

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

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LAND OFFICE	
TRANSPORTER	OIL
	GAS
PRODUCTION OFFICE	
OPERATOR	

N.

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE If State Land submit 6 Copies

AREA 640 ACRES
LOCATE WELL CORRECTLY

Socony Mobil Oil Company, Inc.

State "CC" Unit

(Company or Operator)

(Lease)

Well No. 1, in NW 1/4 of SW 1/4, of Sec. 36, T. 17S, R. 34E, NMPM.

Undesignated Pool, Lea County.

Well is 860 feet from West line and 1980 feet from South line

of Section 36. If State Land the Oil and Gas Lease No. is B-2146

Drilling Commenced 4/26, 1964 Drilling was Completed 7/10, 1964

Name of Drilling Contractor Marcum Drilling Company

Address P. O. Box 5094, Midland, Texas 79704

Elevation above sea level at Top of Tubing Head 3993 The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from 9115 to 9185 No. 4, from to

No. 2, from 9962 to 10032 No. 5, from to

No. 3, from 11972 to 12028 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 None to feet

No. 2, from to feet

No. 3, from to feet

No. 4, from to feet

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
16"	65#	New	360	-	-	-	Surface String
13-3/8"	54.5#	New	26	-	-	-	---
10-3/4"	45.5 & 51#	New	4941	-	-	-	Intermediate String
2-7/8"	6.4#	New	12080	-	-	9115 - 9185	Production String
2-7/8"	6.4#	New	12080	-	-	9962 - 10032	Production String
4-1/2"	11.6#	New	10222	-	-	11972 - 12028	Production String

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
20"	16	360	350	Pump & Plug	-	-
12-1/4"	13-3/8	26	-	Pump & Plug	-	-
12-1/4"	10-3/4	4967	2585	Pump & Plug	-	-
9-5/8"	2-7/8	12080	-	Pump & Plug	-	-
9-5/8"	2-7/8	12080	-	Pump & Plug	-	-

RECORD OF PRODUCTION AND STIMULATION

9-5/8" 4-1/2 10222 4460 Pump & Plug -

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Result of Production Stimulation

Depth Cleaned Out

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 12080 feet, and from feet to feet.
 Cable tools were used from feet to feet, and from feet to feet.
 Abo 8/2/64
 Wolfcamp 8/3/64
 Devonian 7/21/64

PRODUCTION

Put to Producing, 19

OIL WELL: The production during the first 24 hours was See Summary barrels of liquid of which % was
 was oil; % was emulsion; % water; and % was sediment. A.P.I.
 Gravity.

GAS WELL: The production during the first 24 hours was M.C.F. plus barrels of
 liquid Hydrocarbon. Shut in Pressure lbs.

Length of Time Shut in

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico			Northwestern New Mexico		
T. Anhy.	1484		T. Devonian	11960	
T. Salt	1595		T. Silurian		
B. Salt	2610		T. Montoya		
T. Yates	2802		T. Simpson		
T. 7 Rivers			T. McKee		
T. Queen	3688		T. Ellenburger		
T. Grayburg			T. Gr. Wash		
T. San Andres	4330		T. Granite		
T. Glorieta	5828		T.		
T. Drinkard			T.		
T. Yeso	5907		T.		
T. Abo	7910		T.		
T. Wolfcamp	9235		T.		
T. Miss.	11115		T.		

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	1272	1272	Red Bed				
1272	1582	310	Red Bed & Salt				
1582	3142	1560	Anhydrite & Salt				
3142	3423	281	Anhydrite				
3423	4183	760	Anhydrite & Sand				
4183	5700	1517	Lime				
5700	6673	973	Sandy Lime				
6673	10036	3363	Lime				
10036	10332	296	Lime & Shale				
10332	11235	903	Lime				
11235	11626	391	Lime & Chert				
11626	12027	401	Lime & Shale				
12027	12080	53	Dolomite				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

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.

September 22, 1964
 (Date)
 Company or Operator, Socony Mobil Oil Company, Inc. Address, P. O. Box 1800, Hobbs, New Mexico 88240
 Name, J. McDaniel Position or Title, Group Supervisor

SUMMARY OF OPERATIONS

1964

4/26 Marcum Drilling Co. commenced drilling operations @ 12:01 a. m. '64
 4/26 Set 360' of 16" Surface casing.
 4/27 Tested 16" surface csg. w/1000# for 30 mins.
 5/11 Set 4941' of 10-3/4" csg. topped w/26' of 13-3/8" csg.
 5/11 Worthwell ran Temp. Survey, Top cement @ 715'.
 5/11 Cemented down back side of 10-3/4" csg. w/400 sx. Incor Neat + 2% CaCl₂.
 5/12 Cemented down outside of 13-3/8" csg.
 5/12 Tested 10-3/4" csg. w/1000# for 30 mins.
 6/18 DST #1 10,120-10,160'.
 6/29 Schlumberger ran GR-Sonic Log 0-11239'.
 6/30 Schlumberger ran Dual Induction-Laterolog 6800-11241'.
 7/8 DST #2 Devonian 11,965-12,000'.
 7/10 DST #3 Devonian 12,000-12,040'.
 7/11 Schlumberger ran Microlog 8800-12076'.
 7/11 Schlumberger ran Dual Induction-Laterolog 11241-12075'.
 7/11 Schlumberger ran GR-Sonic Log 11239-12070'.
 7/11 Worthwell ran Caliper Survey 0-12080'.
 7/12 Ran 1st String of 2-7/8" csg. to 12080'.
 7/13 Ran 2nd String of 2-7/8" csg. to 12080'.
 7/13 Ran 10,222' of 4-1/2" csg.
 7/20 Tested all 3 strings of csg. w/2000# for 30 mins.
 7/21 Abo Csg.: Schlumberger perf. 9115, 9122, 9126, 9128, 9146, 9148, 9150, 9169, 9171, 9173, 9175, 9177, 9179, 9181, 9183, & 9185 w/1 JSPF. Swab 54 BLW + 87 BW in 18 hrs.
Wolfcamp Csg.: Schlumberger perf. 4-1/2" csg. 9962, 9968, 9970, 9972, 9977, 9994, 9996, 10026, 10030, 10032 w/2 JSPF. SI 216 hrs.
Devonian Csg.: Schlumberger perf. 2-7/8" csg. 11972-11982 w/1 JSPF. Swab & flow 54 BLW + 18 BNO in 13 hrs.
 7/22 BJ acidized Dev. perfs. 11972-11982 w/500 gal. 15% NE acid. Swab & flow 70 BLO + 27 BNO + 7 BAW 16 hrs.
 7/23 Abo Csg.: Swab 22 BW 4 hrs. SI 9 hrs. Pump in 2-7/8" csg. & circ. out 4-1/2" Wolfcamp csg. Cem. down 2-7/8" Abo Csg. w/200 sx. Trinity Inferno + 0.6% Halad 9. Pr. dropped 3000-0#. Displaced cement to 9100' in Abo.
Devonian 2-7/8" Csg.: Flow 26 BNO in 10 hrs. BJ Acidized perfs. 11972-11982 w/2000 gal. 15% NE Acid + 7 RCN Ball Sealers. Swab 4 BLO in 1 hr. WOC 6-1/2 hrs. Pr. came on while cementing Abo string. Ran sinker bar, stopped @ 5523'. Ran 1-5/8" DP w/2-3/8" bit. Drilled cement 5502-9129' in 66 hrs. Pulled bit. Ran 1-3/4" csg. swedge, jars, 10-2-1/4" DC. Drove swedge thru tight place @ 9129'. Pulled DP.
 7/29-30 Devonian 2-7/8" Csg.: Ran 2.4" csg. swedge on 1-5/8" DP. Swedge thru tight place in 2-7/8" csg. @ 9129'. Pulled swedge & DP. Ran 1-3/8" bit on 1-5/8" DP. Drilled cement 9697-9821'. Pulled DP & bit. Ran Baker CI retainer & set @ 8882'. Good circ. to perfs. Abo string parted circ. to Wolfcamp string. Squeezed hole in Devonian csg. @ 9129' w/164 sx. Trinity Inferno Neat. Rev. out 60 sx. Pulled DP. WOC 15 hrs. Tagged top of cement in Abo string @ 8934' and top of cement in Wolfcamp csg. @ 9993'.
 7/31- Abo 2-7/8" Csg.: Ran 2-3/8" mill on 1-5/8" DP. Drilled cement 8934-8/17 9185'. BJ Service acidized Abo perfs. 9115-9185' w/500 gal. 15% NE Acid. Swab and flow 55 BLO + 252 BNO + 12 BAW in 35 hrs. SI 114 hrs. Flow 64 BNO in 2 hrs. SI 50 hrs. Flow 50 BLO + 18 BNO in 5 hrs. Abo perfs. 9115 9185 - NMOCC Potential Test flow 179 BNO in 24 hrs. 22/64" Ch. TP 685-220, GOR 557. Gty 40.1 @ 60°.
 8/2-8/12 Wolfcamp 4-1/2" Csg.: Ran 3-7/8" Bit & csg. scraper, 3 - 3-1/16" DC on 2-3/8" tbg. Drilled cement 9993-10032', ran bit to 10129, circ. 2 hrs. Pulled bit. Ran 2-3/8" tbg. to 10053' w/pkr. @ 9991'. Swab 38 BLO in 3 hrs. Swab dry 1 hr. BJ Service acidized perfs. 9962-10032 w/500 gal 15% NE Acid. Swab & flow 40 BLO + 266 BNO + 12 BAW 26 hrs. SI 96 hrs.
 Wolfcamp Perfs. 9962-10032 - on NMOCC Flow 211 BNO + 4 BSW 24 hrs. 20/64" Ch. TP 206#. GOR 991. Gty 38.2 @ 60°.
 8/2-8/18 Devonian 2-7/8" Csg.: Ran 2-3/8" mill on 1-5/8" DP. Drilled cement 8872-8882. Drilled retainer 8882-8885', cement stringers 8885-9149'. No cement 9149-9886'. Drilled cement stringers 9886-9960, Solid cement 9960-11982' in 107 hrs. Pulled DP. Swab 51 BLW in 8 hrs. Re-perf Devonian 11972-11982' & Perf. 11994-12002 and 12014-12028 w/1 JSPF (32 holes). Swab 68 BLO + 5 BNO + 12 BAW in 29 hrs. Otis ran 2-7/8" Caliper, bad spot @ 9130'. Set collar stop @ 9140'. Ran 24' x 1-1/2" x 1-1/4" ID pack off assembly 9116-9140'. Chem. Engr. spotted 500 gal. acid, acidized perfs. 11972-12028 w/4000 gal. 15% NE Acid + 30 RCN Ball Sealers. Swab & flow 128 BLO + 122 BNO + 34 BAW in 15 hrs. SI 56 hrs. Fished pkr. off collar stop. Ran Baker Model "C" pkr. on 1-1/2" tbg. to 9279'. Swab & flow 52 BLO + 8 BNO + 68 BSW in 23 hrs.
 Devonian Perfs. 11972-12028 on NMOCC Potential Test Flow 104 BNO + 21 BSW

SUMMARY OF OPERATIONS - (Cont'd.)1964

in 24 hrs. 24/64" ch. TP 406-146. GOR 3111. Gty. 49.0 @ 60°. C.C.
 8/20 All zones shut in on Packer Leakage Tests. SEP 23 21 AM '64

DRILL STEM TESTS

6/18 DST #1 10,120-10,160'. Tool open 1 hr. 5 mins. 5/8" x 1" ch. No WC. Open w/weak blow. Increased slightly to end of test. Rec 330' Drlg. mud. SFP 0. IBHFP 129#, FBHFP 173#. H H 4811 in and 4768 out. BHT 144°.

7/8 DST #2 Devonian Formation 11965-12000'. 5/8" x 1" ch. Tool open 61 mins. 2000' WC. Opened w/strong blow. GTS 11 mins. TSTM. Pulled 5000' DP, unloaded 2000' WC. Rev. 720' oil + 1000' gas cut drlg. mud. SFP 0. BHFP 1520-1668'. 2 hrs. 17 mins. FBHSIP 2487#. H H 5831 in and out. BHT 174°. 40 mins. IBHSIP 3521#.

7/10 DST #3 Devonian Formation 12000-12040'. 5/8" x 1" ch. 2000' WC. Tool open 63 mins. Opened w/weak blow increased to strong blow. GTS 63 mins. TSTM. Rec. 2000' gas cut WC, 180' gas cut drlg. mud. SFP 0. BHFP 890-890# 2 hrs. FBHSIP 3958#. HH 6014 in and out. BHT 157°. 30 mins. IBHSIP 3818#.

ACIDIZING RECORD

7/22 B. J. acidized Devonian perfs. 11972-11982 w/500 gal. 15% acid. Brk dwn. pr. 4400#. Trt pr. 4400-3000# Rate 1 BPM. ISIP 0.

7/23 B. J. acidized Devonian perfs. 11972-11982 w/2000 gal. 15% NE Acid + 7 RCN Ball Sealers. Brk down. pr. 0#. Trt. pr. 0#. Rate 5.7 BPM. ISIP Vac.

7/31 B. J. Service Acidized Abo perfs. 9115-9185 w/500 gals. 15% NE Acid. Brk. dwn. pr. 3600#, Trt. pr. 1500-3000#. Rate 1.5 BPM. ISIP 1200#. 5 min. SIP 50#.

8/2 B. J. Service acidized Wolfcamp perfs. 9962-10032 w/500 gals. 15% NE Acid. Brk. dwn. pr. 4900#. Trt. pr. 4100#. Rate 1.4 BPM. ISIP 2800#. 5 min. 1400#.

8/9 Chem. Engr. acidized Devonian perfs. 11972-12028 w/4500 gal. 15% NE Acid + 30 RCN ball sealers. Trt. pr. 4000-3600-4000#. Rate 2.3 BPM. ISIP 3750#.

PERFORATIONS

<u>Zone</u>	<u>Depth</u>	<u>Size</u>	<u>Kind</u>	<u>Remarks</u>
Abo	9115	1/2"	Jet	
"	9122	"	"	
"	9126	"	"	
"	9128	"	"	
"	9146	"	"	
"	9148	"	"	
"	9150	"	"	
"	9169	"	"	
"	9171	"	"	
"	9173	"	"	
"	9175	"	"	
"	9177	"	"	
"	9179	"	"	
"	9181	"	"	
"	9183	"	"	
"	9185	"	"	
Wolfcamp	9962	1/2"	Jet	
"	9968	"	"	
"	9970	"	"	
"	9972	"	"	
"	9977	"	"	
"	9994	"	"	
"	9996	"	"	
"	10026	"	"	
"	10030	"	"	
"	10032	"	"	

PERFORATIONS - (Cont'd.)

<u>Zone</u>	<u>Depth</u>	<u>Size</u>	<u>Kind</u>	<u>Remarks</u>
Devonian	11972-11982	1/2"	Jet	
"	11994-12002	"	"	
"	12014-12028	"	"	

SEP 24 10 21 AM '64

CORE RECORD

None