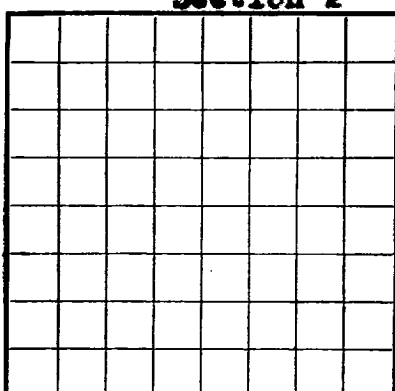


Section 2



LOCATE WELL CORRECTLY

U. S. LAND OFFICE **Jicarilla Tribal**
 SERIAL NUMBER **Cont. 96. Tr. 185**
 LEASE OR PERMIT TO PROSPECT **Jicarilla "H"**

UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **Magnolia Petroleum Company** Address **P.O. Box 633 Midland, Texas**
 Lessor or Tract **Jicarilla "H"** Field **Blanco** State **New Mexico**
 Well No. **2** Sec. **2** T. **26N** R. **3W** Meridian **N.M.P.M.** County **Rio Arriba**
 Location **990** ft. **AK** of **N** Line and **290** ft. **AK** of **E** Line of **Sec. 2** Elevation **7114**
 (Derive 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

Harve H. Mayfield
HARVE H. MAYFIELD

Date **December 18, 1956**Title **Asst. Division Supt.**

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

Commenced drilling **October 28**, 1956 Finished drilling **11-10-56**, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3707** to **3807 (G)** No. 4, from _____ to _____
 No. 2, from **5526** to **6030 (G)** No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

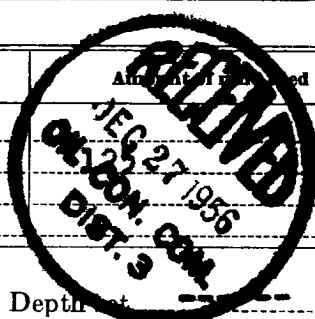
No. 1, from _____ to _____ No. 3, from _____ to _____
 No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
10-3/4	32.75	H 40	8RT	286					
7-5/8	24.00	H 40	8RT	4030					
7-5/8	24.00	H 40	8RT	6100					
5 1/2	19.50	H 40	8RT	225					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Annulus cemented
10-3/4	286	200	Circ.		
7-5/8	4030	125	Circ.	1.1031	
5 1/2	6100	225	Pmp & Plug		



PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from _____ feet to **6100** feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

On Potential & then shut in.

DATES

Shut in waiting

Put to producing **on sale of gas.**, 19

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. **.56**

If gas well, cu. ft. per 24 hours **Mesa Verde 5812** Gallons gasoline per 1,000 cu. ft. of gas **No Test**Rock pressure, lbs. per sq. in. **Pec. 01.2402**
Pie. 01.1068
Mesa Verde 0715Driller **Paul F. Rutledge**, DrillerDriller **Box 2239**, DrillerDriller **Santa Fe, New Mexico**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3287	3482	195	OJO ALAMO
3482	3697	215	Kirtland Fruitland
3697	3810	113	Pictured Cliff
3810	5506	1696	Lewis
5506	5556	50	Cliff House
5556	5889	333	Menaphee
5889	6032	143	Point Lookout
6032	6100	68	Maneus

SUMMARY

10-28-56 Spudded
 10-30-56 Set 10-3/4" casing on btm. w/200 sx cem. circ.
 11-6-56 Set 7-5/8" casing on btm. w/125 sx cem.
 11-12-56 Set 5 1/2" liner on btm w/125 sx cement. Temp survey top of cement. @ 5560. Perf. 5 1/2" liner 5550' w/2 1/2" holes.
 11-13-56 Set cement ret/ @ 5119' & recemented liner thru perf. @ 5550' w/50 sx. Max press 1400#. Temp survey top cement. @ 5494.
 11-14-56 Set Retainer @ 3690'. Could not pump in top liner @ 3870' w/3500#. to 3000#. 1 hr no break.
 11-15-56 Drilled out plug & cement in 5 1/2" liner to 6060'. PSTD.
 11-16-56 Perf. 5 1/2" liner 5716-22', 5749-59', 5891-97', 5917-20', 5926-32', 5937-45', 5960-68', 5985-99', 6005-08', 6014-30',.
 Continuing to Perf.
 11-19-56 Perf. 5 1/2" liner 5526'-5537' & 5546-5549' with 6 shots per ft. Sand-water frac 12 sets Mesa Verde Perf. 30,000 Gals. Sanded u

LOGWALIC RECORD—Continued

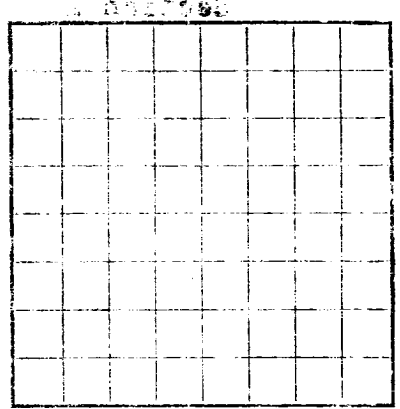
11-20-56 Re-perforating 5 1/2" liner in Mesa Verde.
 11-21-56 Reperforated 12 sets Mesa Verde perf. in 5 1/2" liner w/6 shots ft. Sandwater-frac w/27,000 gals. sanded up, no injection.
 11-22-56 Acidize 12 sets Mesa Verde Perf. 5000 gals.
 11-23-56 Sand-water-frac 12 sets Mesa Verde perf. w/37,000 Gals. Blew 2" Nipple off of frac head. On btm. w/tbg & bit.well unloading salt water, sand & rubber balls.
 11-26-56 From 12 sets Mesa Verde perf. fl. 750 BLW 9 hrs. Gas at tate of 6000 MCF per day. Killed well w/water. Perf. 7-5/8" Csg. 3707-37178, 3759-3764, 3771-3782, 3788-3795', & 3803-3807; 6 shots per ft. Sandwaterfrac w/40,000 Gals. Flowed 50 BLW in 1 hr. died. Pulled BP @ 3880'. Set Pkr. @ 5466'. Ran dial strings. Rig released 11-25-56.
 11-27-56 Shut in Moving out rotary.
 11-28-56 Moving in swabbing unit.
 11-30-56 From all perf. after 94,000 gal sand-waterfrac. swb & flow 450 BLW in 22 hrs. Gas at rate of 2870 MCF per day. Shut infor Gas Pot. Swbd 100 BLW in 8 hrs. no gas. tbg. swab stops @ 1200'
 12-3-56 From Pictured cliffs perd. swb & flowed 100 BLW in 7 hrs. Gas at rate of 1750 MCF per day. shut in for Gas potential
 12-10-56 From 5 sets Pictured cliff perf. after 7 days shut in TP 1068#. CP 1068# flowed 3 hrs thru 3/4" ch. at end of 3 hrs. Gas pot gas vol 2008 MCF per day. Calculated open flow 2402 MCF per day. From 12 sets Mesa Verde perf. after 8 days shut in, TP 1711#. Gas Potential flowed 4815 MCF gas after 3 hrs. flow 3/4" ch. Calculated open flow 5812 MCF per day. Completed 11-24-56

LOG OF OIL OR GAS WELL

DEPARTMENT OF THE INTERIOR

UNITED STATES

LOCATE WELL CORRECTLY



Company Name
Address
State
County
Well No.
Location
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
Date
The summary on this page is for the condition of the well at above date.
Commenced drilling
Finished drilling

OIL OR GAS SANDS OR ZONES

No. 1 from
No. 2 from
No. 3 from

IMPORTANT WATER SANDS

No. 1 from
No. 2 from

CASING RECORD

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes

HISTORY OF OIL OR GAS WELL

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes



MIDDING AND CEMENTING RECORD

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes

PLUGS AND ADAPTERS

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes

SHOOTING RECORD

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes

TOOLS USED

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes

DATES

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes

EMPLOYEES

Size casing	Weight per foot	Threads per foot	Make	Amount	Kind of pipe	Set and pulled from	Purposes

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
10-1	10-2	10-3	10-4
10-5	10-6	10-7	10-8
10-9	10-10	10-11	10-12
10-13	10-14	10-15	10-16
10-17	10-18	10-19	10-20
10-21	10-22	10-23	10-24
10-25	10-26	10-27	10-28
10-29	10-30	10-31	10-32
10-33	10-34	10-35	10-36
10-37	10-38	10-39	10-40
10-41	10-42	10-43	10-44
10-45	10-46	10-47	10-48
10-49	10-50	10-51	10-52
10-53	10-54	10-55	10-56
10-57	10-58	10-59	10-60
10-61	10-62	10-63	10-64
10-65	10-66	10-67	10-68
10-69	10-70	10-71	10-72
10-73	10-74	10-75	10-76
10-77	10-78	10-79	10-80
10-81	10-82	10-83	10-84
10-85	10-86	10-87	10-88
10-89	10-90	10-91	10-92
10-93	10-94	10-95	10-96
10-97	10-98	10-99	10-100

FORMATION RECORD—Continued

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