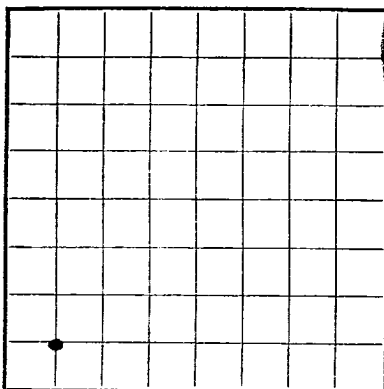




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER

LEASE OR PERMIT TO PROSPECT
14-20-603-734UNITED 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 Horseshoe Gallup State New Mexico
Well No. 45 Sec. 29 T. 31N R. 16W Meridian NMP County San Juan
Location 660 ft. N. of 1 Line and 660 ft. E. of 1 Line of Sec. 29 Elevation 5446.701
(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. P. CurryDate 5-18-59Title District Clerk

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

Commenced drilling 4-21-59, 19____ Finished drilling 5-6-59, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1180 to 1217 No. 4, from _____ to _____
No. 2, from 1300 to 1320 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from 1814 to 1886 No. 3, from _____ to _____
No. 2, from 1926 to 2062 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—	
<u>8 5/8</u>	<u>94.99</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>
<u>4 1/2</u>	<u>130.62</u>	<u>190</u>	<u>190</u>	<u>190</u>	<u>190</u>	<u>190</u>	<u>190</u>	<u>190</u>	<u>190</u>
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8 5/8</u>	<u>94.99</u>	<u>115</u>	<u>115</u>	<u>115</u>	<u>115</u>
<u>4 1/2</u>	<u>130.62</u>	<u>190</u>	<u>190</u>	<u>190</u>	<u>190</u>

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

DATES

5-18-59, 19____ Put to producing 5-1-59, 19____

The production of the well was _____ barrels per day of which _____ % was oil; _____ %
emulsion; _____ % water; and _____ % sediment. 110.44 Gravity, °Bé. 100

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
<u>0</u>	<u>1146</u>		<u>Mancos</u>
<u>1146</u>	<u>1324</u>		<u>Gallup</u>
<u>1324</u>	<u>1695</u>		<u>Juana Lopez</u>
<u>1695</u>	<u>1758</u>		<u>Greenhorn</u>
<u>1758</u>	<u>1814</u>		<u>Granderos</u>
<u>1814</u>	<u>2062</u>		<u>Jakota</u>
<u>2062</u>			<u>Harrison</u>

First Fracture Treatment

Treated perforations 1300-1320 with 50,000 10/20 sand and 15,200 gals lease
crude. Average treating pressure 1500 at 37 S.M.

Second Fracture Treatment

Treated perforations 1180-1217 with 50,000 10/20 sand and 20,200 gals lease
crude. Average treating pressure 1500 at 25.5 S.M.

Set 113 sack cement plug from 1860-2077

FROM—

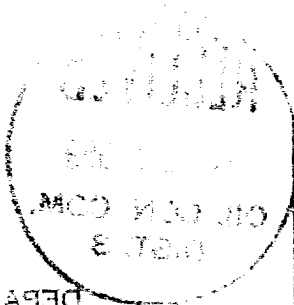
TO—

TOTAL FEET

FORMATION

FORMATION RECORD—Continued

14-43004-4

A blank sheet of graph paper with a grid pattern. The grid consists of horizontal and vertical lines forming squares. There are 10 columns and 8 rows visible. A thick black border is present on the left side of the page.

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR

SETATE DETINU

PLEASE DO PERMIT TO PROSPECT

SERIAL NUMBER

U S LAND OFFICE

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 _____

Location _____ of _____ Line and _____
Well No. _____ Sec _____ T. _____ N. _____ E. _____
Lessor or Trust _____
County _____ State _____
Address _____
Company _____

Commenced drilling on _____
The summary on this page is for the condition of the well at close of date _____
Date _____

OIL OR GAS SANDS OR LIGNITE

(Derote des 21 G)

No. 4, from	moist	4.6%		No. 1, from	moist	4.9%
No. 5, from	moist	5.0%		No. 2, from	moist	5.2%
No. 6, from	moist	5.6%		No. 8, from	moist	5.7%

IMFORTANT WATER SANDS

No. 2, from _____ to _____
No. 3, from _____ to _____

CASING RECORD

Size casing per foot	Weight per foot	Make	Amount	Kind of shoe	Get and pulled from	Perforated for	Purpose
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 added or removed, state 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 pulling.							

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reaming, together with the persons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "stepped", "set" in the well, give its size and location. If the well has been de-aerated, 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.

HISTORY OF OIL OR GAS WELL

16-48084-2 U. S. GOVERNMENT PRINTING OFFICE

RECORDS AND COMMUNICATIONS SECTION

Boat Burn to Grounded	Quitting Boat	Boat Tied Up	Transfer to other vessel	Abandonment	Sold

FLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

[illegible]

TOOLS USED

[illegible]

DATE

If gas well, cut the per 24 hours	Gallons produced per 1000 cu. ft. of gas
Mulsion; % water; and % sediment	
The production for the first 24 hours was _____ barrels of fluid of which % was oil;	Put to producing _____ 10

EMPLOYEES

Driller		Driller
Driller		Driller

FORMATION RECORD

[illegible]