



U. S. LAND OFFICE New Mexico
SERIAL NUMBER 0634
LEASE OR PERMIT TO PROSPECT U.S.A.-
Howse Lease

DEPARTMENT OF THE INTERIOR
BIOLOGICAL SURVEY

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 Howse State New Mexico
Well No. 1 Sec. 12 T. 20 R. 38 Meridian N.M.P. County Lea
Location 1980 ft. N. of 3 Line and 660 ft. E. of 1 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

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	
<u>11-3/4</u>	<u>47.1</u>	<u>8-Rd.</u>	<u>S.S.</u>	<u>390'</u>	<u>Guide</u>				
<u>7-5/8</u>	<u>26.4</u>	<u>8-Rd.</u>	<u>S.S.</u>	<u>3086'</u>	<u>Float</u>	<u>When abandoning well cut casing off at 400' & recovered 390.64'.</u>			

MUDDING AND CEMENTING RECORD

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

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 0 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
S. D. ..., Driller _____, Driller

FORMATION RECORD

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

(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 Yates	2865'		1442'	-1/2 "
Top San Andres	4310'		1923'	Straight
Base San Andres	5630'		2490'	-1/2 "
Top Clear Fork	6070'		2996'	1-1/2 "
Top Hobbs	6560'		3315'	-3/4 "
Total Depth	7247'		3811'	-3/4 "
			4230'	1-
			4828'	1-1/4 "
			5525'	1-1/2 "
			5932'	1-1/2 "
			6006'	1-3/4 "
			6463'	1-1/2 "
			6944'	1-3/4 "
			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 1 hr., closed & re-opened tool w/few bubbles & died. Rec. 270' drlg. mud, no oil, gas or water.				

HISTORY OF OIL OR GAS WELL

6-6745

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.

