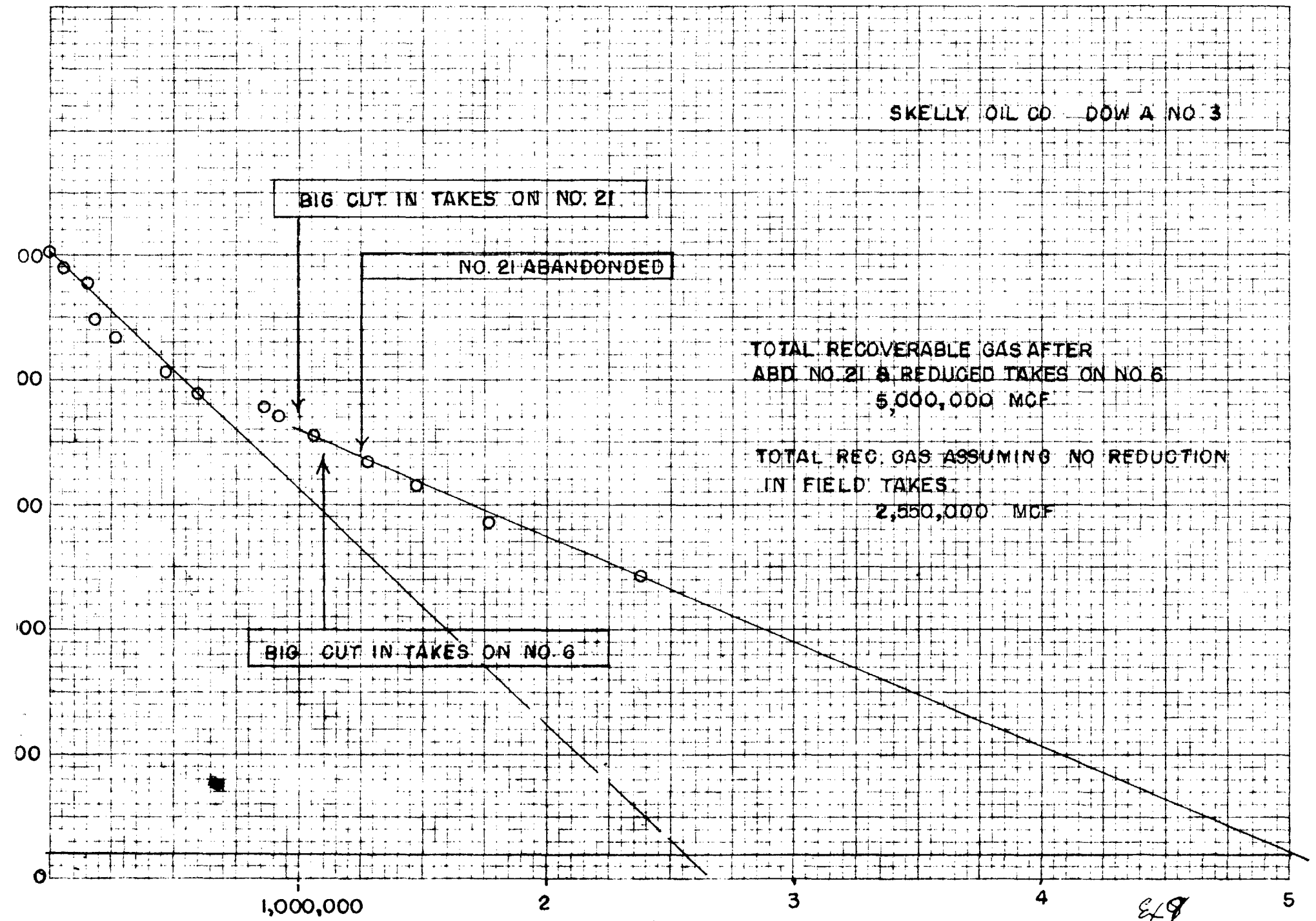
NO. 358 10X10 PER INCH THE FREDERICK POST CO. CHICAGO ILL.



E49

Darrell W. Smith Co.

Box 1105 • Midland, Texas

October 25, 1957

El Paso Natural Gas Company
Wilco Building
Midland, Texas

Re: Well No. 1 Leonard State
Eddy County, New Mexico

ILLEGIBLE

Gentlemen:

Attached are the results of core analysis of the Atoka formation in the above well.

The Atoka was cored from 10,712 feet to 10,771 feet with a water base mud and all of the sandstone was analyzed by Full Diameter Corestudy.

The analyzed interval can be divided into two zones. They are from 10,712 feet to 10,736 feet and from 10,736 feet to 10,762.5 feet. Their average physical properties are tabulated on an attached sheet A comparison of these physical properties will indicate the relative producing capabilities of the two intervals. To reasonably estimate the ultimate recovery from a gas reservoir it is necessary to have more data than is supplied by a core analysis

The porosity was determined using a Boyle's law gas expansion porosimeter.

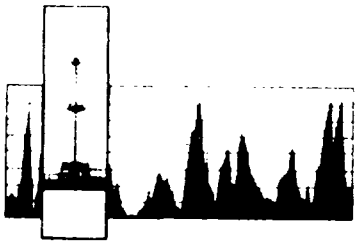
Yours very truly,

DARRELL W. SMITH COMPANY

Lawrence W. Smith
Registered Professional Engineer

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO.
CASE NO.

LWS:br



Darrell W. Smith Co.

CORE FOOTAGE SUMMARY

Operator El Paso Natural Gas Company **Lab No.** 937-A

Well No. 1 Leonard State

Formations Atoka Sand

Depths 10,712-10,771

Field Wildcat **County** Eddy **State** New Mexico

Location 1980' FNL 660' FWL Sec 22-17S-29E

CORE INFORMATION

Intervals cor	from 10,712 to 10,771	
	from ____ to ____	
	from ____ to ____	
Footage of formation cored	59	
Recovery	59	
Feet of core received at laboratory for analysis	59	59
Number of representative samples selected for analysis	50	
Feet of core represented by selected samples	50.5	
Feet of core compared to tested samples		
Feet of shale and or dense barren material not analyzed	8.5	
Total footage of core accounted for in laboratory analysis	59.0	59.0

AVERAGE PHYSICAL PROPERTIES

Footage	Permeability	Porosity	Fluid Saturation Residual Oil	Water
10,712-10,736	201	11.9	1.2	16.3
10,736-10,762.5	40	5.8	Trace	24.2

Darrell W. Smith Co.

Box 1105 • Midland, Texas

FULL DIAMETER CORE STUDY

Operator El Paso Natural Gas Company **Field** Wildcat **Formation** Atoka Sand

Well No. 1 Leonard State **Location** 1980' FNL 660' FWL Sec 22-175-29E

Depths 10,712-10,771 **Date** October 25, 1957 **Lab No.** 937A

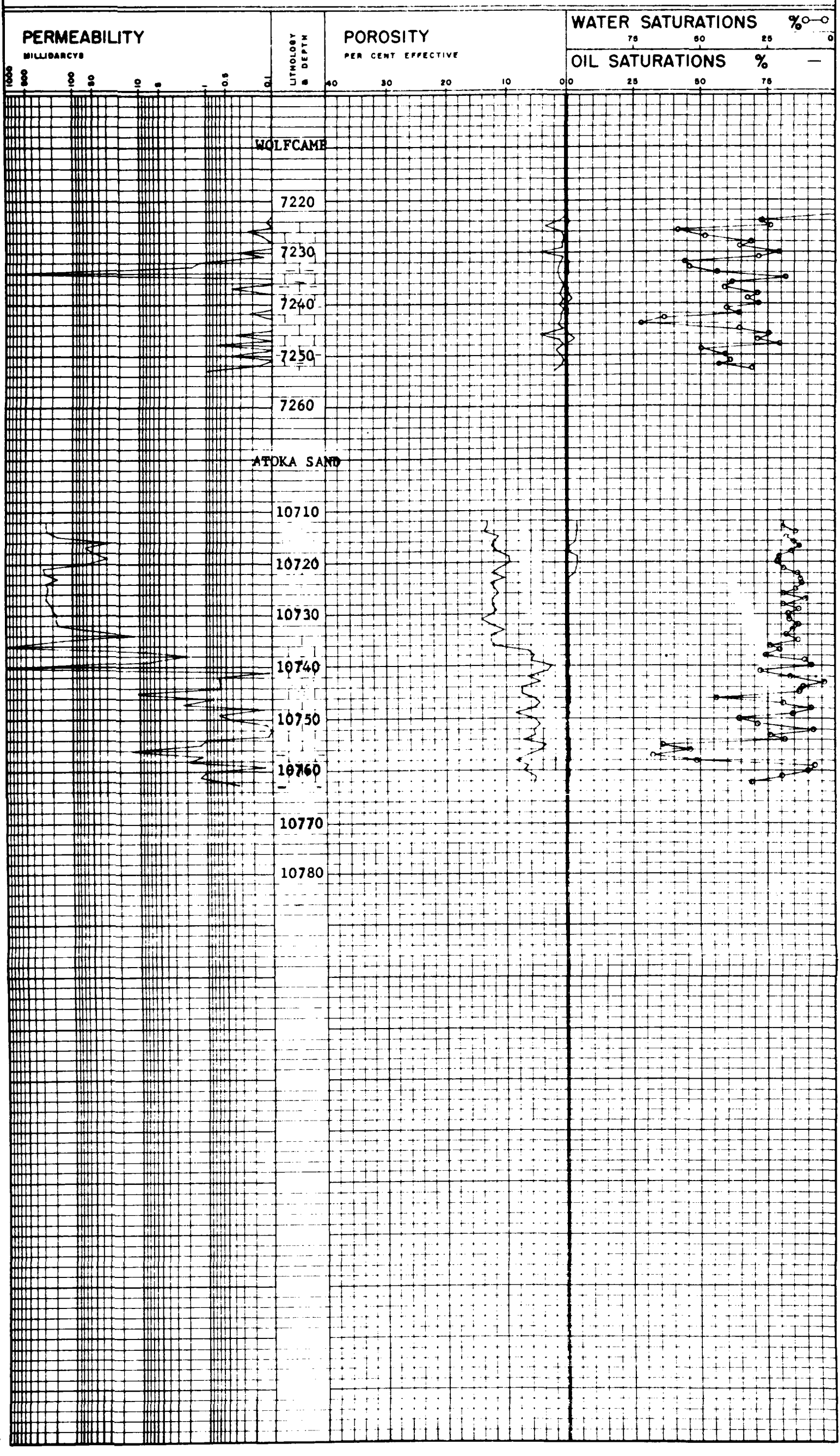
SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD.		EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE		DESCRIPTION
			HORIZONTAL	VERTICAL		RESIDUAL OIL	WATER	
			Core No. 2 10,712-10,722 (10 Ft.)					
			Recovered 10,712-10,722 (10 Ft.)					
31	10,712-13	1.0	250		13.2	3.8	19.7	SS Cg FQG
32	10,713-14	1.0	249		13.6	3.7	14.7	SS M-Cg FQG
33	10,714-15	1.0	175		11.2	3.6	17.9	SS M-Cg FQG
34	10,715-16	1.0	29		12.0	3.3	15.0	SS M-Cg
35	10,716-17	1.0	61		12.5	Trace	13.6	SS Mg
36	10,717-18	1.0	50		11.8	Trace	16.1	SS M-Cg FQG
37	10,718-19	1.0	30		9.3	4.3	20.4	SS Mg Sh ptg
38	10,719-20	1.0	69		9.2	4.3	21.7	SS M-Cg
39	10,720-21	1.0	289		11.0	3.6	19.1	SS M-Cg FQG
40	10,721-22	1.0	265		12.2	3.3	13.1	SS M-Cg FQG
			Core No. 3 10,722-10,734 (12 Ft.)					
			Recovered 10,722-10,734 (12 Ft.)					
41	10,722-23	1.0	178		10.4	Trace	12.5	SS F Cgr FQG
42	10,723-24	1.0	257		12.3	Trace	12.2	SS F-CGr FQG
43	10,724-25	1.0	238		12.1	Trace	14.9	SS F-Cgr FQG Sh ptgs
44	10,725-26	1.0	250		11.5	Trace	19.6	SS M-Cg FQG Sh Ptgs S
45	10,726-27	1.0	259		12.5	Trace	11.3	SS F-Cg FQG Sh Ptgs S
46	10,727-28	1.0	206		12.3	Trace	18.9	SS F-Cg Large FQG Sh ptgs
47	10,728-29	1.0	200		11.7	Trace	13.7	SS F-Cg FQG Sh Ptgs S
48	10,729-30	1.0	176		12.4	Trace	17.3	SS F-Mg FQG Sh Ptgs S

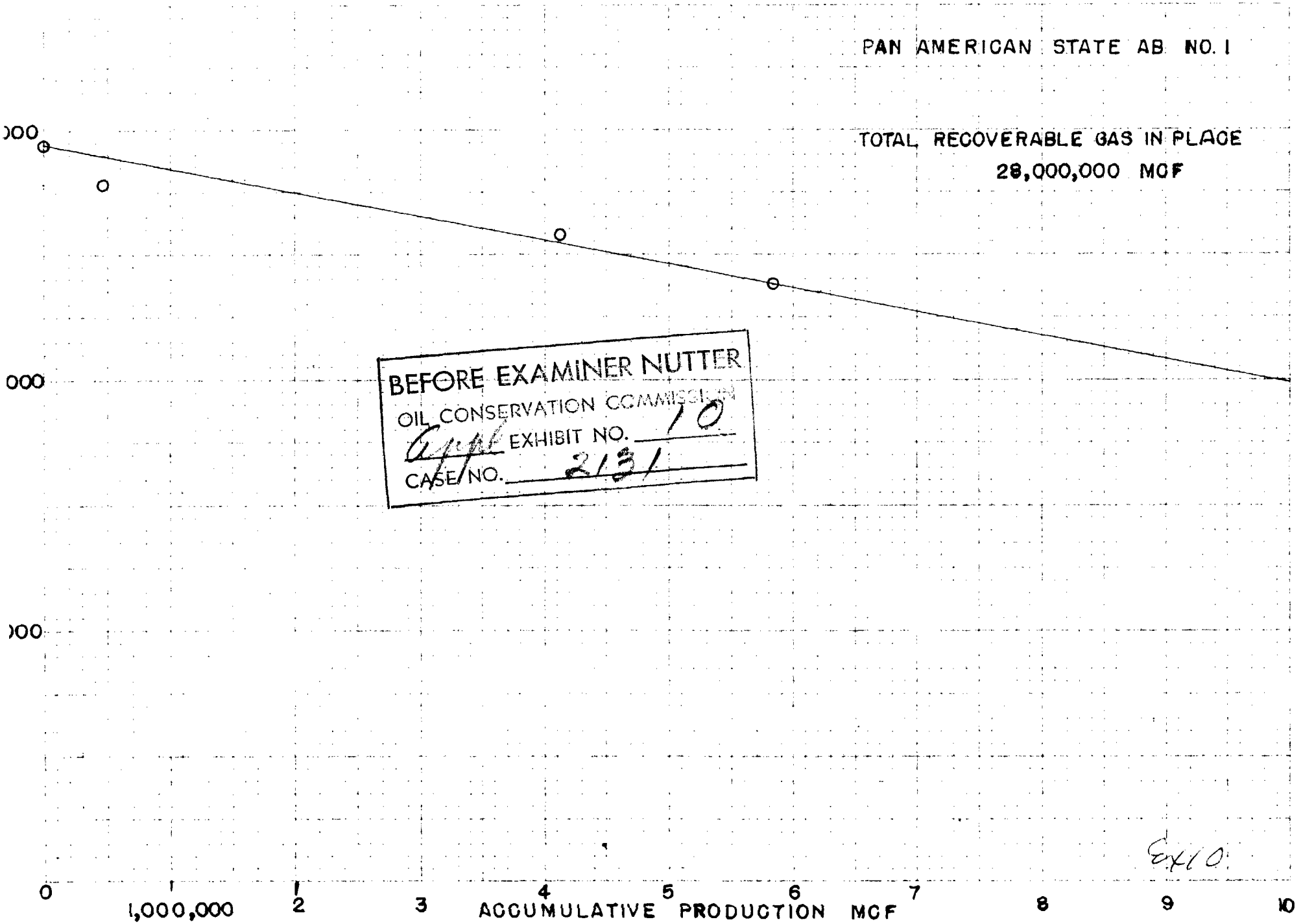
SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD. HORIZONTAL	PERMEABILITY, MD. VERTICAL	EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE RESIDUAL OIL	SATURATION % OF PORE SPACE WATER	DESCRIPTION
49	10,730-31	1.0	184		14.0	Trace	16.4	SS F-Mg FQG Sh ptgs S
50	10,731-32	1.0	170		12.5	Trace	13.6	SS F-Cg FQG Sh ptgs S
51	10,732-33	1.0	67		10.3	Trace	15.5	SS F-Cg FQG Sh ptgs S
52	10.733-34	1.0	13		12.3	Trace	17.3	SS F-Cg FQG Sh Ptgs VF
			Core No. 4		10,734-10,771	(37 Ft)		
			Recovered		10,734-10,771	(37 Ft)		
53	10,734-35	1.0	158		12.7	Trace	13.4	SS M-LG SL lmy
54	10,735-36	1.0	> 1000		12.1	Trace	24.0	SS M LG Sl lmy
55	10,736-37	1.0	8.7		6.4	Trace	20.3	SS M-LG Sl lmy lF
56	10,737-38	1.0	2.1		5.8	Trace	25.9	SS M-LG Sl lmy
57	10,738-39	1.0	7.0		6.0	Trace	11.7	SS M-LG Sl lmy
58	10,739-40	1.0	> 1000		2.3	Trace	8.7	SS M-LG Sl lmy VF
59	10,740-41	1.0	0.11		3.3	0	27.3	SS M-LG Sl lmy
60	10,741-42	1.0	0.64		6.5	Trace	16.9	SS M-LG Sl lmy VF
61	10,742-43	1.0	0.62		4.5	Trace	4.4	SS M-LG Sl lmy Sh ptgs VF
*62	10,743-44	1.0	0.62		7.8	Trace	11.5	SS M-LG Sl lmy VF
63	10,744-45	1.0	10.6		7.8	Trace	12.8	SS M-LG Sl lmy VF
64	10,745-46	1.0	0.83		5.4	Trace	38.9	SS M-LG Sl lmy Sh ptgs VF
65	10,746-47	1.0	2.3		4.7	Trace	19.1	SS M-LG Sl lmy Sh ptgs
66	10,747-48	1.0	0.14		5.7	0	8.8	SS M-LG Sl lmy Sh ptgs Styo
67	10,748-49	1.0	0.64		8.4	Trace	15.5	SS M-LG Sl lmy VF
68	10,749-50	1.0	0.42		5.7	0	35.1	SS M-LG Sl lmy Sh ptgs
69	10,750-51	1.0	0.13		4.5	0	28.9	SS M-LG Sl lmy Sh ptgs
70	10,751-52	1.0	0.02		5.4	0	7.4	SS M-LG Sl lmy VF
71	10,752-53	1.0	0.11		5.3	0	24.5	SS M-LG Sl lmy VF
72	10,753-54	1.0	1.0		7.0	Trace	18.6	SS M-LG Sl lmy MRF
73	10,754-55	1.0	1.4		3.9	Trace	64.1	SS M-LG Sl lmy Sh ptgs
74	10,755-56	1.0	13.4		4.3	Trace	53.5	SS F-MG Sl lmy Sh ptgs
75	10,756-57	1.0	1.3		6.8	Trace	67.6	SS F-MG Shy
76	10,757-58	1.0	1.9		8.1	Trace	51.9	SS M-LG Sl lmy Sh ptgs
77	10,758-59	1.0	0.14		6.7	0	7.5	SS M-LG Sl lmy Sh ptgs
78	10,759-60	1.0	1.0		7.0	Trace	10.0	SS M-LG Sl lmy Sh ptgs
79	10,760-61	1.0	1.4		5.5	Trace	20.0	SS M-LG Sl lmy Sh ptgs

Darrell W. Smith Co.

OPERATOR EL PASO NATURAL GAS COMPANY WELL NO 1 LEONARD STATE

FIELD WILDCAT COUNTY EDDY STATE NEW MEXICO




PAN AMERICAN STATE AB NO. 1
TOTAL RECOVERABLE GAS IN PLACE
28,000,000 MCF
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 10
CASE NO. 2131
Exh 10
000
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1,000,000
2
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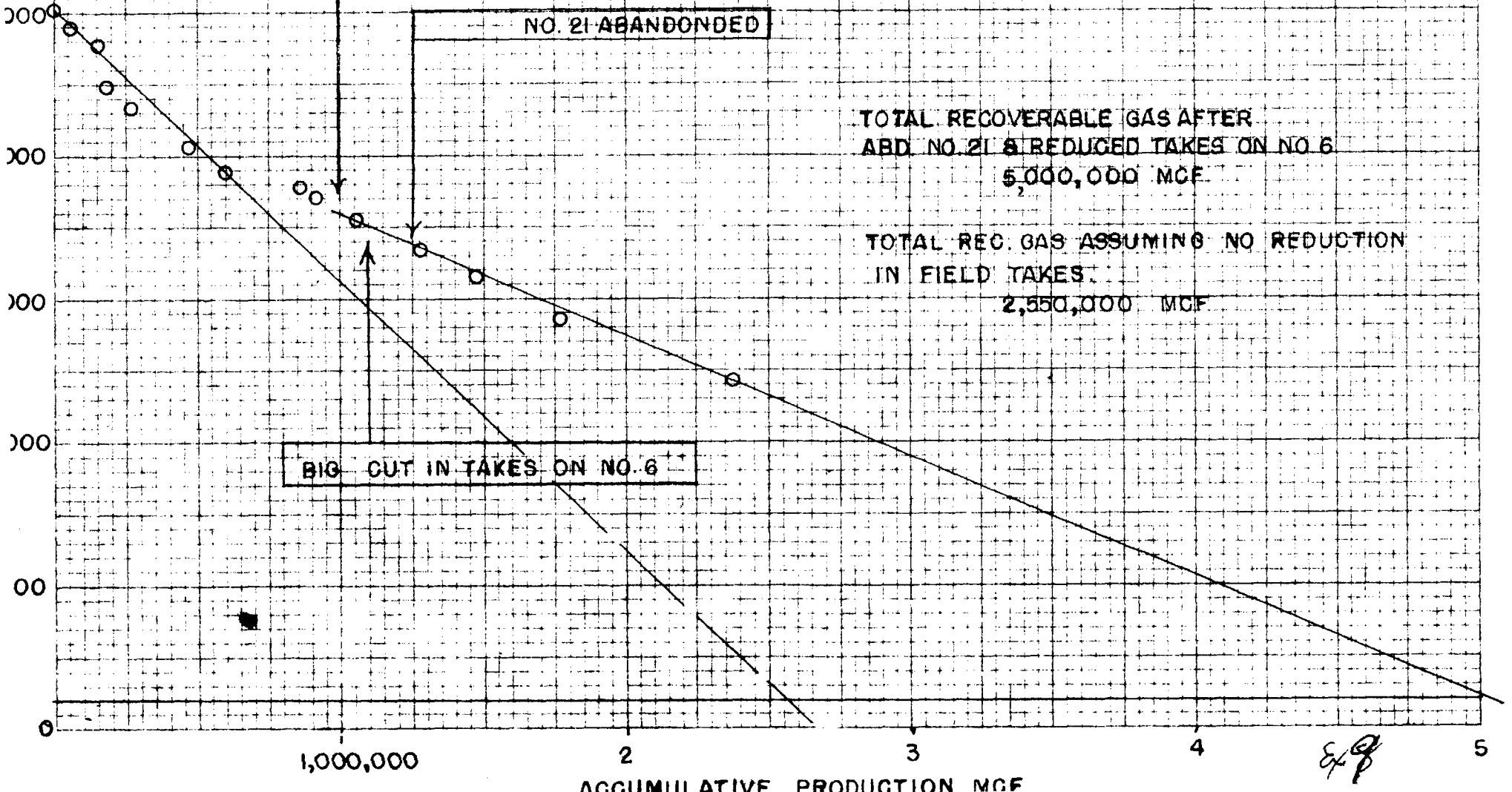
6
7
8
9
10
ACCUMULATIVE PRODUCTION MCF

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 9
CASE NO. 2137

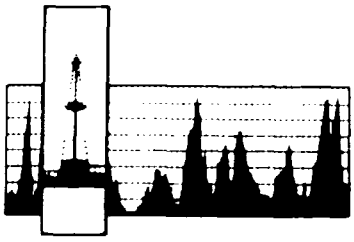
Free Pool
Penn — 33 miles away

SKELLY OIL CO. DOW A NO 3



E&P

2131



Darrell W. Smith Co.

Box 1105 • Midland, Texas

October 25, 1957

El Paso Natural Gas Company
Wilco Building
Midland, Texas

Re: Well No. 1 Leonard State
Eddy County, New Mexico

Gentlemen:

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The porosity was determined using a Boyle's law gas expansion porosimeter.

Yours very truly,

DARRELL W. SMITH COMPANY

for Lawrence W. Smith
Registered Professional Engineer

LWS:br

Darrell W. Smith Co.

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Operator El Paso Natural Gas Company Lab No. 937-A

Well No. 1 Leonard State

Formations Atoka Sand

Depths 10,712-10,771

Field Wildcat County Eddy State New Mexico

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Darrell W. Smith Co.

Box 1105 • Midland, Texas

FULL DIAMETER CORE STUDY

Operator El Paso Natural Gas Company **Field** Wildcat **Formation** Atoka Sand

Well No. 1 Leonard State **Location** 1980' FNL 660' FWL Sec 22-175-29E

Depths 10,712-10,771 **Date** October 25, 1957 **Lab No.** 937A

SAMPLE NO.	REPRESENTATIVE OF FEET	FOOTAGE	PERMEABILITY, MD. HORIZONTAL	PERMEABILITY, MD. VERTICAL	EFFECTIVE POROSITY %	SATURATION % OF PORE SPACE RESIDUAL OIL	SATURATION % OF PORE SPACE WATER	DESCRIPTION
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34	10,715-16	1.0	29		12.0	3.3	15.0	SS M-Cg
35	10,716-17	1.0	61		12.5	Trace	13.6	SS Mg
36	10,717-18	1.0	50		11.8	Trace	16.1	SS M-Cg FQG
37	10,718-19	1.0	30		9.3	4.3	20.4	SS Mg Sh ptg
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44	10,725-26	1.0	250		11.5	Trace	19.6	SS M-Cg FQG Sh Ptgs S
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46	10,727-28	1.0	206		12.3	Trace	18.9	SS F-Cg Large FQG Sh ptgs
47	10,728-29	1.0	200		11.7	Trace	13.7	SS F-Cg FQG Sh Ptgs S
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59	10,740-41	1.0	0.11		3.3	0	27.3	SS M-LG Sl lmy
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63	10,744-45	1.0	10.6		7.8	Trace	12.8	SS M-LG Sl lmy VF
64	10,745-46	1.0	0.83		5.4	Trace	38.9	SS M-LG Sl lmy Sh ptgs VF
65	10,746-47	1.0	2.3		4.7	Trace	19.1	SS M-LG Sl lmy Sh ptgs
66	10,747-48	1.0	0.14		5.7	0	8.8	SS M-LG Sl lmy Sh ptgs Stylo
67	10,748-49	1.0	0.64		8.4	Trace	15.5	SS M-LG Sl lmy VF
68	10,749-50	1.0	0.42		5.7	0	35.1	SS M-LG Sl lmy Sh ptgs
69	10,750-51	1.0	0.13		4.5	0	28.9	SS M-LG Sl lmy Sh ptgs
70	10,751-52	1.0	0.02		5.4	0	7.4	SS M-LG Sl lmy VF
71	10,752-53	1.0	0.11		5.3	0	24.5	SS M-LG Sl lmy VF
72	10,753-54	1.0	1.0		7.0	Trace	18.6	SS M-LG Sl lmy MRF
73	10,754-55	1.0	1.4		3.9	Trace	64.1	SS M-LG Sl lmy Sh ptgs
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76	10,757-58	1.0	1.9		8.1	Trace	51.9	SS M-LG Sl lmy Sh ptgs
77	10,758-59	1.0	0.14		6.7	0	7.5	SS M-LG Sl lmy Sh ptgs
78	10,759-60	1.0	1.0		7.0	Trace	10.0	SS M-LG Sl lmy Sh ptgs
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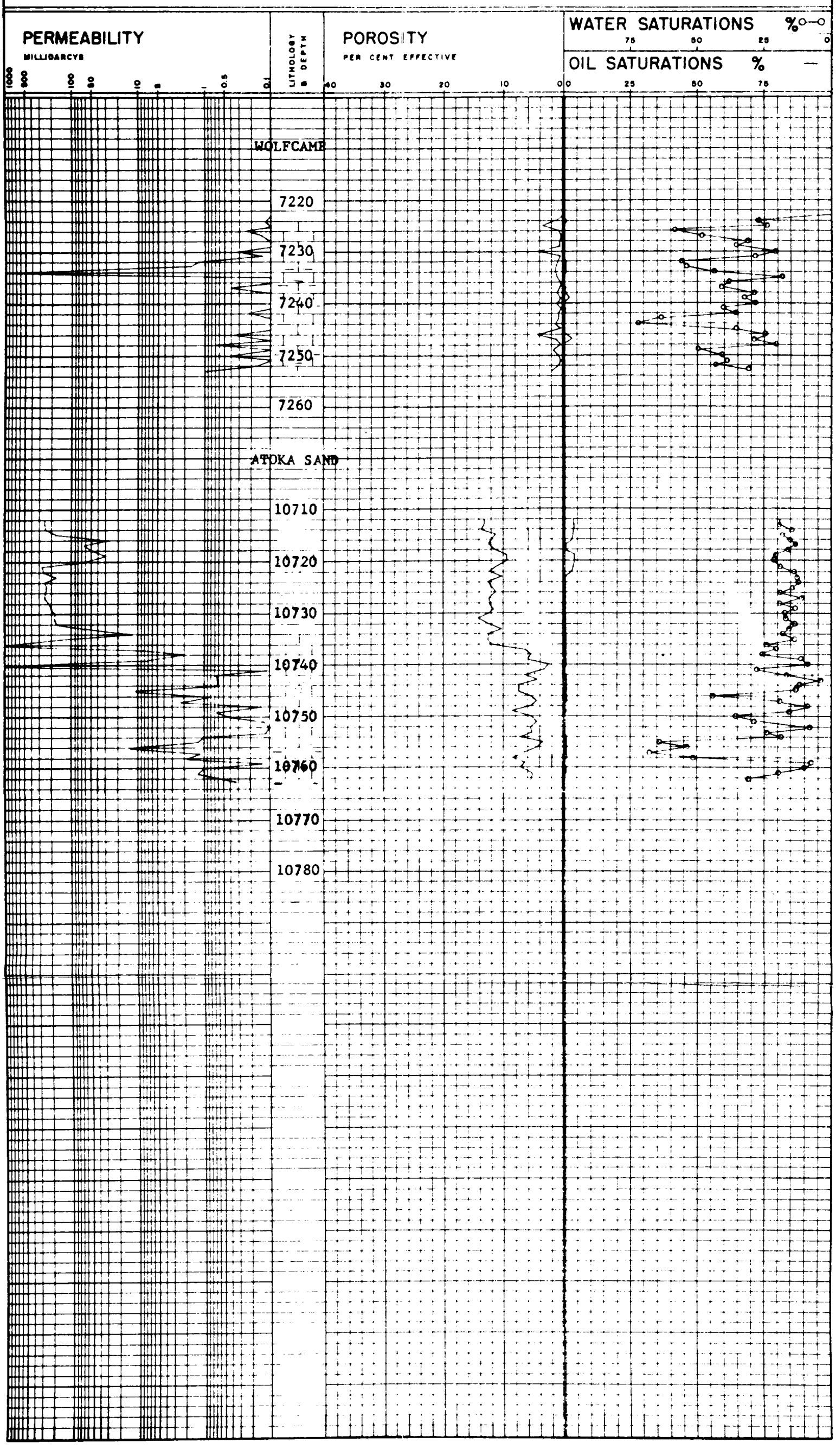
Darrell W. Smith Co.

OPERATOR EL PASO NATURAL GAS COMPANY WELL NO 1 LEONARD STATE

FIELD WILDCAT COUNTY EDDY STATE NEW MEXICO



Case No.

2131

Large Exhibits

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

ROBINSON BROTHERS OIL PRODUCERS

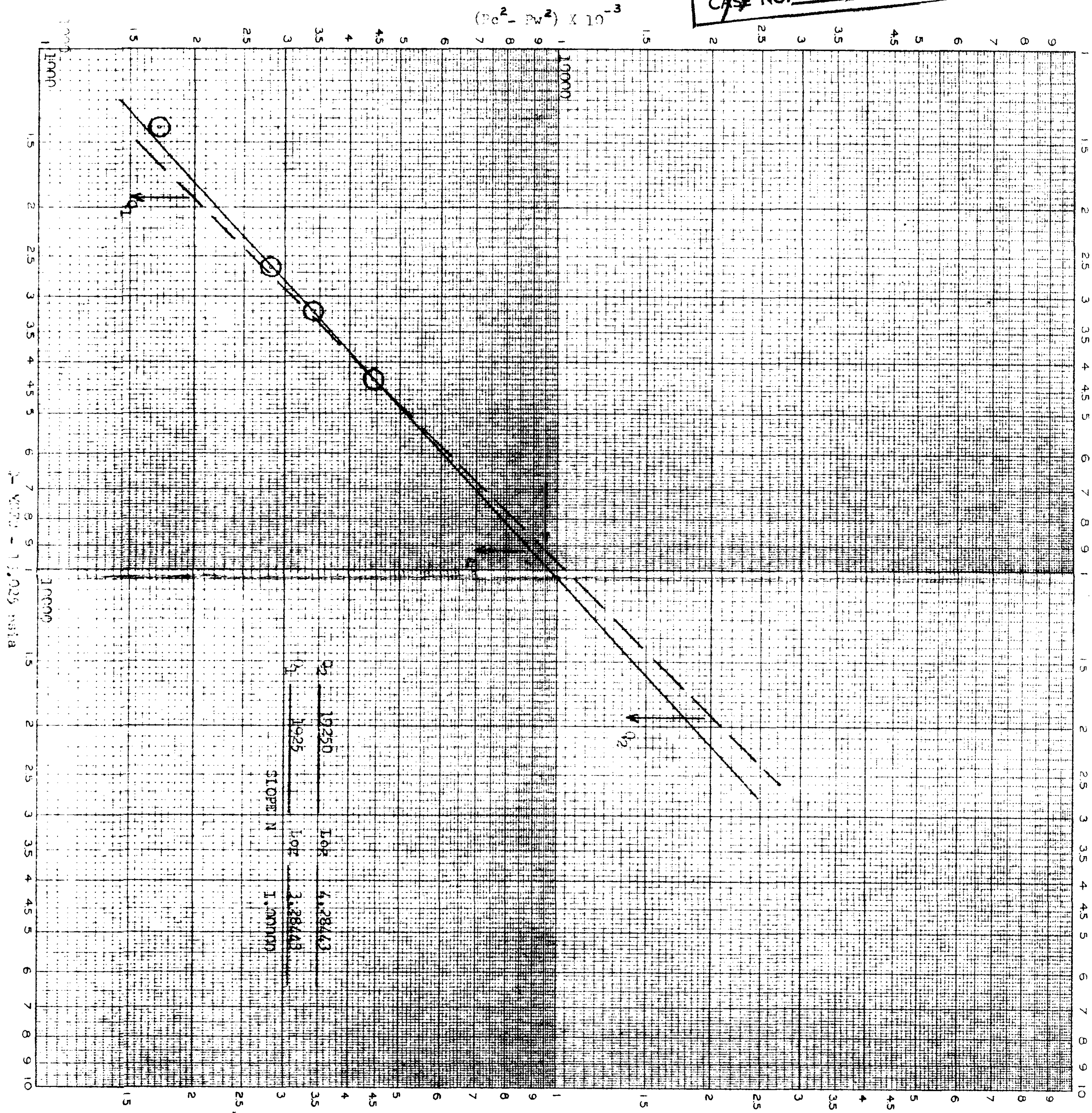
Well Manry-Elliot

Location #1

County Chaves

Date 4-4-60

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 3
CASE NO. 2131



LOGARITHMIC SCALE CROSS SECTION
NO 554 5 INCH BASE
THE FREDERICK POST CO
CHICAGO

FRONTIER JET-RON PERFORATORS, INC.

44

COMPANY	ROBINSON BROTHERS OIL COMPANY
WELL	MARY-ELLIOT NO. 1
FIELD	WILDCAT
COUNTY	CHAVES STATE NEW MEXICO
LOCATION	660'FNL & 1980'FWL
	SEC. 22 TWP. 11-S RGE. 31 E
OTHER SERVICES	PROD. PACKER TUBING PERF.

Permanent Datum	GROUND LEVEL	Elev.	K.B. 4493
Log Measured from	K.B. 13 ft. above Perm. Datum		D.F. 4492
Drilling Measured from	KELLY BUSHING		G.L. 4479
Date	8-3-60		
Run No.	ONE		
Type Log	GAMMA RAY NEUTRON		GAMMA RAY NEUTRON
Depth Driller	10,000		
Depth Logger	10,004		
Bottom Logged Interval	10,004		
Top Logged Interval	SURFACE		
Type Fluid in Hole	OIL		
Salinity PPM Cl.			
Density Lb. Gal.			
Level			
Max. Recorded Temp. Deg. F.			
Oper. Rig Time	5-1/2 HOURS PRIOR TIME SPENT LOGGING		
Recorded by	T. HILL		
Witnessed by	MR. ROBINSON & MR. BRADLEY		

BIT NO.	BORE HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
1	7-3/4		T.D.	5-1/2		SURF.	T.D.

Reproduced By
West Texas Electrical Log Service
Dallas 9, Texas

REFERENCE A9622A

ILLEGIBLE

13

COMPLETION RECORD

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO.
CASE NO.

SPUD DATE

COMP. DATE

DST RECORD

CASING RECORD

PERFORATING RECORD

ACID. FRAC SHOT

I P

GOR GR

T P C P

REMARKS:

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
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AND IS LOCATED
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EXHIBIT HAS
BEEN REMOVED
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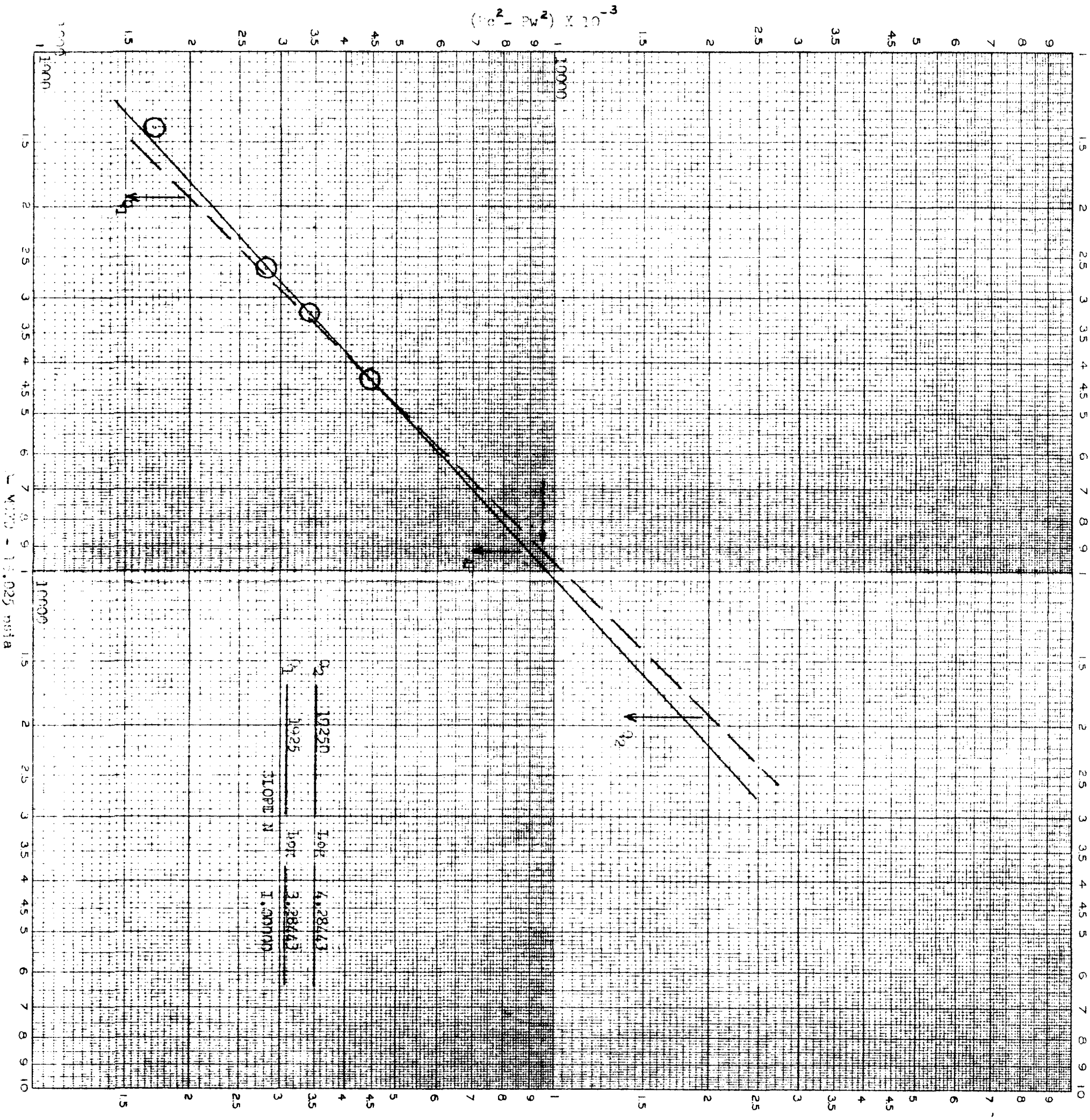
ROBINSON BROTHERS OIL PRODUCERS

Well Manry-Elliot

Location #1

County Chaves

Date 4-8-60



LOGARITHMIC SCALE CROSS SECTION
NO 554 5 INCH BASE
THE FREDERICK POST CO.
CHICAGO.

FRONTIER DOTRON PERFORATORS, INC.

E44

COMPANY ROBINSON BROTHERS OIL COMPANY

WELL BAIRY-ELLIOT NO.1

FIELD WILDCAT

COUNTY CHAVES STATE NEW MEXICO

LOCATION 660'FNL & 1980'FWL

SEC 22 TWP 11-S RGE. 31 E

OTHER SERVICES: PROD.PACKER TUBING PERF.

Permanent Datum GROUND LEVEL Elev.

Log Measured from K.B. 13 ft. above Perm. Datum

Drilling Measured from KELLY BUSHING

Elev. K.B. 4403
D.F. 4402
G.L. 4470
EST.

Date	5-3-60
Run No.	ONE
Type Log	GAMMA RAY NEUTRON IGNITION
Depth Driller	10958
Depth Logger	10954
Bottom Logged Interval	10954
Top Logged Interval	SURFACE
Type Fluid in Hole	OIL
Salinity PPM Cl	
Density Lb. Gal.	
Level	
Max. Recorded Temp. Deg. F	
Oper. Rig Time	5 1/2 HOURS PER TIME SPENT ATTENDING
Recorded by	J. KELLY
Witnessed by	MR. ROBINSON & MR. BRIDLEY

BIT NO.	BORE HOLE RECORD Bit	From	To	CASING RECORD Size	Wgt.	From	To
	7-3/4		T.D.	5-1/2		SURF.	T.D.

Reproduced By
West Texas Electrical Log Service
Dallas 9, Texas

REFERENCE A9622A

13 COMPLETION RECORD

ILLEGIBLE

SPUD DATE

COMP DATE

DST RECORD

CASING RECORD

PERFORATING RECORD

ACID. FRAC SHOT

I P

GOR GR

T P C P

REMARKS:

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE

FRONTIER ISOTRON
PERFORATORS, INC.

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 4
CASE NO. 2131

COMPANY ROBINSON BROTHERS OIL COMPANY

WELL MANRY-ELLIOT NO.1

FIELD WILDCAT

COUNTY CHAVES STATE NEW MEXICO

LOCATION 660'FNL & 1980'FWL

SEC. 22 TWP. 11-S RGE. 31 E

OTHER SERVICES:
PROD.PACKER
TUBING PERF.

Permanent Datum GROUND LEVEL, Elev

Log Measured from K.B., 13 ft. above Perm. Datum

Drilling Measured from KELLY BUSHING

Elev.: K.B. 4483
EST. D.F. 4482
G.L. 4470

Date	3-2-60		
Run No.	ONE		
Type Log	GAMMA RAY	NEUTRON(	ISOTRON
Depth Driller	10963		
Depth Logger	10965		
Bottom Logged Interval	10964		
Top Logged Interval	SURFACE		
Type Fluid in Hole	OIL		
Salinity PPM CL			
Density Lb./Gal.			
Level			
Max. Recorded Temp. Deg. F.			
Opr. Rig Time	5-1/2 HOURS PLUS TIME SPENT SPUDDING		
Recorded by	J.SELF		
Witnessed by	MR.ROBINSON & MR.SHIRLEY		

RUN NO.	BORE HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
	7-3/4		T.D.	5-1/2		SURF.	T.D.

LARGE FORMAT
EXHIBIT HAS
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