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

Form 9-330

U. S. Land Office Santa Fe
Serial Number
Lease or Permit to Prospect 14-20-603-734

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company /The Atlantic Refining Co. Address Box 520, Casper, Wyoming
Lessor or Tract Tribal (Navajo) Field Horseshoe Gallup State New Mexico
Well No. 13 Sec. 32 T. 31N R. 16W Meridian NMPM County San Juan
Location 660 ft. N/S of N Line and 1980 ft. E/W of E Line of Sec. 32 Elevation 5376 GL
(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 12-5-58 Title District Clerk

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

Commenced drilling 11-25-58, 19 Finished drilling 11-30-58, 19

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 1134 to 1163 No. 4, from to
No. 2, from 1260 to 1278 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#	8rd	Big Mill	90.96	Baker				Surface
5 1/2	14#	8rd	National	1295.10	Larkin	62 Jets	1135	1166	Oil String
						25 Jets	1259	1268	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	99.56	125	pump-plug	8.9	
5 1/2	1302.60	130	pump-plug	9.0	

FOLD | MARK

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 0 feet to 1310 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

12-5-58, 19 Put to producing 12-3-58, 19

The production for the first 24 hours was 166.68 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. after load oil recovered after fracture treatment Gravity, °Bé. 41.0

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
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1106		Mancos
1106	1277		Gallup
1277			Juana Lopez

First Fracture Treatment
Treated perforations 1259-1268 with 10,000# 10/20 sand and 7200 gals lease crude. Average treating pressure 800# at 38 BPM.

Second Fracture Treatment
Treated perforations 1135-1166 with 12,000# 10/20 sand and 10,000 gals lease crude. Average treating pressure 700# at 38 BPM.

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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.