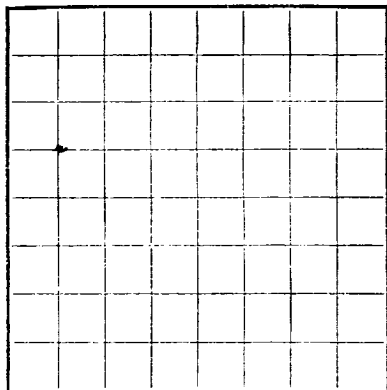




LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe

SERIAL NUMBER _____

LEASE OR PERMIT TO PROSPECT _____

14-20-603-73UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Atlantic Refining Co. Address Box 520, Casper, WyomingLessor or Tract Tribal (Navajo) Field Horseshoe Gallup State New MexicoWell No. 51 Sec. 32 T. 31N R. 16W Meridian NMPN County San JuanLocation 1980 ft. N of 1 Line and 660 ft. E of 1 Line of Section 32 Elevation 5324.0 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 5-7-59 Title District Clerk

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

Commenced drilling 4-21, 1959 Finished drilling 5-1, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1114 to 1138 No. 4, from _____ to _____No. 2, from 1204 to 1236 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		Purpose
							From—	To—	
<u>8-5/8</u>	<u>34</u>	<u>8</u>	<u>Spring</u>	<u>115</u>	<u>2 Jets/ft.</u>	<u>(1114-1138)</u>	<u>1204</u>	<u>1236</u>	<u>Oil Stripping</u>
<u>4-1/2</u>	<u>12.7</u>	<u>12</u>	<u>Spring</u>	<u>120</u>	<u>2 Jets/ft.</u>	<u>(1204-1236)</u>			

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>99.88</u>	<u>115</u>	<u>Pump - Plug</u>	<u>8.9</u>	
<u>4-1/2</u>	<u>1287.70</u>	<u>120</u>	<u>Pump - Plug</u>	<u>8.9</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

_____, 1959 Put to producing _____, 1959

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____%

emulsion; _____% water; and _____% sediment. Gravity, °Bé. 11.0

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

Rock pressure, lbs. per sq. in. _____

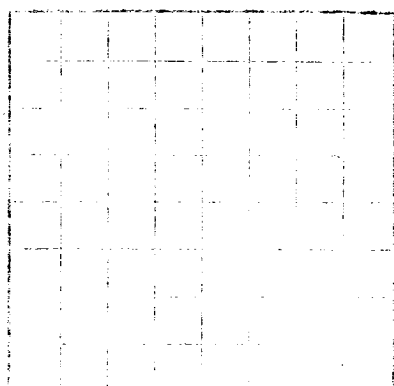
EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1075</u>		<u>Mancos</u>
<u>1075</u>	<u>1258</u>		<u>Gallup</u>
<u>1258</u>			<u>Ganja Lopez</u>
First Treatment -			
Treated perforations <u>1204-1236</u> with <u>20,000# 10/20 sand</u> and <u>13,252 gals.</u> lease crude. Average treating pressure <u>1000#</u> at <u>35.4 BPM.</u>			
Second Treatment -			
Treated perforations <u>1114-1138</u> with <u>20,000# 10/20 sand</u> and <u>11,550 gals.</u> lease crude. Average treating pressure <u>1100#</u> at <u>36.8 BPM.</u>			



INTERESTED PARTIES:

HOW EARLY DO YOU GET UP?

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
UNITED STATES

1992

The information given hereby is confidential and its disclosure would be injurious to the national defense.

(S) (U)

Approved for Release by NSA on 08-26-2013 pursuant to E.O. 13526

_____ (Print Name) _____
 _____ (Signature)
 _____ (Typed Name)

[illegible]

2006-07-01

$$0 \rightarrow \mathcal{O}_X(-1) \rightarrow \mathcal{O}_X \rightarrow \mathcal{O}_X(1) \rightarrow 0 \quad (1)$$

Received 10 July 1987; accepted 16 September 1987

ESTABLISHED RELAY TIMEFRAME

max 1.84% max 1.84% max 1.84%

and 1.57, 1.61, 1.65, 1.69, 1.73, 1.77, 1.81, 1.85, 1.89, 1.93, 1.97, 2.01, 2.05, 2.09, 2.13, 2.17, 2.21, 2.25, 2.29, 2.33, 2.37, 2.41, 2.45, 2.49, 2.53, 2.57, 2.61, 2.65, 2.69, 2.73, 2.77, 2.81, 2.85, 2.89, 2.93, 2.97, 3.01, 3.05, 3.09, 3.13, 3.17, 3.21, 3.25, 3.29, 3.33, 3.37, 3.41, 3.45, 3.49, 3.53, 3.57, 3.61, 3.65, 3.69, 3.73, 3.77, 3.81, 3.85, 3.89, 3.93, 3.97, 4.01, 4.05, 4.09, 4.13, 4.17, 4.21, 4.25, 4.29, 4.33, 4.37, 4.41, 4.45, 4.49, 4.53, 4.57, 4.61, 4.65, 4.69, 4.73, 4.77, 4.81, 4.85, 4.89, 4.93, 4.97, 5.01, 5.05, 5.09, 5.13, 5.17, 5.21, 5.25, 5.29, 5.33, 5.37, 5.41, 5.45, 5.49, 5.53, 5.57, 5.61, 5.65, 5.69, 5.73, 5.77, 5.81, 5.85, 5.89, 5.93, 5.97, 6.01, 6.05, 6.09, 6.13, 6.17, 6.21, 6.25, 6.29, 6.33, 6.37, 6.41, 6.45, 6.49, 6.53, 6.57, 6.61, 6.65, 6.69, 6.73, 6.77, 6.81, 6.85, 6.89, 6.93, 6.97, 7.01, 7.05, 7.09, 7.13, 7.17, 7.21, 7.25, 7.29, 7.33, 7.37, 7.41, 7.45, 7.49, 7.53, 7.57, 7.61, 7.65, 7.69, 7.73, 7.77, 7.81, 7.85, 7.89, 7.93, 7.97, 8.01, 8.05, 8.09, 8.13, 8.17, 8.21, 8.25, 8.29, 8.33, 8.37, 8.41, 8.45, 8.49, 8.53, 8.57, 8.61, 8.65, 8.69, 8.73, 8.77, 8.81, 8.85, 8.89, 8.93, 8.97, 9.01, 9.05, 9.09, 9.13, 9.17, 9.21, 9.25, 9.29, 9.33, 9.37, 9.41, 9.45, 9.49, 9.53, 9.57, 9.61, 9.65, 9.69, 9.73, 9.77, 9.81, 9.85, 9.89, 9.93, 9.97, 10.01, 10.05, 10.09, 10.13, 10.17, 10.21, 10.25, 10.29, 10.33, 10.37, 10.41, 10.45, 10.49, 10.53, 10.57, 10.61, 10.65, 10.69, 10.73, 10.77, 10.81, 10.85, 10.89, 10.93, 10.97, 11.01, 11.05, 11.09, 11.13, 11.17, 11.21, 11.25, 11.29, 11.33, 11.37, 11.41, 11.45, 11.49, 11.53, 11.57, 11.61, 11.65, 11.69, 11.73, 11.77, 11.81, 11.85, 11.89, 11.93, 11.97, 12.01, 12.05, 12.09, 12.13, 12.17, 12.21, 12.25, 12.29, 12.33, 12.37, 12.41, 12.45, 12.49, 12.53, 12.57, 12.61, 12.65, 12.69, 12.73, 12.77, 12.81, 12.85, 12.89, 12.93, 12.97, 13.01, 13.05, 13.09, 13.13, 13.17, 13.21, 13.25, 13.29, 13.33, 13.37, 13.41, 13.45, 13.49, 13.53, 13.57, 13.61, 13.65, 13.69, 13.73, 13.77, 13.81, 13.85, 13.89, 13.93, 13.97, 14.01, 14.05, 14.09, 14.13, 14.17, 14.21, 14.25, 14.29, 14.33, 14.37, 14.41, 14.45, 14.49, 14.53, 14.57, 14.61, 14.65, 14.69, 14.73, 14.77, 14.81, 14.85, 14.89, 14.93, 14.97, 15.01, 15.05, 15.09, 15.13, 15.17, 15.21, 15.25, 15.29, 15.33, 15.37, 15.41, 15.45, 15.49, 15.53, 15.57, 15.61, 15.65, 15.69, 15.73, 15.77, 15.81, 15.85, 15.89, 15.93, 15.97, 16.01, 16.05, 16.09, 16.13, 16.17, 16.21, 16.25, 16.29, 16.33, 16.37, 16.41, 16.45, 16.49, 16.53, 16.57, 16.61, 16.65, 16.69, 16.73, 16.77, 16.81, 16.85, 16.89, 16.93, 16.97, 17.01, 17.05, 17.09, 17.13, 17.17, 17.21, 17.25, 17.29, 17.33, 17.37, 17.41, 17.45, 17.49, 17.53, 17.57, 17.61, 17.65, 17.69, 17.73, 17.77, 17.81, 17.85, 17.89, 17.93, 17.97, 18.01, 18.05, 18.09, 18.13, 18.17, 18.21, 18.25, 18.29, 18.33, 18.37, 18.41, 18.45, 18.49, 18.53, 18.57, 18.61, 18.65, 18.69, 18.73, 18.77, 18.81, 18.85, 18.89, 18.93, 18.97, 19.01, 19.05, 19.09, 19.13, 19.17, 19.21, 19.25, 19.29, 19.33, 19.37, 19.41, 19.45, 19.49, 19.53, 19.57, 19.61, 19.65, 19.69, 19.73, 19.77, 19.81, 19.85, 19.89, 19.93, 19.97, 20.01, 20.05, 20.09, 20.13, 20.17, 20.21, 20.25, 20.29, 20.33, 20.37, 20.41, 20.45, 20.49, 20.53, 20.57, 20.61, 20.65, 20.69, 20.73, 20.77, 20.81, 20.85, 20.89, 20.93, 20.97, 21.01, 21.05, 21.09, 21.13, 21.17, 21.21, 21.25, 21.29, 21.33, 21.37, 21.41, 21.45, 21.49, 21.53, 21.57, 21.61, 21.65, 21.69, 21.73, 21.77, 21.81, 21.85, 21.89, 21.93, 21.97, 22.01, 22.05, 22.09, 22.13, 22.17, 22.21, 22.25, 22.29, 22.33, 22.37, 22.41, 22.45, 22.49, 22.53, 22.57, 22.61, 22.65, 22.69, 22.73, 22.77, 22.81, 22.85, 22.89, 22.93, 22.97, 23.01, 23.05, 23.09, 23.13, 23.17, 23.21, 23.25, 23.29, 23.33, 23.37, 23.41, 23.45, 23.49, 23.53, 23.57, 23.61, 23.65, 23.69, 23.73, 23.77, 23.81, 23.85, 23.89, 23.93, 23.97, 24.01, 24.05, 24.09, 24.13, 24.17, 24.21, 24.25, 24.29, 24.33, 24.37, 24.41, 24.45, 24.49, 24.53, 24.57, 24.61, 24.65, 24.69, 24.73, 24.77, 24.81, 24.85, 24.89, 24.93, 24.97, 25.01, 25.05, 25.09, 25.13, 25.17, 25.21, 25.25, 25.29, 25.33, 25.37, 25.41, 25.45, 25.49, 25.53, 25.57, 25.61, 25.65, 25.69, 25.73, 25.77, 25.81, 25.85, 25.89, 25.93, 25.97, 26.01, 26.05, 26.09, 26.13

CONFIDENTIAL

of the greatest importance to have a complete history of the well. Please state in detail the dates of fillings, 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 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.

HISTORY OF OIL OR GAS WELL

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

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