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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

JUN 12 1959

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Humble Oil & Refining Company Address Box 1268, Farmington, New Mexico / Box 2180, Houston 1, Texas

Lessor or Tract Navajo Tribe "F" Field Chimney Rock Gallup State New Mexico

Well No. 24 Sec. 4 T. 31-N R. 17-W Meridian NMPM County San Juan

Location 660 ft. {N./S.} of S Line and 660 ft. {E./W.} of E Line of Section 4 Elevation 5251' Gr. (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. Lilly
Russell M. Lilly

Date June 9, 1959 Title District Superintendent

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

Commenced drilling May 14, 1959 Finished drilling May 24, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 996' to 1012' 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
7-5/8"	24#	8-R	N-40	48'	None				Surface
5"	15.5#	8-R	K-55	1043'	None	Pierce shoe in hole at 1043'	996'	1012'	Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7-5/8"	48'	10	Dumped	Drld. w/air	-
5"	1043'	70	Pumped	Drld. w/air to 995' (9.1)	-

PLUGS AND ADAPTERS

Heaving plug—Material None Length Depth set

Adapters—Material None Size

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from 0' feet to 1045' feet, and from feet to feet

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

DATES

, 19 Put to producing June 3, 1959

The production for the first 24 hours was 63 barrels of fluid of which 100 % was oil; 0 % emulsion; 0 % water; and 0 % sediment. Gravity, °Bé. 39.3

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

V. E. Belcher, Driller (Cherokee Air Drlg. Co.), Driller

R. L. Dollar, Driller , Driller

E. Pleasant

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0'	1045'	1045'	Sand & Shale.
			FORMATION TOPS:
			Gallup 996'
			Sanostee 1023'

[OVER]

16—43094-4

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
		Dallas	Dallas
		Dallas	Dallas

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION

DATES

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

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

The production for the first 24 hours was ____ barrels of fluid of which ____% was oil; ____% emulsion; ____% water; and ____% sediment. Gravity, °Be. ____

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

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

Dallas	Dallas
Dallas	Dallas

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

SHOOTING RECORD

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

PLUGS AND ADAPTERS

Heaving plug—Material ____ Length ____ Depth set ____

Adapters—Material ____ Size ____

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used

HISTORY OF OIL OR GAS WELL

10—48004-2 U. S. GOVERNMENT PRINTING OFFICE

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.

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose

Spudded 9" hole 5/14/59. Set 7-5/8" casing at 48' w/10 sacks reg. cement. Drilled w/air to 995' & mudded up. TD 1045', PBD 1028'. Run elec. logs. Set 5" OD casing at 1043' w/70 sacks 1% CaCl2 cement. Pumped plug down w/200 gals. MCA & oil. Ran Gamma Ray & Collar Logs. Perforated from 996' to 1012' w/2 jet shots per foot. Sand/oil frac w/20,000 gals. lse. crude and 30,000# sand. Ave. inj. rate 21 bbls./min. at 900#. Cleaned sand from 980' to 1020'. Set 2" tubing at 991'. Ran rods & pump and installed pumping unit. On final 24 hour potential test on 18-30" SPM pumped 63 bbls. new PLO. Corr. Gr. 39.3. First new oil to tanks 6/3/59.

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ____	to ____	No. 4, from ____	to ____
No. 2, from ____	to ____	No. 5, from ____	to ____
No. 3, from ____	to ____	No. 6, from ____	to ____

The information given herein is a complete and correct record to the well and all work done thereon so far as can be determined from all available records.

Signed ____

Date ____ Title ____

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

Commenced drilling ____ 19__ Finished drilling ____ 19__

LOG OF OIL OR GAS WELL

FOLDER MUST BE CORRECTLY

Company ____	Address ____
Lessor or Farm ____	Field ____ State ____
Well No. ____ Sec. ____ T. ____ R. ____ Meridian ____	County ____
Location ____ ft. ____ of ____ line and ____ ft. ____ of ____ line of ____	Elevation ____

The information given herein is a complete and correct record to the well and all work done thereon so far as can be determined from all available records.

Signed ____

Date ____ Title ____

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OIL OR GAS SANDS OR ZONES

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CASING RECORD

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

FORM 9-329
(Feb. 1951)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE ____
LEASE NUMBER ____
UNIT ____

XRAM | CLO