Case No
6161

Large Exhibits

EXHIBIT 3
Proposed Mtr.
Inj. Well

Case 6161

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY TENNECO OIL COMPANY

WELL LEONARD FEDERAL #6

FIELD LEONARD

COUNTY LEA STATE NEW MEXICO

Other Services: DLL

Permanent Datum: G.L. Elev.: 3003
Log Measured From: K.B. Ft. Above Perm. Datum
Drilling Measured From: K.B.

Elev.: K.B. 3012
D.F. 3011
G.L. 3003

Date	7-25-77		
Run No.	ONE		
Depth - Driller	10011		
Depth - Logger	10005		
Btm. Log Interval	10041		
Top Log Interval	10010		
Casing - Driller	7" @ 5010	@	@
Casing - Logger	10		
Bit Size	7 7/8		
Type Fluid in Hole	GEL-SAL		
Dens. | Visc	10.1 | 36		
pH | Fluid Loss	7 | 10 ml	ml	ml
Source of Sample	CIRC		
Rm @ Meas. Temp.	.036 @ 112 F	@ °F	@ °F
Rmf @ Meas. Temp.	.04 @ 93 F	.044 @ 80 °F	@ °F
Rmc @ Meas. Temp.	.022 @ 112 F	@ °F	@ °F
Source Rmf | Rmc	M | C	@ °F	@ °F
Rm @ BHT	.041 @ 99 F	@ °F	@ °F
Circulation Stopped	1500		
Logger on Bottom	2331		
Max. Rec. Temp.	99 °F	°F	°F
Equip. | Location	7641 | HOBBS		
Recorded By	BURGESS		
Witnessed By Mr.	SCONLEY, BRATTE		

LEA
Field LEONARD
Well LEONARD FEDERAL #6
Company TENNECO OIL CO.

SECTION 21 TWP 17S RGE 37E
2310' FSL & 1980' FEL

The well name, location and footside reference data were furnished by the customer.

Run No.	ONE			
Date	7-25-77			
Type Log	DNL			
Depth	10000			
Bottom Log Int.	10005			
Top Log Int.	1197			
Casing-Driller		7@5010		
Casing-Logger		10		
Bit Size		7 7/8		
Type Fluid in Hole		GEL-SAL		
Dens.		10.1		
Visc.		36		
pH		7		
Fluid Loss		10 ml		
Source of Sample		CIRC		
Rm @ Meas. Temp.		.036 @ 112		
Rmf @ Meas. Temp.		.04 @ 93		
Rmc @ Meas. Temp.		.022 @ 112		
Source Rmf / Rmc		M / C		
Rm @ BHT		.041 @ 99		
Time Since Circ.		9		
Max. Rec. Temp.		99		
Equip. Location		7641 HOBBS		
Recorded By		BURGESS		
Witnessed By		SCONLEY, BRATTE		

REMARKS

RUN	BIT	FROM	TO
ONE	7 7/8	1197	10000

CASING RECORD

	SIZE	WGT.	FROM	TO
SURF. STRING	7	23	0	5010
PROD. STRING				
LINER				
OPEN HOLE			5010	10000

Dual Induction Laterolog	DIL	5010	10000
Sonic Log			
Compensated Neutron-Formation Density	CNL-FDC	5010	10000
Borehole Compensated Sonic Log	BHC		
Dual Spacing Thermal Neutron			
Micro Laterolog			
Micro Log			
Proximity Log			
Four Arm Dipmeter			
Cyberlook			
Other			

Dual Induction Laterolog	DIL	5010	10000
Sonic Log			
Compensated Neutron-Formation Density	CNL-FDC	5010	10000
Borehole Compensated Sonic Log	BHC		
Dual Spacing Thermal Neutron			
Micro Laterolog			
Micro Log			
Proximity Log			
Four Arm Dipmeter			
Cyberlook			
Other			

OPEN HOLE

	Type Log	Depth
1st Run		
2nd Run		
3rd Run		

CASING RECORD

	Size	Wgt.	Depth
Surface String	7	23	5010
Prod. String			
Liner			

	Run	Bit	From	To
Open Hole	ONE	7 7/8	1197	10000
Cased Hole				

	Density	Viscosity
Drilling Fluid	10.1	36
Salt Water		
Brine		
Oil		

	Rm	Rmf	Rmc
Sample	.036	.04	.022
Temperature	112	93	112

	Rm	Rmf	Rmc
Sample	.044		
Temperature	80		

	Rm	Rmf	Rmc
Sample	.041		
Temperature	99		

Rm Meas. Temp. .041 @ 99
Rmf Meas. Temp. .044 @ 80
Rmc Meas. Temp. .022 @ 112
Rm @ BHT .041 @ 99

Time Since Circ. 9 hrs
Max. Rec. Temp. 99 °F
Equip. Location 7641 HOBBS
Recorded By BURGESS
Witnessed By Mr. SCONLEY, BRATTE

LOGGING DATA

	Date	Time
On Location	7-25-77	1700
Started Job	7-25-77	1900
Completed Job	7-25-77	2330
Left Location	7-25-77	2400

	Date	Time
On Location		
Started Job		
Completed Job		
Left Location		

	Date	Time
On Location		
Started Job		
Completed Job		
Left Location		

FIELD INTERPRETATION

	From	To
Fresh Water		
Salt Water		
Oil		
Gas		

	From	To
Fresh Water		
Salt Water		
Oil		
Gas		

	From	To
Fresh Water		
Salt Water		
Oil		
Gas		

	Run	Bit	From	To
Open Hole	ONE	7 7/8	1197	10000
Cased Hole				

	Density	Viscosity
Drilling Fluid	10.1	36
Salt Water		
Brine		
Oil		

	Rm	Rmf	Rmc
Sample	.036	.04	.022
Temperature	112	93	112

	Rm	Rmf	Rmc
Sample	.044		
Temperature	80		

	Rm	Rmf	Rmc
Sample	.041		
Temperature	99		

Rm Meas. Temp. .041 @ 99
Rmf Meas. Temp. .044 @ 80
Rmc Meas. Temp. .022 @ 112
Rm @ BHT .041 @ 99

Time Since Circ. 9 hrs
Max. Rec. Temp. 99 °F
Equip. Location 7641 HOBBS
Recorded By BURGESS
Witnessed By Mr. SCONLEY, BRATTE

LOGGING DATA

	Date	Time
On Location	7-25-77	1700
Started Job	7-25-77	1900
Completed Job	7-25-77	2330
Left Location	7-25-77	2400

	Date	Time
On Location		
Started Job		
Completed Job		
Left Location		

	Date	Time
On Location		
Started Job		
Completed Job		
Left Location		

FIELD INTERPRETATION

	From	To
Fresh Water		
Salt Water		
Oil		
Gas		

	From	To
Fresh Water		
Salt Water		
Oil		
Gas		

	From	To
Fresh Water		
Salt Water		
Oil		
Gas		

CORRECTION — GR/API/CC
Use this scale when compensation is applied
-25 0 +25

BULK DENSITY — GRAMS/CC
3.2 2.5 2.0 1.5 1.0

OIL POROSITY — %
30 20 10 0 10

CALIPER — DIAM. IN INCHES
6 16

GAMMA RAY — API UNITS
0 100 200

LOG TOP 1197

1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800

DEPTH IN FEET

V.R.N.C.P. MICROGRAPHICS

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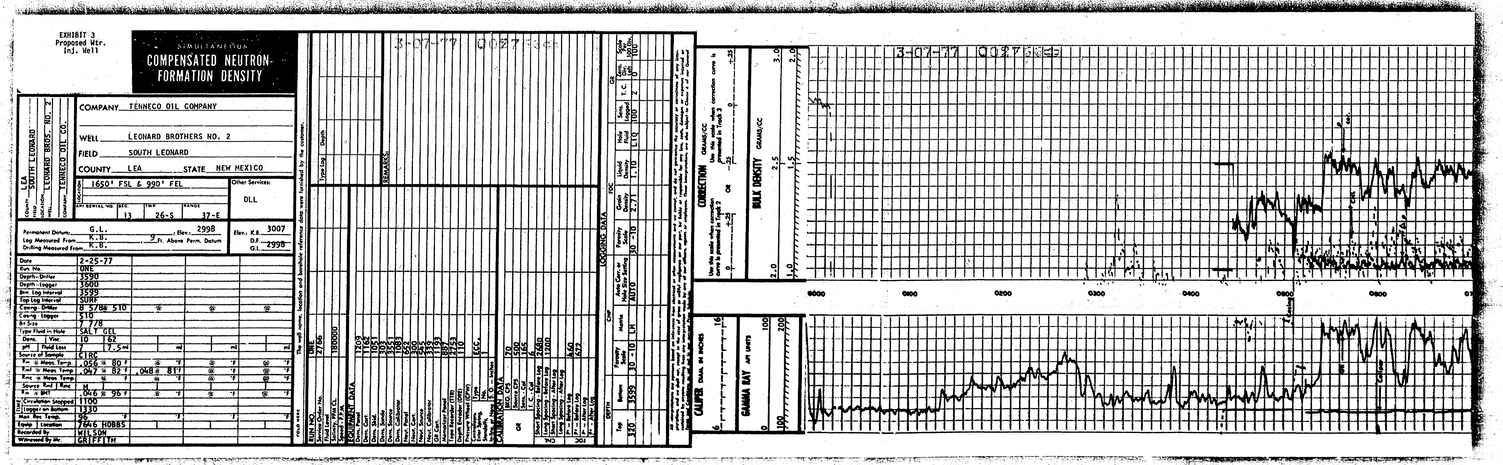
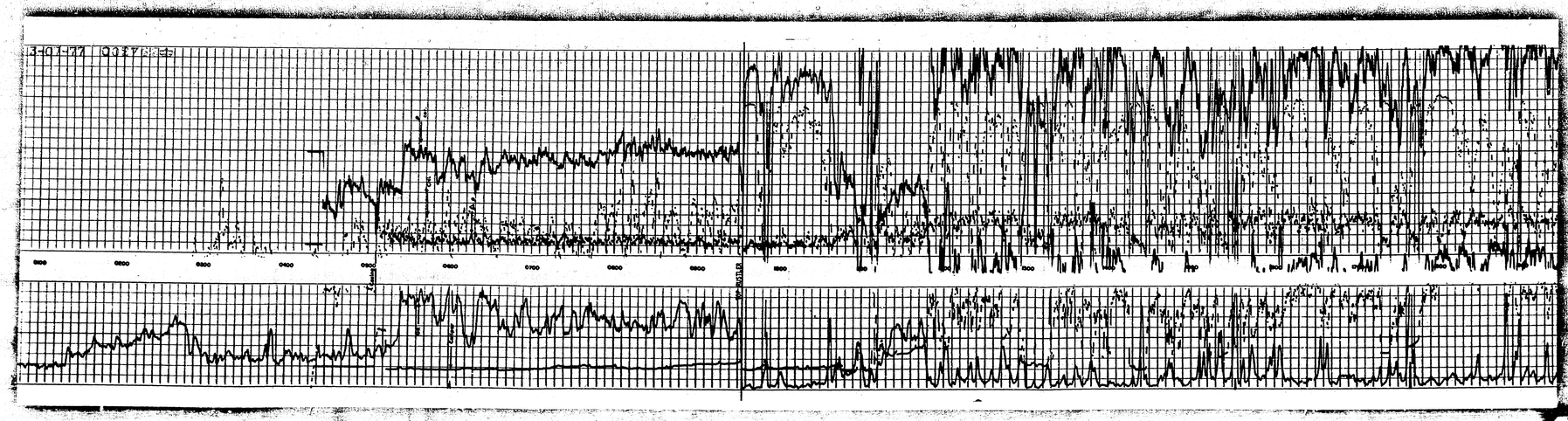
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
TOP ATOKA
TOP MORROW
TOP CHERT
TOP MISSISSIPPIAN
CAL POROSITY — %
BULK DENSITY GRAMS/CC
CORRECTION GRAMS/CC
GAMMA RAY API UNITS
CALIPER SMALL TO LARGE

V.S.N.C.F. MICROGRAPHIE

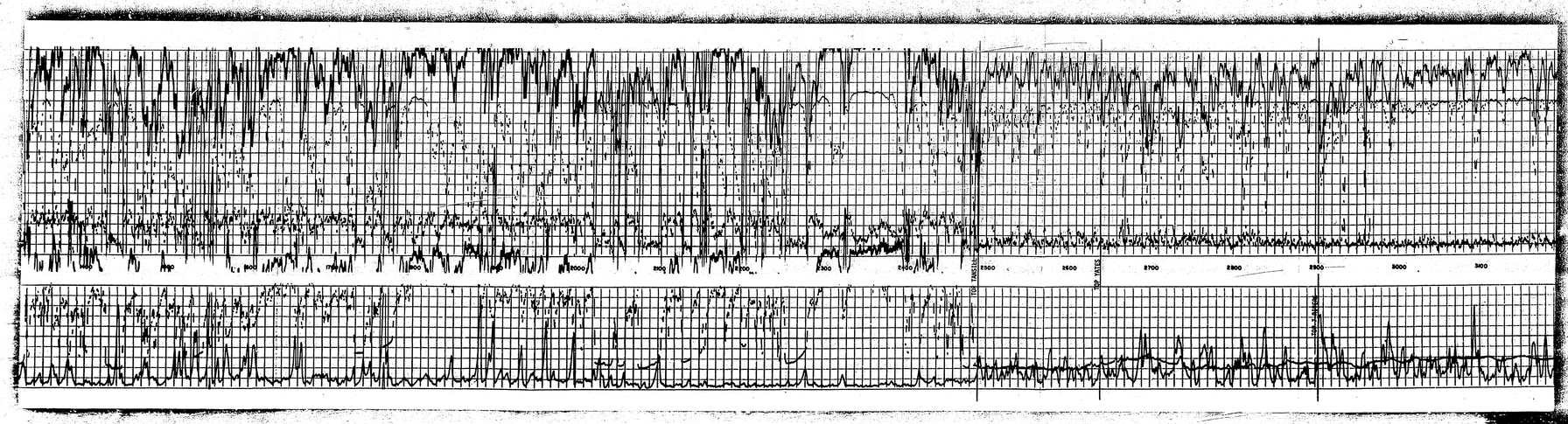
EXHIBIT 3
Proposed Wtr.
Inj. Well



V.E.B.C.F. HOBBS, N.M.



V.E.B.C.F. ELEKTROMEDICIN



V.T.U.C.P. MICROGRAPHICS

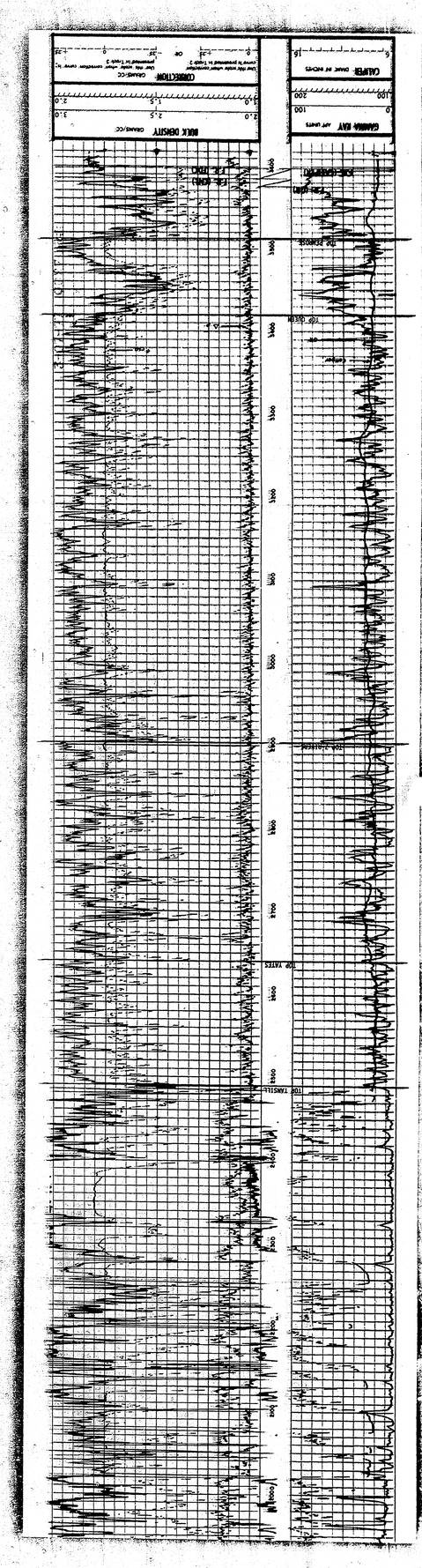

GAMMA RAY API UNITS
CALIPER Diam. in INCHES
BULK DENSITY GRAMS/CC
CORRECTION GRAMS/CC
TOP DAKOTA
TOP TAMSULA
TOP YATES
TOP QUEEN
TOP PENROSE

EXHIBIT 3
Proposed Wtr. Inj. Well

Schlumberger Well Logging Services
Simultaneous **Densilog**
Simultaneous **Neutron**

Rec. No.	
COMPANY	TENNECO OIL COMPANY
Well	LEONARD BROTHERS No. 7
FIELD	SOUTH LEONARD
COUNTY	LEA STATE NEW MEXICO
LOCATION	660' FSL & 660' FWL
	Sec. 13 Twp. 26-S Rge. 37-E
Other Services	DLL/MLL/GR

Permanent Datum	GROUND LEVEL	Elev. *			Elevations	
Log Measured from	Ka. B.	10.4 Ft. Above Permanent Datum			KB	*
Drilling Measured from	Ka. B.				DF	*
					GL	*
Date	10-26-77					
Run No.	ONE					
Service Order	880127					
Depth—Driller	13800					
Depth—Logger	13812					
Bottom Logged Interval	13810					
Top Logged Interval	9250					
Casing—Driller	8 5/8@ 5003	@	@	@		
Casing—Logger	NOT LOGGED					
Bit Size	7 7/8					
Type Fluid in Hole	BRINE-GEL-SOLTD					
Density and Viscosity	10.2 x 136					
pH and Fluid Loss	7 9.6 cc	cc		cc		cc
Source of Sample	MIX					
Rm @ Meas. Temp.	.048@ 78 °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	* @ * °F	@ °F	@ °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	* @ * °F	@ °F	@ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	*					
Rm @ BHT	.019@ 355°	@ °F	@ °F	@ °F	@ °F	@ °F
Time Since Circ.	8 HOURS					
Max. Rec. Temp. Deg. F.	354 °F	°F	°F	°F	°F	°F
Oper. Rig No. and Location	6128 / HOBBS					
Recorded By	JACK SON					
Witnessed By	JOSEPH					

REMARKS
Engineer
Office

* INFORMATION NOT AVAILABLE

RUN NO. | BIT NO. | DEPTH—DRILLER | DEPTH—LOGGER | BTM. LOG INTERVAL | TOP LOG INTERVAL | CASING—DRILLER | CASING—LOGGER | BIT SIZE | TYPE FLUID IN HOLE | DENSITY | VISCOSITY | PH | FLUID LOSS | SOURCE OF SAMPLE | RM @ MEAS. TEMP. | RMF @ MEAS. TEMP. | RMC @ MEAS. TEMP. | SOURCE RMF / RMC | RM @ BHT | TIME CIRC. | MAX. REC. TEMP. | EQUIP. LOCATION | RECORDED BY | WITNESSED BY

ONE | 1 | 13800 | 13812 | 13810 | 9250 | 5003 | | 7 7/8 | BRINE-GEL-SOLTD | 10.2 | 136 | | 9.6 | cc | MIX | .048 @ 78 °F | * @ * °F | * | * | .019 @ 355 °F | 8 HOURS | 354 °F | 6128 / HOBBS | JACK SON | JOSEPH

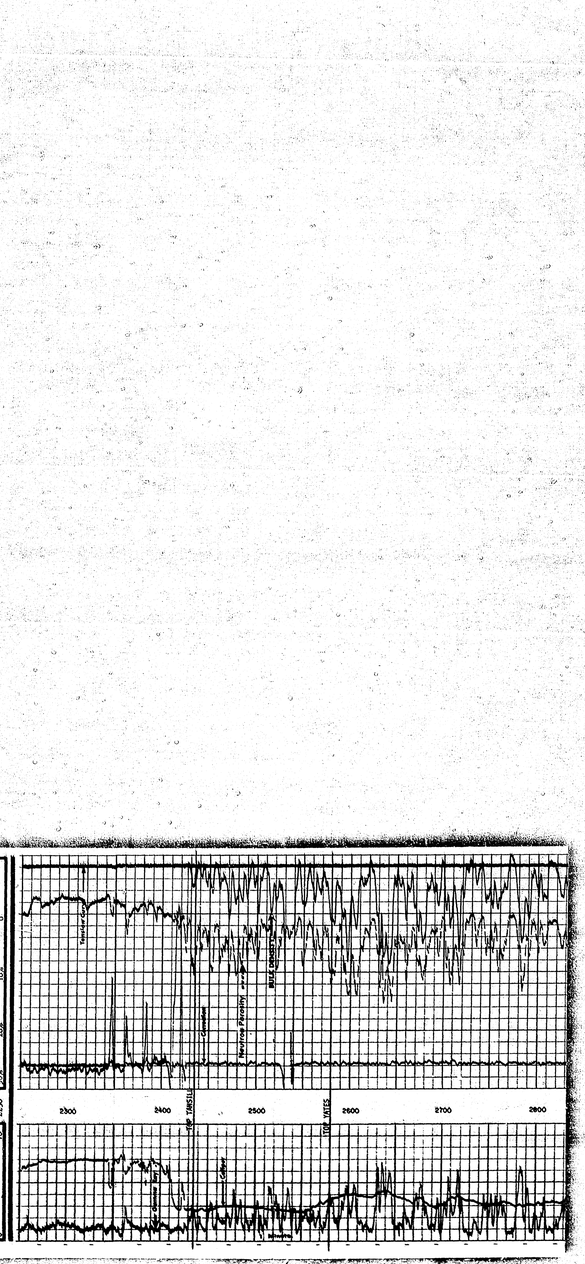
COMPENSATED DENSILOG — CORRECTION — BULK DENSITY—GRAMS/CC — BULK DENSITY—POROSITY

COMPENSATED NEUTRON — LIMESTONE POROSITY

GAMMA RAY — 10 API/CD API UNITS

CALIPER — HOLE SIZE-INCHES

DEPTH



V.P.R.C.P. MICROGRAPHICS
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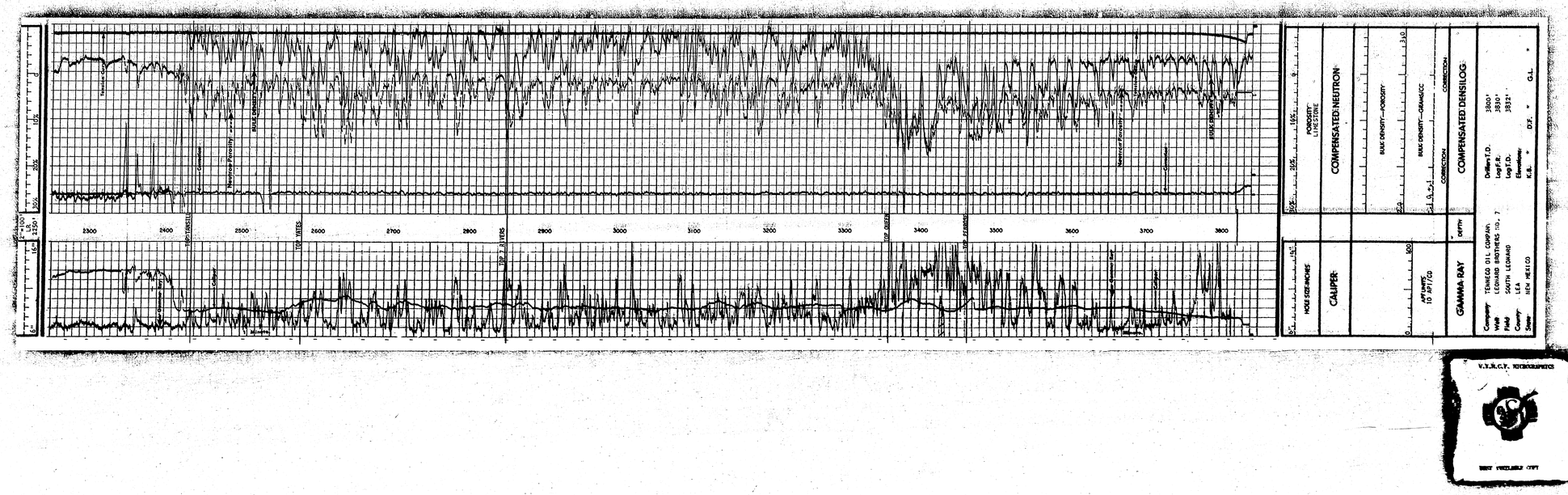
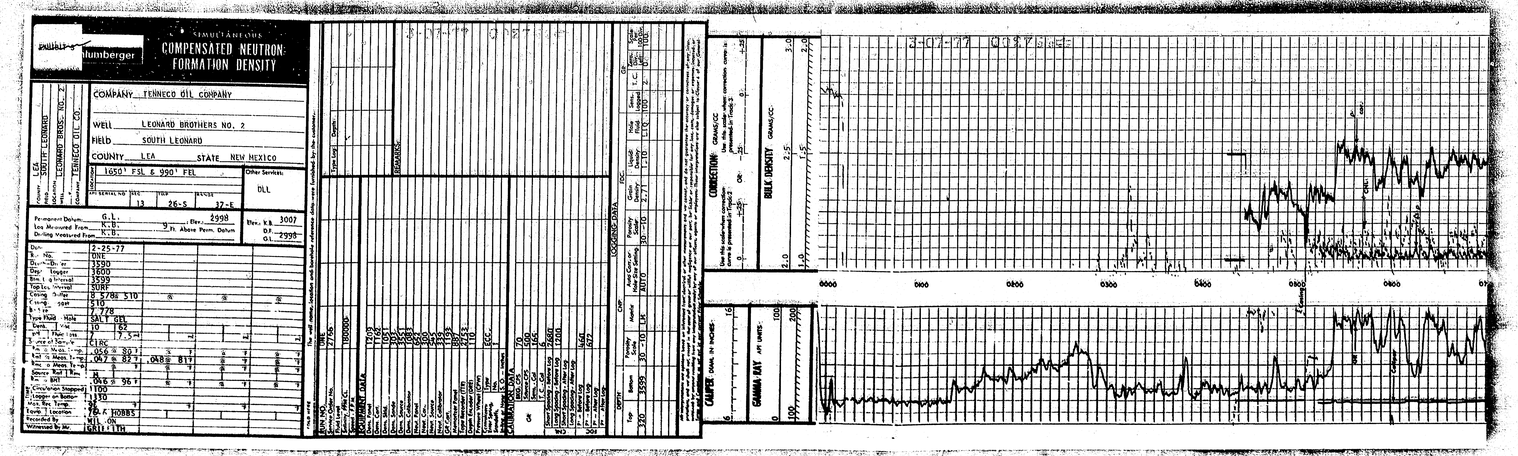
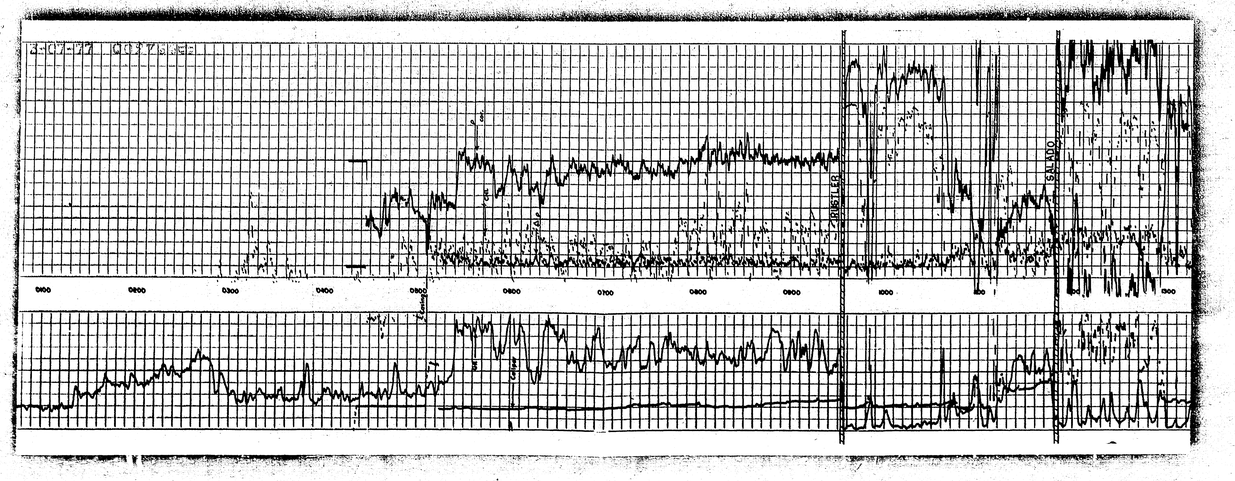
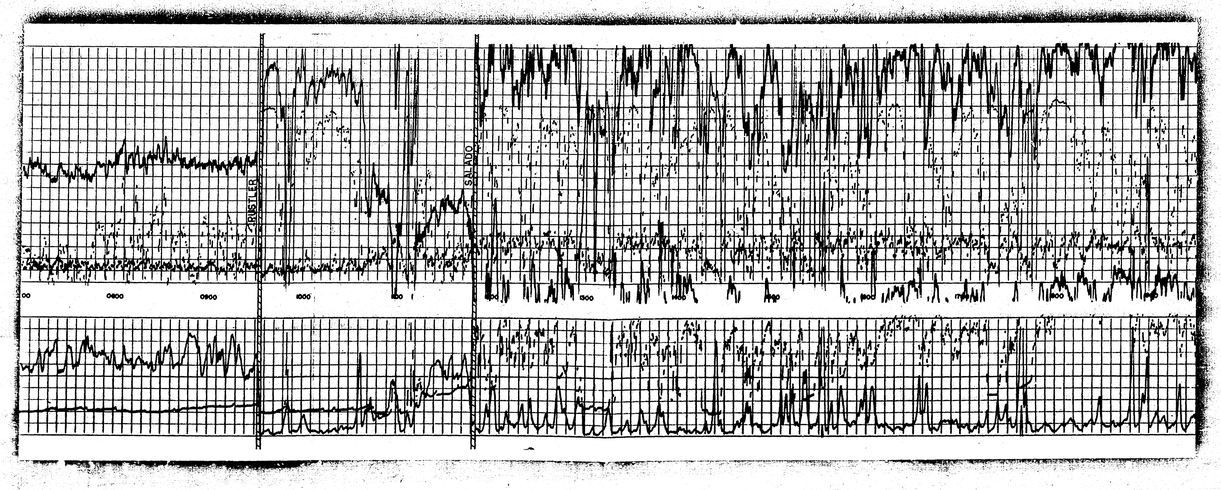

COMPENSATED DENSILOG
GAMMA RAY
CALIPER
COMPENSATED NEUTRON
POROSITY LIMESTONE
Company TENNECO OIL COMPAN.
Well LEONARD BROTHERS NO. 7
Field SOUTH LEONARD
County LEA
State NEW MEXICO
Drilling T.D. 3800'
Log F.R. 3830'
Log T.D. 3823'
Elevation
K.B. D.F. G.L.
TOP TANSILL
TOP YATES
TOP 7 RIVERS
TOP QUEEN
TOP SEVEN RIVERS
TOP GRAYBURG
TOP SAN ANDRES
Caliper
Neutron Porosity
BULK DENSITY
Gamma Ray
Bit Size
Bit Size
Caliper
Neutron Porosity
BULK DENSITY—POROSITY
BULK DENSITY—GRAMS/CC
CORRECTION
CORRECTION
Gamma Ray
Caliper
Neutron Porosity
BULK DENSITY



U.S.G.S. HYDROGRAPHICS


3-07-77 0037.SE
0900
0000
0300
0400
0500
0600
0700
0800
0900
1000
000
BP1.SRC
SAMPLE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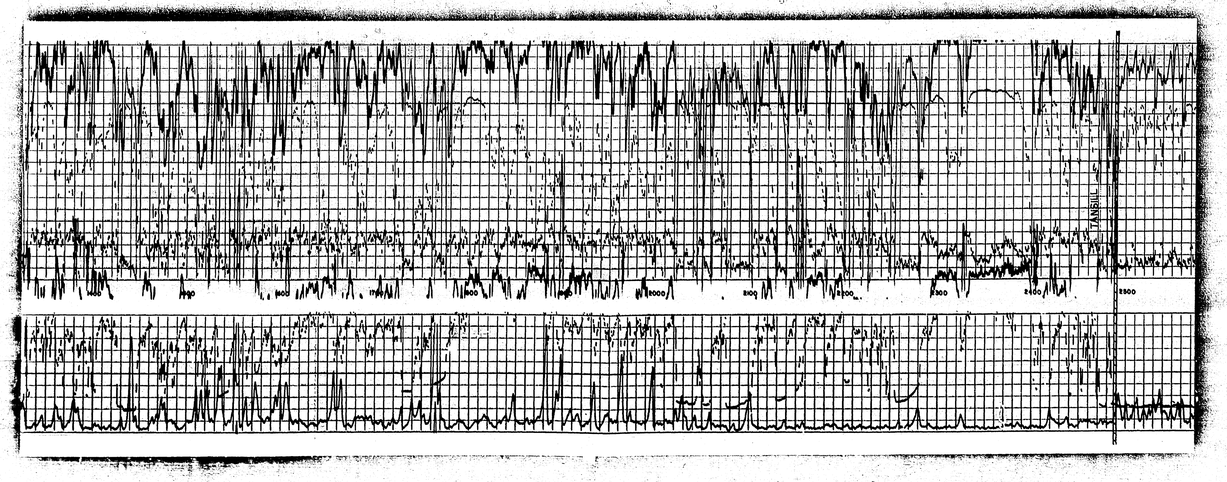
SALADO



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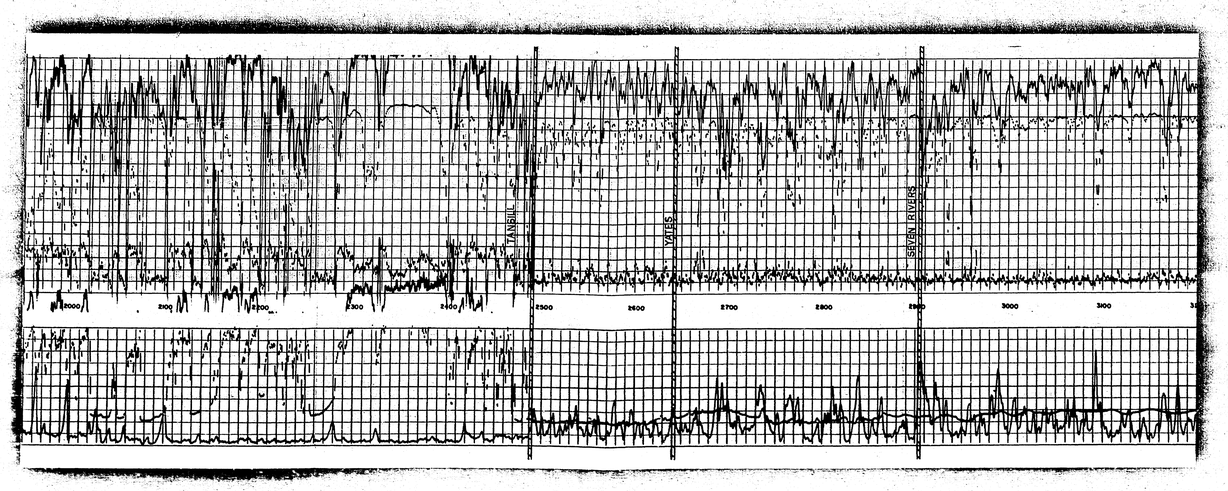

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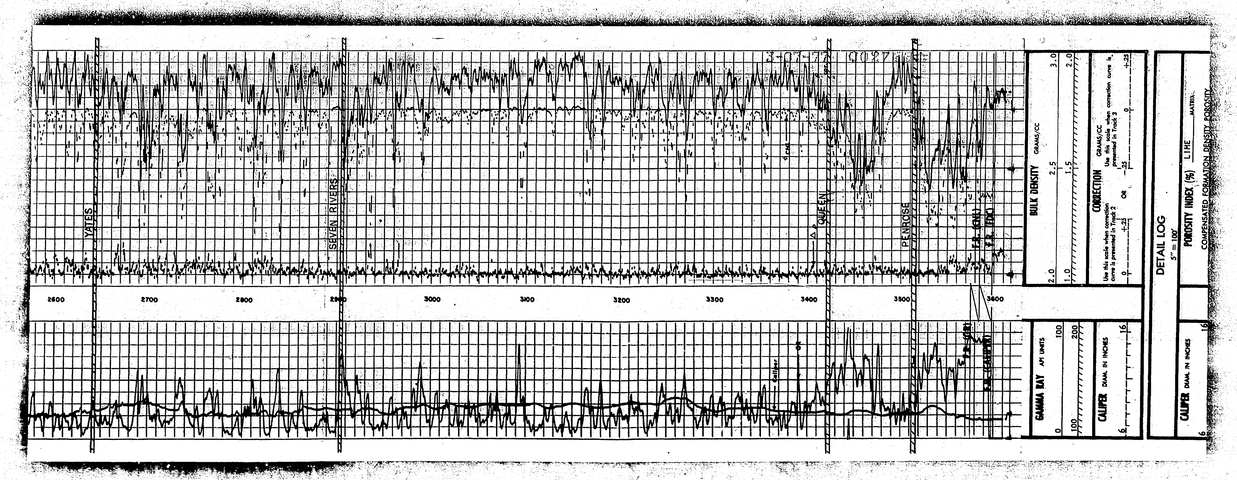

U.S.B.C.P. MICROGRAPHICS

Combination Logging Systems

Compensated Densilog
Compensated Neutron

FILE NO.	
COMPANY	TENNECO OIL COMPANY
WELL	LEONARD BROTHERS NO. 7
FIELD	SOUTH LEONARD
COUNTY	LEA STATE NEW MEXICO
LOCATION	660' FSL & 660' FWL
SEC. 13 TWP. 26-S RGE. 37-E	
Other Services	DLL/MLL/GR

Permanent Datum	GROUND LEVEL			Elev.			Elevations: KB DF GL
Log Measured from	K.B.		10.5	Ft. Above Permanent Datum			
Drilling Measured from	K.B.						
Date	10-26-77						
Run No.	ONE						
Depth—Driller	8002						
Depth—Logger	8000						
Bottom Logged Interval	7992						
Top Logged Interval	1850						
Casing—Driller	8 5/8@ 503						
Casing—Logger	NOT LOGGED						
BH Size	7 7/8						
Type Fluid in Hole	BRINE-GEL-LIQID						
Density and Viscosity	10.2	38					
pH and Fluid Loss	7	8.6 cc					
Source of Sample	PIT						
Rm @ Meas. Temp.	.058 @ 78 °F						
Rmf @ Meas. Temp.	@ °F		@ °F		@ °F		@ °F
Rmc @ Meas. Temp.	@ °F		@ °F		@ °F		@ °F
Source of Rmf and Rmc							
Rm @ BHT	.019 @ 95°		@ °F		@ °F		@ °F
Time Since Circ.	18 HOURS						
Max. Rec. Temp. Deg. F.	95 °F		°F		°F		°F
Oper. Rig. No. and Location	6136 HOBBS						
Recorded By	JACKSON						
Witnessed By	JOSEPH						

RUN NUMBER

TOOL NUMBER

CIRCULATION STOPPED

TIME

* INFORMATION NOT AVAILABLE

EQUIPMENT DATA

RUN NO. 1

Densilog	CDL	CNSG		
Neutron	CNL	CNSG		
Gamma Ray	GR			
Type				
Serial No.	1100	1093	5645	
Base Scale Reading	4000	4000	4000	
Source Strength	4000	4000	4000	
Source No.	4000	4000	4000	
Detector Spacing	4000	4000	4000	
Max. Rec. Temp.	4000	4000	4000	
Equipment Location	4000	4000	4000	
Recorded By	4000	4000	4000	
Witnessed By	4000	4000	4000	

RUN NO. 2

Densilog	CDL	CNSG		
Neutron	CNL	CNSG		
Gamma Ray	GR			
Type				
Serial No.	1100	1093	5645	
Base Scale Reading	4000	4000	4000	
Source Strength	4000	4000	4000	
Source No.	4000	4000	4000	
Detector Spacing	4000	4000	4000	
Max. Rec. Temp.	4000	4000	4000	
Equipment Location	4000	4000	4000	
Recorded By	4000	4000	4000	
Witnessed By	4000	4000	4000	

Logging Data

Density Logging Matrix	Limestone			
Density Fluid	1.0			
Density Log Interval	7900-2250			
Neutron Logging Matrix	Limestone			
Neutron Fluid	Brine			
Neutron Log Interval	7900-2250			
Gamma Ray Scale	0-100			
Gamma Ray Sensitivity	10			
Time Constant	1 SEC.	2	5	10
Logging Speed	60	120	240	480
Casing Collar Locator				
Bow Springs	2	3	4	6
Centralizers				
Scratchers				
Turbolizers				
Combination Fluid				
Density Fluid	1.0			
Max. Rec. Temp.	250 °F			
Equipment Location				
Recorded By				
Witnessed By				

Caliper

Bow Springs	2	3	4	6
Hole Size	7 7/8"			
Recorded By				
Witnessed By				

COMPENSATED DENSILOG
CORRECTION
+.1 0 +.2.1
BULK DENSITY—GRAMS/CC
2.0
3.0
BULK DENSITY—POROSITY

COMPENSATED NEUTRON
LIMESTONE POROSITY
45 30 15 0

DEPTH

GAMMA RAY
10 API/CD
API UNITS
0 100

CALIPER
HOLE SIZE-INCHES
6" 16"

2" = 100'
1" = 250'

Neutron Porosity — Limestone
BULK DENSITY
Density Porosity — Limestone
Caliper
GAMMA RAY
Gamma Ray

2300 2400 2500 2600 2700 2800

V.R.M.C.F. MICROGRAPHICS
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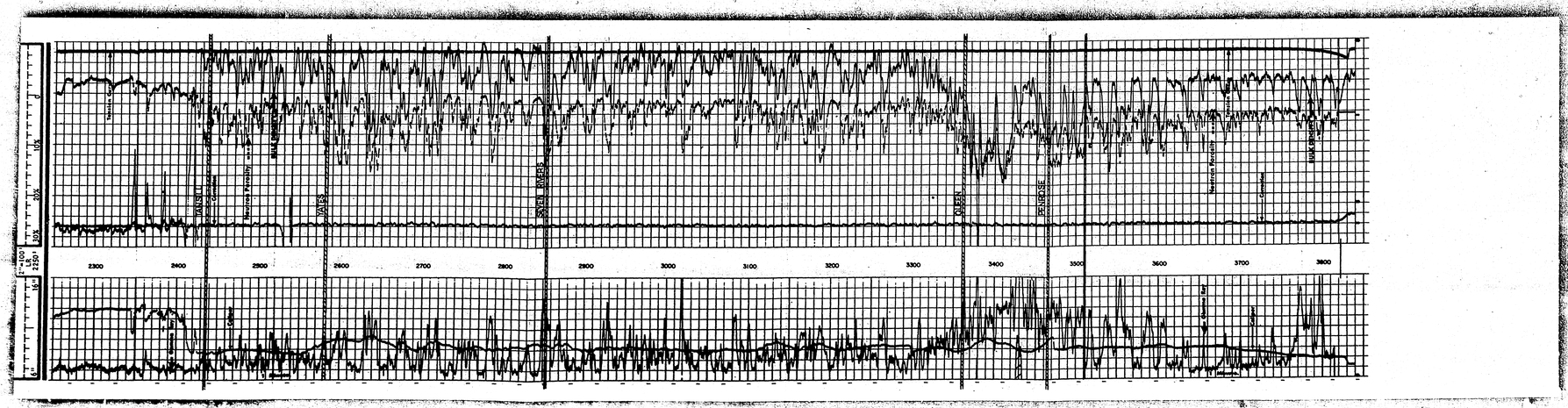

U.S.N.R.C.F. MICROGRAPHICS
BEST AVAILABLE COPY

EXHIBIT 6

Schlumberger

SIMULTANEOUS
COMPENSATED NEUTRON-FORMATION DENSITY

COMPANY TENNECO OIL COMPANY

WELL LEONARD FEDERAL #6

FIELD LEONARD

COUNTY LEA STATE NEW MEXICO

Other Services: DLL

Permanent Datum: G.L. Elev.: 3003 Elev.: K.B. 3012

Log Measured From: K.B. ft. Above Perm. Datum D.F.

Drilling Measured From: K.B. G.L. 3012

Date	7-25-77					
Run No.	ONE					
Depth—Driller	3600					
Depth—Logger	3606					
Btm. Log Interval	3601'					
Top Log Interval	1000					
Casing—Driller	8 5/8@ 500	@		@		@
Casing—Logger	510					
Bit Size	7 7/8					
Type Fluid in Hole	ZEOGEL					
Dens.	10.1	Visc. 38				
pH	Fluid Loss	7 10 ml	ml		ml	ml
Source of Sample	CIRC					
Rm @ Meas. Temp.	.036 @ 112 °F	@ °F		@ °F		@ °F
Rmf @ Meas. Temp.	.061 @ 83 °F	.046 @ 80 °F		@ °F		@ °F
Rmc @ Meas. Temp.	.027 @ 112 °F	@ °F		@ °F		@ °F
Source: Rmf / Rmc	M / C					
Rm @ BHT	.061 @ 99 °F	@ °F		@ °F		@ °F
Circulation Stopped	1500					
Logger on Bottom	2330					
Max. Rec. Temp.	99 °F	°F		°F		°F
Equip. / Location	7646 HOBBS					
Recorded By	BURDICK					
Witnessed By Mr.	SCHMECK, BRAZIL					

Sec. 11 Twp. 21-S Rge. 37-E

Loc.: 2400' FSL & 1980' FEL

Co. LEA State NEW MEXICO

Field LEONARD

Well LEONARD FEDERAL #6

Company TENNECO OIL CO.

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

BOREHOLE RECORD

Run No.	Bit From	Bit To	Size	Wgt.	Type Fluid
ONE	0	510	12 1/4	38	GEL
ONE	510	3600	7 7/8	10.1	ZEOGEL

CASING RECORD

Run No.	Bit From	Bit To	Size	Wgt.	Grade	Type Shoe
ONE	0	510	8 5/8	24	J-55	
ONE	0	3600	5 1/2	15.5	J-55	

REMARKS

LOGGED DATA

	Depth	Time Since Circ.	Max. Temp. Rec.	Equip. Location
1st Log	3600	7 HRS	99 °F	7646 HOBBS
2nd Log				
3rd Log				

OPERATING RIG TIMES

	Depth	Time
Rig On Loc.	1197	0730
Spud In	1197	1030
Drlg. Ftg.	2403	1030
Circ.	3600	2330
Short Trip	3600	0100
Circ.	3600	0230
Trip Out	3600	0330
Log	3600	0730
Trip In	3600	1130
Circ.	3600	1230
Trip Out	3600	1330
Log	3600	1730
Trip In	3600	2130
Circ.	3600	2230
Trip Out	3600	2330
Log	3600	0330
Rig Off Loc.	3600	0430

	Run	Top	Bottom
Type Log			
Depth—Driller	ONE	1000	3600
Depth—Logger	ONE	1000	3606
Bottom Logged Interval	ONE	1000	3601
Top Log Interval	ONE	1000	
Type Fluid in Hole	ONE	ZEOGEL	
Salinity, PPM Cl	ONE	1000	
Density	ONE	10.1	
Viscosity	ONE	38	
pH	ONE	10	
Fluid Loss	ONE	7	
Source of Sample	ONE	CIRC	
Rm @ Meas. Temp.	ONE	.036 @ 112 °F	
Rmf @ Meas. Temp.	ONE	.061 @ 83 °F	
Rmc @ Meas. Temp.	ONE	.027 @ 112 °F	
Rm @ BHT	ONE	.061 @ 99 °F	
Time Since Circ.	ONE	7 HRS	
Max. Rec. Temp.	ONE	99 °F	
Equip. Location	ONE	7646 HOBBS	
Recorded By	ONE	BURDICK	
Witnessed By	ONE	SCHMECK, BRAZIL	

CDC

	Run	Density	Porosity
Matrix	ONE	2.71	LIME
Fluid	ONE	1.10	30 - 10
Max. Recorded Temp.	ONE	105	30 - 10
Equip. Location	ONE	4010	15 - DEN

CN

	Run	Porosity Scale
Matrix	ONE	LIME
Fluid	ONE	30 - 10
Max. Recorded Temp.	ONE	102
Equip. Location	ONE	4010

GR

	Run	Scale
Det. I.C.	ONE	0 - 100
Det. S.C.	ONE	2
Mud Type	ONE	LIG
Mud Density	ONE	10
Mud Viscosity	ONE	38
Mud Resistivity	ONE	.061 @ 83 °F
Mud Sample Source	ONE	MEAS
Rmf @ Meas. Temp.	ONE	.046 @ 80 °F
Rmf Sample Source	ONE	MEAS
Rmc @ Meas. Temp.	ONE	.027 @ 112 °F
Rmc Sample Source	ONE	CALC
Rm @ Meas. Temp.	ONE	.036 @ 112 °F
Rm @ BHT	ONE	.061 @ 99 °F
Time Since Circ.	ONE	7 HRS
Max. Rec. Temp.	ONE	99 °F
Equip. Location	ONE	7646 HOBBS
Recorded By	ONE	BURDICK
Witnessed By	ONE	SCHMECK, BRAZIL

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 interpretation, 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 our General Terms and Conditions set out in our current Price Schedule.

CORRECTION (GRAM/CC)

Tool to scale deployment sleeve to be presented as Single Curve

0 ±.25

BULK DENSITY (GRAM/CC) 2.0 2.5 3.0 1.0 1.5 2.0

CAL POROSITY — % 30 20 10 0 -10

CALIPER (DIAM. IN INCHES) 6 16

GAMMA RAY API UNITS 0 100 100 200

U.N.M.C.F. MICROGRAPHICS
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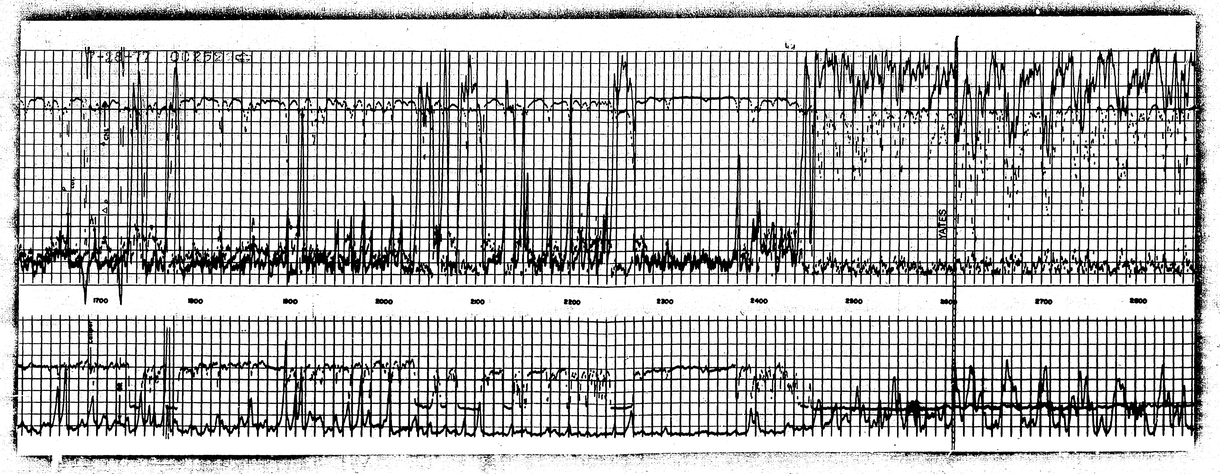

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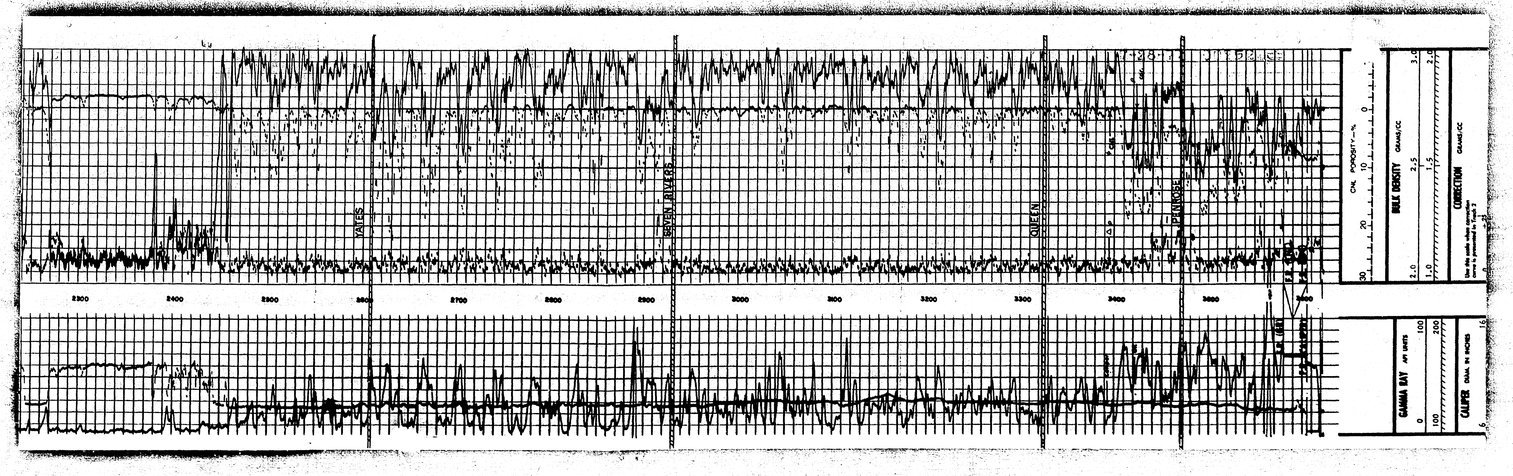

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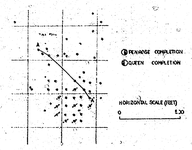


BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Texaco EXHIBIT NO. B-1
CASE NO. 6101
Submitted by H. Williams
Hearing Date 22 Feb 78

STRATIGRAPHIC CROSS-SECTION A-A'
QUEEN AND PENROSE FORMATIONS
LEA COUNTY, NEW MEXICO T26S R37E

A

A'

LEONARD FED. 3
1650 FSL 1650 FWL SEC. 11

LEONARD FED. 6
660 FSL 660 FEL SEC 11

LEONARD BROS. 11
1980 FSL 1980 FWL SEC. 13

LEONARD BROS. 5
660 FSL 1980 FEL SEC 13

JAY FED. 1
660 FNL 990 FEL SEC 24

DATUM

QUEEN FIRST SAND

QUEEN MAIN PAY

PENROSE

2900

3000

3100

2900

3000

3100

2900

3000

3100

2900

3000

3100

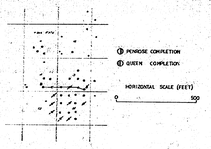
2900

3000

3100

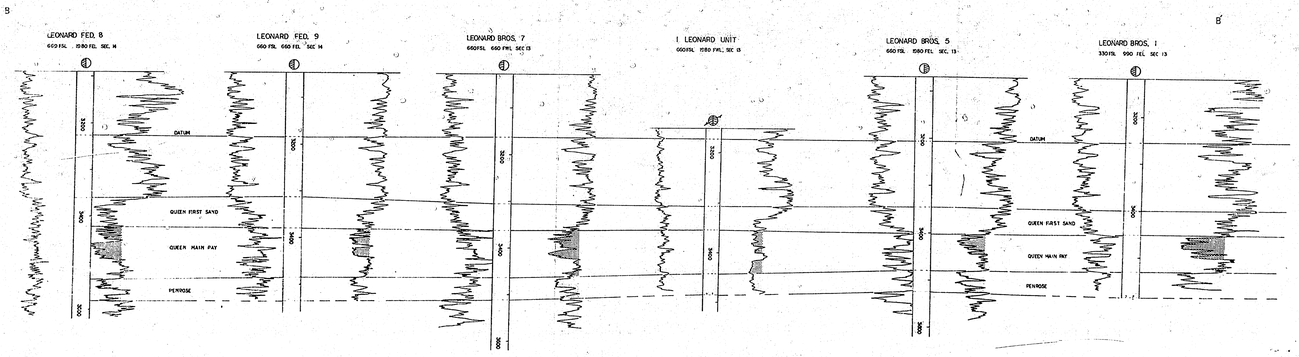
2' 9600 FEET

V.R.M.C.F. MICROGRAPHICS
LOS ANGELES DEPT



BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Tenneco EXHIBIT NO. B-2
CASE NO. 6161
Submitted by H. Wilbanks
Hearing Date 22 Feb 78

STRATIGRAPHIC CROSS-SECTION B-B'
QUEEN AND PENROSE FORMATIONS
LEA COUNTY NEW MEXICO T-26S R-37E



V.U.N.C.P. MICROGRAPHICS
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R 37 E

R 38 E

T 26 S

T 26 S

R 37 E

OPERATED BY TEXAS PACIFIC
SOUTH LEONARD
QUEEN UNIT

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
Texaco EXHIBIT NO. 7
CASE NO. 6611
Submitted by Flynn Wilbanks
Hearing Date 29 FEB 68

TENNECO OIL COMPANY
SUBSIDIARY OF TENNECO INC.
SOUTH LEONARD AREA
LEA COUNTY, NEW MEXICO

TENNECO OIL COMPANY
SOUTH LEONARD QUEEN-PENROSE
POSSIBLE DEVELOPMENT

SCALE IN FEET
1000 500 0 1000 2000

DENVER, COLORADO

V.R.S.C.Y. Microdocuments

R 37 E

R 38 E

T 26 S

T 26 S

R 37 E

Amerada et al

B. Lankford Jr.

J. Manaugh

Getty

Getty

Maralo Inc.

El Paso Nat. Gas

Tenneco

Tenneco

El Paso Nat. Gas

Tenneco

Howell Spear

E.P.N.G.

E.P.N.G.

Tenneco

Tenneco

El Paso Nat. Gas

Tenneco

Texaco

Tenneco

Ledbetter Res.

Ledbetter Res.

OPERATED BY TEXAS PACIFIC
SOUTH LEONARD
QUEEN UNIT

BEFORE EXAMINER STAMETS
OIL CONSERVATION COMMISSION
TENNECO EXHIBIT NO. 11
CASE NO. 6161
Submitted by H. Wilbanks
Hearing Date 22 Feb 78

TENNECO OIL COMPANY
SUBSIDIARY OF TENNECO INC.

SOUTH LEONARD AREA
LEA COUNTY, NEW MEXICO

TENNECO OIL COMPANY
SOUTH LEONARD FIELD
AREA-PLANOSE COMPLETIONS

SCALE IN FEET
1000 500 0 1000 2000

DENVER, COLORADO

V.V.R.C.F. MICROGRAPHICS
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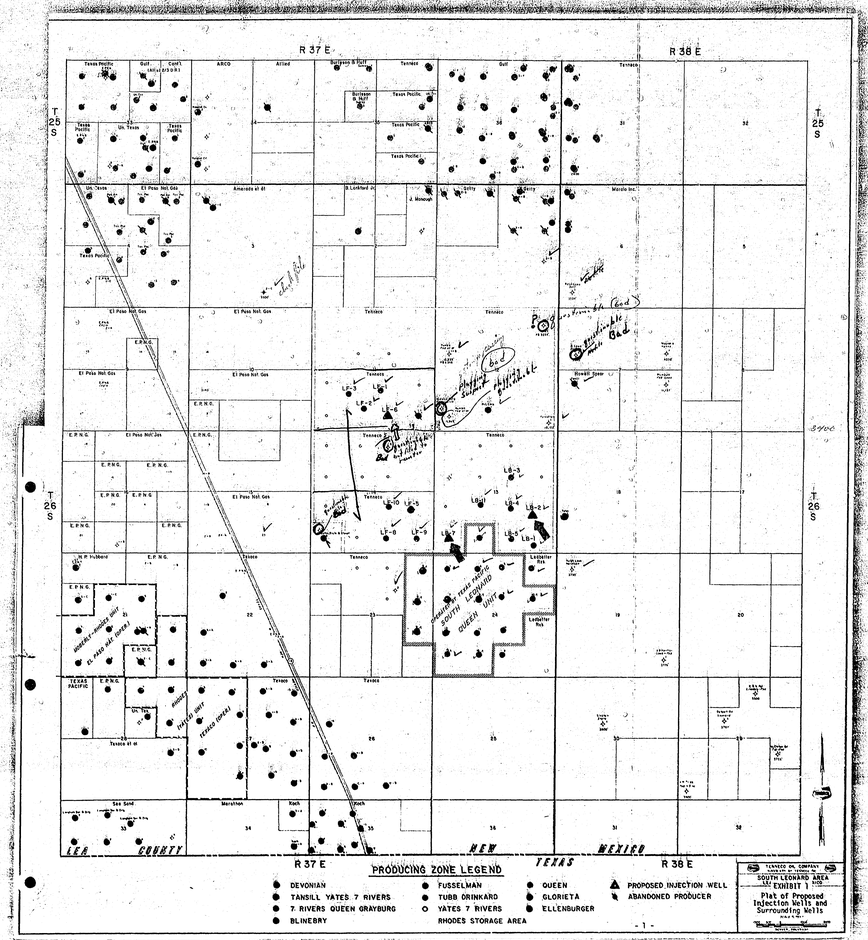

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