

A blank 10x10 grid for graphing, consisting of 10 columns and 10 rows of squares. The grid is used for plotting the graph of the function $y = \frac{1}{2}x^2$.

U. S. LAND OFFICE ~~Santa Fe~~-----
SERIAL NUMBER -----
LEASE OR PERMIT TO PROSPECT -----

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 Navajo Lte. Mtn. Tribal Field Horseshoe Gallup State New Mexico
Navajo B
 Well No. 1720 Sec. 19 T. 31N R. 16W Meridian NM County San Juan
 Location 1920 ft. N of 4 Line and 70 ft. E of 4 Line of Sec. 19 Elevation 5618.5

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 _____ *H. L. Curry* _____
Date July 2, 1959 _____ Title District Clerk _____

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

Commenced drilling 6-23-59, 1959 Finished drilling 6-28-59, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1336 to 1344 No. 4, from 1344 to 1352

No. 2, from 141 to 142 No. 5, from 143 to 144

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—	
8 5/8	24	8	Hoover	92.24	Baker				
1 1/2	9.92	8	Hoover	1493.39	Clark	4 jobs/ft (1024)	1024	1444	oil spring
						(1443)		1452	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	100.24	115	pump-plug	8.7	
4 1/2	1500.42	150	pump-plug	8.7	

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 1535 feet, and from feet to feet.

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

DATES

7-2-59	19	Put to producing	7-7-59	19
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The production for the first 24 hours was 122 barrels of fluid of which 75% was oil.

emulsion: ----- % water: and ----- % sediment. **15** pump test Gravity °Bé **100**

If gas well, cu. ft. per 24 hours	Gallons gasoline per 1,000 cu. ft. of gas
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Rock pressure, lbs. per sq. in. _____

EMPLOYEES

EMPLOYEES

_____, Driller

_____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1292		Mancos
1292	1468		Gallup
1468			Juana Lopez
First Fracture Treatment			
Treated perforations 1443-1452 with 20,000 10/20 sand and 8568 gals lease crude. Average treating pressure 1800 at 24 BPM.			
Second Fracture Treatment			
Treated perforations 1326-1344 with 60,000 10/20 sand and 19,787 gals lease crude. Average treating pressure 1300 at 29.5BPM			

