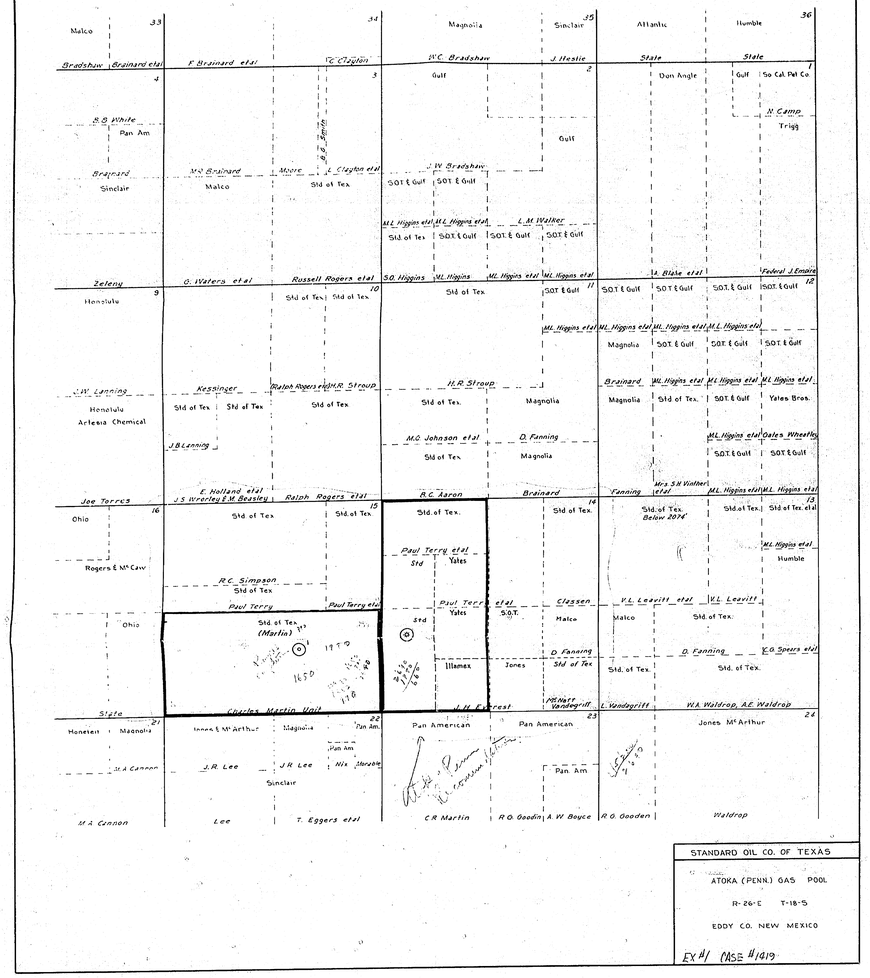
Case No.

1419

Large Exhibits



STANDARD OIL CO. OF TEXAS

ATOKA (PENN.) GAS POOL

R-26-E T-18-S

EDDY CO. NEW MEXICO

EX #1 CASE #1419

CORE LABORATORIES, INC.

COMPANY STANDARD OIL COMPANY OF TEXAS — DATE ON 8-13-57 — FILE NO. WS-3
WELL EVERETT NO. 1 — DATE OFF 8-23-57 — ENGR. BAKER
FIELD WILDCAT — FORMATION PENNSYLVANIAN — ELEV. 3362' DF
COUNTY EDDY — STATE NEW MEXICO — DRLG FLD. WATER BASE MUD — CORES DIAMOND 3¾"
LOCATION SEC 14-T18S-R26E — REMARKS SAMPLED AS DIRECTED BY CLIENT

SAND · SHALE · LIMESTONE · DOLOMITE · CONGLOMERATE · CHERT

C-GRAY
FG-FINE GRAIN
MG-MEDIUM GRAIN
CG-COARSE GRAIN

TABULAR DATA and INTERPRETATION

CONVENTIONAL ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MAXIMUM MILLIDARCYS	PERMEABILITY 90° TO MAX. MILLIDARCYS	POROSITY PERCENT	RESIDUAL FLUID SATURATION PERCENT PORE SPACE	VISUAL DESCRIPTION	REMARKS
1	9060.5	<0.1	0.0	3.1	60.7	D,FG	
2	61.5	<0.1	0.0	3.6	56.6	D,FG	
3	62.5	<0.1	0.0	3.8	52.7	D,FG	
4	63.5	<0.1	0.0	0.0	55.0	D,FG	
5	64.5	<0.1	0.0	0.0	55.0	D,FG	
6	65.5	<0.1	0.0	3.1	70.0	D,FG	
7	66.5	<0.1	0.0	2.7	70.0	D,FG	
8	67.5	<0.1	0.0	2.7	70.0	D,FG	
9	68.5	<0.1	0.0	3.1	66.3	D,FG	
10	69.5	<0.1	0.0	2.7	73.6	D,FG	
11	70.5	1.1	0.0	11.1	54.5	D,FG	OAS
12	71.5	16	0.0	16.3	56.0	D,FG	OAS
13	72.5	10	0.0	16.3	62.0	D,FG	OAS
14	73.5	33	0.0	17.4	60.0	D,FG	OAS
15	74.5	10	0.0	14.2	62.0	D,FG	OAS
16	75.5	1.1	0.0	11.1	57.0	D,FG	OAS
17	76.5	56	0.0	17.4	60.0	D,FG	OAS
18	77.5	161	0.0	19.6	54.0	D,FG	OAS
19	78.5	56	0.0	17.4	60.0	D,FG	OAS
20	79.5	161	0.0	19.6	54.0	D,FG	OAS
21	80.5	<0.1	0.0	0.0	58.8	D,FG	
22	81.5	<0.1	0.0	0.0	53.3	D,FG	
23	82.5	<0.1	0.0	0.0	56.6	D,FG	
24	83.5	<0.1	0.0	0.0	54.3	D,FG	
25	84.5	8.3	0.0	14.3	60.0	D,FG	OAS

COMPLETION CORECRAPH

PERMEABILITY 0—0 (50 30 20 10 0)
POROSITY x—x (40 30 20 10 0)
TOTAL WATER o—o (60 40 20)
OIL SATURATION x—x (0 20 40 60 80)

22	9076.0	10.8	0.0	37.1	0.0	P,D	
23	9082.0	16.2	0.0	35.6	0.0	P,D	
24	9083.0	21.6	0.0	47.5	0.0	P,D	
25	9091.0	12.0	0.0	35.0	0.0	P,D	
26	9100.0	21.8	0.0	69.2	0.0	P,D	
27	9102.0	14.1	0.0	66.1	0.0	P,D	
28	9104.0	26.7	0.0	64.3	0.0	P,D	
29	9106.0	18.7	0.0	69.3	0.0	P,D	
30	9108.0	11.2	0.0	61.5	0.0	P,D	
31	9110.0	15.2	0.0	50.5	0.0	P,D	
32	9113.0	17.0	0.0	50.1	0.0	P,D	
33	9115.0	13.9	0.0	48.1	0.0	P,D	
34	9116.0	28.3	0.0	62.5	0.0	P,D	

POROSITIES AND FLUID SATURATIONS FROM SIDE WALL CORES.

Depth scale: 9060 9065 9070 9075 9080 9085 9090 9095 9100 9105 9110 9115 9116

W. Everett No. 1 — Sec. 14-T18S-R26E — Elev. 3362'

Humble O&R Co. No. 1 Cedar Bluff — Sec. 5-T18S-R27E — Elev. 3512'

Humble O&R Co. No. 2 Cedar Bluff — Sec. 8-T18S-R27E — Elev. 3512'

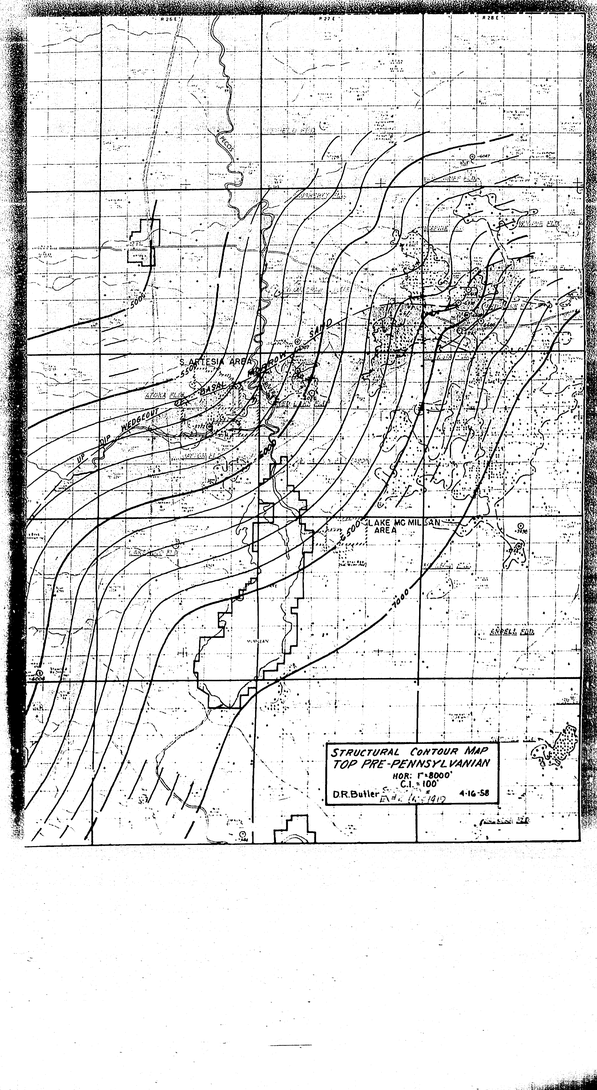
Morrow Sand Top
Morrow Lime
Chester Sand Top
Chester Lime Top
Miss Lime Top

STANDARD OIL COMPANY OF TEXAS

CROSS SECTION SHOWING RELATION OF S.O.T. W. I. EVERETT TO RED LAKE (PENN.) PRODUCERS

FOR OIL CONSERVATION COMMISSION HEARING OF APRIL 16, 1958

EXHIBIT No.



SCHLUMBERGER WELL SURVEYING CORPORATION

MICROLOGGING®

COMPANY STANDARD OIL COMPANY OF TEXAS
WELL EVEREST #1
FIELD WILDCAT
LOCATION SEC. 14-10S-26E
COUNTY EDDY
STATE NEW MEXICO

Other Surveys: GRN 16E T0N C1O
Location of Well: 660 FNL, 1980 FSL
Elevation: D.F. 3362, K.B. 3363, or G.L. 3320
FILING No.

RUN No.	ONE	TWO	THREE
Date	6-15-57	6-17-57	8-20-57 to 9-10-57
First Reading	1900	2993	8471 to 10640
Last Reading	100	1312	3000 to 7870
Feet Measured	1100	1781	4870
Csg. Schlum.		1206	3000
Csg. Driller		1206	3000 3000
Depth Reached	1206	3001	9477 10546
Bottom Driller	1200	3000	9480 10545
Depth Datum	KB 15' Abv GL		KB 15' Abv GL
Mud Mat.	Natural		Chem. Gel-Chem
Dens. Visc.	10 35	Water	10 56 10 61
Mud Resist.	2.2@ 60 °	1.6@ 90 °	1.9@ 78 ° 9@ 76 °
Res. Bkt	1.9@ 80 °	1.6@ 90 °	1.6@ 153 ° 44@ 156 °
pH			1.6@ 153 ° 10@ 156 °
Wtr. Loss	CC 30 min	CC 30 min	8 CC 30 min 9 CC 30 min
Rmf			
Rmf @ Meas. Temp.	1.6@ 90 °	1.6@ 90 °	1.6@ 153 ° 4.6@ 156 °
Mud Log Rm	1.6@		1.6@ 153 ° 4.6@ 156 °
Sample	Upper		Upper
Depth	900		7200
Bit Size	12" to 900, 10" to 1206		8 3/4" 8 3/4"
Bit Type	FWS-4	FWS-4	PDC-4 PDC-4
Csg. Rig Time	10 hr.		4 Hrs. 2 Hrs.
Truck No.	1120 - Artesia		1759-Hobbs 1730-Artesia
Recorded By	Reiners Reiners		Geiser Holtzapfel
Witnessed By	Williamson Tolber		Tolber Robinson

REMARKS: Run No. 1 C.D. used 2 C. sets

Correlation No. 11C-2599
Serial No. 11C-2601
Scale No. 11C-2600

RESISTIVITY -ohms. m²/m
0 Mills Distance 1" = 1'
0 Mills Normal 2"

DEPTHS

SPONTANEOUS-POTENTIAL millivolts
-40 +40
S.P. From

MICROLOG CALIPER
Hole Diameter in Inches

0200 0300 0400 0500 0600 0700 0800 0900 1000 800

SCHLUMBERGER WELL SURVEYING CORPORATION

Induction-Electrical Log

COMPANY STANDARD OIL COMPANY OF TEXAS
WELL EVEREST #1
FIELD WILDCAT
LOCATION SEC. 14-10S-26E
COUNTY EDDY
STATE NEW MEXICO

Other Surveys: NL GRN T0N C1O
Location of Well: 660 FNL, 1980 FSL
Elevation: D.F. 3362, K.B. 3363, or G.L. 3320
FILING No.

RUN No.	ONE	TWO	THREE
Date	6-15-57	6-17-57	8-20-57 9-10-57
First Reading	1900	2993	8471 10640
Last Reading	100	1312	3000 7870
Feet Measured	1100	1781	4870
Csg. Schlum.		1206	3000
Csg. Driller		1206	3000 3000
Depth Reached	1206	3001	9477 10546
Bottom Driller	1200	3000	9480 10545
Depth Datum	KB 15' Abv GL		KB 15' Abv GL
Mud Mat.	Natural		Chem. Gel-Chem
Dens. Visc.	10 35	Water	10 56 10 61
Mud Resist.	2.2 @ 60 °	1.6 @ 90 °	1.9 @ 78 ° 9 @ 76 °
Res. Bkt	1.9 @ 80 °	1.6 @ 90 °	1.6 @ 153 ° 44 @ 156 °
pH			1.6 @ 153 ° 10 @ 156 °
Wtr. Loss	CC 30 min	CC 30 min	8 CC 30 min 9 CC 30 min
Rmf			
Rmf @ Meas. Temp.			
Mud Log Rm			
Sample			
Depth			
Bit Size	12" to 900, 10" to TD		8 3/4" 8 3/4"
Bit Type	FWS-4	FWS-4	PDC-4 PDC-4
Csg. Rig Time	10 hr.		4 Hrs. 2 Hrs.
Truck No.	1120 - Artesia		1759-Hobbs 1730-Artesia
Recorded By	Reiners Reiners		Geiser Holtzapfel
Witnessed By	Williamson Tolber		Tolber Robinson

REMARKS: Run No. 1 C.D. used 2 C. sets

Correlation No. 11C-2599
Serial No. 11C-2601
Scale No. 11C-2600

CONDUCTIVITY millimhos/m — 1000 / INDUCTION / 500 / 400

RESISTIVITY -ohms. m²/m
16" NORMAL 100 0 1000 0
INDUCTION 100 0

DEPTHS

SPONTANEOUS-POTENTIAL millivolts
-20 +80

0200 0300 0400 0500 0600 0700 0800 0900 1000 900 800 700 600 500 400 300 200 100 0

T.D. 9480

RESISTIVITY
-ohms, m²/m

D_Micro Inverse 1"x 1"

D_Micro Normal 2"

RUN 2

DEPTHS

SPONTANEOUS-POTENTIAL millivolts

SP From

MICROLOG CALIPER

Hole Diameter in Inches

1200 1300 1400 1500 1600 1700 1800 1900 2000 2100

2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100 5200

RESISTIVITY
ohms. m²/m.

0 Micro Inverse 10" 20"

0 Micro Normal 2" 20"

RUN 2

RUN 3

DEPTHS

SPONTANEOUS POTENTIAL
millivolts

- SP +

SP Plan

MICROLOG CALIPER

6 7 8 9 10 11 12 13 14 15 16

Hole Diameter in Inches

GAMMA RAY SCALE

0 Gamma Ray 200

API Units of Natural Radioactivity

2100 2200 2300 2400 2500 2600 2700 2800 2900 3000

5000 5100 5200 5300 5400 5500 5600 5700 5800 5900 6000 6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200 7300 7400 7500 7600 7700 7800

MICROLOG CALIPER

Hole Diameter in Inches

Gamma Ray SCALE

Increase → Radium Effect per Unit of Formation

3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000

7600 7700 7800 7900 8000 8100 8200 8300 8400 8500 8600 8700 8800 8900 9000 9100 9200 9300 9400 9500 9600 9700 9800 9900 10000 10100 10200 10300 10400 10500

4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100

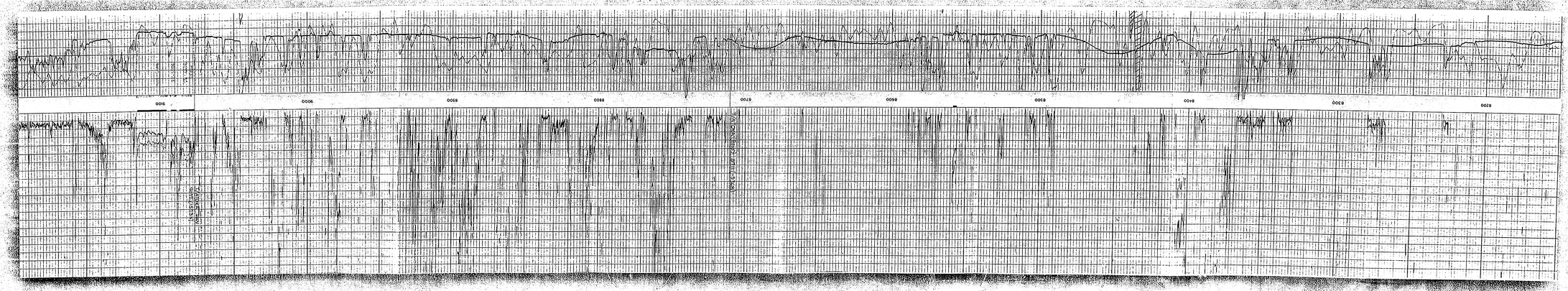
4000 4100 4200 4300 4400 4500 4600 4700 4800 4900 5000 5100

5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100

6100 6200 6300 6400 6500 6600 6700 6800 6900 7000 7100 7200

TVD 6100

7200 7300 7400 7500 7600 7700 7800 7900 8000 8100 8200



9000
9100
9200
9300
9400