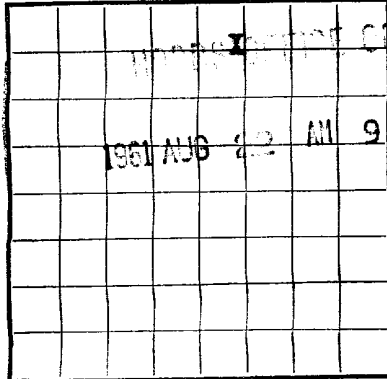


U. S. LAND OFFICE **Las Cruces**

SERIAL NUMBER **LC-069302**

LEASE OR PERMIT TO PROSPECT



NOTED

AUG 21 1961

GORDON

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **TEXACO Inc.** Address **P. O. Box 728 - Hobbs, New Mexico**

Lessor or Tract **Western Natural Federal** Field **Wildcat** State **New Mexico**

Well No. **1** Sec. **5** T. **9-S** R. **36-E** Meridian **NMPM** County **Lea**

Location **660** ft. **N** of **1/4** Line and **1980** ft. **E** of **1/4** Line of **Section 5** Elevation **4099'** (DB)
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date **August 17, 1961**

Title **Assistant District Superintendent**

The summary on this page is for the condition of the well at above date.

Commenced drilling **April 25**, 19**61** Finished drilling **August 3**, 19**61**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **None** to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ No. 5, from _____ to _____

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

Drilled with rotary tools and no water sands tested.
IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

SEE ATTACHED SHEET

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
13-3/8	18.00	5	Howco	187	None	None	None	None	None
9-5/8	11.00	5	Howco	139	None	None	None	None	None

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	500	600	Howco		
9-5/8	1155	1980	Howco		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from **0** feet to **12521** feet, and from _____ feet to _____ feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

P+H, 19____ Put to producing _____, 19____

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

H. A. Porter, Driller **K. W. Munsterlyn**, Driller

H. A. McDonald, Driller _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
			SEE ATTACHED SHEET
			SEE ATTACHED SHEET

(OVER)

WELL RECORD FOR WESTERN NATURAL FEDERAL NO. 1

Formation Record:

From	to	Total Feet	Formation
0	500	500	Caliche
500	840	340	Redbed
840	2036	1196	Redbed & Anhy
2036	2883	847	Anhy & Gyp
2883	3126	243	Anhy Gyp & Salt
3126	3620	494	Anhy & Gyp
3620	4003	383	Redbed & Anhy
4003	4119	116	Anhy, Gyp & Lime
4119	5685	1536	Lime
5685	5868	183	Lime & Anhy
5868	6141	273	Lime
6141	6239	98	Lime & Anhy
6239	6382	143	Lime
6382	6485	103	Lime & Anhy
6485	6942	457	Lime
6942	7332	390	Lime & Sand
7332	7770	438	Lime
7770	8120	350	Lime & Shale
8120	8490	370	Shale
8490	9041	551	Shale & Lime
9041	9294	253	Lime & Chert
9294	9446	152	Lime
9446	10092	646	Lime & Shale
10092	10328	236	Lime
10328	11206	878	Lime & Shale
11206	11218	12	Lime & Chert
11218	12104	886	Lime & Shale
12104	12131	27	Lime, Shale & Sand
12131	12193	62	Lime & Shale
12193	12230	37	Lime, Shale & Sand
12230	12451	221	Lime & Shale
12451	12521	70	Sand, Lime & Shale
Total Depth	12521		

All measurements from rotary table or 12' above ground level.

Estimate No. 7379

- 4 - USGS
- 1 - NMOCC
- 1 - James L. Posey, Socony-Mobil Oil Company, Inc.
P. O. Box 820, Roswell, New Mexico
- 1 - Mr. R. H. McKay, Western Natural Gas Company
823 Midland Tower Building, Midland, Tex.
- 1 - Field
- 1 - Division
- 1 - File

FORMATION TOPS

Top of Anhy	2258
Yates	2815
San Andres	4065
Glorieta	5513
Tubb	6950
Abo	7755
Wolfcamp	9138
Cisco	9742
Strawn	10732
Atoka	11535

DEVIATION RECORD

Depth	Degrees off
200'	3/4
500'	1 1/4
1200'	1
1940'	3/4
2210'	1 3/4
2750'	1
3640'	1
3990'	1/2

DEVIATION RECORD (Continued)

4490'		3/4
4830'	1	
5070'		1/4
5590'	0	
5900'		1/4
6330'		1/2
6725'		1/4
7150'	1	
7475'		1/2
7955'		1/2
8345'	1	
8710'	1	
9135'		3/4
9670'	1	
10110'		3/4
10495'		1/2
10840'		1/4
11250'		3/4
11700'		3/4
12080'	1	1/4
12400'	1	
12521'	1	

WELL RECORD WESTERN NATURAL FEDERAL WELL NO. 1

Spudded 17-1/2" hole 10:15 P.M. 4-25-61. Ran 487' of 13-3/8" O.D. casing and cemented at 500' with 600 sx Regular. Plug at 480'. Cement circulated. Tested before and after drilling plug for 30 minutes with 600 PSI. Tested O.K. Job complete 8:00 A.M. April 28, 1961.

Ran 4139' of 9-5/8" O.D. casing and cemented at 4155' with 1780 sx 4% Gel Incor and 200 sx Regular. Plug at 4119'. Cement circulated. Tested before and after drilling cement plug for 30 minutes with 1000 PSI. Tested O.K. Job complete 1:45 P.M. May 6, 1961.

- DST #1 5023' to 5073' weak blo & died. No gas or fluid to surface. Rec 30' of SGCDM w/very slight trace oil. 30 MI & FSIP 55# HI & HO 2525#, IF & FF 25# complete 9:45 P.M. 5-10-61.
- DST #2 5230' to 5300' tool op 2 hrs w/fair blo diminishing to weak blo at end of test. Rec total of 1186' fluid, inc 376' DM 270' SGCDM & 500' SW. 30 MISI 1865, 30 MFSI 1720, HI & HO 2660, IF 205, FF 266. Complete 5-13-61.
- DST #3 9682' to 9728' (46') tool open 1 hr, few bubbles air & died. Rec 330' SGCDM & SW. 30 MISIP 3680# 30 MFSIP 3900# HI & HO 5270#. IF 140# FF 180# Complete 7:30 P.M. 6-12-61.
- DST #4 9732' to 9791' (59') tool open 2 hrs w/good blow of air, gas to surf in 5 min. Gas vol 150 MCFPD. Rec 9200' of fluid, 1200' HO & GCSW (30% Distl) 7000' O & GCSW (20% Distl) & 1000' SW. 30 MISIP 3015#, 30 MFSIP 3015#. IF 1680#. FF 3000#. HI 5160#. HO 5115#. Complete 3:00 P.M. 6-14-61.
- DST #5 10734 to 10783'. Tool open 1 hr w/no blow. Rec 1700' WB & 45' SGCDM. IF & FF 45#. HI & HO 5940#. 30 MSIP 155#. 30 MFSIP 65#. Complete 3:00 P.M. 6-25-61.
- DST #6 11335' to 11407'. Tool open 2 hrs weak blow & died in 40 min. Rec 2000' WB & 360' DM NS. 30 MISI 1520# HI 6250# HO 6020# 30 MFSI 1300# IF & FF 1190# complete 5:15 P.M. 7-7-61.
- DST #7 11568' to 11609'. Ran 2000' WB. Tool open 2 hrs, no blow. Rec 2000' WB & 100' DM, NS. 30 MISI 52# HI 6560# IF & FF 52# HO 6521# 30 MFSI 52#. Complete 2:30 P.M. 7-12-61.
- DST #8 12031' to 12085'. Tool open 30 min. Rec 2500' of WB & 1320' DM. 30 MISIP 190# IF 20#. HI 6400# HO 6390# FF & FSIP no rec. Complete 12:35 P.M. 7-23-61.
- DST #9 12124' to 12146'. Ran 2400' WB. Tool open 2 hrs, no blow. Rec 2400' WB, 45' GCDM. 30 MISIP 465# 30 MFSIP 925# HI & HO 6855# IFP 85# FFP 855#. Complete 12:45 P.M. 7-25-61.

Ran Electric Logs 8-1-61.

Spot Plugs as Follows: #1, 40 sx 12370' to 12470'
#2, 45 sx 11485' to 11585'
#3, 65 sx 10950' to 11050'
#4, 95 sx 9716' to 9816'
#5, 60 sx 9094' to 9194'
#6, 60 sx 7707' to 7807'
#7, 60 sx 6900' to 7000'
#8, 60 sx 5468' to 5568'
#9, 95 sx 4105' to 4205'

Spot 15 sx surface plug inside 13-3/8" O.D. Casing, install 4" marker extending 4' above ground level as per U.S.G.S. Regulations. Clean location for U.S.G.S. inspection. Plug and abandon completed 11:00 A.M. August 5, 1961.