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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.

AREA 640 ACRES
LOCATE WELL CORRECTLY

Empire Oil and Refining Company

State-D

Company or Operator

Well No. 4

in SE NE 1/4

Lease 32

T.

21 S

R. 36 E, N. M. P. M., Eunice Field, Lea County.

Well is 1980 feet south of the North line and 660 feet west of the East line of 32-21-36

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 Address

The Lessee is Empire Oil & Refining Co. Address Bartlesville, Okla.

Drilling commenced February 10, 1936 Drilling was completed August 10, 1936

Name of drilling contractor Oil Well Drilling Co. Address Dallas, Texas

Elevation above sea level at top of casing 3598 feet.

The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from 3850 to 3930 No. 4, from to

No. 2, from to 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 to feet.

No. 2, from to feet.

No. 2, 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
12 1/2	50		LW	298				
9 5/8"	36		SS	1640	Float			
7"	24		SS	3810	Float			
2"	4.7		US	3920				

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
12 1/2		292	250	Halliburton		
9 5/8"		1640	750	Halliburton		
7		3810	200	Halliburton		

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
		Dowell XX	2000	3-23-36		
		Nitro-Glycerine 300 qt	3-25-36	3850-3930		
		Dowell XX	4000	3-28-36		
		Nitro-Glycerine 600 qt	4-3-36	3831-3930		

Results of shooting or chemical treatment Results of
1st acid treatment Swabbed 12 barrels per hour --- 1st shot, no increase
in production---2nd acid treatment, no increase in production---2nd shot,
no increase in production.

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 0 feet to 3941 feet, and from feet to feet

Cable tools were used from 3841 feet to 3941 feet, and from feet to feet

PRODUCTION

Put to producing August 12, 1936

The production of the first 24 hours was 1000 barrels of fluid of which 100 % was oil; %

emulsion; % water; and % sediment. Gravity, Be 34.5

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

B. E. Riley, Driller J. F. Cookston, Driller

O. E. Gill, Driller H. H. Sutton, 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 3 rd

day of September, 1936

L. W. Jernigan
Notary Public.

Hobbs, New Mexico September 3, 1936

Name P. V. B. B. B.

Position Division Sup't.

Representing Empire Oil & Refining Co.

Company or Operator

My Commission expires 6-26-39

Address Hobbs, New Mexico

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	50	50	Caliche and Gravel
50	258	208	Sand and Boulders
258	335	77	Red Bed
335	460	125	Red Bed and Shells
460	477	17	Hard Sand
477	583	106	Red Bed
583	685	102	Sandy Red Rock
685	960	275	Red Rock Shells, and Red Bed
960	1186	226	Red Rock and Lime Shells
1186	1253	67	Red Rock, Lime Shells, and Streaks Gyp
1253	1395	142	Red Rock and Lime Shells
1395	1450	55	Red Rock and Shells
1450	1537	87	Red Rock and Hard Sand
1537	1560	23	Red Rock
1560	1571	11	Red Rock and Anhydrite
1571	1589	18	Gyp and Anhydrite
1589	1612	23	Anhydrite
1612	1640	28	Salt
1640	1668	28	Salt and Anhydrite
1668	1745	77	Salt, Red Shells, and Anhydrite
1745	2380	635	Salt and Anhydrite
2380	2555	175	Salt
2555	2725	170	Anhydrite and Streaks of Salt
2725	2960	235	Salt and Anhydrite
2960	3112	152	Anhydrite
3112	3137	25	Anhydrite and Gyp
3137	3163	26	Lime and Gyp
3163	3270	107	Lime
3270	3273	3	Hard Lime
3273	3280	7	Lime
3280	3300	20	Sandy Lime
3300	3314	14	Lime
3314	3360	46	Hard Lime
3360	3420	60	Lime
3420	3439	19	Hard Lime
3439	3549	110	Lime
3549	3575	26	Lime and Sandy Lime
3575	3588	13	Hard Lime
3588	3625	37	Lime (hard)
3625	3635	10	Salt and Sandy Lime
3635	3643	8	Hard Lime
3643	3664	21	Lime
3664	3692	28	Hard Lime
3692	3696	4	Lime
3696	3702	6	Hard Lime
3702	3712	10	Lime
3712	3774	62	Hard Lime
3774	3797	23	Lime
3797	3804	7	Broken Sandy Lime
3804	3810	6	Hard Lime
3810	3838	28	Broken Lime
3838	3890	52	Lime
3890	3894	4	Sandy Lime (Soft)
3894	3905	11	Lime (Medium Hard)
3905	3928	23	Lime
3928	3930	2	Hard Lime
3930	3941	11	Lime
			3941' Total Depth