

# 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 12,390 feet, and from feet to feet.  
Cable tools were used from feet to feet, and from feet to feet.

## PRODUCTION

Abo: 3/21/63  
Put to Producing: Wolfcamp: 3/17/63  
Penn: 3/12/63, 19

OIL WELL: The production during the first 24 hours was See Sheet # 2 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. Rustler	1552		T. Devonian	12274	
T. Anhy.	1733		T. Silurian		
T. Salt	2682		T. Montoya		
B. Salt	2840		T. Simpson		
T. Yates	3755		T. McKee		
T. 7 Rivers	4432		T. Ellenburger		
T. Queen	5891		T. Gr. Wash		
T. Grayburg	5994		T. Granite		
T. San Andres	6262		T.		
T. Glorietta	7279		T.		
T. Wolfcamp	7964		T.		
T. Penn	9303		T.		
T. Miss	10325		T.		
T. Woodford	11492		T.		
	12101		T.		

## FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	365	365	Caliche & Red Bed	9197	9251	54	Core #3
365	1479	1114	Red Bed	9251	9300	49	Core #4
1479	1988	509	Anhydrite & Salt	9300	9335	35	Core #5
1988	2147	159	Anhydrite	9335	9564	229	Lime & Shale
2147	2682	535	Anhydrite & Salt	9564	9602	38	Core #6
2682	3234	552	Anhydrite	9602	9626	24	Core #7
3234	3903	669	Anhydrite & Gyp	9626	9646	20	Core #8
3903	4018	115	Lime	9646	9674	28	Core #9
4018	4078	60	Anhydrite, Gyp & Lime	9674	9701	27	Core #10
4078	4149	71	Anhydrite & Lime	9701	9764	63	Lime & Chert
4149	5567	1418	Lime	9764	9785	21	Core #11
5567	5699	132	Dolomite	9785	9855	70	Lime & Chert
5699	5857	158	Lime & Sand	9855	11180	1325	Lime & Shale
5857	5933	76	Dolomite	11180	11207	27	Core #12
5933	7638	1705	Lime	11207	11256	49	Core #13
7638	7679	41	Dolomite	11256	11413	157	Lime & Shale
7679	7715	36	Lime	11413	11423	10	Core #14
7715	7784	69	Lime & Chert	11423	11515	92	Lime & Shale
7784	7820	36	Lime & Dolomite	11515	12004	489	Lime & Chert
7820	7899	79	Lime	12004	12290	286	Lime & Shale
7899	8136	237	Lime & Sand	12290	12390	100	Lime & Dolomite
8136	9038	902	Lime				
9038	9130	92	Lime & Shale				
9130	9184	54	Core #1				
9184	9197	13	Core #2				

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.

June 14, 1963

Company or Operator: Socony Mobil Oil Company, Inc. Address: Box 2406, Hobbs, New Mexico  
Name: J. J. McDaniel Position or Title: Group Supervisor

SUMMARY OF OPERATIONS

12/3/62 Commenced drilling operations (spud date).  
 12/4/62 Set 365' of 13-3/8" surface casing.  
 12/4/62 Tested 13-3/8" casing.  
 12/14/62 Set 4288' of 9-5/8" casing topped w/112' of 10-3/4" casing.  
 12/15/62 Tested 9-5/8" casing.  
 1/4/63 Cored #1 9130-9184, Rec. 51'.  
 1/5/63 Cored #2 9184-9197, Rec. 13'.  
 1/6/63 Cored #3 9197-9251, Cored #4 9251-9300.  
 1/7/63 Cored #5 9300-9335.  
 1/9/63 Cored #6 9564-9602.  
 1/10/63 Cored #7 9602-9626.  
 1/10/63 Cored #8 9626-9646.  
 1/11/63 Cored #9 9646-9674.  
 1/12/63 Cored #10 9674-9701.  
 1/15/63 Cored #11 9764-9785.  
 1/18/63 Welex ran Guard Log, caliper, GR-Acoustic & Frac Finder Logs 4400-10,063.  
 1/30/63 Cored #12 11,180-11,207.  
 1/31/63 Cored #13 11,207-11,256.  
 2/1/63 DST #1 Penn. 11,232-11,330.  
 2/2/63 DST #2 (Rerun) 11,231-11,332.  
 2/6/63 DST #3 (Penn) 11,380-11,413.  
 2/7/63 Cored #14 11,413-11,423.  
 2/10/63 Welex ran GR-Acoustic, ES, Induction & Contact Logs to 11,498'.  
 2/11/63 Worth Well ran caliper Log 4288 to 11,498'.  
 2/13/63 Set 11,444' of 7-5/8" casing topped w/71' of 8-5/8" casing.  
 2/15/63 Tested 7-5/8" casing w/2500# for 30 mins.  
 3/2/63 DST #4 (Dev.) 12,272-12,290.  
 3/3/63 DST #5 (Dev.) 12,290-12,390.  
 3/5/63 Welex ran GR-Acoustic & IES Logs to 12,386'.  
 3/5/63 Halliburton spotted 50 sx cement 12,390-12,112' and 90 sx Trinity Inferno cement 11,550-11,150. WOC 12-1/2 hrs.  
 3/6/63 Drilled cement 11,150-11,450'. Perf. 7-5/8" csg. 6620 w/2-1/2" holes. Broke circ. Set HOWCO. DM retainer @ 6430', cem w/860 sx Trinity Lite-wate cement. Circ cement. WOC 12 hrs.  
 3/7/63 Drilled cement & retainer 6430-6622. Tested perfs. @ 6620 w/3000# for 30 mins. Tested OK.  
 3/8/63 Released Leatherwood Drilling rig.  
 3/11/63 Moved in & rigged up DA&S Unit  
 3/11/63 The Western Co. ran GR-Collar Log 7000-11,442.  
 3/11/63 The Western Co. perf. 7-5/8" casing (Penn.) 11,372; 11,374; 11,376; 11,378; 11,380; 11,382; 11,384; 11,386; 11,388; 11,390; 11,392; 11,394; 11,396; 11,398 & 11,400 w/1 Jet SPF (15 holes).  
 3/12/63 Ran 2-3/8" tbg. w/pkr. to 11,372. Pkr. @ 11,303. Swab & flow 48 bbl. mud + 70 BNO in 5 hrs. 14/64" ch. TP 2200#.  
 3/13/63 Killed well & pulled 2-3/8" tbg. The Western Co. set Baker Model D pkr. @ 11,350 w/knock out plug in place. Set retrievable BP @ 11,332'.  
 3/14/63 The Western Co. perf 7-5/8" csg. (Wolfcamp) 9790, 9792, 9794, 9796, 9862, 9864, 9866 & 9868 w/1 Jet SPF. Ran 2-3/8" tbg. to 9790' w/Baker Full bore pkr. @ 9721'. Swab 41 BLW in 7 hrs. Swab dry 6 hrs.  
 3/15/63 BJ Service acidized perfs. 9790-9868 w/5000 gal. acid kerosene emulsion.  
 3/17/63 Pulled 2-3/8" tbg. The Western Co. perf. 7-5/8" csg. (Wolfcamp) 9608, 9610, 9612, 9614, 9616, 9618, 9620, 9622, 9624, 9672, 9674, 9676, 9678, 9680 w/ 1 Jet SPF.  
 3/17/63 Ran 2-3/8" tbg. to 9600 w/Baker pkr. @ 9538'. Swab & flow 94 BLW + 74 BNO in 13 hrs.  
 3/18/63 BJ Service acidized perfs. 9608-9868 w/7500 gal. acid kerosene emulsion (85% acid + 15% kerosene) + 10 RCN Ball Sealers.  
 3/20/63 Killed well. Retrieved & reset BP @ 9536'. Pulled tbg. & pkrs.  
 3/20/63 Frontier ran cement bond Log 8000-9505, indicated good bond.  
 3/20/63 Frontier perf. 7-5/8" csg. (Abo) 9205, 9207, 9209, 9211, 9213, 9216, 9218, 9221, 9223, 9226, 9230, 9232, 9234, 9241, 9244, 9246, 9250, 9252, 9254, 9256, 9258 w/1 Jet SPF.  
 3/20/63 Ran Retrievable head to 9201, Baker Full bore pkr. @ 9137' on 2-3/8" tbg. Swab 35 BLW in 5 hrs. Swab dry 4 hrs.  
 3/21/63 BJ Service acidized perfs. 9205-9258 w/1000 gal. 15% Acid.  
 3/22/63 Dowell acid-frac perfs. 9205-9258 w/8000 gal. acid kerosene (90% acid + 10% kerosene) + 10 RCN Ball Sealers.

Summary of Operations (Cont.)

3/25/63 Ran 2-3/8" tbg. to 11,334, hit bridge. Pulled tbg. & pkr. Ran 2-3/8" tbg with bit to 11,333'. Clean out by reverse circ. to 11,350'.

3/26/63 Pulled 2-3/8" tbg. & bit. Ran 2-3/8" Penn. tbg. w/Baker Seal assembly & Brown oil tool, dual pkr. & parallel Anchor to Model D pkr. @ 11,350, knocked out knockout plug. Tested tbg. w/4000#. Tested OK. Dual pkr. @ 9401, parallel anchor @ 9273.

3/27/63 Ran 2-3/8" Wolfcamp tbg. to parallel anchor @ 9273'. Could not get tbg. thru parallel anchor.

3/28/63 Ran & landed 2-3/8" Abo tbg. in parallel anchor @ 9273'. Landed Wolfcamp tbg. in dual pkr. @ 9401'. Install Xmas tree. HOWCO. set Brown Oil Tool pkr. w/Ball down Wolfcamp tbg.

3/28/63 Penn. Perfs. 11,372-11,400  
Flow 40 BLW + 4 Bbl. mud in 1 hr. Shut in 137 hrs. On NMOCC Pot. Test flow 272 BNO in 24 hrs. 8/64" choke. Gty 49.5 TP 3300#. Shut in 124 hrs. for Packer Leakage test. Flow on Packer Leakage test 271 BNO in 24 hrs. Flow 4484 BNO in 405 hrs. 11/64" choke. TP 3325.

Wolfcamp Perfs. 9608-9868  
Swab & Flow 158 BNO + 232 BLW in 33 hrs. Shut in 36 hrs.  
Swab & Flow 256 BNO + 98 BLW in 33 hrs. Shut in 24 hrs.  
Swab & flow 586 BNO + 83 BLW in 76 hrs. Shut in 91 hrs. for Packer Leakage test.  
On NMOCC Pot. Test flow 346 BNO + 15 BLW in 24 hrs. 24/64" ch. TP 173 Gty 40.2 @ 60. Shut in 408 hrs.

Abo Perfs. 9205-9258  
Shut in 34 hrs. Swab & flow 309 BLO + 128 BAW in 36 hrs.  
Shut in 21 hrs. Swab & flow 186 BNO + 16 BLW in 24 hrs. Shut in 48 hrs. Swab & flow 309 BNO + 27 BLW in 44 hrs. Shut in 24 hrs.  
On Packer Leakage test flow 4 BNO + 1 BLW in 24 hrs. Shut in 816 hrs. On NMOCC Pot. Test flow 282 BNO + 7 BLW in 24 hrs. 16/64" ch. Gty 40.3 @ 60°. TP 325. CP 1425#.

PERFORATIONS

<u>Zone</u>	<u>Depth</u>	<u>Size</u>	<u>Kind</u>
Penn.	11,372	1/2"	Jet
"	11,374	"	"
"	11,376	"	"
"	11,378	"	"
"	11,380	"	"
"	11,382	"	"
"	11,384	"	"
"	11,386	"	"
"	11,388	"	"
"	11,390	"	"
"	11,392	"	"
"	11,394	"	"
"	11,396	"	"
"	11,398	"	"
"	11,400	"	"
Wolfcamp	9,608	1/2"	Jet
"	9,610	"	"
"	9,612	"	"
"	9,614	"	"
"	9,616	"	"
"	9,618	"	"
"	9,620	"	"
"	9,622	"	"
"	9,624	"	"
"	9,672	"	"
"	9,674	"	"
"	9,676	"	"
"	9,678	"	"
"	9,680	"	"
"	9,790	"	"
"	9,792	"	"
"	9,794	"	"
"	9,796	"	"
"	9,862	"	"
"	9,864	"	"
"	9,866	"	"
"	9,868	"	"

<u>Zone</u>	<u>Depth</u>	<u>Size</u>	<u>Kind</u>
Abo	9,205	1/2"	Jet
"	9,207	"	"
"	9,209	"	"
"	9,211	"	"
"	9,213	"	"
"	9,216	"	"
"	9,218	"	"
"	9,221	"	"
"	9,223	"	"
"	9,226	"	"
"	9,230	"	"
"	9,232	"	"
"	9,234	"	"
"	9,241	"	"
"	9,244	"	"
"	9,246	"	"
"	9,250	"	"
"	9,252	"	"
"	9,254	"	"
"	9,256	"	"
"	9,258	"	"

CORE RECORD

<u>No.</u>	<u>Date</u>	<u>From</u>	<u>To</u>	<u>Formation</u>	<u>Remarks</u>
#1	1/4/63	9,130	9,184		Rec. 51'. 9130-42 Dolo, no show. 9142-45 Dolo scattered show. 9145-60 Dolo, no show. 9160-67 Dolo scattered show. 9175-81 Dolo no show.
#2	1/5/63	9,184	9,197		Rec. 13' Dolo, no show. Core Bbl. jammed.
#3	1/6/63	9,197	9,251	Abo	Rec. 51'. 9197-99 Dolo, no show. 9199-9204 Dolo, show. 9204-07 Dolo, no show. 9207-14 Dolo, show. 9214-15 no show. 9215-18 Dolo show. 9218-29 Dolo, no show. 9229-30 show. 9230-44 Dolo no show. 9244-45 show. 9245-9249 Dolo, no show.
#4	1/6/63	9,251	9,300	Abo	Rec. 49'. 9251-63 Dolo, show. 9263-9300 Dolo, no show.
#5	1/7/63	9,300	9,335	Abo	Rec. 35'. 17' Dolo, show. 17' Dolo, no show. 1' Shale.
#6	1/9/63	9,564	9,602	Wolfcamp	Rec. 34'. 22.8' Lime & Shale no show. 4' of Lime & Shale & green Shale, no show. 2' Lime & Shale bldg. SW, no show. 6' Bleeding oil & Gas, fair show.
#7	1/10/63	9,602	9,626	Wolfcamp	Rec. 15'. 7' Lime, no show. 8' Lime, show. Lost 9'.
#8	1/10/63	9,626	9,646	Wolfcamp	Rec. 17-1/2'. 3' Lime, show. 10' Lime, no show. 4-1/2' Lime & broken Shale, no show.
#9	1/11/63	9,646	9,674	Wolfcamp	Rec. 25' Lime & Chert, no show.
#10	1/12/63	9,674	9,701	Wolfcamp	Rec. 27' Lime & Shale, no show.
#11	1/15/63	9,764	9,785	Wolfcamp	Rec. 20' Lime, no show.

Core Record (Cont.)

<u>No.</u>	<u>Date</u>	<u>From</u>	<u>To</u>	<u>Formation</u>	<u>Remarks</u>
#12	1/30/63	11,180	11,207	Penn.	Rec. 25'. 21' Black Shale, no show. 1' Lime, no show. 3' tight sand, no show.
#13	1/31/63	11,207	11,256	Penn.	Rec. 47'. 11,207-222 Black Shale no show. 11,222-237 tight Lime Sand, no show. 11,237-254 Black Shale, no show.
#14	2/7/63	11,413	11,423	Penn.	Rec. 9'. 1-1/2' Dense Lime, 7-1/2 Black Shale, no show.

DRILL STEM TESTS

2/1/63	DST #1 Penn. Formation. Packers failed.
2/2/63	DST #2 Penn. Formation 11,231-11,332. Tool open 2-1/2 hrs, 5/8" x 1" choke. Open w/good blow. Gas to surface 1 hr. Rec. in drill pipe 1890' fluid. 630' O & G cut mud. 1260' SW. Surface FP 0. IBHFP 335#. FBHFP 533#. 2-1/2 hr FBHSIP 4371# HH 5602 in & 5396 out. BHT 160°. 30 min. IBHSIP 5541#.
2/6/63	DST #3 Penn. Formation 11,380-11,413. 2000' water cushion. Tool open 1 hr. 5/8" x 1/4" choke. Open w/strong blow. Gas to surface in 15 mins. Water cushion to surface in 7 mins., Dist. in 19 mins. Flow 10 Bbl. Distillate in 30 mins. 16/64" choke. TP 3200#. Surf. FP 3200#. IBHFP 3090#, FBHFP 5625#. 2 hr. BHSIP 6490#. HH 6740 in and out. BHT 176. 30 min. BHSIP 6490#.
3/2/63	DST #4 Devonian Formation 12,272-12,290. No WC. Tool open 1-1/2 hrs. 5/8" x 1" choke. Open w/weak blow, died in 5 mins. Rec. 100' drlg. fluid. SFP 0, IBHFP 73#. FBHFP 93# 3 hrs. FBHSIP 112#. HH 6047 in and 6028 out. BHT 183°.
3/3/63	DST #5 Devonian Formation 12,290-12,390. No WC. Tool open 2 hr. 43 min. 5/8" x 1" choke. Open w/weak blow, continuing throughout test. Rec. 270' drlg. mud + 2070' mud cut salt water. SFP 0. IBHFP 73#, FBHFP 1095#. 4 hr. BHSIP 4849#. HH 6067 in and 6047 out. BHT 186°. 30 min. IBHSIP 4986#.

ACIDIZING RECORD

3/15/63	BJ Service acidized Wolfcamp perms. 9790-9868 w/5000 gal. acid kerosene emulsion. Breakdown pr. 6900#. Treating pr. 7000-8000#. Rate 5.4 BPM. ISIP 4200#. SI 12 hrs. TP 300#. Swab & flow 38 BLO + 92 BAW + 193 BNO in 27 hrs. 32/64" choke. TP 100#.
3/18/63	BJService acidized Wolfcamp perms. 9608-9868 w/7500 gal. acid kerosene emulsion (85% acid + 15% kerosene) + 10 Ball Sealers. Breakdown pr. 4200#. trt. pr. 5200-1100. Rate 5.7 BPM ISIP 1100#. 5 min SIP 800#. SI 11 hrs. TP Vac. Swab & flow 38 BLO + 40 BAW + 256 BNO in 24 hrs. 18/64" choke. TP 520#.
3/21/63	BJ Service acidized Abo perms. 9205-9258 w/1000 gals. 15% acid. Breakdown pr. 5400#, Treating pr. 6400#. Rate 3 BPM. ISIP 4500#. Swab & flow 18 BAW + 36 BLO + 46 BNO in 18 hrs.
3/22/63	Dowell acid frac Abo perms. 9205-9258 w/8000 gal. acid kerosene (90% acid + 10% kerosene) + 10 RCN ball sealers. Break down pr. 4000#, treating pr. 7500-8100#. Rate 6 BPM. SI 11 hrs. TP 1400#. Swab & flow 38 BLO + 169 BNO + 53 BAW in 24 hrs.