

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **American Petroleum Corporation**, Address **Drawer 9 - Monument, New Mexico**
Lessor or Tract **H. W. Andrews Lease** Field **Lamont** State **New Mexico**

Well No. **13** T20-S R36-E Meridian **N.M.P.** County **Lea**

Location **1980** ft. [N] of **S** Line and **660** ft. [E] of **W** Line of **23** Elevation **3590** ft. (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]**

Date **July 2, 1955** Title **Foreman**

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

Commenced drilling **June 18, 1955** Finished drilling **June 27th, 1955**

Oil or Gas Sands or Zones

Denote gas by G

No. 1 from **3819'** to **3820'**

No. 2 from **3820'** to **3821'**

No. 3 from **3821'** to **3822'**

No. 4 from **3822'** to **3823'**

No. 5 from **3823'** to **3824'**

No. 6 from **3824'** to **3825'**

IMPORTANT WATERSANDS

No. 1 from **3825'** to **3826'**

No. 2 from **3826'** to **3827'**

No. 3 from **3827'** to **3828'**

No. 4 from **3828'** to **3829'**

No. 5 from **3829'** to **3830'**

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#	8R		144'	Guide				
5-1/2"	24#	8R		3830'	Production				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	1431'	800	Halliburton		
5-1/2"	3875'	400	Halliburton		

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
Acidized 5-1/2"	OD casing	perforations	from 3819'	to 3850'	with 1000 gallons 15% LST Acid.	
Sand-illed 5-1/2"	OD casing	perforations	from 3819'	to 3850'	with 25,000 gallons of oil and with 25,000 lbs. of sand.	

TOOLS USED

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

DATES

Put to producing **July 1, 1955**
The production for the first 24 hours was **89.73** barrels of fluid of which **65%** was oil; _____% emulsion; **35%** water; and _____% sediment. Gravity, °Bé. **31.2 corrected.**
If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

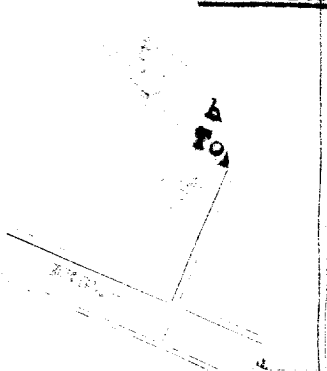
EMPLOYEES

H.L. Brigan, Driller
W.L. Morphis, Driller
T.L. Henson, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0'	6'	6'	Cellar
6'	1399'	1393'	Red Beds
1399'	1500'	101'	Anhydrite
1500'	2737'	1237'	Anhydrite, Salt & Shale
2737'	2892'	155'	Anhydrite & shale.
2892'	3028'	136'	Sand, Anhydrite and Shale.
3028'	3193'	165'	Sand, Anhydrite and Dolomite.
3193'	3875'	682'	Dolomite and Sand.

ARGER TOPS



1399'
1500'
2737'
2892'
3028'
3193'
3875'

FORMATION RECORD--Continued

FROM		TOTAL FEET	FORMATION
1050	3851	1050	...
1058	3120	1058	...
5885	3000	5885	...
1021	3025	1021	...
1200	431	1200	...
1034	1200	1034	...
0	1200	0	...
0	0	0	...

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 detracked 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.

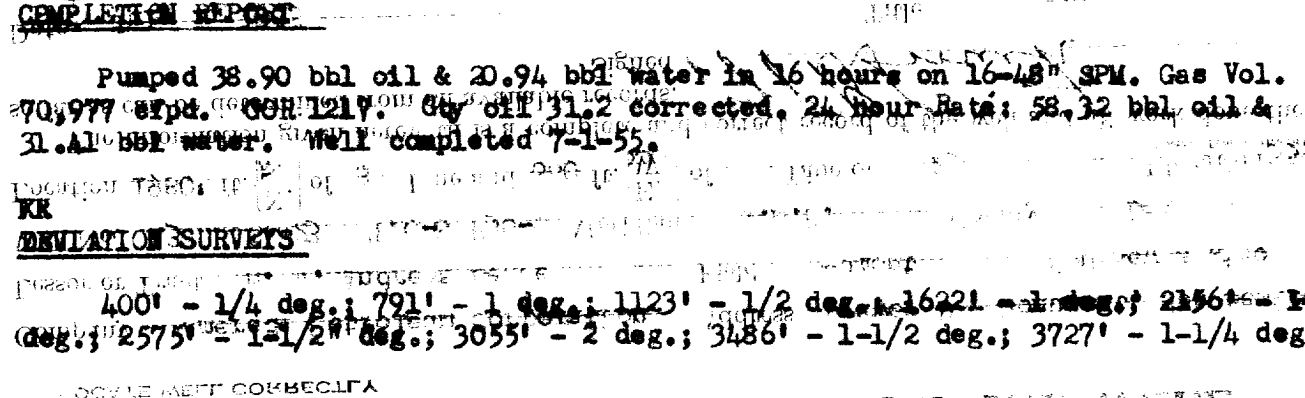
WELL HISTORY
 Spudded 12-1/2" hole at 12:30 PM, 6-18-55. Finished 12-1/2" hole to 1434' at 8:15 PM, 6-20-55. Ran 34 joints of 8-5/8" OD casing set at 1431' and cemented with 600 sacks. Cement Circulated. Started drilling 7-7/8" hole from 1434' at 4:30 AM, 6-22-55. Drilled with gamma ray. Ran Schlumberger Gamma Ray, Neutron surveys, from surface to 3875'; Induction log from 1434' to 3875'; Detail from 2690' to 3875'. Ran 93 joints 5-1/2" OD casing set at 3875' with 400 sacks. Ran temperature survey and found top of cement outside 5-1/2" OD casing at 476' or 121% fill. Perforated 5-1/2" OD casing from 3819' to 3850' with 124 bullets. Ran 222 joints of 2-3/8" OD BUE tubing set at 3843', 6-28-55. Acidized 5-1/2" OD casing perforations from 3819' to 3850' with 1000 gallons of 15% IST Acid. Sand-oiled 5-1/2" OD casing perforations from 3819' to 3850' with 25,000 gallons of oil and with 25,000 lbs. of sand.

CASING RECORD
 Spudded 12-1/2" hole at 12:30 PM, 6-18-55. Finished 12-1/2" hole to 1434' at 8:15 PM, 6-20-55. Ran 34 joints of 8-5/8" OD casing set at 1431' and cemented with 600 sacks. Cement Circulated. Started drilling 7-7/8" hole from 1434' at 4:30 AM, 6-22-55. Drilled with gamma ray. Ran Schlumberger Gamma Ray, Neutron surveys, from surface to 3875'; Induction log from 1434' to 3875'; Detail from 2690' to 3875'. Ran 93 joints 5-1/2" OD casing set at 3875' with 400 sacks. Ran temperature survey and found top of cement outside 5-1/2" OD casing at 476' or 121% fill. Perforated 5-1/2" OD casing from 3819' to 3850' with 124 bullets. Ran 222 joints of 2-3/8" OD BUE tubing set at 3843', 6-28-55. Acidized 5-1/2" OD casing perforations from 3819' to 3850' with 1000 gallons of 15% IST Acid. Sand-oiled 5-1/2" OD casing perforations from 3819' to 3850' with 25,000 gallons of oil and with 25,000 lbs. of sand.

COMPLETION REPORT
 Pumped 38.90 bbl oil & 20.94 bbl water in 16 hours on 16-48" GPM. Gas Vol. 70,977 cu ft. GOR 1217. Gey oil 31.2 corrected. 24 hour Rate: 58.32 bbl oil & 31.11 bbl water. Well completed 7-1-55.

DEVIATION SURVEYS
 400' - 1/4 deg.; 791' - 1 deg.; 1123' - 1/2 deg.; 1622' - 1 deg.; 2156' - 1-1/2 deg.; 2575' - 1-1/2 deg.; 3055' - 2 deg.; 3486' - 1-1/2 deg.; 3727' - 1-1/4 deg.

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