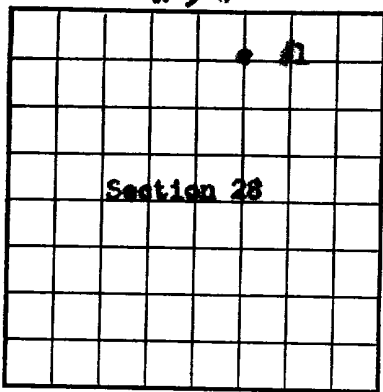


Form 9-380

R-5-W



U. S. LAND OFFICE
Jicarilla Apache
Jicarilla Tribal
No. 12 - Tract No. 20
LEASE OR PERMIT TO PROSPECT
Jicarilla Apache

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Amerada Petroleum Corporation Address Drawer D, Monument, New Mexico
Lessor or Tract Jicarilla Apache Field Wildcat State New Mexico
Well No. 1 Sec. 28 T 24-N R 5-W Meridian N.M.P.M. County Rio Arriba
Location 660 ft. N. of N. Line and 1980 ft. W. of E. Line of Section 28 Elevation 6678' D.F.
(Datum 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.

Date January 17, 1952 Signed [Signature] Title Assist. Dist Superintendent

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

Commenced drilling 8/23/51, 19... Finished drilling 10/18/51, 19...

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

No. 1, from ... 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—	
10-3/4	40.54	8-RT	Smith	595	Guide				
8-1/2	27.20	8-RT	Smith	4260	Float	774'			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	609	350	Halliburton		
7	4760	300	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
		Oilwell Liquid Explosive	300 lbs	12/11 1951	4310-4375	4400' (Plug Back Depth)

TOOLS USED

Rotary tools were used from 0' feet to 6942' feet, and from ... feet to ... feet
Cable tools were used from ... feet to ... feet, and from ... feet to ... feet

DATES

January 17, 1952, 19... Put to producing Plugged & Abandoned, 19...
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

Dan Beard, Driller E. A. Rappond, Driller
Marvin E. Smith, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	38'	38	Sand and Gravel
38	2183	2145	Sand and Shale
2183	2230	47	Shale
2230	2265	35	Sand
2265	2278	13	Shale and Sand
2278	3026	748	Shale
3026	3084	58	Shale and Chalky Sand
3084	3290	206	Shale and Sand
3290	3729	439	Shale
3729	3797	68	Shale and Sand
3797	3815	18	Sand
3815	3942	127	Sand and Shale
3942	4090	148	Sand with Shale Streaks
4090	4405	315	Shale and Sand
4405	4440	35	Sand, Shale and Coal
4440	4973	533	Shale and Sand
4973	5388	415	Shale
5388	5737	349	Shale and Sand
5737	5871	134	Shale
5871	5925	54	Shale and Sand
5925	6663	738	Shale
6663	6863	200	Shale and Sand
6863	6876	13	Sand
6876	6942	66	Sand and Shale

~~LOG OF OIL OR GAS WELL~~ GEOLOGICAL DATA

LOCATE WELL CORRECTLY

[illegible]

Top	Bottom	Thickness	Remarks
Top Pictured Cliff	2225'		
Top Lewis	2365'		
Top Cliffhouse	3797'		
Top Point Lookout	4305'		
Top Mancos Shale	4600'		
First Sand	5526'	5526' to 5536'	
Second Sand	5617'	5617' to 5636'	
Third Sand	5809'	5809' to 5830'	
Top Dakota	6712'		
Top Second Dakota	6813.2'		
Top First Morrison Sand	6938'		

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

OIL OR GAS SANDS OR ZONES

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SLOPE TESTS

SLOPE TESTS

WATERBURY, CT. 1/14 deg.

1000'	Straight	1000'
1250'	Straight	1250'
1500'	1 1/4"	1500'

1798 **DOUG DUNEAC** **Straight**

	2000	Straight			
	2230	-1/4 deg.			
	2500	Straight			

It is of the greatest importance to have a complete history of the well. Please state in detail the dates with the reasons for the work and its results. If there were any changes made in the casing, state fully, and "deducted" or left in the well, give its size and location. If the well has been dynamited, give date, size, and amount. If piers or bridges were built for water, state kind of material used, position, and results of work.

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
3600'	-1/4	480.00	480.00
3250'	-1/4	406.25	406.25
3500'	-1/2	700.00	700.00
3740'	-1/2	748.00	748.00
4790'	-3/4	1147.50	1147.50
5080'	-1/4	635.00	635.00
6646'	-3/4	1661.50	1661.50

FILES AND ADAPTERS

[illegible]

SHOOTING RECORD

[illegible]

TOOLS USED

foot	to feet	feet and from	feet to	feet were used from
foot	to feet	feet and from	feet to	feet were used from

DATE

10	Put to producing	10
----	------------------	----

The production for the first 24 hours was _____ barrels of fluid of which _____ was oil; _____

mulson; and	% water; and	% sediment	Gravity, °Be
-------------	--------------	------------	--------------

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

EMPLOYEES

Diller			
Diller			

FORMATION RECORD

[illegible]

RECEIVED

DRILL STEM TESTS

JAN 24 1952

- D.S.T. #1—from 2228' to 2445' (Pictured Cliff) 2-1/2 hour Test. 4 1/2" Drill Pipe. 5/8" bottom and 1" top chokes. Perforations from 2228' to 2243' and from 2435' to 2445'. Gas to surface in 40 minutes—Gas Vol. 110,000 cu ft per day. Closed tool @ 3 PM. Recovered 185' Gas Cut Drlg. Mud. Amerada Chart Hyd in 1155, out 1130, IFP 25, FFP 115, 1/4 hour BUP 740.
- D.S.T. #2 from 3166' to 3215' (Pictured Cliff) 1 hour Test. 4 1/2" Drill Pipe. 5/8" bottom and 1" top chokes. Opened tool at 12:30 AM with weak blow for 3 minutes and died. Closed tool @ 1:30 AM for 1/4 hour BUP. Recovered 40' Mud. No show of oil, gas, or water. Amerada Chart Hyd in 1610, out 1585, IFP 0, FFP, 0, 1/4 hour BUP 0.
- D.S.T. #3—from 3793' to 3840' (Cliffhouse Sandstone) 2 hour Test. 4 1/2" Drill Pipe. 5/8" bottom & 1" top Chokes. Perforations from 3793' to 3798' and from 3832' to 3840'. Opened tool @ 11:30 PM w/good blow which decreased to weak blow. Closed tool @ 1:30 AM for 1/2 hour BUP. Recovered 90' Mud cut slightly with salt water and 1935' Salt Water. Amerada Hyd in 1880#, out 1860, IFP 70, FFP 855, 1/2 hour BUP, 1315.
- D.S.T. #4—from 3844' to 3924' (Cliffhouse Sandstone) 2 hour test. 4 1/2" drill pipe. 5/8" bottom & 1" top chokes. Opened tool @ 2:20 AM with fair to weak blow. Closed tool @ 4:20 AM for 1/2 hour BUP. Recovered 540' fresh muddy water. Amerada Hyd in 1885', out 1860, IFP 45, FFP 230', 1/2 hour BUP 1295.
- D.S.T. #5—from 3930' to 4090' (Menefee) 2 hour Test. 4 1/2" Drill Pipe. 5/8" Bottom and 1" top chokes. Opened tool @ 3:20 PM with weak blow throughout test. Closed tool @ 5:20 PM for 1/4 hour BUP. Recovered 160' Drlg. Mud. Amerada Chart Hyd in 1975', out 1860, IFP 70, FFP 95, 1/4 hour BUP 905.
- D.S.T. #6—from 4089' to 4299' (Menefee) 2 hour Test. 4 1/2" drill pipe. 5/8" bottom and 1" top chokes. Perforations from 4089' to 4099'. Opened tool at 5:20 AM with fair blow which decreased to weak blow. Closed tool at 7:20 AM. Recovered 630' mud and fresh water. Amerada Chart Hyd in 2330, out 2240, IFP 320, FFP 320, 1/2 hour BUP 1520.
- D.S.T. #7—from 4303' to 4440'. (Point Lookout) 2 hour Test. 4 1/2" drill Pipe. Perf. from 4303' to 4313' and from 4430' to 4440'. 5/8" bottom & 1" top chokes. Opened tool at 11 AM—Gas to surface in 3 minutes. No fluid to surface. Closed tool at 1 PM Gas Vol. 759,000 cu ft per day. Recovered 270' gas cut Drlg. Mud. Amerada Hyd in 2250, out 2205, IFP 165, FFP 205, 1/2 hour BUP, 1635.
- D.S.T. #8—from 4452' to 4671' (Point Lookout) 2 hour Test. 4 1/2" Drill Pipe. 5/8" bottom and 1" top chokes. Opened tool @ 2:15 AM—Gas to surface in 50 minutes. Gas Vol. 7,270 cu ft p/d No Fluid to surface. Closed tool @ 4:15 AM for 1/2 hour BUP. Recovered 480' gas cut drlg mud. Amerada Hyd in 2275, out 2250, IFP 25, FFP 205, 1/2 hour BUP 1385.
- D.S.T. #9—From 5516' to 5655'—No Test—Packers failed—

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DIST. 3

JAN 14 1962
D.S.T. #10—from 5526' to 5655' (Tocito Sandstone) 2 hour Test. 4½" drill pipe. 5/8" bottom & 1" top chokes. Opened tool @ 5 AM with fair to weak blow thru—out test. Closed tool @ 7 AM for 1/2 hour BUP. Recovered 450' Mud very slightly gas cut. Amerada Hyd in 2865#, out 2856#, IFP 210#, FFP 210#, 1/2 hour BUP 1150#. (BUP on Halliburton Chart—Amerada failed.)

D.S.T. #11—from 5807' to 5925' (Tocito Sandstone) 2 hour Test. 4½" Drill pipe. 5/8" bottom & 1" top Chokes On trip in with Test Tool, hit bridge at 900' —tool opened momentarily. Opened tool @ 1:15 AM with fair to weak blow which continued thruout test. Closed tool @ 3:15 AM. Recovered 720' gas cut drlg mud. Amerada Hyd in 3145, out 3145, IFP 120, FFP 245, No BUP. Pulled Pkrs Loose.

D.S.T. #12—from 6721' to 6785' (Dakota Sand) 5½ hour Test. 4½" drill pipe. 3/4" bottom & 1" top chokes. Opened tool at 4:55 AM with good blow of air. Gas to surface in 12 minutes. No fluid to surface. Closed tool at 10:30 AM for 1/2 hour BUP. Gas Vol. 142,000 cu ft p/c Recovered 250' gas & distillate cut Drlg. Mud, and 1 gallon free blue distillate. Amerada Hyd in 3700, out 3625, IFP 125, 1/2 hour BUP 2825. (FFP 125.)

D.S.T. #13—from 6776' to 6838' (Dakota Sand) 2 hour & 50 minute Test. 5½" drill pipe. 5/8" bottom & 1" top chokes. Opened tool at 12:10 PM with weak blow of air for 20 minutes and died. Closed tool at 1:30 AM and re-opened at 2 AM with weak blow for 30 minutes and died. Closed tool for 1/2 hour BUP. Recovered 450' Mud. No show of oil, gas or water. Amerada Hyd in 3520, out 3440, IFP 30, FFP 30, 1/2 hour BUP 60.

D.S.T. #14—from 6838' to 6876' (Dakota Sand) 1 hour & 35 minute Test. 4½" drill pipe. 5/8" bottom & 1" top chokes. Tool open at 1:35 PM with weak blow for 35 minutes and died. Closed tool @ 3:10 PM for 1/2 hour BUP. Recovered 120' drlg. mud. Amerada Hyd in 3485, out 3435, IFP 45, FFP 95, 1/2 hour BUP 95.

D.S.T. #15—from 6876' to 6946' (Dakota Sand) 2 hour Test. 4½" drill pipe. 5/8" bottom & 1" top chokes. Opened tool at 3:20 PM with good to weak blow throughout test. No fluid to surface. Closed tool at 5:20 PM. Recovered 6400' fresh water. Amerada Hyd in 3455, out 3435, IFP 1725, FFP 2755, BUP failed. (Tool failed to close).