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

Form 9-330

U. S. LAND OFFICE
SERIAL NUMBER Navajo-Ute Mtn. Tribal
LEASE OR PERMIT TO PROSPECT 14-20-604-1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Atlantic Refining Co. Address Box 2197, Farmington, N.M.

Lessor or Tract Horseshoe Gallup Unit Field Horseshoe Gallup State New Mexico

Well No. 158 Sec. 28 T. 31N R. 16W Meridian NMPM County San Juan

Location 1740 ft. N. of S Line and 590 ft. E. of W Line of Section 28 Elevation 5666 (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 B J Sartain

Date February 25, 1963 Title Drlg & Prod. Supv.

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

Commenced drilling 12-23, 19 62 Finished drilling 12-31, 19 62

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1503 to 1520 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 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#	8	CF&I	[illegible]	Guide				Surface
4 1/2	9.5	8	[illegible]	1565.78	Guide Float Collar		1503	1519	Water Inj.

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	76.30	60 + 2% CaCl	Pump & Plug		Cement Circulated
4 1/2	1575.58	110 + 2% Gel	Pump & Plug	8.8#/gal	Annulus full

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 Surface feet to 1580TD 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

Whigham Drilling Co., Driller , Driller

, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	200 est	200 test	Point Lookout
200 est	1414	1214	Mancos
1414	1580 TD	166	Gallup (Niobrara)
1503	1520	17	Upper Horseshoe SS.

[OVER]

16—43094-4

Form 9-330

Budget Bureau No. 42-R356.4
Approval expires 12-31-60.

U. S. LAND OFFICE ....
SERIAL NUMBER Navajo-Lite Mtn. Tribal
LEASE OR PERMIT TO PROSPECT
14-20-604-1951

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Atlantic Refining Co. Address Box 2197, Farmington, N.M.
Lessor or Tract Horseshoe Gallup Unit Field Horseshoe Gallup State New Mexico
Well No. 158 Sec. 26 T. 31N R. 16W Meridian NMPM County San Juan
Location 1740 ft. N/S of S Line and 590 ft. E/W of E Line of Section 26 Elevation 5356 (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 [signature]

Date February 25, 1963 Title Dist. Prod. Supt.

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

Commenced drilling 12-23, 19 62 Finished drilling 12-31, 19 62

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1503 to 1520 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 ...... 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

Float Collar

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.

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	76.30	40 + 2% CaCl	Pump & Plug		Cement circulated
4 1/2	1575.58	110 + 25 Gel	Pump & Plug	9.4#/gal	Annulus full

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 Surface feet to 1580 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

......, Driller ......, Driller
Whigham Drilling Co., Driller ......, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	200 feet	200 feet	Point Lookout
200 feet	1414	1214	Mancos
1414	1580 TD	166	Gallup (Niobrara)
1503	1520	17	Upper Horseshoe SS.

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

[OVER]