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## NEW MEXICO OIL CONSERVATION CO.

**Santa Fe, New Mexico**

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HOBBS OFFICE

**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

**Cities Service Oil Company**

Drawer "G". Hobbs, New Mexico

OWEN Company or Operator  
Lease 37-E Well No. 2 in SW SE of Sec. 35, T. 21-S  
R. Drinkard Lea County, N. M. P. M., Field,  
Well is 4680' feet south of the North line and 1980 feet west of the East line of Sec. 35  
If State land the oil and gas lease is No. Assignment No.  
If patented land the owner is Mark Owen Address Eunice, New Mexico  
If Government land the permittee is Address  
The Lessee is Address  
Drilling commenced 9-8-46 19 Drilling was completed 10-22-46 19  
Name of drilling contractor Two States Drilling Co. Address Dallas, Texas  
Elevation above sea level at top of casing feet.  
The information given is to be kept confidential until

### OIL SANDS OR ZONES

OIL SANDS OR ZONES			
No. 1, from	5095	to	5188
No. 2, from	5600	to	5695
No. 3, from	6369	to	6486
No. 4, from		to	
No. 5, 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. 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		PURPOSE
							FROM	TO	
13-3/8"	27.3#	PE.	Nat'l	312'					
8-5/8"	28#	8 R.T.	AOSmith	2804'	.	.			
5-1/2"	17#	8 R.T.	-	356'					
"	15-1/2#	8 R.T.		2451'					
"	14#	8 R.T.		3606'	.				
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## MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17-1/4"	13-3/8"	331'	275	Plug		
11-1/4"	8-5/8"	2812'	1400	"		
7-1/4"	5-1/2"	6407'	350	"		

## 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
Gal	4	Acid	3,000	10-22-46	6446-6486'	

Results of shooting or chemical treatment Flowed approximately 40 bbls. of good oil after cleaning to pipe and then shut in.

then shut in.  
1202 Btl 24 hrs on 4564 Lake LAR 1230

### 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 Surface feet to 6486' feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

## PRODUCTION

Put to producing \_\_\_\_\_ 10-22, 19 46 \_\_\_\_\_

The production of the first 24 hours was \_\_\_\_\_ 250 \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ 100 \_\_\_\_\_ % was oil; \_\_\_\_\_ 0 \_\_\_\_\_ % emulsion; \_\_\_\_\_ 0 \_\_\_\_\_ % water; and \_\_\_\_\_ 0 \_\_\_\_\_ % sediment. Gravity, Ba. \_\_\_\_\_ 40 \_\_\_\_\_

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

Rock pressure, lbs. per sq. in. \_\_\_\_\_

## EMPLOYEES

\_\_\_\_\_, Driller \_\_\_\_\_, Driller \_\_\_\_\_  
\_\_\_\_\_, 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 16<sup>th</sup>

Hobbs, New Mexico      October 30, 1946

day of November, 194

Name *[Signature]*

Position District Superintendent

Representing Cities Service Oil Company

My Commission expires Mar. 12, 194

	Company or Operator
1.	Bell - New Mexico

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	1110'	1110'	Red Bed & Sand
1110'	1220'	110'	Red Bed, Anhydrite & Shells
1220'	1250'	30'	Anhydrite, Salt & Shells
1340'	2094'	754'	Anhydrite & Salt
2094'	2300'	206'	Salt & Shells
2300'	2453'	153'	Salt, Anhydrite & Gyp
2453'	2574'	121'	Anhydrite
2574'	2820'	246'	Anhydrite & Gyp
2820'	2859'	39'	Lime
2859'	3003'	144'	Lime & Gyp
3003'	3345'	342'	Lime
3345'	3385'	40'	Lime & Sand
3385'	3594'	109'	Lime
3494'	3529'	35'	Lime & Sand
3529'	3726'	197'	Lime & Gyp
3770'	4002'	232'	Lime
4002'	4065'	63'	Sand & Lime
4065'	4150'	85'	Sand, Lime & Shells
4150'	4639'	489'	Sand & Lime
4639'	5033'	394'	Lime
5033'	5175'	142'	Brown Sandy Lime
5175'	5285'	110'	Sandy Lime
5285'	5378'	93'	Lime
5378'	5621'	243'	Lime & Gyp
5621'	6420'	799'	Lime
6420'	6428'	8'	Sand
6428'	6482'	54'	Brown Lime
6482'	6486'	4'	Lime

TOTAL DEPTH: 6486'

TOPS

Base Salt	2390'
Yates	2490'
San Andres	3852'
Glorietta	5095'
Clear Fork	5504'
Top Pay	5490'

## Drill Stem Test #1:

Tested from 5110' to 5188'. Tool open at 2:00 P.M. Gas to surface 19 minutes gas volume 1st 15 minutes 57 MCF per day volume decreased to no blow in 1 hr. 20 minutes. Closed in for B.U.P. 20 minutes. Recovered 2880' of fluid. Unloaded 2580' of oil and gas; 500' of water recovered on bottom. I.F.P. 0#; F.F.P. 520#; B.U.P. 800#; M.C.P. 2300#.

## Drill Stem Test #2:

Tested from 5600' to 5695'. Tool open at 10:04 A.M. Had a faint blow of air throughout test. Gas never reached surface. Tool open 2 hrs. and closed in for 20 minutes build up. Recovered 690' of mud not cut with gas oil or water. I.F.P. 0#; F.F.P. 400#. B.U.P. 490#, M.C.P. 2750#. Packers did not fail and mud rise in pipe either bypassed packers or came through a fracture in formation.

## Drill Stem Test #3:

Tested 6369' to 6420'. Tool open 7:50 A.M. Gas to surface 3 minutes; 15 minutes volume 371 MCF 30 minute 298 MCF, mud to surface 48 minutes; oil to surface 51 minutes. Turned into tank at 8:50 A.M. 1st 15 minutes: 1.39 bbls. 2nd 15 minutes 2.07 bbls., 3rd 15 minutes: 2.77 bbls; last 15 minutes 3.88 bbls. Total of 8.31 bbls. in one hr. at a GOR of 3,050 cu. ft. per bbl. I.F.P. 470#, F.F.P. 520#, MCP 3100#, No. B.U.P.

## Drill Stem Test #4:

Tested 6418' to 6486'. Gas to surface in 4 minutes; mud to surface in 9 minutes; oil to surface in 12 minutes; turned to tanks in 17 minutes. Gauges 1st 15 minutes: 10.35 bbls.; 2nd 15 minutes: 11.72 bbls; 3rd 15 minutes: 11.04 bbls; 4th 15 minutes: 11.04 bbls. Total oil 1 hr. 44.15 bbls. GOR 1142. I.F.P. 750#. F.F.P. 1000#, B.U.P. 1500#. M.C.P. 3100#