Form 9-330

Section 23

LOCATE WELL CORRECTLY

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Jicarilla Tribal
SERIAL NUMBER Contr # 99
LEASE OR PERMIT TO PROSPECT Tr. 190
Jicarilla

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 Jicarilla "D" Field Blanco State New Mexico
Well No. 4 Sec. 23 T. 26N R. 3-W Meridian N.M.P.M. County Rio Arriba
Location 990 ft. {N./S.} of S Line and 990 ft. {E./W.} of W Line of Section 23 Elevation 7319 (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 R. T. German

Date October 29, 1957 Title R.T. GERMAN Division Superintendent

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

Commenced drilling 7-18-57, 19.. Finished drilling August 3, 19 57

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3884 to 3938 No. 4, from to
No. 2, from 5660 to 6179 No. 5, from to
No. 3, from to No. 6, from to

RECEIVED NOV 4 1957 OIL CON. COM DIST. 3

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 From—	Perforated To—	Purpose
10-3/4	32.75	8 RT	Ingstn	307'					Surface
7-5/8	26.40	8 RT	Mal'l	4130'			3884	3938	Intermediate
5-1/2	15.50	8 RT	Spring	2268'			5660	6179	Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	307'	250	Pump & Plug		
7-5/8	4130'	200	Pump & Plug	41	39,300 lbs
5-1/2	6240	360	Pump & Plug		

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 6240 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

October 29, 19 57 Put to producing October 9, 19 57

The production for the first 24 hours was 30 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé. 47 @ 60°

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

SAGE DRILLING COMPANY, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3419	3650	231	Ojo Alamo
3650	3871	221	Kirtland-Fruitland
3871	3967	96	Pictured Cliffs
3967	5657	1690	Lewis
5657	5712	55	Cliff House
5712	6063	351	Menefee
6063	6193	130	Point Lookout
6193	6240	47	Mancus

SUMMARY

7-18-57 Spudded
7-19-57 Running 10-3/4" Csg.
7-22-57 Set 10-3/4" Casing on bottom with 250 sx.
7-25-57 Drill pipe and bit stuck at 3650' past 10 hrs. Stuck while coming out of hole.
7-26-57 Drill Pipe & bit stuck 24 hrs. Hit at 3650'. Free at 3500'.
7-29-57 W O 7-5/8" Casing on bottom with 200 sx. WOC 8 hrs. Ran temp survey. top 2950'.
8- 2-57 Drilling with Gas. Down 13 hrs. Drying up hole @ 3972'.
8- 5-57 W.O 2268' of 5½" Liner on bottom with 160 sx. Top Liner @ 3972'. Prep. to perf. 5½" Liner @ 5660' and complete cement job.
8- 6-57 W.O 5½" Liner on bottom. Cement 5½" Liner thru perf. 5660' with 100 sx.
8- 7-57 Drilled out plug & cement in 5½" Liner to 6205'. Wait on logging truck to Log. Will then perf. Cemented over top of 5½" Liner with 100 sx.
8- 9-57 Perf. 5½" Liner 5660-74', 5690-96', 5702-10', 5858-74', 5852-60', 5887-96', 6063-71', 6076-86', 6090-98', 6102-05', 6109-6116', 6127-6135', 6141-6147', 6156-6162', 6168-6179', 6 shots per ft. Sandwaterfrac with 122,000 Gals. 85,000 # sand. CP-2900#, Using 100 rubber balls. Prep. to C/O sand.

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8-12-57 From 15 sets Mesa Verde Perf. Jetted 600 BLW 10 hrs. @ 6205'. Gas vol. 3700 MCF per day. Perf. 7-5/8" casing in Pictured Cliffs 3884-88', 3915-3930', 3935-38'. Set Bridge Plug @ 3997' Sandwaterfrac with 25,000 Gals. down csg. CP-2600#. Using 132 rubber balls. Jetted 250 BLW 8 hrs. at 3940'. Gas vol. 176 MCF per day. Pulled BP @ 3997'.
8-13-57 Set Pkr @ 5602'. Ran Mesa Verde tbg with 4 Gas Lift Valves. Ran Pictured Cliffs tbg. Installed Tree. Rig released 8-13-57
8-22-57 Moving out rotary. Prep. to shut in for Gas Potential.
10-18-57 From 3 sets Pictured Cliffs Perf. Pump 32 BLO no water in 24 hrs.
10-21-57 Sandwaterfrac Mesa Verde Perf. with 105,000 Gals. CP-3100-1500#. Used 250 balls. Flow back 70 BLW in 1 hr. & died. Flow 800 BLW in 20 hrs. Measured gas 1475 MCF per day. Lack 2200 BLW. From Pictured Cliffs perf. 24 hr. Potential. Pu. 30 BNO no water 24 hrs. GOR: 1500/1, Bty: 47. Allowable 30. Completed 8-12-57.
10-22-57 Mesa Verde Perforations dead. Mesa Vede side of well Temporarily Abandoned.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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.