

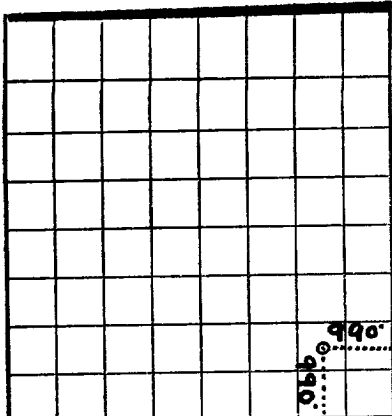
SERIAL NUMBER

OWEN-FEDERAL LEASE, well #1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JUL 31 1953
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

Company Magnolia Petroleum Company Address P.O. Box 633- Midland, Texas
Lessor or Tract OWEN-FEDERAL LEASE Field Lindrith State New Mexico
Well No. 1 Sec. 9 T. 24N R. 2W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. N of S Line and 990 ft. E of E Line of Sec 9 Elevation 7286
(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.

Date July 29, 1953

Signed Harve H. Mayfield
Title Asst. Division Sup't

The summary on this page is for the condition of the well at above date.
Commenced drilling May 12, 1953 Finished drilling June 27, 1953

OIL OR GAS SANDS OR ZONES

No. 1, from 2995 to 3100 - Ojo Alamo - No Shows No. 4, from 3410 to 3450 - No Shows
No. 2, from 3204 to 3337 - Fruitland - No Shows No. 5, from _____ to _____
No. 3, from 3337 to 3344 - Pictured Cliffs - No Shows No. 6, from _____ to _____

IMPORTANT WATER SANDS

There were no important water sands encountered.
No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From-	To-	
10 3/4	35.75	8 RT	Gr. B	275	Hallib.	Left in Hole			
6 5/8	19.50	8 RT	Rep.	3262	Hallib.	523' (2739' Left in Hole)			
5"	14.77	8 RT	Rep.	164	Hallib.	116' Left in Hole			
HICKOK OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used	
					Plug	Plug
10 3/4	275'	250 Sx	Pump & Plug	10#	Hole Full	Between Plug
6 5/8	3262'	550 Sx	Pump & Plug	10#	Hole Full	Between Plug
5"	3344'	40 Sx	Pump & Plug	10#	Hole Full	Between Plug

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____
Adapters—Material None Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
(Dump-Shot)		#2 Solidified Nitro-Glycerine	220 Qts	6-30-53	3410-3352	3410'

TOOLS USED

Rotary tools were used from 0 feet to 3450 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing July 10, 1953
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

Marshall Drilling Co., Driller
c/o Avery Hotel, Driller
Farmington, New Mexico

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	75	75	Surface Sandstone
75	100	25	Quick Sand
100	3235	3135	Sand & Shale
3235	3237	2	Sand
3237	3259	22	Shale
3259	3289	30	Gray & Black Shale W/coal Inclusions
3289	3319	30	Black & Gray Carbonated Sh & Coal
3319	3329	10	Black Shale & Coal
3329	3337	8	Very fine grain shaley gray mud
3337	3344	7	Medial grain salt & pepper gray quartz- w/white Clay matrix
3344	3450	106	Sand & Shale

Formation Summary

Formation

Ojo Alamo
Fruitland
Pictured Cliffs
Lewis

Top

2995'
3204'
3337'
3410'

DRILL STEM TESTS

DATE	FROM	TO	TOOL SET	CHOKES TOP	BOTTOM	WATER CUSHION	TIME TESTED
5-24-53	2950	3100	Open Hole	2950	1" 5/8"	None	1 Hr

(Ojo Alamo.) Used 2 packers, nothing to surface, strong blow of air for 30 min, Died, Recovered 300' Drig mud, 1560' blackish water, SFP Zerp, BHFP 80-860#, Closed 15 min. SIBHP 860#. RH: 1445# in & out.

PERFORATING AND SQUEEZE RECORD

(June 6, 1953). At 3247', blew hole w/air 3 hrs, 40' of water in hole, set Howco Drillable Retainer at 3180, Squeezed Open Hole 3235 - 3247 w/100 sacks, 3500#, Rev out 15 sacks, Drilled to 3257, Water in Hole.

(June 9, 1953). At 3257', Water in hole, Set Howco Drillable Retainer at 3220, Attempt to squeeze open hole 3235 - 3257 w/140 sacks, Cement on vacuum, WOC 5 hrs, Attempt to squeeze w/100 sacks, 400# pressure, Cleared tool, WOC 5 hrs, Re-Squeezed w/150 sacks neat, 3500#, Reversed out 5 sacks. WOC 7 hrs

(June 10, 1953). HOWCO Perf 6 5/8" casing at 3200' w/3 1/2" holes(Bullet), Set Howco Drillable Retainer at 3170, Squeezed perforations w/300 Sx of neat, 4200# pressure, Rec 30 Sx, WOC 48 hrs, Drilled to 3220, Tested w/1000# for 30 min, No Break

Core Record

No.	Date	From	To	Recovered	Description of Core
#1	6-17-53	3259	3274	15'	Gray and Black Shale w/coal incls- No Shows
#2	6-17-53	3274	3289	15'	Gray and Black Shale w/coal incls- No Shows
#3	6-18-53	3289	3304	15'	Black and Gray carbonated shale & Coal. No Shows.
#4	6-18-53	3304	3319	15'	Black and Gray carbonated shale & coal. No Shows.
#5	6-19-53	3319	3329	10'	3319-3328 1/2 Black shale & coal. no Shows. 3328 1/2-3329 Fine grain gray sand w/coal incls, No shows.
#6	6-19-53	3329	3344	15'	3329-3337 Very fine grain shaley gray sand-No Shows 3337-3344 Medium grain salt & pepper gray quartz w/white clay matrix.

ACIDIZING OR OTHER COMPLETION OPERATION

6-30-53 Specialty Shooting Company shot 3410 - 3552 w/220 Qts #2 solidified Nitro. clean out after shot to 3410, 3000' water in hole.

SUMMARY OF OPERATIONS

5-2-53 Location Staked
5-12-53 Commenced drilling 5-12-53
5-14-53 Set 10 3/4" Csg @275' w/250 Sx Cement
5-24-53 Ran Schlumberger Electrical Log #1
5-24-53 DST #1 Ojo Alamo
5-25-53 Ran Schlumberger Electrical Log #2
5-26-53 Ran Schlumberger Electrical Log #3
5-26-53 Set 6-5/8" Csg @ 3235' w/550 Sx Cement
5-27-53 Ran Halliburton Temperature Survey to 3206'
6-5-53 Ran Schlumberger Electrical Log
6-6-53 Squeezed Open Hole 3235 - 3247 w/100 Sx Cement
6-9-53 Squeezed Open Hole 3235 - 3247 w/140Sx plus 100 plus 150Sx
6-17-53 Cored 3259 to 3274 and 3274 to 3289
6-18-53 Cored 3289 to 3304 and 3304 to 3319
6-19-53 Cored 3319 to 3329 and 3329 to 3344
6-23-53 Set 164' of 5" liner @ 3344'. Top 3180' w/40 Sx Cement
6-27-53 Drilling Completed TD 3450'. (Drilled w/Air from 3235 to 3450.)
6-28-53 Ran Schlum Gamma Ray Log to 3450'
6-30-53 Shot: 3410 to 3352 w/220 Qts.
7-7-53 Commence Plugging
7-10-53 Plugged and Abandoned.