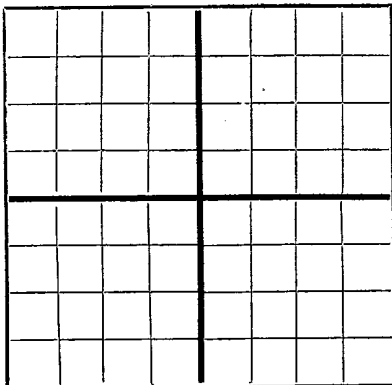


N

AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

MISSION PETROLEUM, INC.

1618 N. Las Palmas Ave., Los Angeles 28, Cal.

Stephenson Company or Operator Well No. 1 in NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 22, T. 26N.

R. 1E. N. M. P. M. Galina Field, Rio Arriba County.

Well is 660 feet south of the North line and 660 feet west of the East line of Sec. 22

If State land the oil and gas lease is No. Assignment No.

If patented land the owner is Address

If Government land the permittee is Mission Petroleum, Inc. Address 1618 N. Las Palmas Ave.

The Lessee is same Address Los Angeles 28, Calif.

Drilling commenced September 18, 1951 Drilling was completed approx. July 1, 1952

Name of drilling contractor Sherwin Drilling Co. Address Aztec, N. M.

Elevation above sea level at top of casing 7410 feet.

The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from 2918 to 2940 gas No. 4, from to

No. 2, from 2940 to 2971 oil No. 5, from to

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from 3186 to 3188 feet.

No. 2, from 3284 to 3292 feet.

No. 3, from to feet.

No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM TO	PURPOSE
113/4"	48#	8	Nat.	512'	Tex. Pattern			Surface
8 1/2"	32#	8	"	1115'	"	(pulled)	1115'	
7"	22#	8	"	2918'	"	(cemented)		
5 1/2"	14#	8	"	3190'	"	(pulled)		

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
113/4"	113/4"	500'	250	Haliburton		
	7"	2918'	50	"		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth Set

Adapters — Material Size

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
140 qts.	4 1/2"	Solidified glycerine	140 qts.	5-5-52	2940-2971	2940-2971
		Acid	1000 gals.	5-21-52	2940-2971	2940-2971
			5000 gals.	5-29-52	2940-2971	

Results of shooting or chemical treatment. No results. 1000 gals. of acid resulted in temporary increase of oil. 5000 gals. of acid resulted in additional increase of oil to approx. 100 bbls. per day. However, this soon dropped down and well is now producing approx. 3 bbls. per day.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from feet to feet, and from feet to feet

Cable tools were used from 0 feet to 3292 feet, and from feet to feet

PRODUCTION

Put to producing about July 1, 1952 almost

The production of the first 24 hours was approx. 50 barrels of fluid of which 100% was oil;

emulsion; % water; and % sediment. Gravity, Be. approx. 42

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas.

Rock pressure, lbs. per sq. in.

EMPLOYEES

Dewey Sherwin Driller Driller

Dewey Cantrell Driller Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 9th

day of January, 1953

Lelia Hard Swain Notary Public

My Commission expires March 8 - 1953

Los Angeles, California

Name

Position Attorney

Representing MISSION PETROLEUM, INC. Company or Operator

Address 1618 N. Las Palmas Ave. Los Angeles 28, California

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	50		Soil.
30	60		Gray, sandy shale - Lewis.
60	70		Dark Gray calcareous shale.
70	80		Hard, dark gray shale, sandy.
80	90		" " " " "
90	100		" " " " "
100	110		Gray, sandy shale.
110	120		" " "
120	130		" " "
130	140		Light gray sandy shale and 25% light gray, fine-grained sandstone.
140	150		Light gray, fine-grained sandstone and some shale, ss. about 80%.
150	160		Light gray, very sandy shale 90%; light gray sandstone 10%.
160	170		Light gray, fine-grained sandstone and light gray, very sandy shale, about 50-50.
170	180		Missing.
180	190		Light gray, very soft, fine-grained sandstone, 90% light gray, sandy shale, 10%.
190	200		Hard gray sandstone, very fine-grained, 95%, light gray sandy shale, 5%.
200	210		Same as previous sample.
210	220		" " " " , shale about 10%.
220	230		Dark gray, sandy shale, 80%, dark gray sandstone, fine-grained, 20%.
230	240		Dark gray, soft, fine-grained sandstone, 25%, dark gray sandy shale, 75%.
240	250		Dark gray, soft, fine-grained sandstone, 50%, dark gray sandy shale, 50%.
250	260		Same as previous sample.
260	270		Light gray, very sandy shale, 50%, light gray, fine-grained soft sandstone, 50%.
270	280		Light gray, very sandy shale.
280	290		Very soft, light gray sandstone, 25%, dark gray, sandy shale, 75%.
290	300		Dark and light gray sandy shale, 75%, light gray, soft sandstone, 25%.
300	310		Dark gray sandy shale.
310	320		Light gray, very soft, fine-grained sandstone, 20%, light gray sandy shale, 80%.
320	330		Light gray, very sandy shale.
330	340		Light gray, sandy shale, 70%, light gray soft sandstone, 30%.
340	350		Gray fine-grained sandstone and gray sandy shale, about 50-50, some black, sandy shale.
350	360		Very light, grayish-white, sandy shale and light gray sandstone, 50-50.
360	370		Light gray, sandy shale.
370	380		Grayish-black, sandy shale, 90%, gray sandstone, 10%.
380	390		Light gray, coarse-grained sandstone, traces of coal.
385			<u>Top, Mesaverde.</u>
390	400		Light gray sandstone and coal, 50-50.
400	410		Light gray sandstone, grayish clay and coal.
410	420		Gray, medium-grained sandstone.
420	430		Very soft, medium-grained gray sandstone and black shale, 50-50.
430	440		Fine, fine-grained sandstone, 90%, brown shale, 10%.
440	450		Very soft, medium-grained, gray sandstone.
450	460		Very soft, medium gray, brownish-gray sandstone.
460	500		Gray shale, cemented 11-3/4" at 500' with 200 sacks.
520	530		Light gray, fine-grained sandstone, 90%, gray shale, 10%.
530	550		Missing.
550	560		Sandy, black, carbonaceous shale, 80%, gray, sandy shale, 20% - water.
560	570		Very fine-grained, gray sandstone and gray shale, 50-50.
570	580		Dark and light gray, very fine-grained sandstone (some gray shale, probably cavings).
580	590		Dark and light gray sandstone and coal, 50-50, more water.
590	600		Light gray, medium-grained sandstone, carbonaceous shale and coal, 33% of each.
600	610		Black, carbonaceous, 30%, shale and coal, 70%.
610	620		Gray, very sandy shale, thin sand partings.
620	630		Coarse-grained gray sand (water ?).
630	640		Fine-grained, light gray sand, coal partings.
640	650		Same as previous sample.
650	660		" " " " , coal about 25%.
660	670		Black, carboniferous shale.
670	680		Black, carboniferous shale, 80%, dark gray, coarse sandstone, 20%.
680	690		Dark gray, medium-grained sandstone, some fine coal.
690	700		Same as previous sample, no coal (Picked up more water, 682 - 705, rose 400' in hole).
700	710		Same as previous sample, no coal.
710	720		Same as previous sample, no coal.
720	730		Lighter gray, medium-grained sandstone.
730	740		Very light gray, medium-grained sandstone, 25%, coal, 75%.
740	750		Light gray sandy clay, streaks of coal.
750	760		Sandy gray shale and clay, 60%, black carbonaceous shale, 40%.
760	770		Same as previous sample.
770	780		Light gray, sandy shale, specks of bentonite.
780	790		Sandy, light gray shale and clay, 70%, black carbonaceous shale, 30%.
790	800		Sandy, light gray shale and clay, with black carbonaceous shale partings (black shale cavings).
800	810		Fine-grained, light gray shale, 50%, black, carbonaceous shale, 50%.
810	820		Black, carbonaceous, fine-grained sandstone, carrying some iron pyrites, 70%, gray, medium-grained sandstone, 30%.

FROM	TO	FORMATION
820	830	Light gray, sandy shale with black carbonaceous shale, cavings.
830	840	Light gray, medium-grained soft sandstone, little gray shale.
840	850	Gray, fine-grained sandstone, with charcoal particles and iron pyrites, some gray shale.
850	860	Sandy, gray shale and gray sandstone, 50-50.
860	870	Fine-grained, slightly calcareous, gray sandstone and gray shale, 50-50.
870	880	Hard, gray, fine-grained sandstone and gray shale, 50-50.
880	890	Dark gray, calcareous shale (sandstone cavings).
890	900	Missing.
900	910	Dark gray, calcareous shale (sand stringers).
910	920	Black, carbonaceous shale and gray, medium-grained sandstone, 50-50.
920	930	Sticky, brownish-black shale.
930	940	Gray and brown shale, calcareous, sandstone stringers.
940	950	Gray and brown shale (brown shale carries charcoal particles) and sandstone stringers.
950	960	Same as previous sample.
960	970	Slightly sandy brown shale.
970	980	" " " "
980	990	" " " "
990	1000	Sandy, gray shale and medium-grained gray sandstone, 50-50.
1000	1010	Brown shale and dark gray, medium-grained sandstone, 50-50.
1010	1020	Gray and brown shale and fine-grained, gray sandstone, 50-50.
1020	1030	Gray shale and gray, fine-grained sandstone, 50-50.
1030	1040	Gray and brown shale, 75%, and fine-grained gray sandstone, 25%.
1040	1050	Sandy, gray shale (brown shale cavings).
1050	1060	Gray shale, sandy.
1060	1070	" " " (brown shale cavings).
1070	1080	Sandy gray and black shale and gray sandstone, 50-50.
1080	1090	Sandy, gray shale.
1090	1100	Sandy, gray shale, sandstone stringers.
1100	1110	Sandy, gray shale, gray sandstone, 50-50, some coal.
1110	1115	Sandy, " " " " , 50-50, no coal.
1115	1119	" " " " " " , landed 8-5/8" at 1112', water shut off.
1119	1130	Bluish-gray, sandy shale, some sandstone stringers
1130	1140	" " " " " " "
1140	1150	Sandy, gray and brown shale, 90%, gray sandstone, 10%.
1150	1160	Sandy, gray and black shale.
1160	1170	Gray and black, slightly calcareous shale.
1170	1180	Calcareous gray shale, gray sandstone stringers.
1180	1190	" " " " " "
1190	1200	Soft, argillaceous sandstone and dark gray, sandy shale, 50-50.

FROM	TO	FORMATION
1200	1210	Black shale.
1210	1220	Soft, dark gray, fine-grained sandstone, 100%.
1220	1230	Missing.
1230	1240	Black carbonaceous sandstone. <u>Top, Mancos - 1240'</u>
1240	1250	Slightly sandy, dark gray shale.
1250	1260	" " " "
1260	1270	Slightly calcareous, dark gray shale.
1270	1280	" " " "
1280	1290	Sandy, dark gray shale.
1290	1300	Black shale, calcareous.
1300	1310	" " " "
1310	1320	Slightly sandy, gray shale.
1320	1330	Sandy gray shale, sand stringers.
1330	1340	Black shale, slightly calcareous stringers, fine-grained, very hard, calcareous sandstone.
1340	1350	Fine-grained, gray, soft sandstone, some gray shale
1350	1360	Same as previous sample.
1360	1370	Same as previous sample, no shale.
1370	1380	Hard, blue, sandy shale.
1380	1390	" " " "
1390	1400	Hard, blue shale.
1400	1410	Blue shale, somewhat calcareous.
1410	1420	" " " "
1420	1430	Blue shale, somewhat calcareous.
1430	1440	" " " "
1440	1450	Blue shale, very slightly calcareous.
1450	1460	" " " "
1460	1470	Calcareous blue shale.
1470	1480	Blue and black shale, calcareous.
1480	1490	None-calcerous blue shale.
1490	1500	" " blue-gray shale.
1500	1510	" " " "
1510	1520	Calcareous, blue-gray shale.
1520	1530	Non-calcareous, blue shale.
1530	1540	Slightly calcareous, blue shale.
1540	1550	" " " "
1550	1560	" " " "
1560	1570	Blue shale.
1570	1580	Calcareous blue shale, lime stringers.
1580	1590	Blue shale.
1590	1600	Calcareous, blue shale.
1600	1610	" " " "
1610	1620	" " " "
1620	1630	Missing.
1630	1640	Calcareous blue shale.
1640	1650	" " " "
1650	1660	" " " "
1660	1670	Non-calcareous blue shale.
1670	1680	Calcareous blue shale, 50%, blue-white limestone, 50%.
1680	1690	Calcareous blue shale.
1690	1700	" " " "
1700	1710	" " " "
1710	1720	Slightly calcareous blue shale.
1720	1730	" " " "

FROM	TO	FORMATION
1730	1740	Calcareous blue shale.
1740	1750	" " "
1750	1760	" " "
1760	1770	" " "
1770	1780	" " "
1780	1790	" " "
1790	1800	Slightly calcareous, blue shale.
1800	1810	" " " "
1810	1820	" " " "
1820	1830	Calcareous blue shale.
1830	1840	Slightly calcareous blue shale.
1840	1850	Limestone, 50%, calcareous shale, 50%.
1850	1860	Argillaceous limestone, 50%, and calcareous shale, 50%.
1860	1870	Calcareous blue shale.
1870	1880	" " "
1880	1890	Argillaceous limestone.
1890	1900	" " " and shale.
1900	1910	" " " "
1910	1920	" " " "
1920	1930	Calcareous blue shale.
1930	1940	" " "
1940	1950	Calcareous blue shale and sandy blue shale partings.
1950	1960	Calcareous blue shale.
1960	1970	Fissile blue shale with calcareous shale partings.
1970	1980	" " " " " "
1980	1990	Very calcareous bluish-gray shale.
1990	2000	" " " " "
2000	2010	Very calcareous, bluish-gray shale, some non-calcerous blue shale.
2010	2020	Same as previous sample.
2020	2030	Hard, slightly sandy blue shale.
2030	2040	Calcareous gray shale, 50%, calcareous, medium-grained sandstone, 50%.
2040	2050	Fine-grained, calcareous sandstone with calcareous gray shale stringers.
2050	2060	Gray and black limestone with blue and gray, calcareous shale partings.
2060	2070	Same as previous sample.
2070	2080	Fissile blue shale, 90%, gray limestone, 10%.
2080	2090	Blue shale, gray limestone and gray, calcerous sandstone in about equal amounts.
2090	2100	Fine-grained, calcerous sandstone.
2100	2110	" " " "
2110	2120	Light gray and black, fine-grained, slightly calcerous sandstone, carrying some iron pyrites and gray shale partings.
2120	2130	Same as previous sample.
2130	2140	Blue, calcareous shale.
2140	2150	Bluish-gray, calcareous shale.
2150	2160	Blue, calcareous shale.
2160	2170	" " "
2170	2180	Fissile blue shale, slightly calcareous.
2180	2190	" " " "
2190	2200	Hard, calcareous blue shale.
2200	2210	" " " "

FROM	TO	FORMATION
2210	2220	Slightly calcareous blue shale.
2220	2230	" " " "
2230	2240	" " " "
2240	2250	Calcareous blue shale.
2250	2260	" " " "
2260	2270	" " " "
2270	2280	" " " "
2280	2290	Calcareous blue shale and gray, fine-grained sandstone, water, 1 bailer per hour.
2290	2300	Gray, fine-grained sandstone.
2300	2310	Sandy blue shale with calcareous sandstone partings.
2310	2320	Fine-grained, calcareous sandstone with calcareous gray shale partings. (Show gas).
2320	2330	Calcareous, gray sandstone, 75%, calcareous gray shale, 25%.
2330	2340	Very fine-grained, calcareous, gray sandstone, some gray shale partings.
2340	2350	Very fine-grained, calcareous, gray sandstone and calcerous gray shale, 50-50.
2350-	2360	Calcareous, gray shale, 75%, calcareous, fine-grained sandstone, 25%.
2360	2378	Gray sandstone and non-calcareous gray shale, 50-50.
2378	2390	Gray sandstone and slightly calcareous gray shale, 50-50.
2390	2400	Blue-black shale, sandy, 90%, gray sandstone, 10%.
2400	2410	Fine-grained, gray sandstone, some gray shale.
2410	2420	" " " " , no shale.
2420	2430	" " " " , 90%, gray, cal-
		cerous shale, 10%.
2430	2440	Fine-grained, gray sandstone.
2440	2450	Fine-grained, gray sandstone with shale partings.
2450	2460	Fine-grained, gray sandstone, 50%, gray shale, 50%.
2460	2470	Bluish-gray, sandy shale.
2470	2480	Very calcerous gray shale.
2480	2490	Hard, blue-gray shale.
2490	2500	" " " "
2500	2510	Very sandy, blue shale.
2510	2520	Sandy blue shale.
2520	2530	Hard, black, argillaceous limestone.
2530	2540	" " " "
2540	2550	Gray, calcareous shale, 90%, argillaceous limestone, 10%.
2550	2560	Grayish-black, calcareous shale.
2560	2570	Gray, calcareous shale, streaks bentonite.
2570	2580	Calcareous black shale.
2580	2590	Fine-grained, gray, calcareous sandstone, 80%, gray, calcareous shale, 20%.
2590	2600	Gray, calcareous shale, streaks bentonite.
2600	2610	Black, non-calcareous shale.
2610	2620	" " " " , bentonite.

FROM	TO	FORMATION
2620	2630	Black, non-calcareous shale, bentonite.
2630	2640	Calcerous gray shale and siltstone, 50-50.
2640	2650	" " " "
2650	2660	Non-calcareous black shale.
2660	2670	" " " "
2670	2680	" " " ", with calcerous gray shale partings.
2680	2690	Non-calcerous black shale.
2690	2700	Non-calcerous black shale.
2700	2710	" " " "
2710	2720	" " " "
2720	2730	" " " "
2730	2740	" " " "
2740	2750	" " " ", with chalky spots.
2750	2760	" " " "
2760	2770	" " " "
2770	2780	" " " "
2780	2790	" " " "
2790	2800	" " " "
2800	2810	" " " "
2825	2832	Grayish-black shale, slightly calcareous.
2832	2842	" " " "
2842	2852	Black, non-calcareous shale.
2852	2862	Very fine-grained, dark gray sandstone.
2862	2870	Very fine-grained, dark gray sandstone 25%, black shale 75%.
2870	2877	Somewhat sandy black shale, some bentonite.
2877	2882	" " " "
2882	2892	Black shale, non-calcareous
2892	2904	Calcareous black shale.
2904	2924	Missing.
2924	2931	Calcareous grayish-black shale.
2931	2940	Black limestone, some calcite.
2940-	2951	Black limestone.
2951	2956	Black limestone, some bentonite, oil and gas at 2953'.
2956	2958	Grayish-black limestone (black shale cavings).
2958	2959	Black limestone, some calcite crystals and some bentonite.
Limestone section from 2931 to 2959 shows no porosity. Presence of calcite indicates fracturing where oil probably has accumulated.		
2959	2961	Dark gray, almost black, semi-crystalline limestone quite argillaceous, 50 feet of oil in hole from 2953'.
2961	2964	Same as previous sample.
2964	2967	Same as previous sample, with black shale cavings.
2967	2971	Dark gray, calcareous shale, some bentonite.
Between 2953 and bottom, oil increased and rose to from 700 to 1000 feet in hole.		

FROM	TO	FORMATION
2971	2975	Hard lime.
2975	2990	Lime and bentonite.
2990	2998	Lime and bentonite.
2998	3008	Bentonite.
3008	3015	Shale - lime - bentonite.
3015	3030	Lime, shale and bentonite.
3030	3040	Lime and shale.
3040	3050	Lime and shale.
3050	3060	Shale, shells.
3060	3072	Shale and bentonite - some sand.
3072	3080	Shale, bentonite and little sand.
3080	3090	Shale, lime, sand, some pyrites.
3090	3100	Shale, lime, pyrites, bentonite, some sand.
3100	3110	Shale and bentonite.
3110	3116	Shale, trace of sand.
3116	3120	Shale, lime and sand.
3120	3125	Shale, sand and lime.
3125	3135	Sandy shale.
3135	3150	Sandy shale.
3150	3156	Sandy shale.
3156	3165	Hard sand and shale.
3165	3175	Hard sand and shale.
3175	3183	Sand. Top of Dakota 3180.
3183	3186	Hard sharp sand.
3186	3188	Water.
3188	3193	Hard sharp sand.
3193	3200	Sand and shale.
3200	3203	Shale.
3203	3206	Hard sand, shale and pyrites.
3206	3207	Sand and iron pyrite. Very hard.
3207	3208	Iron pyrite.
3205	3220	Sand and shale.
3220	3225	Sharp sand. Possibly more water.
3225	3230	Hard sharp sand and pyrite.
3230	3242	Broken shale and sand.
3242	3253	Shale - some sand.
3253	3260	Shale.
3260	3265	Shale.
3265	3270	Shale.
3270	3282	Hard sand and shale.
3282	3287	Gray sand and water
		Shut down at 3292'.