



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

WELL RECORD

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

Amerada Petroleum Corporation State S. NJ#
(Company of Operator) (Lease)

Well No. 2, in NW ¼ of SW ¼, of Sec. 23, T. 14-South, R. 33-East, NMPM.
Saunders Pool, Lea County.

Well is 1980' feet from West line and 660' feet from South line
of Section 23. If State Land the Oil and Gas Lease No. is B-2075.

Drilling Commenced May 15, 1958, 19 58 Drilling was Completed June 26, 19 58.

Name of Drilling Contractor McVay & Stafford Drilling Company
Address 1110 Philtower, Tulsa, Oklahoma

Elevation above sea level at Top of Tubing Head 4204' DF. The information given is to be kept confidential until _____, 19 _____.

OIL SANDS OR ZONES

No. 1, from 9766' to 9880' No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
No. 2, from _____ to _____ feet.
No. 3, from _____ to _____ feet.
No. 4, from _____ to _____ feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	NEW OR USED	AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
10-3/4"	29	NEW	280'	Guide			Surface
7-5/8"	26.40	NEW	4167'	Float			Intermediate
5-1/2" *	17	NEW	5960'	Float			Production
* Liner Top @ 4050'							

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
15"	10-3/4"	294'	250	Halliburton		
9-7/8"	7-5/8"	4167'	1500	Halliburton		
6-3/4"	5-1/2"	10015'	540	Halliburton		

RECORD OF PRODUCTION AND STIMULATION

(Record the Process used, No. of Qts. or Gals. used, interval treated or shot.)

Acidized w/1000 Gal Western 15% LST Acid & 12# Rubber Ball Sealers

Result of Production Stimulation Completion Test: Flowed 180 Bbls Oil, 40 Bbls Water 18 Hrs on
10/64" Choke, IP 650#, Gas Vol 359,000 cfd, COR 1496', 24 Hour Rate 240 Bbls Oil Per Day
.....Depth Cleaned Out.....

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

TOOLS USED

Rotary tools were used from 0' feet to 10015' feet, and from _____ feet to _____ feet.
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

PRODUCTION

Put to Producing June 30, 1958
 OIL WELL: The production during the first 13 hours was 148 249 barrels of liquid of which 60 % was
 was oil; _____ % was emulsion; 40 % water; and _____ % was sediment. A.P.I.
 Gravity 42
 GAS WELL: The production during the first 24 hours was _____ M.C.F. plus _____ barrels of
 liquid Hydrocarbon. Shut in Pressure _____ lbs.

Length of Time Shut in _____

PLEASE INDICATE BELOW FORMATION TOPS (IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE):

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy.....	<u>1600'</u>	T. Devonian.....	T. Ojo, Alamo.....
T. Salt.....	<u>1696'</u>	T. Silurian.....	T. Kirtland-Fruitland.....
B. Salt.....	<u>2493'</u>	T. Montoya.....	T. Farmington.....
T. Yates.....	<u>2660'</u>	T. Simpson.....	T. Pictured Cliffs.....
T. 7 Rivers.....		T. McKee.....	T. Menefee.....
T. Queen.....	<u>3428'</u>	T. Ellenburger.....	T. Point Lookout.....
T. Grayburg.....		T. Gr. Wash.....	T. Mancos.....
T. San Andres.....	<u>4117'</u>	T. Granite.....	T. Dakota.....
T. Chert Clearfork	<u>6359'</u>	T.	T. Morrison.....
T. Drinkard.....		T.	T. Penn.....
T. Tubbs.....	<u>7000'</u>	T.	T.
T. Abo.....	<u>7740'</u>	T.	T.
T. Box Wolfeamp	<u>9070'</u>	T.	T.
T. Box Penn	<u>9340'</u>	T.	T.

FORMATION RECORD

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	6'	6'	Cellar				
6'	220'	214'	Sand & Caliche				
214'	1600'	1386'	Red Bed Sand, Shale				
1600'	1696'	96'	Anhydrite				
1696'	2493'	797'	Salt & Anhy				
2493'	2660'	167'	Anhy				
2660'	2813'	153'	Anhy Shale				
2813'	3428'	615'	Anhy Dolomite, Sand				
3428'	4117'	689'	Sand Dolomite				
4117'	5620'	1503'	Dolomite				
5620'	6359'	739'	Sand, Shale, Dolomite				
6359'	7000'	641'	Dolomite & Shale				
7000'	7136'	136'	Dolomite & Shale				
7136'	7740'	604'	Dolomite & Shale				
7740'	9070'	1330'	Shale, Anhy, Dolomite				
9070'	9340'	270'	Dolomite & Chert				
9340'	10015'	675'	Line & Shale				
	10015'		TD				

ATTACH SEPARATE SHEET IF ADDITIONAL SPACE IS NEEDED

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Date July 18, 1958 (Date)

Company or Operator Amesada Petroleum Corporation Address Box 636, Lovington, New Mexico
 Name W. J. Anderson Position or Title Foreman

AMERADA PETROLEUM CORPORATION

STATE S "J" Well No. 2

D.S.T. & SLOPE TEST SURVEYS

- DST #1 - 9750' to 9833' 5 Hr Test 4" DP, 5/8" Bottom & 1" Top Choke, Open Tool with good blow air, Gas Surface 6 Min, Mud 30 Min, Salt Water & Oil 35 Min. Flowed 21 Bbls Oil, 75 Bbls Salt Water 4 Hrs, Reversed Out 21 Bbls Oil, 44 Bbls Water, Gas Vol 148,860 to 481,710 cfpd, Pressures, Hydro In 4420#, HO 4380#, ISIP 3670#, IF 1285#, FF 2910# 30 Min BU 3215# Total Recovery 42 Bbls Oil, 119 Bbls Water.
- DST #2 - 9860' to 9900' 5 Hr 25 Min Test, 4" DP 5/8" Bottom & 1" Top Choke, Opened Tool with Strong Blow Air, Gas to Surface 3 Min, Oil 1 Hr 25 Min, 4 Hrs Flowed 36 Bbls Oil, 8.25 Bbls Water Gas Vol 320,000 to 178,000 cfpd, Reversed out 14 Bbls Oil, 14 Bbls Water, Pressures HI 4650#, HO 4605#, ISIP 3100#, IF 380#, FF 1615#, 30 Min BU 2375#
- DST #3 - 9900' to 9945' 4 Hr Test 4" DP w/5/8" Bottom & 1" Top Choke, Opened Tool w/Fair blow air Decreased to Weak Blow in 15 Min, for Remainder of Test, Closed tool and gas surfaced 5 min after tool closed, Recovered 155' Fluid, 70% Drlg Mud, 20% Gas, 10% Oil, & 573' Salt Water, 55' Salt Water Below TC Valve, Pressures HI 4650#, HO 4605#, ISIP 3210#, IF 95#, FF 310#, 30 Min BU 1410#
- DST #4 - 9955' to 10015' 1 Hr 15 Min Test, 4" DP 5/8" Bottom & 1" Top Choke, Opened Tool with No Blow, Used 1000' Water Blanket, Closed & Reopened Tool, w/Weak blow air & died IN Recovered 1000' Water Blanket, 120' Drlg Mud, Cut with Sulphur Water, Above TC Valve & 60' Sulphur Water Below TC Valve. No Show Oil, or Gas Pressure HI 4695#, HO 4650#, ISIP 3000#, IF 475#, FF 520#, 30 Min BU 3510#

SLOPE TEST SURVEYS

165'	1	Deg
1560'	1/2	
2490'	1-1/4	
2990'	3/4	
3760'	1/2	
4009'	3/4	
4493'	1/4	
4835'	0	
5334'	1-1/4	
5802'	1	
6388'	1	
6825'	1-1/4	
7108'	3/4	
7577'	3/4	
8112'	1-1/4	
8355'	2	
8584'	2-3/4	
8735'	3-1/4	
9078'	4	
9208'	3-3/4	
9300'	4-1/4	
9646'	4-3/4	
9737'	5-1/4	
0220'	5	

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
LABORATORY OF ORGANIC CHEMISTRY

1. The first step in the synthesis of the target molecule is the reaction of the starting material with the reagent to form the intermediate. This reaction is carried out in a dry, inert solvent at a temperature of 0°C to room temperature. The reaction mixture is then allowed to warm to room temperature and stirred for a period of time. The resulting intermediate is then purified by column chromatography using a silica gel column and a gradient of ethyl acetate in hexanes as the eluent. The pure intermediate is then subjected to a second reaction with a different reagent to yield the final product. This second reaction is also carried out in a dry, inert solvent at a temperature of 0°C to room temperature. The final product is purified by column chromatography using a silica gel column and a gradient of ethyl acetate in hexanes as the eluent. The yield of the final product is approximately 50%.

Time (min)	Retention Time (min)
10	10
20	20
30	30
40	40
50	50
60	60
70	70
80	80
90	90
100	100
110	110
120	120
130	130
140	140
150	150
160	160
170	170
180	180
190	190
200	200
210	210
220	220
230	230
240	240
250	250
260	260
270	270
280	280
290	290
300	300