

It is necessary that this form be submitted by the operator before an initial allowable will be assigned to any completed oil or gas well. Form C-110 (Certificate of Compliance and Authorization to Transport Oil) will not be approved until Form C-104 is filed with the Commission. Form C-104 is to be submitted in triplicate to the office to which Form C-101 was sent. Two copies will be retained there and the other submitted to the Proration Office, Hobbs, New Mexico. The allowable will be assigned effective 7:00 a.m. on date of completion, provided completion report is filed during month of completion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 P.B. at 60° Fahrenheit.

Monument, New Mexico  
Place

**August 25, 1951**  
Date

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Amerada Petroleum Corporation State S<sup>D</sup> Well No. 2 in SE 1/4 SW 1/4  
Company or Operator Lease

section 1, T. 15-S, R. 13-E, N.M.P.M. Saunders Pool Lee County

Please indicate location: Elevation 4201' D.F. Spudded 6/27/51 Completed 8/13/51

B-33-E			
Sec. 3			
. - #2			

Total Depth 9925' P.B. 9924'

Top Oil/Gas Pay 9780' Top Water Pay \_\_\_\_\_  
Initial Production Test: Pump \_\_\_\_\_ Flow 377.04 (BOPD OR CU. FT.  
GAS PER DAY)

Based on 299.04 Bbls. Oil in 26 Hrs. \_\_\_\_\_ Mins.

Method of Test (Pitot, gauge, prover, meter run): \_\_\_\_\_

Size of choke in inches 12/4"

Tubing (Size) 2-3/8" OD BUE 4.74 @ 9909' Feet

Pressures: Tubing 1500 Casing 3000

Gas/Oil Ratio 24.5 Gravity 42.4

### Casing Perforations:

5 1/2" Casing perforated from 9805' to 9908' w/ 1/4 Jet S.P.F.

Unit letter:     N    

Acid Record: Show of Oil, Gas and water

## Casing & Cementing Record

Size		Sex
Small		Male
Medium		Female
Large		Male
Very Large		Female

13-3/8	297"	250
8-5/8	4235'	1500
5-1/2	9915'	600

\_\_\_\_\_ Gals \_\_\_\_\_ to None S/ \_\_\_\_\_  
 \_\_\_\_\_ Gals \_\_\_\_\_ to \_\_\_\_\_ S/ \_\_\_\_\_  
 \_\_\_\_\_ Gals \_\_\_\_\_ to \_\_\_\_\_ S/ \_\_\_\_\_

Shooting Record.

_____ Qts _____	to _____	S/ _____
_____ Qts _____	to _____	S/ _____
_____ Qts _____	to _____	S/ _____
_____ Qts _____	to _____	S/ _____

Natural Production Test: \_\_\_\_\_ Pumping 299.04 Flowing  
Test after acid or shot: \_\_\_\_\_ Pumping \_\_\_\_\_ Flowing

Please indicate below Formation Tops (in conformance with geographical section of state):

## Southeastern New Mexico

Northwestern New Mexico

T. Anhy	1550'
T. Salt	1655'
B. Salt	2602'
T. Yates	2699'
T. 7 Rivers	
T. Queen	
T. Grayburg	
T. San Andres	4225'
T. Glorieta	
T. Drinkard	
T. Tubbs	
T. Abo	7778'
T. Penn	9100'
T. Miss	

T. Devonian \_\_\_\_\_  
T. Silurian \_\_\_\_\_  
T. Montoya \_\_\_\_\_  
T. Simpson \_\_\_\_\_  
T. McKee \_\_\_\_\_  
T. Ellenburger \_\_\_\_\_  
T. Gr. Wash \_\_\_\_\_  
T. Granite \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_

T. Ojo Alamo \_\_\_\_\_  
T. Kirtland-Fruitland \_\_\_\_\_  
T. Farmington \_\_\_\_\_  
T. Pictured Cliffs \_\_\_\_\_  
T. Cliff House \_\_\_\_\_  
T. Menefee \_\_\_\_\_  
T. Point Lookout \_\_\_\_\_  
T. Mancos \_\_\_\_\_  
T. Dakota \_\_\_\_\_  
T. Morrison \_\_\_\_\_  
T. Penn \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_  
T. \_\_\_\_\_

(Please supply required information on reverse side of form)

Date first oil run to tanks or gas to pipe line: August 21, 1951

Pipe line taking oil or gas: Service Pipe Line Company

Remarks: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

~~Amerada Petroleum Corporation~~  
Company or Operator

By:   
Signature

Position: Assistant District Superintendent

Send communications regarding well to:

Name: Amerada Petroleum Corporation

Address: Drewer D, Monument, New Mexico

APPROVED any - 29 . 1951

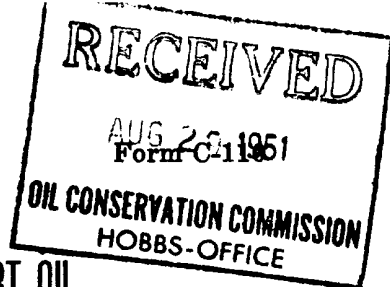
OIL CONSERVATION COMMISSION

By: 

Title: Oil & Gas Inspector

DUPLICATE

OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO



CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL

Company or Operator Amerada Petroleum Corporation Lease State 3 "D"  
Address Drewer D, Monument, New Mexico P.O. Box 2040, Tulsa 2, Oklahoma  
(Local or Field Office) (Principal Place of Business)  
Unit M Wells No. 2 Sec. 3 T15-S R 33-W Field Saunders County Lea  
Kind of Lease State Location of Tanks On Lease  
Transporter Service Pipe Line Address of Transporter P.O. Box 337, Midland, Texas  
(Local or Field Office)  
P.O. Box 1979, Tulsa, Oklahoma Percent of oil to be transported 100 Other transporters author-  
(Principal Place of Business) ized to transport oil from this unit are None %  
REMARKS:

New Well - Completed August 21, 1951

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentages of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 25th day of August, 1951

Amerada Petroleum Corporation

(Company or Operator)

By Don Topper

Title Assistant District Superintendent

State of New Mexico

County of Lea

ss.

Before me, the undersigned authority, on this day personally appeared Don Topper known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 25th day of August, 1951

Notary Public in and for Lea County, New Mexico - My Commission Expires 10/11/54

Approved: W. J. - 94 1951

OIL CONSERVATION COMMISSION

By W. J. - 94

Oil & Gas Inspector

(See Instructions on Reverse Side)

## INSTRUCTIONS

This form shall be executed and filed in quadruplicate with the Oil Conservation Commission at Santa Fe, New Mexico, covering each unit from which oil is produced. A separate certificate shall be filed for each transporter authorized to transport oil from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one month the operator shall in lieu of filing a new certificate, notify the Oil Conservation Commission at Santa Fe, New Mexico, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil to be moved by the transporter temporarily moving oil from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
- (b) The transporter is changed or
- (c) The permit is cancelled by the Commission.

If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

DUPLICATE

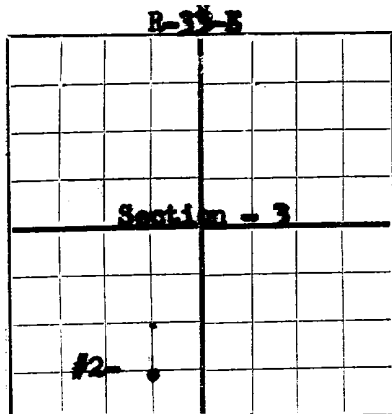
FORM C-105

RECEIVED

AUG 29 1951

OIL CONSERVATION COMMISSION  
HOBBS-OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico



AREA 640 ACRES  
LOCATE WELL CORRECTLY

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

**Amerada Petroleum Corporation** **Drawer D, Monument, New Mexico**  
Company or Operator Address  
**State S** Well No. **2** in **SE 1/4 SW 1/4** of Sec. **3**, T. **15-S**  
Lease  
R. **33-E**, N. M. P. M. **Saunders** Field, **Lea** County.  
Well is **4620** feet south of the North line and **3300** feet west of the East line of **Section 3**  
If State land the oil and gas lease is No. **E-2116** Assignment No. \_\_\_\_\_  
If patented land the owner is \_\_\_\_\_ Address \_\_\_\_\_  
If Government land the permittee is \_\_\_\_\_ Address \_\_\_\_\_  
The Lessee is **Amerada Petroleum Corporation** Address **P.O. Box 2040, Tulsa 2, Okla.**  
Drilling commenced **6/27/51** 19 \_\_\_\_\_ Drilling was completed **8/15/51** 19 \_\_\_\_\_  
Name of drilling contractor **McVay & Stafford Drilling Contr.'r.** Address **1110 Philomar, Tulsa, Okla.**  
Elevation above sea level at top of casing **4188'** feet.  
The information given is to be kept confidential until **Not Confidential** 19 \_\_\_\_\_

OIL SANDS OR ZONES

No. 1, from **9780'** to **9915** 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	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED		PURPOSE
							FROM	TO	
<b>13-3/8</b>	<b>36#</b>	<b>S.J.</b>	<b>Weld</b>	<b>280'</b>	<b>Float</b>				
<b>8-5/8</b>	<b>32#</b>	<b>8-RT</b>	<b>S.S.</b>	<b>4243'</b>	<b>Guide</b>				
<b>5-1/2</b>	<b>15.5-17 &amp; 20#</b>	<b>8-RT</b>	<b>S.S.</b>	<b>9925'</b>	<b>Guide</b>		<b>9805'</b>	<b>9908'</b>	<b>Production</b>

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
<b>17-1/4</b>	<b>13-3/8</b>	<b>297'</b>	<b>250</b>	<b>Halliburton</b>		
<b>11-</b>	<b>8-5/8</b>	<b>4235</b>	<b>1580</b>	<b>Halliburton</b>		
<b>7-7/8</b>	<b>5-1/2</b>	<b>9915</b>	<b>600</b>	<b>Halliburton</b>		

PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth Set \_\_\_\_\_  
Adapters — Material \_\_\_\_\_ Size \_\_\_\_\_

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
			<b>None</b>			

Results of shooting or chemical treatment \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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 **9915'** feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

PRODUCTION

Put to producing **August 21, 1951**, 19 \_\_\_\_\_  
The production of the first 24 hours was **315.60** barrels of fluid of which **94.75** % was oil; \_\_\_\_\_ % emulsion; **2.05** % water; and **3.20** % sediment. Gravity, Be. **41.4**  
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. D. Wilson** Driller **J. L. Taylor** Driller  
**Guy Marker** Driller \_\_\_\_\_ Driller

FORMATION RECORD ON OTHER SIDE

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.

Subscribed and sworn to before me this **25th** **Monument, New Mexico** **8/25/51**  
day of **August**, 19 **51** Name **[Signature]** Date  
Position **Assistant District Superintendent**

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	6	6	Cellar
6	220	214	Sand & Caliche
220	300	80	Red Bed, Sand & Shale
300	1610	1310	Sand & Shale
1610	1690	80	Sand, Anhydrite, Shale
1690	2710	1020	Shale, Anhydrite & Salt
2710	3230	520	Shale, Anhydrite & Sand
3230	3500	270	Shale & Anhydrite
3500	4020	520	Shale, Anhydrite, Sand & Salt
4020	4200	180	Shale, Anhydrite, Sand & Dolomite
4200	5590	1390	Dolomite & Anhydrite
5590	5650	60	Limestone & Dolomite
5650	5740	90	Dolomite & Anhydrite
5740	6490	750	Dolomite, Sand & Anhydrite
6490	7500	1010	Dolomite & Anhydrite
7500	7730	230	Anhydrite & Dolomite
7730	8260	530	Shale, Dolomite & Anhydrite
8260	9060	800	Anhydrite & Dolomite
9060	9160	100	Chert, Anhydrite & Dolomite
9160	9915	755	Limestone & Chert.
	9915		Total Depth
	9914		Plug Back Depth

Geological Data

Elevation	4201' D.F.
Top Anhydrite	1550
Top Salt	1653
Base Salt Platform	2508
Base Salt-Bagley	2602
Top Yates	2699
Base Yates	2852
Top Artesia Red Sand	3494
Top San Andres	4225
Base San Andres	5741
Top Paddock	6032
Top Clearfork	6457
Top Abe	7778
Top Wolfcamp	9122
Top Pennsylvanian	9400

Slope Tests

170'	-1/4 deg.
265'	1- "
725	-1/2 "
1225	-1/4 "
2000	-1/2 "
3030	-1/2 "
3535	-3/4 "
3830	-1/2 "
4540	-3/4 "
4915	1- "
5493'	1-1/4 "
5875	-3/4 "
6273	-3/4 "
6634	1-1/4 "
6970	1- "
7330	-1/2 "
7770	-3/4 "
8246	-1/4 "
8515	1- "
8836	1-1/2 "
9109	-1/2 "
9338	-1/4 "
9770	-1/2 "

DRILL STEM TESTS

D.S.T. #1 - 9442'-9525', Tool open 4 hours & 15 minutes. Open 8 minutes W/fair blow and died. Closed & re-opened W/medium blow for 37 minutes & died. Dead 2 min. and kicked off W/fair blow which continued through out test. No gas to surface. Recovered 120' Gas cut Drlg. Mud.

D.S.T. #2 - 9894'-9915', Open 4 hours & 21 minutes W/fair blow. Gas to surface in 4 minutes, Mud in 16 minutes and oil in 18 minutes. Flowed 108.64 bbls oil, 1.46 bbls B.S. and 32.76 bbls Salt Water. Recovered 700' free oil, 960' Salt Water. Gas Vol. 1,121,000 Cu. Ft. per day. GOR 1720. Qty oil, 43.4