

U. S. LAND OFFICE Jicarilla Tribal
SERIAL NUMBER Contr. # 97
LEASE OR PERMIT TO PROSPECT Jicarilla # 97UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Agencia Petrolera Company Address P.O. Box 633, El Paso, Texas
Lessor or Tract Jicarilla Field Blanco State New Mexico
Well No. 2 Sec. 7 T. 26N R. 3E Meridian S. 4E County El Arriba
Location 990 ft. [N.] of S. Line and 1450 ft. [E.] of W. Line of Section 7 Elevation 6195 OP
(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 Harold E. MayfieldDate December 17, 1957Title Asst. Division Superintendent

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

Commenced drilling September 3, 1957 Finished drilling September 27, 1957OIL OR GAS SANDS OR ZONES
(Denote gas by G)No. 1, from 3570 to 3641 (G) No. 4, from _____ to _____
No. 2, from 5339 to 5449 (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	8	Yagsta	328					Surface
7-5/8	26.00	8	Yagsta	345			3590	3641	Intermediate
5-1/2	15.50	8	Yagsta	2340			3641	5449	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	328	250	Pump Plug		
7-5/8	345	165	Pump Plug		
5-1/2	6050	275	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 _____ feet to _____ feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Put to producing December 15, 1957
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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. Mesa Verde 1050Pic. Cliffs 856 For further information see PotentialsDriller _____ Below, Driller _____
Driller _____ Below, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	TOPS FORMATION
3195	3294	99	QJO Alamogordo
3294	3583	289	Kirtland-Fruitland
3583	3653	70	Pictured Cliffs
3653	5254	1601	Lewis
5254	5356	102	Cliff House
5356	5721	365	Manefee
5721	5881	160	Point Lookout
5881	6050	169	Mancos

POTENTIAL TESTS

From 6 sets Mesa Verde Perf. after 7 days shut in TP-1050%. Flow 3 hrs on 48/64" chk.
Gas at rate of 2069 MCF per day. Flowing TP-162%. Calculated absolute open flow
potential 2247 MCF per day.From 3 sets Pictured Cliffs perf. after shut in 7 days TP-856%. CP-356%. Flow 3 hrs
48/64" chk. Gas at rate of 1285 MCF per day. Flowing TP-97%. Flowing CP-212%.
Calculated absolute open flow 1361 MCF per day.

FRACTURES & FRACTURE

MESA VERDE PERF: 5339-5349', 5353-5360', 5529-5538', 5757-5822', 5829-5836',
5843-5849', Sandwaterfractured with 110,000 Gals and used 400 balls.
Pic. Cliffs perf: 3590-3600', 3606-3610', and 3624-41', Sandwaterfractured with 30,000 Gals
and used 150 rubber balls.

SUMMARY

Spudded 9-8-57
9-9-57 WOC 10-3/4" Casing on bottom with 300 ex cement.
9-13-57 Down Fishing Drill Pipe & Bit. Top fish 15'. Prep. to run over shot.

FROM—	TO—	FEET	OVER	CONNECTION	TO—400 ft. 1

9-16-57 Fishing for Drill Pipe. Drill Collars & Bit. Caught fish, come out w/fish.
9-23-57 Circulating for sample.
9-24-57 WOC 7-5/8" Casing on bottom with 165 ex. cement.
9-30-57 WOC 2380' of 5 1/2" Liner on bottom with 375 ex cement. Top of liner 3670'.
10-1-57 Drilled out cement in 5 1/2" liner to 6009' BTD. Prep. to run elec. logs, then
perf. 5 1/2" liner.
10-2-57 Perf. 5 1/2" liner 5339-5349', 5353-5360', 5529-5538', 5757-5822', 5829-5836',
5843-5849', Sandwaterfractured with 110,000 Gals. CP-1200-0%. Using 400 rubber
balls.
10-3-57 From 6 sets Mesa Verde Perf. Jet 9.0 psi in 22 hrs. Gas volume 1947 MCF per
day. Prep. to move up to Pictured Cliffs.
10-4-57 Perf. 7-5/8" Casing 3590-3600', 3606-3610' and 3624-41'. Set Bridge Plug
3673'. Prep. to sandwaterfracture perf.
10-7-57 Sandwaterfracture 3 sets pictured cliffs perf. with 30,000 Gals. CP-3560-3000%.
Using 150 rubber balls. Jetted 500 BW in 10 hrs. Pulled bit & Bridge Plug.
3673'. Set Baker Prod. rkr in 5 1/2" Liner 3530'. Ran 2" Mesa Verde Tbg.
with 4 Gas lift valves. Ran Pictured Cliffs tbg. Released rig 10-6-57.
10-8-57 Shut in to move out Rotary.
10-10-57 Shut in both zones for potential.
10-21-57 From pictured Cliffs perf. Pumped 24 BW, no str in 24 hrs. Back 476 BW.
10-22-57 From all perf. tried to potential both Mesa Verde & Pictured Cliffs Zones,
had communication. Prep. to shut valves.
10-24-57 Both zones shut in. Prep. to check valves for communication.
10-25-57 Checked valves, valves were closed still have communication. Prep. to check tbg.
10-26-57 Shut in for water to kill well to pull Mesa Verde Tbg. Have lead from 3080-
5284'. In Mesa Verde String.
10-29-57 Wait on Completion rig to pull Mesa Verde Tubing.
11-4-57 Moved in completion rig. Pulled Mesa Verde tbg to repair leak.
11-5-57 Pulled & tested Mesa Verde Tbg. No leak. Prep. to run another Baker prod. rkr.
11-6-57 Set Baker Production Rkr. 35209'. Running Mesa Verde Tbg.
11-7-57 Shut down 24 hrs. Wait on water pump motor repairs.
11-11-57 Killed well with water. Ran 2" tubing, on Mesa Verde with 4 gas lift valves.
Ran 2" Pictured Cliffs tubing. Rig released 11-10-57.
11-12-57 Both zones shut in 24 hrs. Connecting up gas line.
11-13-57 Both zones dead. Prep. to open sleeves & kick off.
11-14-57 From both zones flow by Gas lift 200 BW in 12 hrs.
11-15-57 Shut in 21 hrs to move off substructure.
11-20-57 Both zones flow 150 BW in 24 hrs. Shut in Pictured Cliffs. Mesa Verde Gas
volume 1065 MCF to 2685 MCF per day.
11-25-57 From both zones flow 140 BW in 12 hrs. Gas volume 269 MCF per day. Co. 750' to
1200'.
11-26-57 Both zones flow 7 BW in 24 hrs. CP-420%. Gas volume 1374 MCF per day.
11-27-57 Both zones flow 75 BW in 24 hrs. thru open 2". CP-420%. Gas volume 615
MCF per day to 2143 MCF per day.
11-29-57 From both zones flow 150 BW in 48 hrs. Gas fluctuating from 615 to 2143 MCF.
12-2-57 From both zones flow 100 BW in 48 hrs. Gas volume 1065 MCF per day.
12-3-57 Both zones flow 50 BW in 24 hrs. Gas fluctuating between 600 & 1946 MCF per day.
12-4-57 Both zones flow 25 BW in 24 hrs. Gas fluctuating between 614 & 1065 MCF.
12-5-57 Both zones flow 10 BW in 24 hrs. Gas volume from 600 MCF to 1900 MCF per day.
12-6-57 Closed sleeve in Gas Lift valves. Both zones shut in for potential.
12-16-57 POTENTIAL TEST: From 6 sets Mesa Verde perf. after 7 days shut in TP-1050%.
Flow 3 hrs. on 48/64" Chk. Gas at rate of 2069 MCF per day. Flowing TP-162%.
Calculated absolute open flow potential 2247 MCF per day.
From 3 sets Pictured Cliffs perf. after shut in 7 days. TP-856%. CP-356%.
Flow 3 hrs. thru 48/64" chk. Gas at rate of 1285 MCF per day. Flowing TP-97%.
Flow CP-212%. Calculated absolute open flow potential 1361 MCF per day.
Completed 10-4-57.