F.Loc. 990/S; 990/E Elev. 7192 Spd. 12/31/51 Comp. 2/5/52 TD 3290 PB

Casing S. 10-3/4 @ 230 W 115 Sx. Int. @ W Sx. Pr. 5½ @ 3200 W 300 Sx. T. 1 @ 3248

Csg.Perf. 180 qts 3212-3290, 290 qts 3210-3290, 1190 qts 3209-3290 Prod. Stim. Trans

I.P. 585* MCF/D After 24 Hrs. SICP PSI After Days GOR Grav. 1st Del. 12-29-55 [illegible]

TOPS		NITD		Well Log	X
Kirtland	2990	C-102		Plat	X
Fruitland		C-103		Electric Log	
Pictured Cliffs	3197	C-104	X	C-110	X
Lewis / Cliff House	3286			*C-122-B	X
Menefee		Ditr		Dfa	
Point Lookout		Datr		Dac	
Mancos					
Tocito					
Dakota					
Morrison					
Entrada					
PC D	4005				

Remarks

* 224 MCF/3 hrs, 749# 7/Days by C-122-B, filed 9/6/55

SOF 3200-3265 w/9300 G, 12000# 8/26/55

Former Oper - Magnolia 160

TEST DATA						
Schd.	PC	Q	PW	PD	D	Ref. No.
	[illegible]					
	[illegible]					
9/6/55	[illegible]	[illegible]	[illegible]	131	[illegible]	
	434	23	337	217	23	

Pool So. Bl. PC Co. RA S 22 T 24N R 3W UP Oper EPNG Lse. Hammond-Fed No. 1

Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec.

Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec.

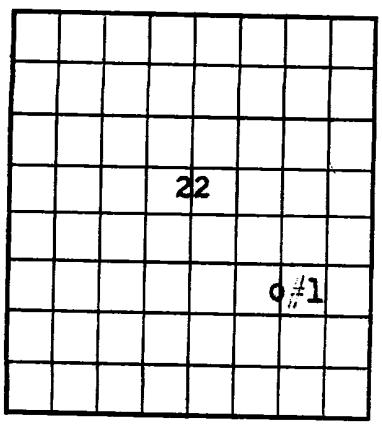
J P Oper. EPNG Lse. Hammond-Fed No. 1

22-24-3

Form 9-330

Budget Bureau No. 42-R355.1.
Approval expires 11-30-49.

U. S. Land Office Santa Fe
Serial Number 078913
Lease or Permit to Prospect



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Magnolia Petroleum Company Address Box 633 - Midland, Texas
Lessor or Tract Hammond-Federal Field Lindrith State New Mexico
Well No. 1 Sec. 22 T. 24N R. 3W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. {N.} of S Line and 990 ft. {E.} {W.} of E Line of Sec. 22 Elevation ? (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 W. T. Brennan
Date March 25, 1952 Title Division Superintendent

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

Commenced drilling Dec. 31, 1951 Finished drilling February 6, 1952

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

G No. 1, from 3210 to 3290 No. 4, from ____ to ____
No. 2, from ____ to ____ No. 5, from ____ to ____
No. 3, from ____ to ____ No. 6, from ____ to ____

REC MAY 9 1952 OIL C D

IMPORTANT WATER SANDS

No. 1, from None encountered 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 From—	Perforated To—	Purpose
10-3/4				230'					
5-1/2				3200'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	230'	125 Sacks Cem.	Pump & Plug		
5-1/2	3200'	300 " "	" "		

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
4" shell	Solidified	Nitro	180 qts	2-7-52	3212-90	3210-3290
Dump shot	"	"	290 "	2-13	3210-90	3210-3290
Dump Shot	"	"	1190 "	2-22	3209-90	3209-32 90

TOOLS USED

Rotary tools were used from 0 feet to 3200 feet, and from ____ feet to ____ feet
Cable tools were used from 3200 feet to 3290 feet, and from ____ feet to ____ feet

DATES

March 4, 1952 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 44.4 MCF Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. 180 psi Well Shut In.

EMPLOYEES

Calude M. Carrol, Driller Basin Drilling Company, Driller
Farmington, New Mexico, Driller (Rotary Tools) Farmington, New Mexico, Driller (Cable Tools)

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	235	235	Sand & Shale -Set 10-3/4" Csg. @ 230'
235	385	150	Shale & Sand w/125 sx.
385	875	490	Shale & Shells
875	2300	1425	Sand & Shale
2300	3055	755	Shale & Sand
3055	3087	32	Sand-hard
3087	3150	63	Coal & Shale
3150	3200	50	Sand & Shale
3200			Ran & cemt. 5½" Csg. on bottom w/300 sx.
			Moved out Rotary Tools
3200	3220	20	Sand & Shale (Cable Tools moved in)
3220	3243	23	Sandy Shale
3243	3245	2	Cavings & sand
3245	3290	45	Sand & Shale
3290			Total Depth
			Top Picture Cliff 3197'
			Base " " 3286'

FROM— TO— TOTAL FEET FORMATION

(OVER)

16-43094-8

FOLD | MARK

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

FORM 9-330

HISTORY OF OIL OR GAS WELL

16—43004-1 U. S. GOVERNMENT PRINTING OFFICE

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 its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, 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 bailing.

Well was drilled to 3200' with Rotary. Cable tools then moved on well and drilled out plug in 5½" casing. Casing was tested prior to this and after the plug was drilled.
Well was drilled to 3290', base of picture cliff @ 3286'.
Well was then shot with 180 qts. from 3212 to 3290'. Cleaned out to bottom after shot, well tested an est. gas volume of 20 MCFPD. Tp 7#
Well then flowed 20 MCF sweet gas in 24 hours, 1/4" choke, 6# pres.
Well was then re-shot, 3210 to 3290' with 290 qts. Cleaned out to 3284' after shot, well tested est. of 20 MCF gas volume.
Cleaned out well to bottom, flowed gas rate of 20 MCF thru 1/8" ch. Pres. 50# (Dry Gas.)
Well was then re-shot, 3209 to 3280' with 1190 qts. Cleaned out to 3280', Est. gas volume 40 MCF.
Cleaned out and washed hole to bottom, and tested gas volume.
First 8 hours, 49 MCF thru 1/4" orifice. Pres. 26#.
Ran tubing and completed well.
On test, gas tested 44.4 MCF in 24 hours. Pres. 22 #, Gr.0.74
Sweet gas.
Well completed March 4, 1952. Was connected up and shut in.