Form 9-330

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

U. S. LAND OFFICE Jicarilla

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT Contract No. 39
Co. Lease No. 163112

RECEIVED
SEP 7 '56
OIL CON. COM.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Humble Oil & Refining Company Address Box 1268, Farmington, New Mexico
Box 2180, Houston, Texas

Lessor or Tract Jicarilla Apache Tribe of Indians Field Stone Pictured Cliffs State New Mexico

Well No. C-1 Sec. 33 T. 24N R. 5W Meridian County Rio Arriba

Location 990 ft. [N] of S Line and 990 ft. [E] of W Line of Section 33 Elevation 6735
(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 Russell M. Foster

Date June 28, 1956 Title Dist. Supt.

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

Commenced drilling 6-25-56, 19 56 Finished drilling 6-28-56, 19 56

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2224 to 2314 No. 4, from to

No. 2, from 2260 to 2260 No. 5, from to

No. 6, 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 From—	Perforated To—	Purpose
8 5/8	24	8R	CF&I	151	Ball.				
4 1/2	9.5	8R	CF&I	2354	Baker		2224	2314	Production
							2260	2260	Stimulation

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	162	150	Pump	8.6#	
4 1/2	2354	275	Pump	9.4#	

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
		N O N E				

TOOLS USED

Rotary tools were used from 0 feet to 2358 feet, and from feet to feet

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

DATES

June 24, 19 56 Put to producing Shut in, no pipeline connections.

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 3,000,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 750 SI TP

EMPLOYEES

A. F. Sample, Driller R. L. Martin, Driller

H. A. Layne, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2251	2251	Sand & shale
2251	2301	50	Core - light gray sandstone
2301	2326	25	Core - sandstone and shale
2326	2358 TD	27	Sand

Top of Pictured Cliffs 2244

FOLD | MARK

16—43094-4

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.

This well was drilled to total depth of 2356 ft., with completion depth of 2321 ft.

Set 151 ft. 8 5/8 csg. at 162 ft. w/150 sacks cement.

Core from 2251-2301', recovered 50 ft. light gray, fine grained sandstone, upper 3 feet fractured, light gas odor.

Core from 2301'-2326', recovered 25 ft. 14 ft. light gray fine grained sandstone, slight gas odor. 11 ft. dark gray and black shale, w/a few thin beds of light gray, fine grained sandstone.

Set 2344 ft. 4½" csg. at 2354' w/175 sks. of 10% gel, and 100 sks. Reg. neat cmt.

Perf. 4½" csg. from 2294' to 2314' w/6 McCullough bullet shots per ft. Aquafrac w/total of 31,950 gals. water, including 4200 gals. SD and flush, and w/40,000# sand. BD press. 2400#. Broke to 1500#.

Perf. 4½" csg. from 2244' to 2260' w/6 McCullough bullet shots per ft. Set Baker ret. retainer at 2277'. Aquafrac w/33,334 gals. water, including 3370 gals. SD and flush, and w/40,000# sand. BD press. 1500#, no break.

Set 2" tubing at 2214 and swabbed. Well kicked off.

After 2 days shut in, SIP 750#. Opened well, flowed at 3,000,000 CF/day.

Flowing gas from [illegible] formation through perfs. in 4½" csg. at 2294' to 2314' and 2244' to 2260'.

Well shut in.