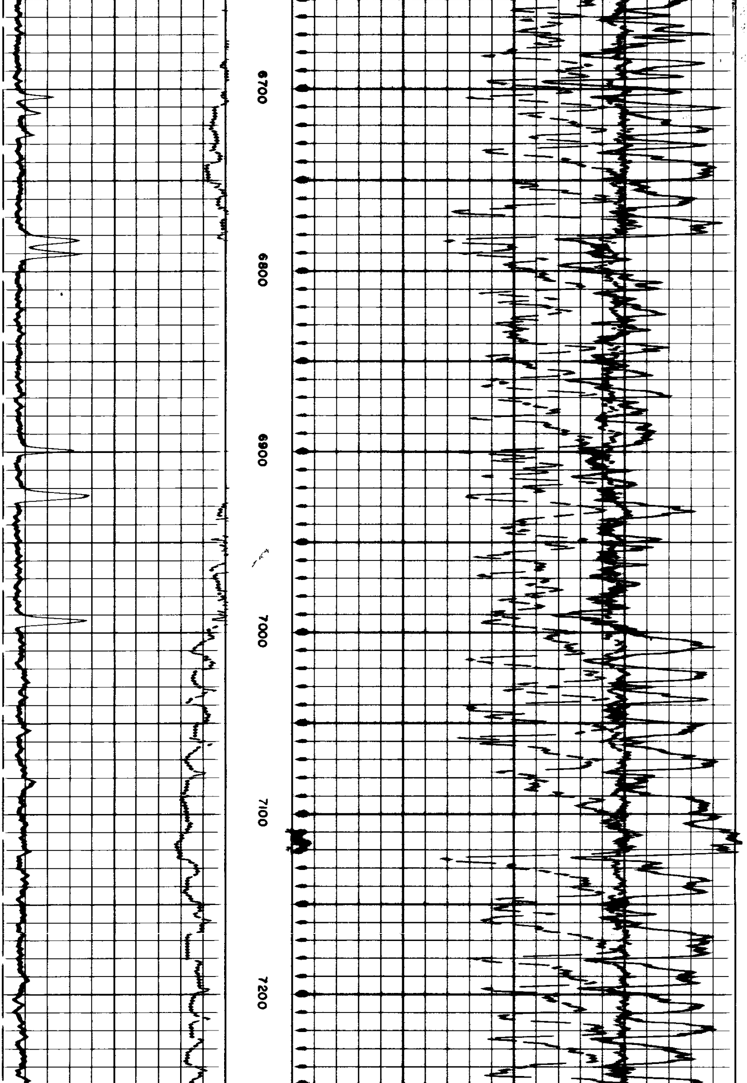


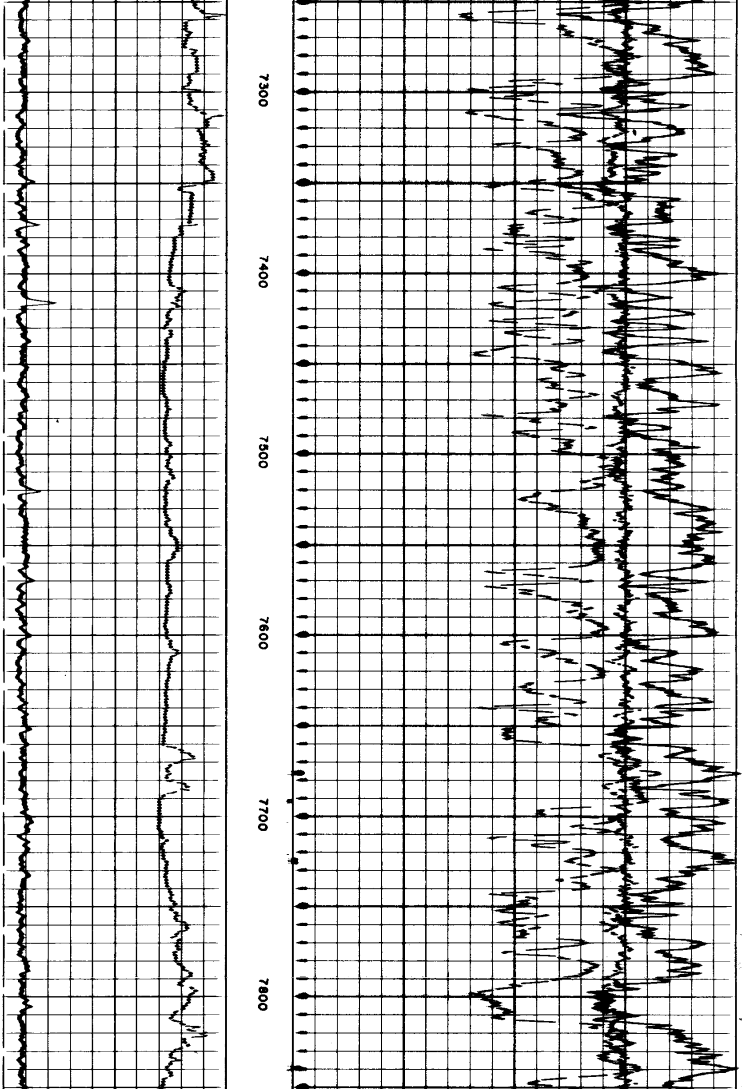


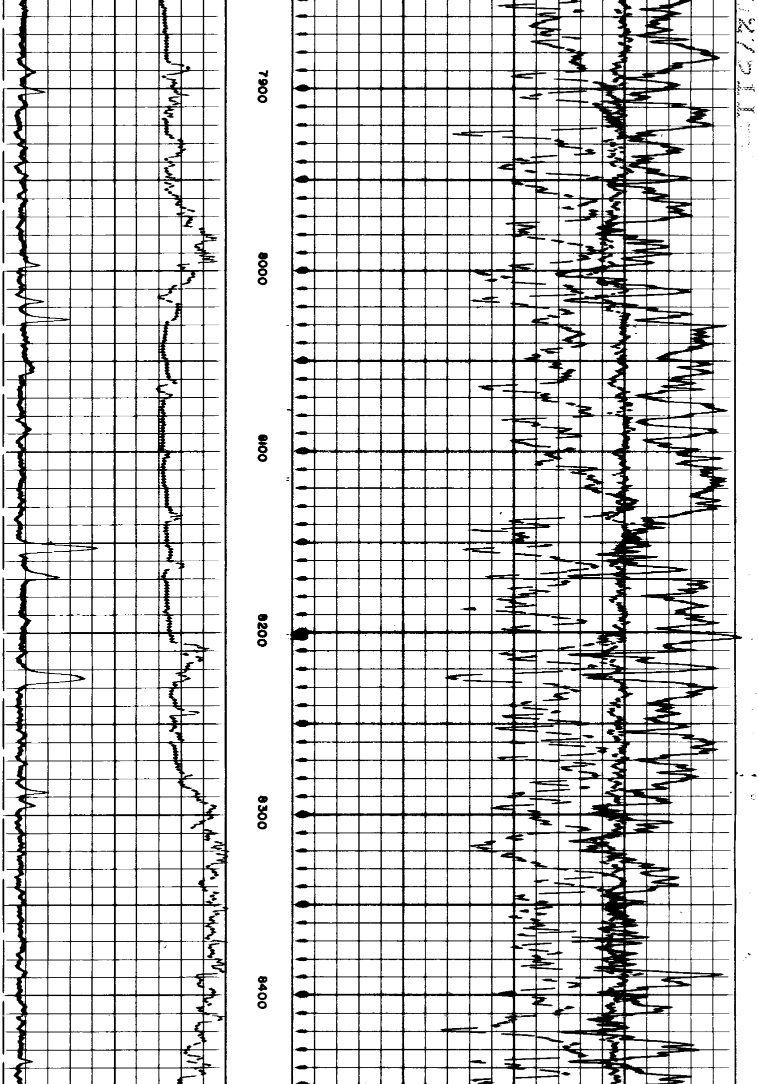


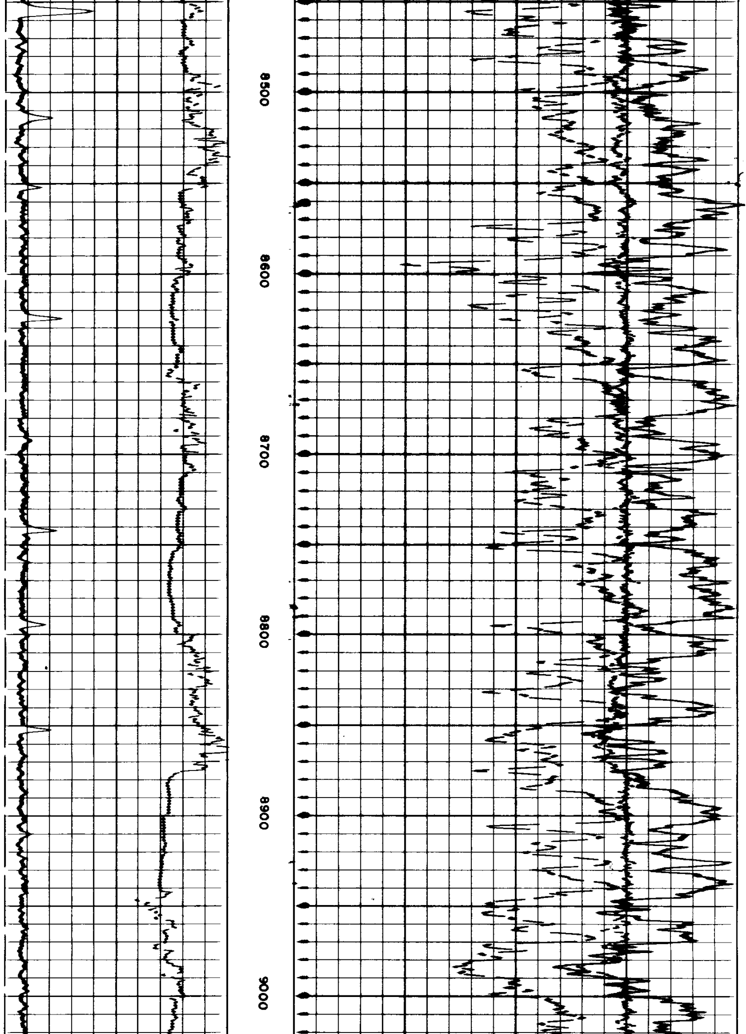


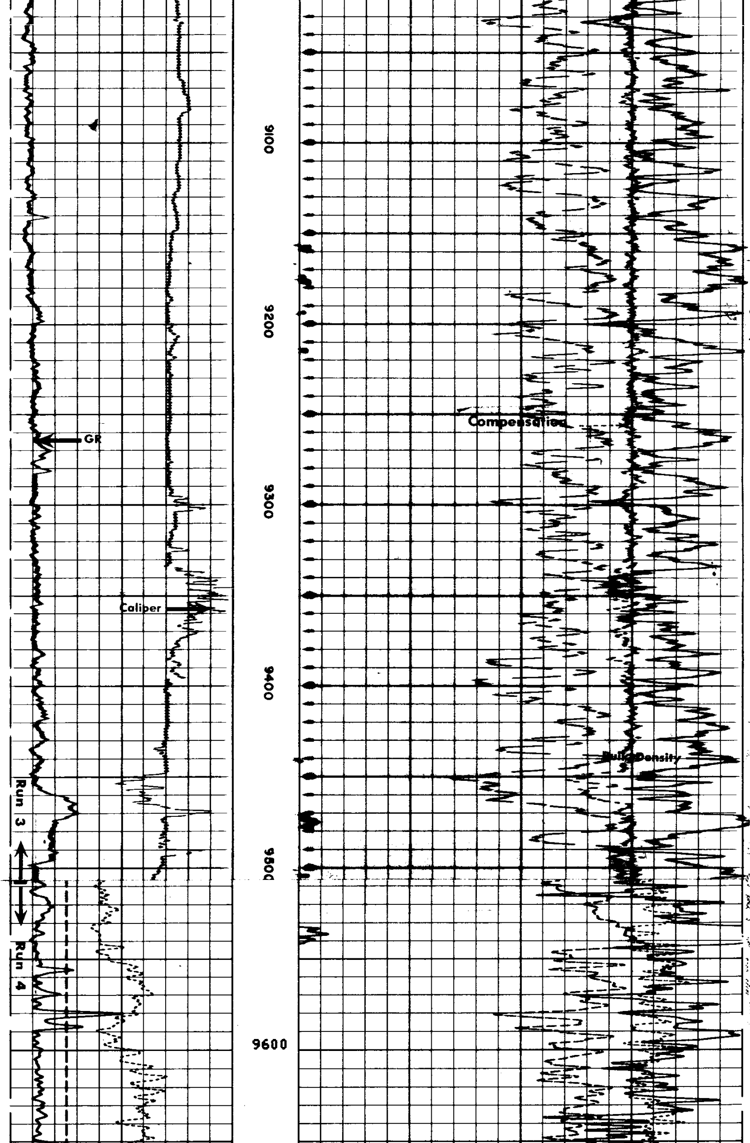


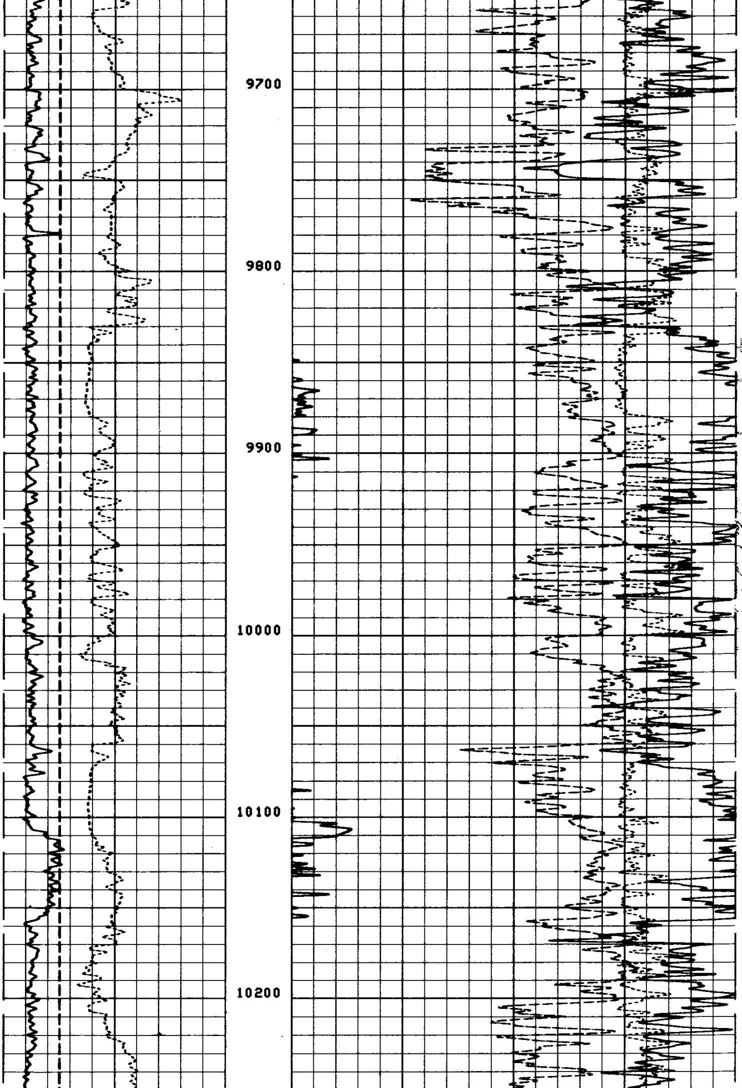


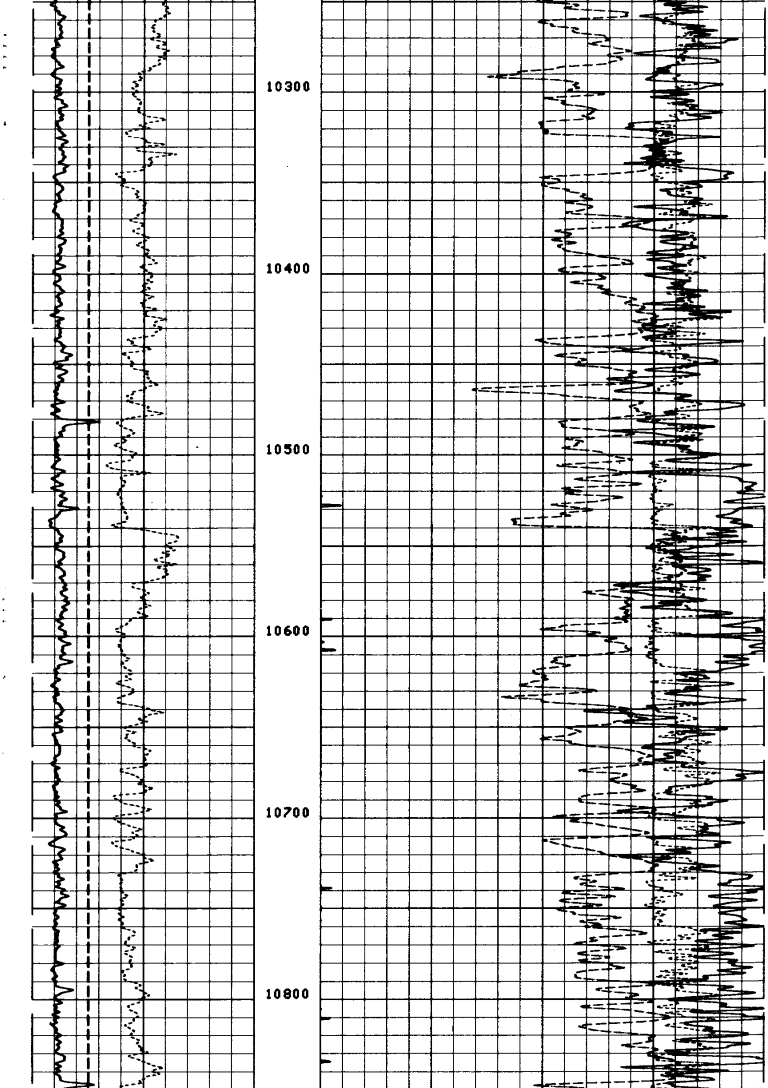


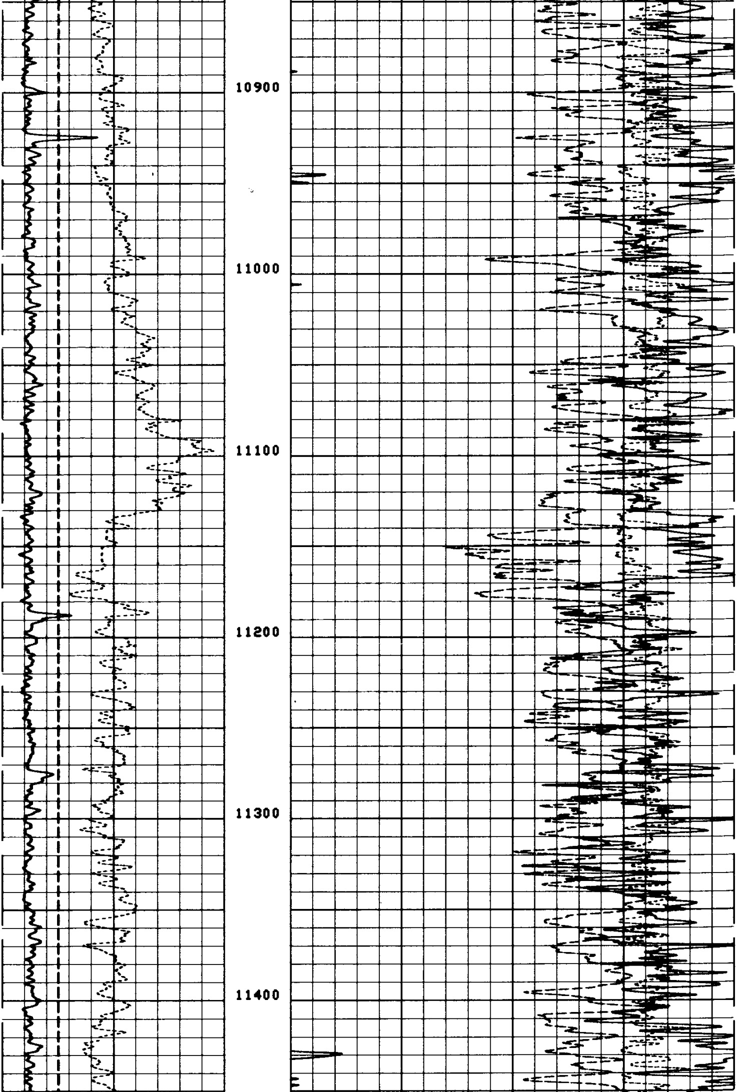


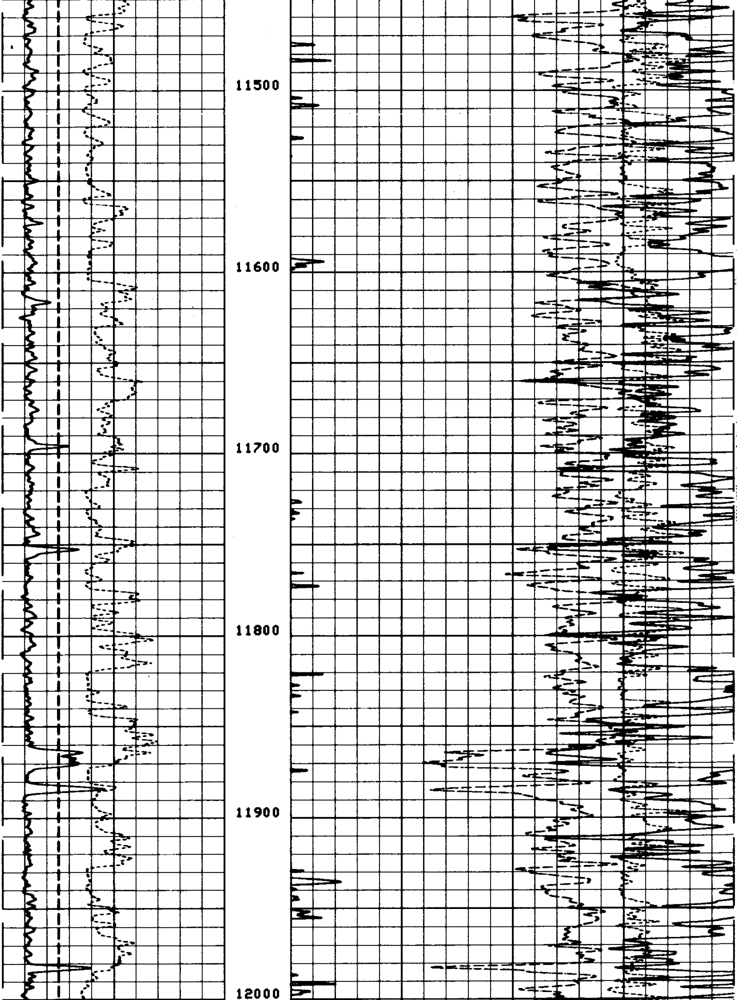


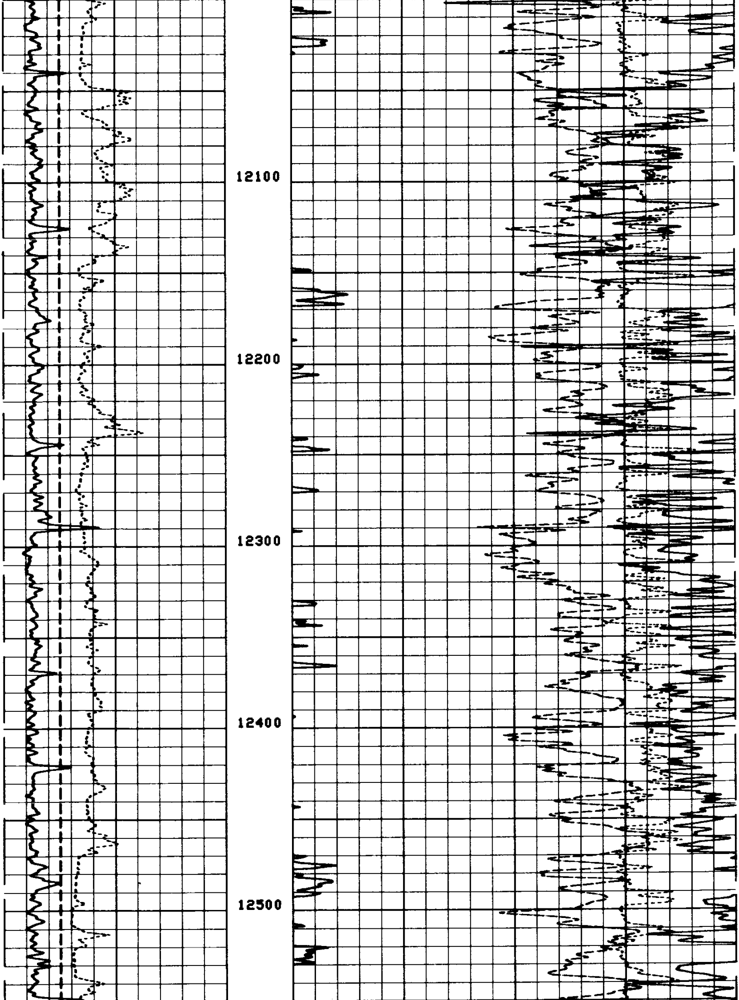


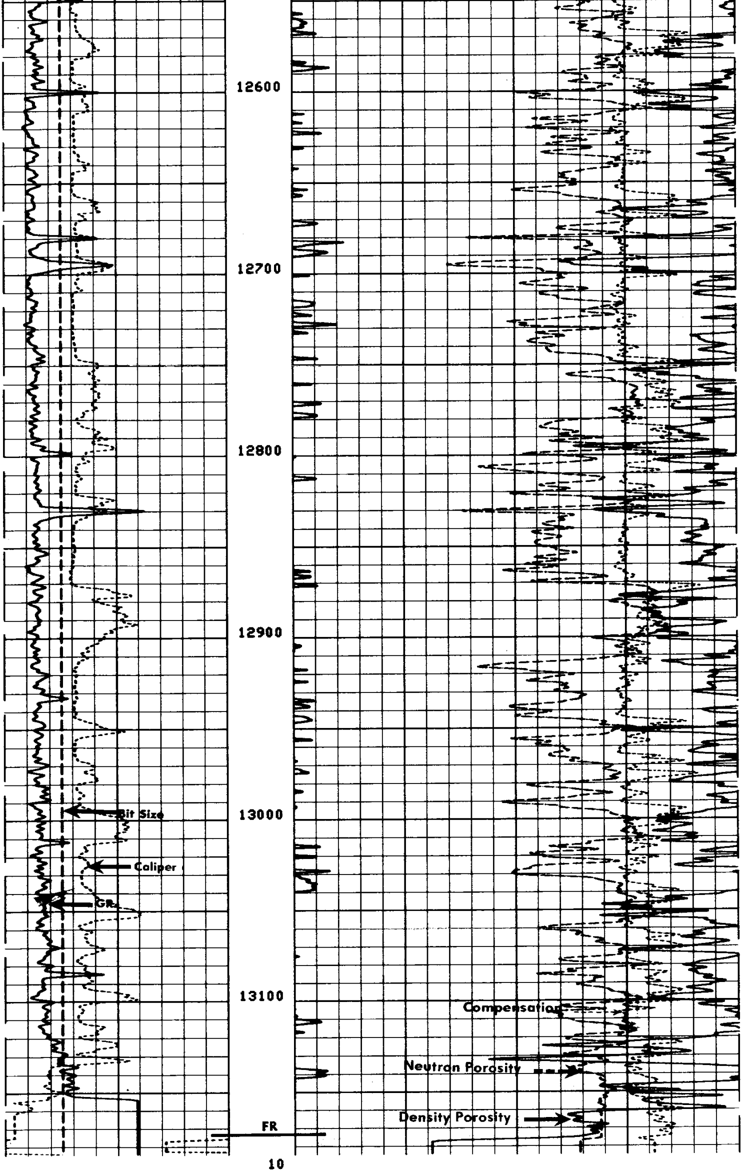












10
10
10

GAMMA RAY API UNITS

0 100

CALIPER DIAM. IN INCHES

6" 16"

DENSITY POROSITY INDEX %LIMESTONE MATRIX

45% 30% 15% 0% -15%

COMPENSATED NEUTRON POROSITY LIMESTONE MATRIX

60% 45% 30% 15% 0%

BULK DENSITY GRAMS/CC

1.65 2.65

CORRECTION GRAMS/CC

-.25 0

COMPANY MOBIL OIL CORPORATION
WELL SUTHERLIN UNIT NO. 1
FIELD WILDCAT
COUNTY DOUGLAS STATE OREGON

SCHL. FR 13,177
SCHL. TD 13,177
DRLR. TD 13,177
Elev:
KB 511
DF - -
GL 488