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U. S. LAND OFFICE
SERIAL NUMBER
LEASE PERMIT TO PROSPECT U.S.A.-
House Lease

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JAN 4 1951
HOES 2

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Amerada Petroleum Corporation Address Drawer D, Monument, New Mexico

Lessor or Tract U.S.A.-Howse Field House State New Mexico

Well No. 1 Sec. 12 T. 20 R. 38 Meridian N.M.P. County Lea

Location 1980 ft. ^{N.}_{S.} of 5 Line and 660 ft. ^{E.}_{W.} of 5 Line of Section 12 Elevation 3578'
(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 [Signature] Title Assistant District Superintendent

Date January 29, 1951

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

Commenced drilling December 17, 1950 Finished drilling January 23, 1951

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from None to _____ No. 4, from _____ to _____

No. 2, from _____ to _____ 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	
11-3/4	47.1	8-14	S.S.	390'	Guide				
7-5/8	24.4	8-14	S.S.	308'	Float	When abandoning well cut casing off at 400' & recovered 390.64'.			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
11-3/4	307'	250	Halliburton		
7-5/8	3100'	1200	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material None Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
		<u>None</u>				

TOOLS USED

Rotary tools were used from _____ feet to 7247 feet, and from _____ feet to _____ feet

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

DATES

January 29, 1951 Put to producing Plugged & Abandoned 1951

The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

L. W. Dewees, Driller Malvin Whitman, Driller

R. W. [unclear], Driller _____, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	6	6	Caliche
6	73	67	Caliche
73	95	22	Caliche & Shells
95	1360	1265	Red Bed
1360	1400	40	Red Bed & Anhydrite Streaks
1400	1580	180	Red Sand
1580	1670	90	Anhydrite
1670	2730	1060	Salt
2730	2865	135	Red Bed & Anhydrite
2865	3800	935	Red Sand & Anhydrite w/Minor Dolomite
3800	4310	510	Anhydrite & Dolomite
4310	5630	1320	Dolomite
5630	6070	440	Dolomite w/Minor Sands
6070	6560	490	Dolomite w/Minor Amounts of Shale
6560	6680	120	Dolomite w/Minor Amounts of Sand
6680	7090	410	Dolomite
7090	7247	157	Limestone w/Minor Amounts of Dolomite
	7247		Total Depth

(See reverse side for Geological Data, Slope Tests and Drill Stem Test information).

FORMATION RECORD—Continued

FROM	TO	TOTAL FEET	FORMATION
<u>GEOLOGICAL DATA</u>			<u>SLOPE TESTS</u>
Top Anhydrite	1583'		250' 1-1/4 Deg.
Top Salt	1671'		720' -3/4 "
Base Salt	2729'		1050' -3/4 "
Top Bates	2865'		1642' -1/2 "
Top San Andres	4310'		1923' Straight
Base San Andres	5630'		2550' -1/2 "
Top Clear Fork	6070'		2996' 1-1/2 "
Top Tubbs	6560'		3319' -3/4 "
Total Depth	7247'		3811' -3/4 "
			4390' 1- "
			4810' 2-1/4 "
			5329' 1-1/2 "
			5932' 1-1/2 "
			6006' 1-3/4 "
			6463' 1-1/2 "
			6914' 2-3/4 "
			7105' 1-1/2 "
<u>DRILL STEM TESTS</u>			
4284' - 4420', op 4 hrs., op w/fair blow air, gas to surface in 2 hrs. & 40 min. Rec. 590' oil & gas cut drlg. mud.			
4420' - 4515', op 4 hrs., op w/fair blow air, gas to surface in 35 min., fair blow gas throughout test. Rec. 360' heavy oil & gas cut mud, 360' sulphur water.			
6825' - 7018', op 2 hrs., 15 min., op w/fair blow air which lasted 1-1/4 hr. & died Rec. 398' drlg. mud, no shows oil, gas or water.			
7018' - 7075', op 4 hrs., op w/light blow air which decreased to weak blow & continued throughout test. Rec. 322' gas cut drlg. mud, no oil or water.			
7075' - 7105', op 4 hrs., op w/good blow air, decreasing to weak blow at end of test Rec. 177' gas cut drlg. mud w/rainbow show oil, no water.			
7105' - 7247', op 1-1/4 hr., op tool w/weak blow air for 2 min. & died. Left open hr., closed & re-opened tool w/few bubbles & died. Rec. 270' drlg. mud, no oil, gas or water.			

HISTORY OF OIL OR GAS WELL

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.

1. NAME (Last, first, middle initial)	2. DATE OF BIRTH	3. PLACE OF BIRTH	4. SEX	5. RACE	6. RELIGION	7. OCCUPATION	8. EDUCATION	9. MARITAL STATUS	10. SOCIAL SECURITY NUMBER	11. HOME ADDRESS	12. PHONE NUMBER	13. EMPLOYER	14. DATE OF ENTRY	15. DATE OF DEPARTURE	16. DATE OF ARRIVAL	17. DATE OF DEPARTURE	18. DATE OF ARRIVAL	19. DATE OF DEPARTURE	20. DATE OF ARRIVAL
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JAN 10 1964
U.S. AIR FORCE
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WASHINGTON, D.C.

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