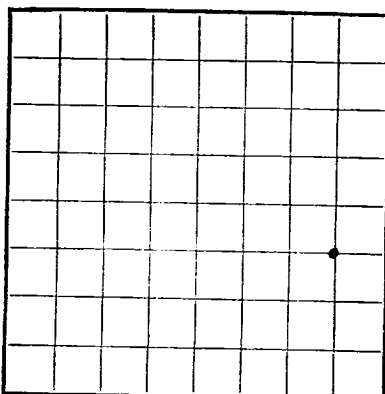


U. S. LAND OFFICE _____
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT _____
14-20001-72

COPIES
3
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 Horseshoe Gallup State New Mexico
 Well No. 46 Sec. 30 T. 31N R. 16W Meridian N.M.P. County San Juan
 Location 1980 ft. $\left\{ \begin{array}{l} \text{N.} \\ \text{S.} \end{array} \right\}$ of 5 Line and 660 ft. $\left\{ \begin{array}{l} \text{E.} \\ \text{W.} \end{array} \right\}$ of 2 Line of Sec. 30 Elevation 5476.03L
(Describe Base section)

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. Curry

Date 5-1-59 Title District Clerk

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

Commenced drilling 4-24-59, 1959 Finished drilling 5-4-59 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from <u>1231</u> to <u>1226</u>	No. 4, from _____ to _____
No. 2, from <u>1328</u> to <u>1346</u>	No. 5, from _____ to _____
No. 3, from _____ to _____	No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	107.99	115	pump-plug	S-9	
4 1/2	1773.56	150	pump-plug	B-9	

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 1400 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

5-14-59	19	Put to producing	5-13-59	19
---------	----	------------------	---------	----

The production ~~after~~ ^{before} ~~loss~~ ^{oil} ~~recovered~~ ^{after} ~~pressure~~ ^{treatment} _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% ¹⁰ sediment. ^{179.44} Gravity: °Bé _____ ^{1.0}

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 1166 1372	1166 1372		Mancos Gallup Juniper
First Fracture Treatment			
Treated perforations 1328-1346 with 20,000# 10/20 sand and 8950 gals lease crude. Average treating pressure 1600# at 28.8 S.M.			
Second Fracture Treatment			
Treated perforations 1201-1226 with 20,000# 10/20 sand and 6950 gals lease crude. Average treating pressure 1400 at 25.6 S.M.			
FROM -	TO -	TOTAL FEET	FORMATION

(OVER)
 FORWILLION RECORD-CONTINUED

13-43094-1

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares. There are faint horizontal lines across the page, suggesting it might be part of a notebook or a document where multiple sheets are visible. The paper is white with black grid lines.

Commenced drilling _____, 19____. Finished drilling _____, 19____.

The summary on this page is for the condition of the well as above dated _____.

Date _____ Title _____

(D) yd nup storoD)

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 8, from _____ to _____

No. 2, from _____ to _____ No. 4, from _____ to _____

Weight Per foot	Through inch	Make	Amount	Kind of shot - Cut and pulled from	Purpose
100	1 1/2	W. & W.	100	100	100

16-48094-2 U. S. GOVERNMENT PRINTING OFFICE

[illegible]