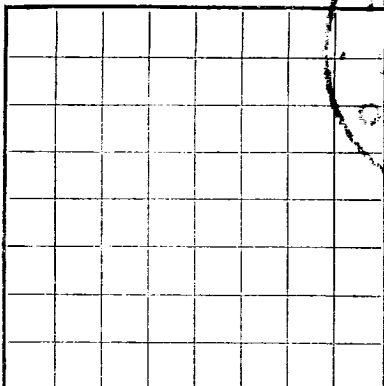
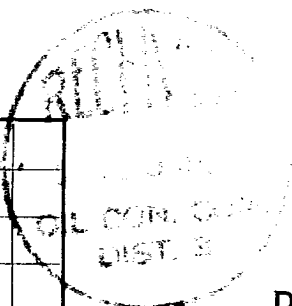




LOCATE WELL CORRECTLY

U. S. LAND OFFICE ~~anta Fe~~

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT

14-20-03-734

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company ~~The Atlantic Refining Co.~~ Address ~~Box 520, Casper, Wyoming~~
Lessor or Tract ~~tribal (Navajo)~~ Field ~~Horneshoe Gallup State New Mexico~~
Well No. ~~37~~ Sec. ~~32~~ T. ~~31S~~ R. ~~16E~~ Meridian ~~22W~~ County ~~San Juan~~
Location ~~660~~ ft. ~~N~~ of ~~11~~ Line and ~~417~~ ft. ~~E~~ of ~~1~~ Line of ~~Sec. 32~~ Elevation ~~5385.501~~
(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 ~~R. V. Gentry~~Date ~~5-25-59~~ Title ~~District Clerk~~

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

Commenced drilling ~~5-2-59~~, 19-- Finished drilling ~~5-19-59~~, 19--

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from ~~1181~~ to ~~1186~~ No. 4, from to
No. 2, from ~~1196~~ to ~~1212~~ No. 5, from to
No. 3, from ~~1309~~ to ~~1318~~ 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		Purpose
							From—	To—	
8 5/8	24	8	Lucas	92.96	Ball	0	1181	1186	Surface
4 1/2	9.2	8	Lucas	130.45	Ball	1186	1196	1212	Oil string
							1309	1318	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	92.96	115	Pump-plug	8.9	
4 1/2	130.45	150	pump-plug	8.9	

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 ~~1338~~ feet, and from feet to feet

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

DATES

~~5-25-59~~, 19-- Put to producing ~~5-24-59~~, 19--

The production for the first 24 hours was ~~92.63~~ barrels of fluid, of which ~~100~~ % was oil; ~~0~~ % emulsion; ~~0~~ % water; and ~~0~~ % sediment. ~~pump test~~ 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	1146		Encos
1146	1332		Gallup
1332			Juana Lopez

First Fracture Treatment

Treated perforations ~~1309-1318~~ with ~~30,000~~ 10/20 sand and ~~11,381~~ gals lease crude. average treating pressure ~~1200~~ at ~~31.6~~ S.F.

Second Fracture Treatment

Treated perforations ~~1181-1186~~ and ~~1196-1212~~ with ~~51,500~~ 10/20 sand and ~~10,698~~ gals lease crude. average treating pressure ~~1400~~ at ~~29.0~~ S.F.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

FORMATION RECORD—Continued