Form 9-330

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

U. S. LAND OFFICE Navajo
Santa Fe
SERIAL NUMBER 14-20-603-2034
LEASE OR PERMIT TO PROSPECT Navajo Tribe of Indians "F"

RECEIVED
OIL CON. COM.
DIST.

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2 1959
U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 2347 - Hobbs, New Mexico / Box 2180 - Houston 1, Texas

Lessor or Tract Navajo Tribe of Indians "F" Field Horseshoe Gallup State New Mexico

Well No. 38 Sec. 4 T. 31N R. 17W Meridian NMPM County San Juan

Location 1980 ft. {N. / S.} of S Line and 660 ft. {E. / W.} of E Line of Section 4 Elevation 5293 (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

Date October 29, 1959 Title District Superintendent

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

Commenced drilling July 19, 1959 Finished drilling July 22, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to No. 4, from to

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

No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

No. 1, from None 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
7"	20	8	[illegible]	[illegible]	-	-	-	-	[illegible]
4½"	9.5	8	J-55	1118	None	-	1060	1077	Oil

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7"	34	9	Dumped	-	-
4½"	1122	75	Pumped	-	-

PLUGS AND ADAPTERS

Heaving plug—Material None Length Depth set

Adapters—Material Size

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		None				

TOOLS USED

Rotary tools were used from Surface feet to 1125 feet, and from feet to feet

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

DATES

, 19 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 - Gallons gasoline per 1,000 cu. ft. of gas -

Rock pressure, lbs. per sq. in. -

EMPLOYEES

F. O. Smith, Driller H. R. Smith, Driller

B. F. Scott, Jr., Driller (Johnny Byers Drilling Co.), Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	34	34	Sand
34	475	441	Shale
475	851	376	Sand and shale
851	1030	179	Shale
1030	1125 TD	95	Sand and shale

FORMATION TOPS

Gallup 1071

FROM— TO— TOTAL FEET FORMATION

[OVER]

FORMATION RECORD—Continued

16—48694-4

FOLD | MARK

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, statefully, 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.

Spudded 8-3/4" hole 3-19-59. Set 7" casing at 34' w/ 9 sx regular cement. Drilled w/ air to 1045' and mudded up. Drilled to TD of 1125'. PBD 1122'. Ran electric logs. Set 4½" casing at 1122' w/ 75 sacks 1% Ca Cl2 cement. Pumped plug down w/ 200 gals. MCA and oil. Ran Sonic Ray and collar logs. Perforated 4½" casing from 1069-1077' w/ 2 jet shots per foot. Sand/oil frac w/ 20,000 gals. lease crude and 30,000# sand w/ 110 gals. J-90. Average injection rate 18 BPM at 950#. Cleaned sand from 1082-1122'. Set 2" tubing at 1074'. Ran rods and pump. On 9 hour pumping test on 18-30" SPM recovered no production. Treated w/ 30 gals. Hy Flo mixed w/ 70 bbls. lease crude. Average injection rate 3/4 bbl. per minute. Rerun rods and pump. On 24 hour test pumping 14-30" SPM produced 1 bbl. load oil. Well presently shut in pending approval to convert to water injection well.

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