

For Permian - 12,001.00

Midcontinent

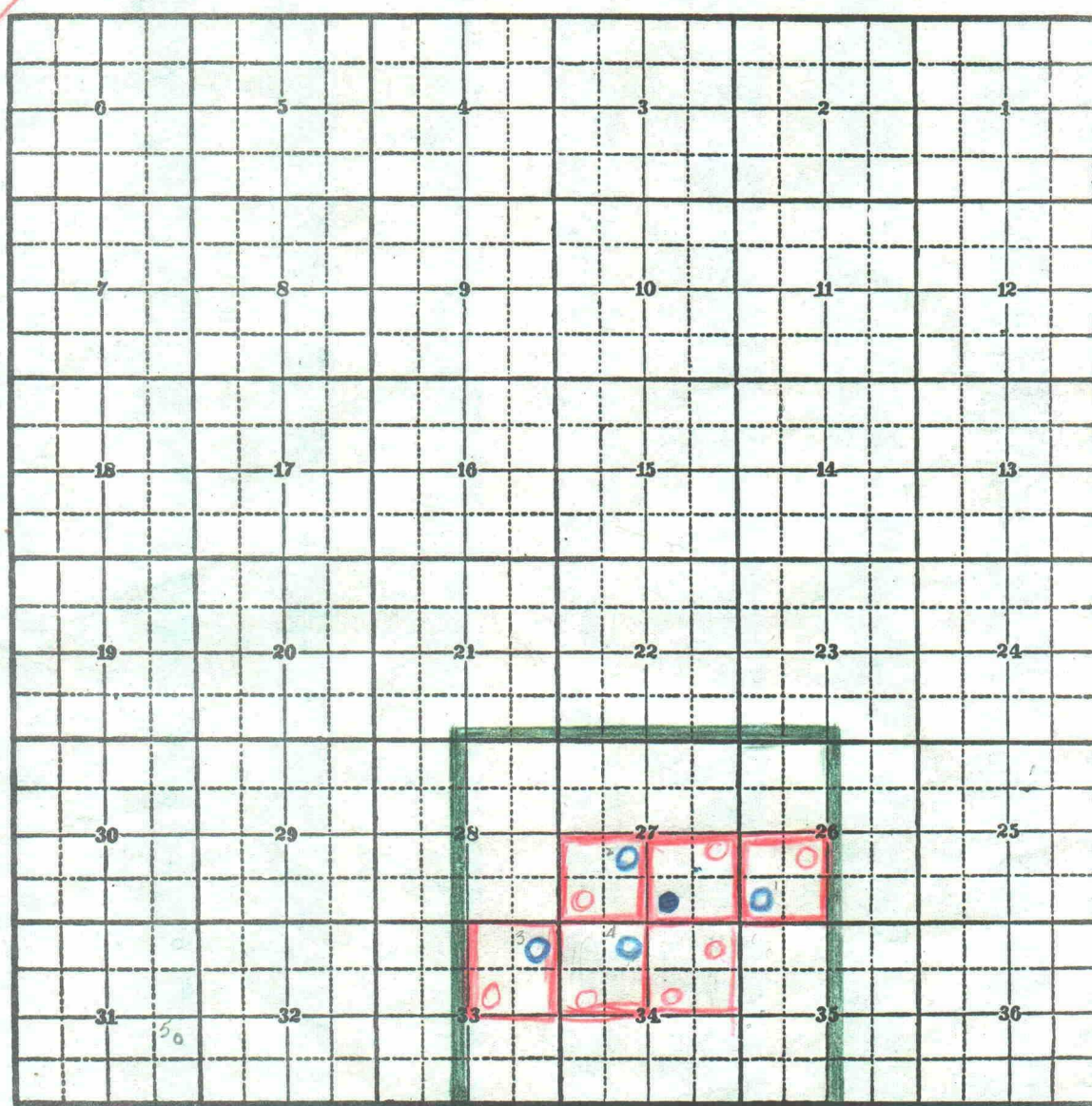
149

120
40

Proven Unit 80A
2 wells well spacing
15' surface tolerance

Township No. 9S of Range No. 36E

New Mexico Principal Meridian.



- = 2D. Sawyer 201. (PRODUCER)
- = LOCATIONS NOW BEING DRILLED.
- ⊗ = FUTURE LOCATIONS UNDER 80A SPACING PROPOSAL
- = Boundary of Cross roads pool 6-29-48

- 1 Mag, SF C#1
- 2 Mid Cont, Sawyer #1
- 3 SKelly, Sawyer #1
- 4 Mid Cont, Sawyer B-1
- 5 Mag, Yates #1

MID-CONTINENT PETROLEUM CORPORATION
 DESSIE SAWYER NO. 1 WELL
 CROSSROADS FIELD
 LEA COUNTY, NEW MEXICO

PAGE 1 OF 1
 FILE: ML 74 S

SPECIAL CORE ANALYSIS

Sample Number	Depth: Feet	Porosity:		Percent Secondary	Oil Content Percent Pore	Water Content Percent Pore	Permeability	
		Total	Matrix				Total Max.	90°
1	11,910.0-11.0	1.66	1.29	0.37	2.4	88.2	30	12
2	11.0-12.0	1.72	1.04	0.68	9.3	88.3	0.44	0.22
3	12.0-13.0	4.07	1.28	2.79	8.1	37.8	4.81	2.68
4	13.0-14.1	3.09	1.07	2.02	14.2	40.4	0.62	0.52
5	14.1-15.0	1.53	0.10	1.43	5.8	68.7	80	72
6	15.0-15.8	0.87	0.35	0.52	0.0	71.2	12	7.24
7	15.8-16.8	1.02	0.72	0.32	7.8	62.7	2500	0.17
8	16.8-17.8	1.24	0.30	0.94	32.3	67.7	4620	0.03
9	17.8-18.7	1.45	0.55	0.90	2.8	80.1	(*)	
10	18.7-19.8	0.91	0.36	0.55	14.5	85.5	9.67	
11	19.8-21.4	1.09	0.31	0.78	14.7	70.5	(*)	
12	21.4-23.3	1.26	0.16	1.10	10.3	59.6	0.98	0.74
13	23.3-24.8	0.80	0.41	0.39	0.0	100.0	0.82	0.75
14	24.8-26.3	0.73	0.15	0.58	0.0	100.0	19	2.96
15	26.3-28.0	1.11	0.23	0.88	0.0	56.8	0.09	
16	35.0-36.0	0.82	0.28	0.54	0.0	87.8	0.32	0.21
17	37.0-38.0	0.86	0.13	0.73	9.3	69.7	0.15	0.13

(*) Too broken up to run test on.

EARLOUGHER ENGINEERING

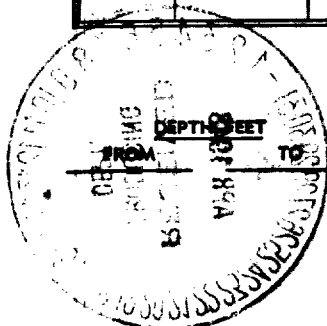
RESULTS OF SATURATION TESTS

COMPANY Mid-Continent Petroleum Corporation

WELL No 1 U.D. Sawyer Well No. "A"

Sat. No.	Depth Feet	Porosity Per Cent	PER CENT SAT.			Avg. Oil Content Bbls./A. Ft.	11/19/1944 11/19/1944		Total Oil 11/19/1944
			Oil	Water	Total		Perm. No.	Acid Solubility Percent	
	12,181	4.6	8.7	23.	32.	31.		0.6	91.
	12,198	1.0	26.	74.	100.	20.		0.1	89.
	12,214	0.7	37.	63.	100.	20.		1.0	88.
					</				

SUMMARY



FEET
OF SAND

AVG.
POROSITY

AVG. OIL
SAT.

AVG. WATER
SAT.

AVG. OIL CONTENT
BBL./A. FT.

TOTAL OIL CONTENT
BBL./ACRE

OIL DEVELOPMENT CO.
OF TEXAS

Drig. Started Feb. '49
Abandoned Dec. '49

1-27

2-27
Drig. Started June '50
Completed Oct. '50

SANTA FE PACIFIC

MID-CONTINENT PET. CORP.

1
Drig. Started June '48
Completed Feb. '49

U. D. SAWYER "E"

Drig. Started Feb. '49
Completed Aug. '49

1

1-B
Drig. Started Apr. '51
Comp. Sept. '51

U. D. SAWYER "D"
MID-CONTINENT PET. CORP.

1
Drig. Started June '50
Comp. Feb. '51

U. D. SAWYER "C"

MID-CONTINENT PET. CORP.

Drig. Started Sept. '47
Completed May '48

1

Drig. Started May '48
Completed Jan. '49

1

DESSIE SAWYER

Drig. Started May '48
Abandoned Feb. '50

1

Drilled by
Skelly Oil Co.

Drig. Started June '48
Completed March '49

1

Drilled by
Mid-Continent Pet. Corp.

Exhibit A-1

U. D. SAWYER

J. E. WARREN

U. D. SAWYER "B"

MAGNOLIA

GULF

MAGNOLIA

35

GULF

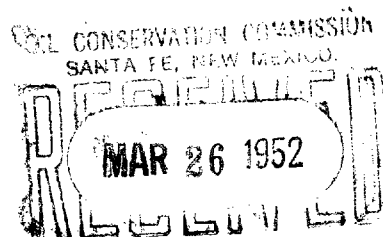
BEFORE THE OIL CONSERVATION COMMISSION
OF THE
STATE OF NEW MEXICO

IN ALL MATTERS OF THE HEARING CALLED BY
THE OIL CONSERVATION COMMISSION OF THE
STATE OF NEW MEXICO FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 149

FILE NO. 779

THE APPLICATION OF MID-CONTINENT PETROLEUM
CORPORATION, INC., OKLAHOMA, FOR AN ORDER
OF THE COMMISSION TO ESTABLISH LIGHTY-ACRE
FRACTION OF 15; AND TO ESTABLISH A PER-
CENTAGE FRACTION FOR THE SPACE AND DRILLING
WELLS; AN ALLOWANCE FOR TOLUENE FOR SUR-
FACE PRODUCTIONS AND FOR AN ORDER FIXING
AND ESTABLISHING ALLOWANCES FOR WELLS
DRILLING IN THE CROSSROADS POOL TO A DEPTH
LESS THAN 12,000 FEET, IN LEA COUNTY, NEW MEXICO.
(DEVONIAN PRODUCTION.)



ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 10:00 o'clock a.m., July 15, 1948, at Santa Fe, New Mexico, before the Oil Conservation Commission of the State of New Mexico, hereinafter referred to as the "Commission."

NOW, on this the 27th day of July, 1948, the Commission having before it for consideration the testimony adduced at the hearing of said case and being fully advised in the premises:

IT IS:

1. That on May 6, 1948, the applicant, Mid-Continent Petroleum Corporation, completed an initial and exploratory test well located in the approximate center of the SW 1/4 of the SE 1/4 of section 27, Township 9 South, Range 36 East, Lea County, New Mexico (Crossroads Pool), at a total depth of 12,258 feet; said well having been perforated from a depth of 12,115 feet to a depth of 12,215 feet, with an initial production of 995 barrels of oil, and no water, through a 3/4-inch choke, for a period of six (6) hours, twenty (20) minutes.

2. That the probable area has been delineated and recommended by the Nomenclature Committee for Devonian production as discovered by the above described well as follows:

West half of section 26,
All of section 27,
East half of section 28,
East half of section 33,
All of section 34,
West half of section 35,
All in Township 9 South,
Range 36 East,
Lea County, New Mexico.

That the discovery producing well in center of SW 1/4, SE 1/4, section 27, and the drilling wells in center of NE 1/4, NW 1/4, section 33, and center of SE 1/4, NW 1/4, of section 34, center of NE 1/4, SW 1/4, section 27, and center of SW 1/4, SE 1/4, section 28, all are within the probable area as above described;

"EXHIBIT A"

ILLEGIBLE

That it is the intention of this order to cover all wells now or hereafter drilling to and producing from the common source of supply from which the discovery well as above described has been drilled to and is now producing from, whether within the probable area as above delineated or any extension thereto, so as to insure a proper and uniform spacing, developing, and producing plan for all wells in this common source of supply.

3. That due to conditions established by the aforesaid discovery well, the Commission finds it advisable to amend and supplement its present rules, regulations and orders to properly cover the question of development of leases and spacing of wells now or hereafter drilling to, into and producing from the Devonian formation, encountered at a depth below 12,000 feet in the Crossroads Pool.

4. That the present rules, regulations, and orders of the Commission are adequate and sufficient to properly cover the drilling, equipping, and operating of wells to the new common source as found in said above described well and, therefore, the general Statewide Rules and Lea County Rules should remain in full force and effect except as hereinafter modified, amended or superseded.

5. That the Devonian formation, as found in the discovery well below 12,000 feet, is a common source of supply which should be drilled and developed on a program other than that normally followed under the present rules, regulations, and orders of the Commission, particularly Order No. 637, effective March 1, 1940, with respect to units of proration, spacing and assignment of allowables, because of the depth of such wells, the time necessary to drill, and the high costs attached thereto, in addition to the hazards and scarcity of materials.

6. That in the interest of the State of New Mexico and in the interest of the general public, encouragement should be given to operators to explore and develop the natural resources of the State by the establishment of a proper and equitable spacing and development program.

IT IS HEREBY ORDERED:

SECTION 1. That the Mid-Continent, Leager No. 1 well, located in the center of the 34, 35 section 27, is producing from the Devonian formation, a new common source of supply not heretofore discovered and produced in the State, and that the probable area for such production is as follows:

West half of section 26,
All of section 27,
East half of section 28,
East half of section 33,
All of section 34,
West half of section 35,
All in Township 9 South,
Range 36 East,
Lea County, New Mexico.

That this order is meant to cover all of the Devonian formation common source of supply productive in the Mid-Continent, Leager No. 1, located in the center of the 34, 35 section 27, and any well drilled within, or outside the area spaced herein, to the same common source of supply as an extension thereof, shall be drilled on the pattern provided for herein.

SECTION 2. That 40-acre spacing and drilling units be established as hereinafter provided for the production of oil and gas from the Devonian formation underlying the area as hereinabove set forth.

ILLEGIBLE

Article 1. That each acre and quarter section be divided into two rectangular equal units, and the northeast quarter section, all as shown on the attached map, and the southwest quarter section, all as shown on the attached map, and the northeast quarter and one-half section of the southwest quarter section, all as shown on the attached map; however, in surface conditions, locations may be varied within a radius of 150 feet from the centers thereof, provided further, however, that the units within a quarter section, as established by this order and shown on the attached map, may be changed by agreement of the operators within said quarter section upon proper showing to the Commission.

Article 2. That the allowable be assigned on the basis of operation units as herein established, and any operation unit or less than the normal one-half of a government quarter section as the result of an excavation granted by the Commission after notice and hearing, shall be assigned an allowable in proportion to the assignable acreage of the unit as to be normal one-half of a government quarter section.

Article 3. That the allowable will allow for a normal unit or one-half of a quarter section assigned to the discoverer well and all other wells hereafter drilled or proposed in accordance with the terms of this order shall be the proportional share of 6.75 times the allowable until such time as the Commission makes such further and additional orders as may be deemed necessary.

Article 4. That all other regulations hereof issued by this Commission shall apply until such time as the Commission, only with respect to covering operation protection, shall be 200 feet in the crossroads well.

7. That this order shall become effective on August 1, 1911.

8. That the Commission shall have jurisdiction in this case for the purpose of determining the number of wells and operations, to necessary to meet the needs of the public, and to determine the number of wells and operations; all upon the basis of the Commission's order, and to determine any interested operators who are willing to comply with the provisions of law.

at Oklahoma, Oklahoma, this 1st day of July, 1911.

Wm. H. Hays
Commissioner

R. H. Spencer
Secretary



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CROSSROADS DEVONIAN FIELD

MID CONTINENT PETROLEUM CORP.
NACHTSHEIM PETROLEUM COMPANY
OIL DEVELOPMENT COMPANY OF TEXAS

10-7-51

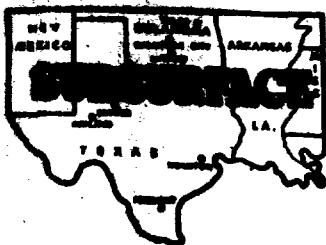
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production engineering services

TULSA, OKLAHOMA
SNYDER, TEXAS

OKLAHOMA CITY, OKLAHOMA
MIDLAND, TEXAS
HOUSTON, TEXAS

LINDSAY, OKLAHOMA
PREMONT, TEXAS



CROSSROADS ENGINEERING COMPANY

701 S. 33rd WEST AVE.

TULSA

production engineering services

TELEPHONE 54-5819

FIELD WIDE SURVEY CROSSROADS DEVONIAN FIELD 10-7-51

WELL & NO.	B. H. P. at -8141'				LOSS		SHUT IN HOURS	WATER LEVEL IN TUBING	PAGE NO.
	PREVIOUS DATE	PSI GAGE	CURRENT DATE	PSI GAGE	LBS.	#DAY			
<u>MID-CONTINENT PETROLEUM CORPORATION</u>									
Dessie Sawyer #1	2-3-51	4853#	10-7-51	4822#	31	.126	31:15	92'08"	1
U.D.Sawyer "C" #1	3-6-51	4860	"	4847	13	.053	33:20	None	2
U.D.Sawyer "D" #1	2-2-51	4872	"	4849	23	.093	34:50	"	3
<u>MAGNOLIA PETROLEUM COMPANY</u>									
Santa Fe-Pacific "B" #1			10-7-51	4853				None	4
<u>OIL DEVELOPEMENT COMPANY OF TEXAS</u>									
Santa Fe-Pacific Railroad Fee 27 #2									
	11-4-50	4854	10-7-51	4859	4#	Gain	37	None	5

OKLAHOMA CITY
512 Leonhardt Bldg.
Phone 58-4915

SUBSURFACE ENGINEERING COMPANY

production engineering services

Post Office Box 1827 TULSA Phone 54-5819

PREMONT, TEXAS Phone 3101

MIDLAND, TEXAS Phone 3999

SNYDER, TEXAS Phone 1457

HOUSTON
1307 Bell
Phone R-3429

Field Crossroads Devonian Invoice No. T 10-143
Company Mid-Continent Petroleum Corporation
Lease Dessie Sawyer Well No. 1
Date 10-7-51 Time 14:30 Status of Well Static
Pay Devonian Top 11715' Bottom T.D. 12231' Datum -8141'
Tubing 2 1/2" EUE Depth 12177' B.H.C. NO Plug or Pin Plug Packer NO
Casing 5 1/2" OD Depth 12218' Perforations 11840' Liner NO Tree Top 2 1/2" EUE

Depth Feet	Pressure lbs. sq. in.	Pressure Δ	Gradient lbs./ft.	
28	418			Casing Press. 673# DWT
2008	1096	678	.342	Tubing Press. 412# DWT
4008	1782	686	.343	Oil Level at top
6008	2459	677	.339	Water Level 9208'
8008	3132	673	.337	Hours—Shut In 31:15 Flowing
10008	3890	758	.379	Temp. @ 12150' -196° & 196°F.
11750	4660	770	.442	Elevation—D.F. 4039' Ground
11950	4754	94	.470	Last Test Date 2-3-51 Static 30h46m
12150	4847	93	.465	Press. Last Test 4853#
-310	-144			B.H.P. Change 31#
11840	4703	Perf.	.465	Loss/Day .126#
340	119			Choke Size
12180	4822	Datum	.345	Oil Bbls./day
-8141	4822	"	.345	Water Bbls./day
				Total Bbls./day
				Orifice and Line
				Static and Differential
				Gas Sp. Gr. TI
				Cu. ft./day
				GOR
				GFR

PRODUCTIVITY INDEX—BBLs./DAY/LBS. DROP

Last Cumulative Production	Present Cumulative Production	Production Between Tests
Instrument <u>Amerada</u>	Number <u>7499</u>	Recovery Factor
Run By <u>Rex Shearer</u>	Calibration No. <u>M 63</u>	Bbls./pound Loss
		Calculated By <u>FP</u>

Calculations and Remarks: Assumed reservoir gradient .345

OKLAHOMA CITY
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Phone 58-4915

SUBSURFACE ENGINEERING COMPANY

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MIDLAND, TEXAS Phone 3599

SNYDER, TEXAS Phone 1457

HOUSTON
1307 Bell
Phone P-2429

Field Crossroads Devonian Invoice No. T 10-143

Company Mid-Continent Petroleum Corporation

Lease U. D. Sawyer "C" Well No. 1

Date 10-7-51 Time 16:20 Status of Well Static

Pay Devonian Top 12000' Bottom 12092' T.D. 12102' Datum -8141'

Tubing 2½" EUE Depth 12100' B.H.C. 12100' Plug or Pin _____ Packer _____

Casing 5½" OD Depth 12097' Perforations 12040-92' Liner _____ Tree Top 2½" OCT

Depth Feet	Pressure lbs. sq. in.	Pressure Δ	Gradient lbs./ft.	
26	717			Casing Press. <u>697# DWT</u>
2006	1396	679	.343	Tubing Press. <u>718# DWT</u>
4006	2076	680	.340	Oil Level <u>at top</u>
6006	2757	681	.341	Water Level <u>none</u>
8006	3436	679	.340	Hours—Shut In <u>33:20</u> Flowing
10006	4106	670	.335	Temp. @ <u>12086'-193° & 193°F.</u>
11686	4671	565	.336	Elevation—D.F. <u>4034'</u> Ground
11886	4743	72	.360	Last Test Date <u>3-6-51</u>
12086	4816	73	.365	Press. Last Test <u>4860# static 145 hrs</u>
6	2			B.H.P. Change <u>13#</u>
12092	4818	Bottom of perf.	.365	Loss/Day <u>.053#</u>
83	29			Choke Size _____
12175	4847	Datum	.345	Oil Bbls./day _____
-8141	4847	"	.345	Water Bbls./day _____
				Total Bbls./day _____
				Orifice and Line _____
				Static and Differential _____
				Gas Sp. Gr. <u>Tf</u>
				Cu. ft./day _____
				GOR _____
				GFR _____

PRODUCTIVITY INDEX—BBLs./DAY/LBS. DROP

Last Cumulative Production	Present Cumulative Production	Production Between Tests
Instrument <u>Amerada</u>	Number <u>7499</u>	Recovery Factor Bbls./pound Loss
Run By <u>Rex Shearer</u>	Calibration No. <u>M 63</u>	Calculated By <u>FP</u>

Calculations and Remarks: Assumed reservoir gradient .345

OKLAHOMA CITY
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MIDLAND, TEXAS Phone 3599

SNYDER, TEXAS Phone 1457

HOUSTON
1307 Bell
Phone P-2429

Field Crossroads Devonian Invoice No. T 10-143
Company Mid-Continent Petroleum Corporation
Lease U. D. Sawyer "D" Well No. 1
Date 10-7-51 Time 17:55 Status of Well Static
Pay Devonian Top 11950' Bottom 12150' T.D. 12150' Datum -8141'
Tubing 2 1/2" Depth 12112' B.H.C. None Plug or Pin Plug Packer No
EUE
Casing 5 1/2" OD Depth 12147' Perforations 12000-50' Liner No Tree Top 2 1/2" OCT

Depth Feet	Pressure lbs. sq. in.	Pressure Δ	Gradient lbs./ft.	
				Casing Press. 720 1 # DWT
				Tubing Press. 717 1 # DWT
				Oil Level at top
				Water Level none
				Hours—Shut In 34:50 Flowing
				Temp. @ 12092'-194° & 194°F.
				Elevation—D.F. 4040' Ground
				Last Test Date 2-2-51 static 32h 20
				Press. Last Test 4872#
				B.H.P. Change 23#
				Loss/Day .093#
				Choke Size
				Oil Bbls./day
				Water Bbls./day
				Total Bbls./day
				Orifice and Line
				Static and Differential
				Gas Sp. Gr. Tf
				Cu. ft./day
				GOR
				GFR
27	723			
2007	1398	675	.341	
4007	2084	686	.343	
6007	2760	682	.338	
8007	3442	682	.341	
10007	4109	667	.334	
11692	4679	570	.338	
11892	4749	70	.350	
12092	4819	70	.350	
-42	-15			
12050	4804	Bottom of perf.	.350	
131	45			
12181	4849	Datum	.345	
-8141	4849	"	.345	

PRODUCTIVITY INDEX—BBLs./DAY/LBS. DROP

Last Cumulative Production	Present Cumulative Production	Production Between Tests
Instrument	Number	Recovery Factor Bbls./pound Loss
Amerada	7499	
Run By	Calibration No.	Calculated By
Rex Shearer	M 63	FP

Calculations and Remarks: Assumed reservoir gradient .345

OKLAHOMA CITY
512 Leonhardt Bldg.
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SUBSURFACE ENGINEERING COMPANY

production engineering services

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PREMONT, TEXAS Phone 3101

MIDLAND, TEXAS Phone 3999

SNYDER, TEXAS Phone 1457

HOUSTON
1307 Bell
Phone P-2429

Field Crossroads Devonian Invoice No. T 10-142
Company Magnolia Petroleum Company
Lease Santa Fe - Pacific "B" Well No. 1
Date 10-7-51 Time 12:41 Status of Well Static
Pay Devonian Top 12130' Bottom 12137' T.D. 12137' Datum -8141'
Tubing 2" EUE Depth 12125'? B.H.C. Plug or Pin B.P. Packer
Casing 7" OD Depth 12130' Perforations Open Liner Tree Top 2" 11 1/2 Reg.

Depth Feet	Pressure lbs. sq. in.	Pressure Δ	Gradient lbs./ft.	
				Casing Press. <u>683# DWT</u>
				Tubing Press. <u>714# DWT</u>
				Oil Level <u>at top</u>
				Water Level <u>none</u>
				Hours—Shut In <u></u> Flowing <u></u>
				Temp. @ <u>12076'-193° & 193° F.</u>
				Elevation—D.F. <u>4035'</u> Ground <u></u>
				Last Test Date <u></u>
				Press. Last Test <u></u>
				B.H.P. Change <u></u>
				Loss/Day <u></u>
				Choke Size <u></u>
				Oil Bbls./day <u></u>
				Water Bbls./day <u></u>
				Total Bbls./day <u></u>
				Orifice and Line <u></u>
				Static and Differential <u></u>
				Gas Sp. Gr. <u></u> Tf <u></u>
				Cu. ft./day <u></u>
				GOR <u></u>
				GFR <u></u>
26	712			
2006	1393	681	.344	
4006	2090	697	.349	
6006	2758	668	.334	
8006	3431	673	.337	
10006	4104	673	.337	
11676	4668	564	.338	
11876	4742	74	.370	
11976	4779	37	.370	
12076	4816	37	.370*	
61	23			
12137	4839	Bottom of pay	.370	
39	13			
12176	4852	Datum	.345	
-8141	4852	"	.345	

PRODUCTIVITY INDEX—BBLs./DAY/LBS. DROP

Last Cumulative Production	Present Cumulative Production	Production Between Tests
Instrument <u>Amerada</u>	Number <u>7499</u>	Recovery Factor Bbls./pound Loss <u></u>
Run By <u>Rex Shearer</u>	Calibration No. <u>M 63</u>	Calculated By <u>FP</u>

Calculations and Remarks: *Considered sediment and not water. Assumed reservoir gradient .345

OKLAHOMA CITY
512 Leachman Bldg.
Phone 38-4915

SUBSURFACE ENGINEERING COMPANY

production engineering services

Post Office Box 1827 TULSA Phone 54-5819

PREMONT, TEXAS Phone 3101

MIDLAND, TEXAS Phone 3599

SNYDER, TEXAS Phone 1457

HOUSTON
1307 Bell
Phone P-2429

Field Crossroads Devonian Invoice No. NT 10-141
Company Oil Development Company of Texas
Lease Santa Fe - Pacific Railroad Fee 27 Well No. 2
Date 10-7-51 Time 11:00 Status of Well Static
Devonian Top Pay Not drilled
Pay 11747' Top 11778' Bottom Thru T.D. 11880' Datum -8141'
Tubing 2 1/2" EUE Depth 11875' B.H.C. None Plug or Pin Plug Packer No
Casing 5 1/2" Depth 11775' Perforations Open Hole Liner Tree Top 2 1/2" OCT

Depth Feet	Pressure lbs. sq. in.	Pressure Δ	Gradient lbs./ft.	
30	715			Casing Press. 720# DWT
2010	1393	678	.342	Tubing Press. 715# "
4010	2079	686	.343	Oil Level at top
6010	2760	681	.342	Water Level none
8010	3439	679	.340	Hours—Shut In 37:00 Flowing
10010	4109	670	.335	Temp. @ 11870' -194° & 194°F.
11480*	4604	495	.337	Elevation—D.F. 4037' Ground 4026'
11670	4673	69	.363	Last Test Date 11-4-50
11770	4713	40	.400	Press. Last Test 4854# Extr. to 8141#
11870	752	39	.390	B.H.P. Change 4# gain
10	4			Loss/Day
11880	4756	Bottom of Perf.	.390*	Choke Size
298	103			Oil Bbls./day
12178	4859	Datum	.345	Water Bbls./day
-8141	4859	"	.345	Total Bbls./day
				Orifice and Line
				Static and Differential
				Gas Sp. Gr. Tf
				Cu. ft./day
				GOR
				GFR

PRODUCTIVITY INDEX—BBLs./DAY/LBS. DROP

Last Cumulative Production	Present Cumulative Production	Production Between Tests
Instrument <u>Amerada</u>	Number <u>7499</u>	Recovery Factor Bbls./pound Loss
Run By <u>Rex Shearer</u>	Calibration No. <u>M 63</u>	Calculated By <u>FP</u>

Calculations and Remarks:

*Considered sediment and not water.
Assumed reservoir gradient .345

Ex 2 Dan

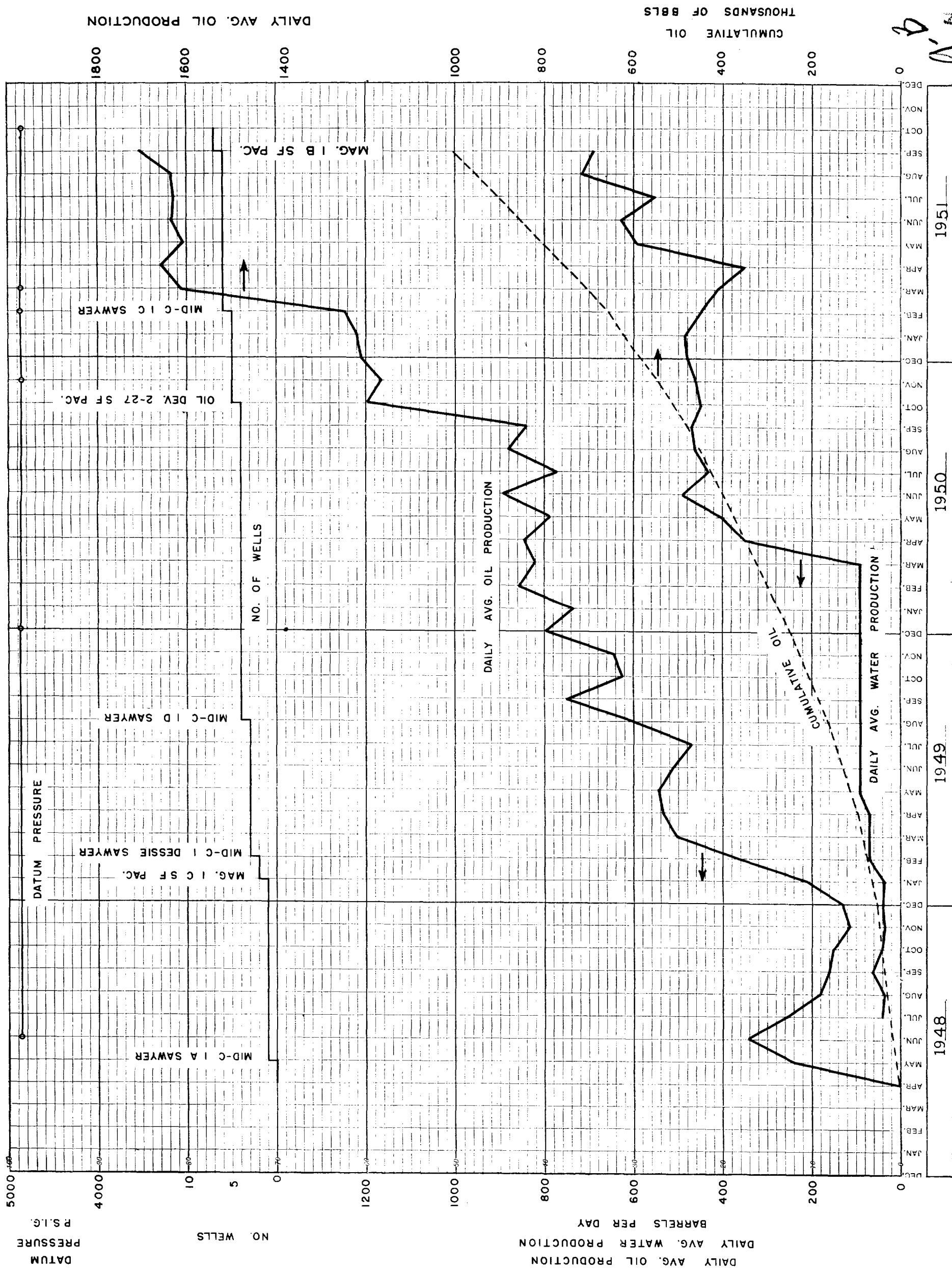
Statement by Mr Cecil R Bruckler,
attorney for Sinclair Oil and Gas Company.

The transcript of the proceedings in this matter on November 21-1950 does not quite reflect my exact statement at that hearing. What I said then and desire to place in the record now is that at the risk of burdening the Commission with a 'me to' position on behalf of our company, we desire the record to show that Sinclair Oil and Gas Company is an operator in New Mexico is vitally interested in there being established and maintained in the state, spacing of one well to 80 acres where it is shown that such 80 acre spacing will adequately drain the formation without injury to the correlative rights of parties in interest. Sinclair has no usage within the limits of the Grosvenor Pool and we were not present at the first hearing in this matter in July 1948 but at the November 21, 1950 hearing we suggested that the high cost of drilling and completing wells to the depth of 8 to 10 thousand feet, being in the neighborhood of 3 to 5 hundred thousand dollars could be a factor resulting in less wells being drilled even on 40 acre spacing. We ~~therefore~~ made ~~a~~ a similar statement at the hearing on the Grosvenor pool.

Now subsequent events in our national ~~affairs~~ affairs adds ~~to~~ the necessity of giving grave consideration to the

Conservation of tubular steel in
the oil development program where
conditions permit and with this
our company is in full accord.

PERFORMANCE CURVES **CROSSROADS DEVONIAN POOL** LEA CO., NEW MEXICO



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PERFORMANCE CURVES
CROSSROADS DEVONIAN POOL
LEA CO., NEW MEXICO

Exhibit 9

