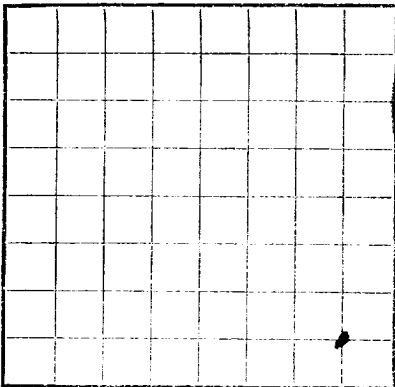


U. S. LAND OFFICE Gallup
SERIAL NUMBER Nav. Ute Tribal
LEASE OR PERMIT TO PROSPECT 14-2600-3531

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The Atlantic Refining Co Address Box 2197, Farmington N M
Lessor or Tract Navajo Field Many Rocks State New Mexico
Well No. 17-5 Sec. 17 T. 31N R. 16W Meridian NMPM County San Juan
Location 660 ft. N. of S Line and 660 ft. E. of E Line of Sec 17 Elevation 5695
(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 B. J. Sartin
Date 8-16-63 Title Drlg. & Prod. Supv.

The summary on this page is for the condition of the well at above date.
Commenced drilling 7-29-63, 1963 Finished drilling 7-29-63, 1963

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1632 to 1638 No. 4, from _____ to _____
No. 2, from 1764 to 1772 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—	
8-5/8	24	8	J&S	93.38	guide				
4-1/2	9.5	8	"	1825.10	Float		1632	1638	surface production
							1764	1772	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	105.18	85	pump & plug		cement circulated
4-1/2	1835.01	100 + 2 1/2 gal	"	8.7	40 bbl

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
		SEE BELOW				

TOOLS USED

Rotary tools were used from surface feet to 1855 TD feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing 8-12-63, 19____
The production for the first 24 hours was 120 barrels of fluid of which 100% was oil; 0%
emulsion; 0% water; and 0% sediment. Gravity, °Bé. 40.9° API
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. N.A.

EMPLOYEES

Whigham Drilling Co, Driller _____, Driller _____
_____, Driller _____, Driller _____

FORMATION RECORD

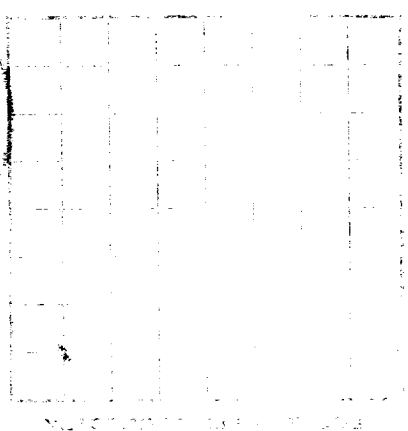
FROM—	TO—	TOTAL FEET	FORMATION
Surface	303	303	Mesaverde group
303	1597	1294	Mancos shale
1597	1775	178	Niobrara formation — <u>Shale</u> / (Upper Niobrara SS 1631-1645 (Basal Niobrara SS 1763-1775 Juana Lopez member — <u>Shale</u> / Carlile
1775	1787	12	
1787	1855 TD	68	

PERFORATING & FRACTURING

1764-1772: 150 gal mud acid, 16000# 10/20 sd & 2000# 8/12 sd in 22500 gal lease crude
1632-1638: 150 " 15000# " 1500# " 1900 "

LOG OF OIL OR GAS WELL

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The well was drilled on a lease owned by the State of Texas, and is located in the County of Harris, State of Texas. The well was drilled by the Texas Oil & Gas Company, and is now being operated by the Texas Oil & Gas Company. The well was drilled to a depth of 1,000 feet, and is now being operated at a pressure of 100 psi. The well is now being operated at a rate of 100 barrels per day.

OIL OR GAS SANDS OR ZONES

The well was drilled through the following sands and zones: ... The well was drilled through the following sands and zones: ... The well was drilled through the following sands and zones: ...

CASING

The well was cased with the following casing: ... The well was cased with the following casing: ... The well was cased with the following casing: ...

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, 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 "sidetracked" 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

FROM-	TO-	TOTAL FEET	FORMATION
1000	950	50	...
950	900	50	...
900	850	50	...
850	800	50	...
800	750	50	...
750	700	50	...
700	650	50	...
650	600	50	...
600	550	50	...
550	500	50	...
500	450	50	...
450	400	50	...
400	350	50	...
350	300	50	...
300	250	50	...
250	200	50	...
200	150	50	...
150	100	50	...
100	50	50	...
50	0	50	...