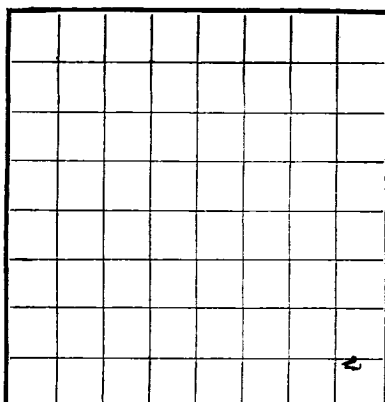


Santa Fe

U. S. LAND OFFICE

SERIAL NUMBER

51-20-509-736 PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Atlantic Refining Co. Address P.O. Box 520, Casper, Wyoming
Lessor or Tract Tribal (Navajo) Field Horseshoe Gallup State New Mexico
Well No. 1 Sec. 32 T. 31-N R. 16-W Meridian NEM County San Juan
Location 660 ft. N. of 1 Line and 117 ft. E. of 1 Line of Section 32 Elevation 5337.29
(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 _____ Title District Superintendent

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

Commenced drilling 9-9-58, 19____ Finished drilling 9-16-58, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1090 to 1110 No. 4, from _____ to _____
No. 2, from 1193 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>24</u>	<u>3rd</u>	<u>Big Hill 120-lb. Larkin</u>	<u>1277.61</u>	<u>1 3/4</u>	<u>1091</u>	<u>1091</u>	<u>1193</u>	<u>Surface Pipe</u>
<u>5 1/2</u>	<u>21</u>	<u>3rd</u>	<u>Big Hill 120-lb. Larkin</u>	<u>1277.61</u>	<u>1 3/4</u>	<u>1091</u>	<u>1091</u>	<u>1193</u>	<u>Oil String</u>
						<u>1193</u>	<u>1193</u>	<u>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>137.99'</u>	<u>75</u>	<u>Pump Plug</u>	<u>8.3</u>	
<u>5 1/2</u>	<u>1285.15</u>	<u>150</u>	<u>" "</u>	<u>8.3</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 0 feet to 1285 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. 100

If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas 11.0

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1090</u>		<u>Mangos shale</u>
<u>1090</u>	<u>1285</u>		<u>Gallup interbedded sandstone, and shale.</u>
<u>First fracture treatment</u>			
<u>Treated perforations 1193-1236 with 10,000 gallons of lease crude containing 10,000# 20/40 sand and 500# F.L. #2. Flushed with 33 bbls. of lease crude. Average injection rate 25.5 BPM. Maximum treating pressure 550#, minimum 35#.</u>			
<u>Second fracture treatment</u>			
<u>Perforations 1091, 1091 & 1099 - 1128 were treated with 9240 gallons of lease crude, 5000# 10-20 sand & 5000# 20/40 sand. Flushed with 30 bbls. of lease crude. Average injection rate 26.1 BPM. Max treating pressure 875#, minimum 725#.</u>			
<u>*24 hour rate on potential test limited due to capacity of pumps</u>			

(OVER)

16-43094-4

