Form 9-330

Section 18

					16

LOCATE WELL CORRECTLY

Budget Bureau No. 42-R355.5.
Approval expires 12-31-55.

U. S. LAND OFFICE **Jicarilla Tribal**
SERIAL NUMBER **Contract #159**
LEASE OR PERMIT TO PROSPECT **Jicarilla "A"**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JAN 23 1956
U.S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company **Magnolia Petroleum Company** Address **P. O. Box 633, Midland, Texas**
Lessor or Tract **Jicarilla "A"** Field **Wildcat** State **New Mexico**
Well No. **1** Sec. **18** T. **23N** R. **2E** Meridian **N.M.P.M.** County **Rio Arriba**
Location **990** ft. [N.] of **S** Line and **1650** ft. [W.] of **E** Line of **Section 18** Elevation **6911** (Derrick floor relative to sea level or gr.)

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 **R. L. Freeman**
Title **Division Superintendent**

Date **January 20, 1956**

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

Commenced drilling **July 1, 1955**, Finished drilling **November 2, 1955**

Reached Total Depth on **Nov. 2, 1955**

RECEIVED
JAN 23 1956
OIL CON. COM.
DIST. 3

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

Pictured Cliffs (Commercial Gas)			
No. 1, from **2825** to **3050**	No. 4, from ..... to		
Oranerous (Non-Commercial)			
No. 2, from **7305** to **7350**	No. 5, from ..... to		
Dakota (Non-Commercial)			
No. 3, from **7685** to **7705**	No. 6, from ..... to		

IMPORTANT WATER SANDS

OJO Alamo		**Dakota**	
No. 1, from **2637'** to **2816'**	No. 3, from **7566'** to **7685'**		
Point Lookout		**Entrada**	
No. 2, from **5196'** to **5390'**	No. 4, from **8146'** to **8618'**		

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
13-3/8"	48#	8R		407'	Halliburton				
9-5/8"	36#	8R		2893'	Baker				
7-5/8"	26.4#	8R		7705'	Baker				
5-1/2"	20#	8R		13590'	Baker				
5-1/2"	17#	8R		12833'	Baker				
2-3/8"	4.7#	8R		9486'	Baker				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8"	510'	400	Pump & Plug		
9-5/8"	4678'	1500	Pump & Plug	1.3	49 bbls.
5-1/2"	12833	600	Pump & Plug	1.13	97 bbls.

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

SEE SUMMARY OF OPERATIONS

TOOLS USED

Rotary tools were used from **0** feet to **13590** feet, and from ..... feet to ..... feet

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

DATES

Well was put on potential & then shut in ..... 19..

Put to producing **Waiting on Sale** ..... 19..

The production for the first 24 hours was **none** barrels of fluid of which **none** % was oil, **none** % emulsion, **none** % water, and **none** % sediment. Gravity, °Bé. **No Fluid**

If gas well, cu. ft. per 24 hours **910.4 MCFPD** Gallons gasoline per 1,000 cu. ft. of gas **None**

Rock pressure, lbs. per sq. in. **(IP-885#) (CP-887#)**

EMPLOYEES

Magnolia Petroleum Company ..... Driller ..... Driller

P. O. Box 633 ..... Driller ..... Driller

Midland, Texas

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2637'	2816'	179'	OJO Alamo
2816'	3027'	211'	Kirtland Fruitland
3027'	3092'	65'	Pictured Cliff
3092'	4635'	1543'	Lewis
4635'	4662'	27'	Cliff House
4662'	5156'	494'	Menefee
5156'	5390'	234'	Point Lookout
5390'	7210'	1820'	Mancos
7210'	7270'	60'	Greenhorn
7270'	7475'	205'	Oranerous
7475'	7684'	209'	Dakota
7684'	8164'	680'	Morrison
8164'	8646'	82'	Todilto
8646'	8818'	172'	Entrada
8818'	9226'	1008'	Chinle
9226'	11567'	1941'	Permian
11567'	13254'	1687'	Sarmoss
13254'	13427'	173'	Moles
13427'	13775'	148'	Leadville
13775'	13590'(TD)	15'	Pre-Cambrian

SUMMARY OF OPERATIONS

7-1-55 Spudded

7-5-55 Set 13-3/8" casing on bottom at 510' W/400 sx. circ.

7-8-55 Cored 2893-2920', recovered 26' of Sand & Shale, no shows.

7-11-55 Cored 2920-2966', recovered 46' of Sand, Shale and Coln, no shows. Cored 2966-2996', recovered 28' of Sand, Shale and Coln, no shows. Cored 2996-3060', recovered 46' of Sand, Shale and Coln. Had Gray Sand, bleeding gas, good gas odor 3020-3040'.

7-12-55 DST Pictured Cliff 3021-3040' 3 hrs 3/4" X 1" ch. No W.C. Gas to surface 13 min, insuf. to measure. Recovered 20' slightly gas-cut drilling mud, SFP-0#. BHFP-0#. 30 min. BHSIP-1056#. Cored 3040-3070', recovered 30' Sand & Shale, no shows. Cored 3040-3068'.

7-25-55 Set 9-5/8" casing on bottom 4678', W/1500 sx. WOC 10 hrs. Ran Temp. Survey, top of cement @ 880'. Tested W/2000# before and after drilling plugs, tested OK, no break.

8-5-55 DST Tonito 6254-6350', 1 hr 3/4" X 1" ch. Nothing to surface. Recovered 10' drilling mud, no shows, all press. zero.

8-10-55 DST Mancos 6812-6835', 30 min 3/4" X 1" ch. No W.C. Nothing to surface, all press. zero.

8-15-55 Cored 7005-7055', recovered 50' Sand & Shale. Sand W/good gas odor, trace of fleur. 7018-7029'. DST Sanastee 6958-7055', 2 hrs 3/4" X 1" ch. No W.C. Nothing to surface. Recovered 20' drilling mud, no shows, all press. zero.

8-17-55 DST Oranerous 7305-7350', 1 hr 5 min 3/4" X 1" ch. No W.C. Nothing to surface. Recovered 15' drilling mud, no shows, all press. zero.

8-19-55 Cored Dakota 7685-7743', recovered 31' sand, no shows. Cored Dakota 7685-7705', recovered 20' sand, no shows.

8-22-55 DST Dakota 7680-7708', 47 min 3/4" X 1" ch. No W.C. Nothing to surface. Recovered 15' slightly gas & water cut mud. SFP-0#. BHFP-0#. 30 min. BHSIP-310#. Cored 7508-7559', recovered 15' sand & Shale, no shows. Cored 7529-7589', recovered 58' Sand & Shale, no shows.

8-23-55 Cored 7587-7647', recovered 60' Sand & Shale, no shows. Cored 7647-7675', recovered 28' Sand & Shale, no shows.

8-24-55 DST Lower Dakota & Morrison 7570-7675' 2 hrs 3/4" X 1" ch. No W.C. Nothing to surface. Recovered 420' mud-cut water, 30' drilling mud. SFP-0#. BHFP-275#. 30 min. BHSIP-222#.

8-25-55 Cored 7675-773#', recovered 59' Sand & Shale, no shows.

9-6-55 Cored 8135-8145', recovered 50' Anhy. & Lime, no shows. Cored 8445-8453', recovered 5#' Lime & Sand. Hard Sand with sli. odor & stain 8445-8450'. DST Entrada 8432-8453' 2 hrs on 1" X 1" ch. No W.C. Nothing to surface. Recovered 10' sli. oil-cut fresh water, 2030' fresh water, no show oil. SFP-0#. BHFP-95#. 30 min. BHSIP-3160#. Cored 8452-8506', recovered 5#' sand, no shows.

9-15-55 DST Chinle 9532-9574' 1 hr on 3/4" X 1" ch. No W.C. Nothing to surface. Recovered 15' sli. gas-cut drilling mud. SFP-0#. 15 min. BHSIP-375#.

10-17-55 DST Penn 12377-12481', open 1 hr 1" X 1" ch. 1800' W.C. No mud, no shows. SFP-0#. BHFP-860#. Did not get 15 min BHSIP.

11-1-55 Coring from 13576' Granite. Top Granite @ 13575'.

11-2-55 Cored 13576-13590'. Recovered 14' Granite Inclusions, no shows.

11-15-55 Set Halliburton C I Plug 12833'.

11-18-55 DST Penn 12714-12833', 3 hrs 5 min, 3/4" X 1" ch. 2250' W.C. Gas to surface 2 hrs 10 min, rate of 72.8 MCF per day. Recovered 2250' W.C., 90' heavily gas-cut drilling mud, SFP-0#, BHFP-1185#, 30 min, BHSIP-3750#.

11-21-55 Set 5#" casing @ 12833' W/600 sx. Tested W/1500# for 30 min, no break, tested OK. Top of cement @ 10700'.

11-25-55 Drilled out cement to 12828'.

11-28-55 Perf 5#" casing 12785-12795' W/4 SPF. Swab 22 BLO 12 hrs. Swab dry 15 hrs. Slight show gas. Acidized 500 gals. TP 4000-3000#. Swab 50 BLO, all, 3 hrs. Flow 28 BAW, all, 21 BAW 3 hrs 3/4" ch. TP-1000-200#. Shut in 1 hr, TP-900#. Flow 153 BAW, no oil, 7 hrs 3/4" ch. TP-100-200#. Gas 213 MCF per day. Shut in 4 hrs. TP 1350#.

11-30-55 Pulled tubing & pkr. Set Retainer @ 12713' PBTD. Sq perf 12785-12795' W/200 sx. TP 5000#. Pulled tubing. Perf 5#" casing 12576-12586'.

12-1-55 Ran tubing & pkr. From perf 12576-12586', swab 45 BLO, all, 10 hrs. Swab 4 bbls fresh water 3 hrs, 6000' FIH, slight show gas.

12-2-55 From perf 12576-12586', swab 30 BAW 10 hrs, 9500' water in hole, slight show gas.

12-5-55 Set retainer @ 12470', sq perf 12576-12586' W/100 sx, max. press 3200#.

12-6-55 Perf 5#" casing @ 7450' W/4 SPF, broke circ, ran tubing & retainer. Set retainer @ 7420'. Cemented 5#" casing thru perf W/435 sx. Top cement @ 6418'.

12-8-55 Circ to oil and perf 5#" casing 7392-7410' W/4 SPF.

12-9-55 Ran tubing & pkr. From perf 7392-7410', swab 25 BLO in 18 hrs. Lack 2 BLO. Very sli. blow gas. Swab 1 bbl fluid last 5 hrs.

12-12-55 From perf 7392-7410', swab 260 bbls fresh water in 48 hrs.

12-15-55 Set squeeze retainer @ 7350'. Squeezed perf 7392-7410' W/150 sx 2600-5000#.

12-16-55 Perf 5#" casing 7305-7320' W/4 SPF. Ran tubing & pkr. Swab 28 BLO, all, 10 bbls drilling mud in 15 hrs, sli. show gas, no water. Swab 1 bbl drilling mud last hr, 250' FIH.

12-19-55 Acidized perf 7305-7320' W/500 gals mud acid. TP 2600-2000#. Swab 30 BLO 3 hrs. Swab 1 BLO, all, 12 BAW, 6 hrs. Swab 2# BWO 18 hrs. Sli. show gas, no water. Gravity 42. Sandfrac 200 gals. TP 1400#. Bled off to 0#. Swab 50 BLO 16 hrs, lack 77 BLO, 4000' FIH, good show gas.

12-27-55 Acidized perf 7305-7320' W/3000 gals mud acid. TP 3200-3100#. Flow 12 BLO 3 hrs, died. Swab 14 BLO, 19 BAW 3 hrs. Swab 29 BWO, 21 BAW 72 hrs. Lack 32 BAW. Last hr flow 1 bbl fluid, shake out 5# acid water. Slight show gas.

12-28-55 From perf 7305-7320' swab 5 BWO 10 hrs. Shake out 2# to 4# water. Lack 12 BAW. Circ to mud.

12-29-55 Sq perf 7305-7320' W/100 sx 2100#. Pulled tubing. Cut 5#" casing @ 6345'. Could not pull. Cut 5#" casing @ 4906'. Pulled 4906' of 5#" casing.

12-30-55 Spotted 75 sx plug 4937-4877', 50 sx plug 4688-4588', 25 sx plug 3136-3070'.

1-3-56 Perf 9-5/8" casing 3034-3050' 8/4 holes per ft. Ran tubing & pkr. Swab 20 bbls mud cut load oil 4 hrs, pkr gave way. Pulled & reran tubing & pkr. Pkr gave way. Released pkr. Swab 212 BLO 15 hrs, dry 4 hrs, sli. show gas, no water. Loaded hole. Pulled tubing & pkr. Reran tubing. Sandfrac perf down tubing & casing W/5000 gal. TP & CP 1500-750#. Shut in 3 hrs, TP 200#. Flow 80 BLO

8 hrs thru open 2", died. Swab 70 BLO 3 hrs. Kicked off & flowed 193 BLO 5 hrs, open 2" tubing, last hr flowed 14 BLO, no water on 3/4" ch, TP 120#.

1-4-56 From perf 3034-3050', after 5000 gal Sandfrac, flowed 8 BLO 5 hrs 3/4" ch. Casing head leaked. Pumped 130 BLO in casing. Repaired leak. Flow back 130 BLO 7 hrs 3/4" ch. Flow 7 BLO 9 hrs 3/4" ch. TP 125#.

1-5-56 Shut in 6 hrs, CP & TP 550#. Blew down 3 hrs thru open 2" tubing. At end of 3 hrs, tested 53# MCF gas per day. CP 100#. Spraying Diesel oil. Shut in 7 days for potential test.

1-12-56 After shut in for 7 day, shut in TP 885#, CP 887#. Potential test flow 12 hrs thru open 2" tubing, end of 3 hrs rate was 910.4 MCF per day. End of 3 hrs CP 160#.