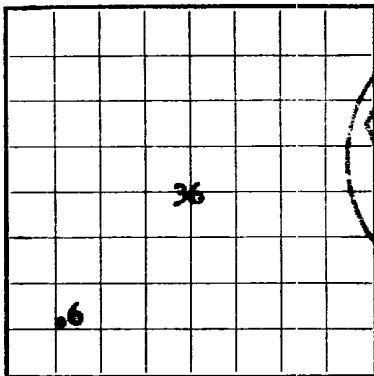
U. S. LAND OFFICE Alvarilla Tribal
SERIAL NUMBER Contr. #95-Tr. #184
LEASE OR PERMIT TO PROSPECT Alvarilla "G"UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Magnolia Petroleum Company Address P. O. Box 2406, Hobbs, New Mexico
Lessor or Tract Alvarilla "G" Field Alvarilla State New Mexico
Well No. 6 Sec. 36 T. 27N R. 3W Meridian N.M.P.M. County Alvarilla
Location 990 ft. N. of 1 Line and 990 ft. E. of 4 Line of Sec. 36 Elevation 7134
(Derrick floor relative to datum)

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 G. S. Young, Jr. Title District SuperintendentDate September 3, 1958

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

Commenced drilling July 3, 1958 Finished drilling July 18, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from (G) 3712 to 3794 No. 4, from _____ to _____
No. 2, from (G) 5518 to 6008 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

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—	
<u>10 3/4</u>	<u>40.50</u>	<u>8-RT</u>	<u>J-55</u>	<u>290'</u>					<u>Surface String</u>
<u>7 5/8</u>	<u>26.40</u>	<u>8-RT</u>	<u>J-55</u>	<u>1796'</u>			<u>3712</u>	<u>3794</u>	<u>Intermediate</u>
<u>5</u>	<u>15</u>	<u>8-RT</u>	<u>J-55</u>	<u>2848'</u>			<u>5518</u>	<u>6008</u>	<u>Prod. String</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10 3/4</u>	<u>290'</u>	<u>240</u>	<u>Pump & Plug</u>		
<u>7 5/8</u>	<u>3796'</u>	<u>125</u>	<u>" "</u>		
<u>5</u>	<u>6075'</u>	<u>225</u>	<u>" "</u>		

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 6075 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing 8-31-58

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 See Below Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>3274</u>	<u>3475</u>	<u>201</u>	<u>Ojo Alamo</u>
<u>3475</u>	<u>3698</u>	<u>223</u>	<u>Kirtland Fruitland</u>
<u>3698</u>	<u>3805</u>	<u>107</u>	<u>Pictured Cliffs</u>
<u>3805</u>	<u>5502</u>	<u>1697</u>	<u>Louis</u>
<u>5502</u>	<u>5590</u>	<u>88</u>	<u>Cliff House</u>
<u>5590</u>	<u>5891</u>	<u>301</u>	<u>Mancos</u>
<u>5891</u>	<u>6038</u>	<u>147</u>	<u>Point Lookout</u>
<u>6038</u>	<u>6075</u>	<u>37</u>	<u>Mancos</u>

PERFORATIONS

Perforate Pictured Cliffs same as follows: 3712-24, 3738-44, 3761-69, 3781-92 w/72 shots.Perforate Cliff House to Mancos as follows: 5518-27, 5540-56, 5566-88, 5892-5905, 5942-57, 5997-6008, w/162 shots.

POTENTIAL

Pictured Cliffs same shut-in 910# Tubing pressure after 160 hours, tested 3 hours on 3/4" choke. Calculate Absolute Open Flow 3103 MCF/day.Mesa Verde same shut-in TP: 340# after 298 hours, tested 3 hours on 3/4" choke. Calculate Absolute Open Flow 5046 MCF/day.

Continued.....

(OVER)

16-43094-4

FORMATION RECORD-Continued

FROM-	TO-	TOTAL FEET	FORMATION
1000	1000	0	Gravelly sandstone, yellowish, medium bedded, 10' thick.
950	1000	50	Gravelly sandstone, yellowish, medium bedded, 10' thick.
900	1000	100	Gravelly sandstone, yellowish, medium bedded, 10' thick.
850	1000	150	Gravelly sandstone, yellowish, medium bedded, 10' thick.
800	1000	200	Gravelly sandstone, yellowish, medium bedded, 10' thick.
750	1000	250	Gravelly sandstone, yellowish, medium bedded, 10' thick.
700	1000	300	Gravelly sandstone, yellowish, medium bedded, 10' thick.
650	1000	350	Gravelly sandstone, yellowish, medium bedded, 10' thick.
600	1000	400	Gravelly sandstone, yellowish, medium bedded, 10' thick.
550	1000	450	Gravelly sandstone, yellowish, medium bedded, 10' thick.
500	1000	500	Gravelly sandstone, yellowish, medium bedded, 10' thick.
450	1000	550	Gravelly sandstone, yellowish, medium bedded, 10' thick.
400	1000	600	Gravelly sandstone, yellowish, medium bedded, 10' thick.
350	1000	650	Gravelly sandstone, yellowish, medium bedded, 10' thick.
300	1000	700	Gravelly sandstone, yellowish, medium bedded, 10' thick.
250	1000	750	Gravelly sandstone, yellowish, medium bedded, 10' thick.
200	1000	800	Gravelly sandstone, yellowish, medium bedded, 10' thick.
150	1000	850	Gravelly sandstone, yellowish, medium bedded, 10' thick.
100	1000	900	Gravelly sandstone, yellowish, medium bedded, 10' thick.
50	1000	950	Gravelly sandstone, yellowish, medium bedded, 10' thick.
0	1000	1000	Gravelly sandstone, yellowish, medium bedded, 10' thick.

Block gas was present in the formation. The production for the first 2 hours was 1000 cubic feet of gas per hour. The formation was 1000 feet thick and 1000 feet wide. The formation was 1000 feet thick and 1000 feet wide. The formation was 1000 feet thick and 1000 feet wide.

TOOLS USED
Cable tools were used from 1000 feet to 1000 feet. Rotary tools were used from 1000 feet to 1000 feet.

SHOOTING RECORD	PLUGS AND ADAPTERS	MUDGING AND CEMENTING RECORD
Size Shut used	Material Length Depth set	Number sacks of cement Method used Mud gravity Amount of mud used

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and the results. If there were any changes made in the casing, state fully, and if any casing was changed, or left in the well, give its size and location. If the well has been dynamited, give date, size, depth, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or pulling.

CASING RECORD	IMPORTANT WATER SANDS	OIL OR GAS SANDS OR ZONES
No. 1 from No. 2 from	No. 1 from No. 2 from	No. 1 from No. 2 from No. 3 from No. 4 from

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

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Oil Dist. 3

Address _____
State _____
County _____
Section _____
T. _____ R. _____ E. _____
Location _____
Elevation _____

SUMMARY OF OPERATIONS

7-3-58 Commenced Drilling operations 8:00 PM, (Spud Date).
7-4-58 Set 290' of 10-3/4" Csg, cemented w/240 sks., circulated.
7-5-58 Test 10-3/4" Csg. w/800# for 30 minutes, held OK.
7-12-58 Schlumberger ran Induction and Electrical Logs.
7-13-58 Set 3996' of 7-5/8" Csg., cemented w/125 sks. cement.
7-13-58 B & R Service ran Temperature Survey. Top of cement @ 3460'.
7-14-58 Test 7-5/8" Csg. w/1000# for 30 minutes, held OK.
7-18-58 Drilled to a total depth of 6075'.
7-18-58 Schlumberger ran Induction and Gamma Ray Logs.
7-19-58 Set 2248' of 5" liner on bottom @ 6075', cemented w/225 sks. Top of liner @ 3827'.
7-19-58 B & R Service ran Temperature Survey. Top cement @ 3827'.
7-20-58 Test 5" liner w/3000# for 30 minutes, held OK.
7-20-58 Drill on junk @ 5794'. Ran Howco Magnetic basket-hit piece of stringer off BOT hanger-no recovery.
7-21-58 Ran 4 1/2" rotary shoe w/teeth 13 hours, no recovery.
7-21-58 Milled top fish 5794-99, ran magnetic basket-no recovery.
7-22-58 Ran tapered tap on 2" tbg, recover 6" of 8" of fish-left 2" in hole.
7-23-58 Drill out cement to 6045 FBTD.
7-23-58 HowCo test 5" liner w/3000# for 30 minutes, held OK.
7-23-58 Released rig 11:00 PM.
8-6-58 Rig-up completion rig and pull 2" tubing.
8-7-58 PGAC ran Radiation Log.
8-7-58 PGAC perforated 5" liner (Mesa Verde zone) 5518-6008 w/162 shots.
8-7-58 Dowell, Inc. sand-water-frac perfs 5518-6008 w/224,000 gals. water + 112,000# sand.
8-11-58 Kill well w/900 BW.
8-11-58 Set Baker Model "D" Packer @ 5484 on wireline.
8-11-58 Set retrievable bridge plug @ 3839'.
8-12-58 Welox perforated 7-5/8" Csg. (Pictured Cliffs zone) 3712-3791 w/72 shots.
8-12-58 Dowell, Inc. sand-water-frac perfs 3712-3791 w/108,000 gals. water + 54,000# sand.
8-14-58 Pull retrievable bridge plug, ran 2" tubing (Mesa Verde) + 4 Merla Gas valves to 6001'.
8-14-58 Ran 2" tubing (Pictured Cliffs) to 3782'.
8-15-58 Released rig 8:00 AM.
8-21-58 Shut-in Mesa Verde zone for potential test.
8-25-58 Shut-in Pictured Cliffs zone for potential test.
8-31-58 Potential test completed for Pictured Cliffs and Mesa Verde zones.

Journal of Management Studies, 19(1), 67-80.

[illegible]