

Re: Case 167

December 7, 1948

The Amerada Petroleum Corporation requests permission to dual complete State L M T Well # 1, Langlie-Mattix Field, Lea County, New Mexico.

The well at present is producing oil from the Stuart Sand from 3500' to 3607' and the operator proposes to produce gas from the Yates and Seven Rivers Sands from 2900' to 3400' through the same well bore. The two zones will be kept separate so that the fluids from the two zones will not be intermingled nor allowed to pass from one zone to the other.

The Stuart Sand has a bottom hole pressure of 570 psi after a 24 hour shut in period. The Yates and Seven Rivers Sands have a bottom hole pressure of about 1300 psi. The higher pressure of the upper sand will require the use of mud in the well when it is perforated. A packer with a standing valve will be used between the two zones to keep the mud off the lower zone during completion, and to assure that the higher pressure zone does not pass any fluid to the lower pressure zone.

The data pertaining to the well and a brief description of the proposed dual completion method will be found on the following pages.

AMERADA PETROLEUM CORPORATION

By


J. C. Blackwood
District Engineer

Exhibit B, Case No. 167

AMERADA PETROLEUM CORPORATION
P. O. BOX 2040
TULSA, OKLAHOMA

Re: Case 167

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WELL DATA

Amerada Petroleum Corporation State L M T Well #1
Located: Langlie-Mattix Field, Lea County, New Mexico
1980' from north line, 660' from west line of
Section 36, T 23-S, R 36-E
Completed: March 24, 1946
Total Depth: 3607'
Casing Record: 13 3/8" at 504'
8 5/8" at 3450'
Producing from: Stuart Sand from 3500' to 3607'
Initial Production: Flowed 68 bbls. oil per day through
1/2" choke, Gas-Oil ratio 19,000
CP 500 TP 250, Oil gravity 34.8 API
Geological Information: Elevation - 3332'
Top Brown Lime - 2800'
First Yates Sand - 2910'
Top Zone 1 - 2940
Top Stuart Sand - 3500'
Present Status: The present allowable is 15 bbls. per day,
and the present production is 15 bbls./day

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If permission is granted to dual complete the State L M T Well #1 the Amerada Petroleum Corporation proposes to take the following steps in the completion:

1. Shoot with explosives and clean out the present producing formation from 3500' to 3607' to increase its productive ability. The well will then be loaded with oil to kill the formation.
2. Set a Baker Model D Retainer Production packer at 3435' in the 8 5/8" casing. This packer has a smooth bore through the center approximately 3 1/2" in diameter, and after the packer is set in place it cannot be moved either up or down. The tubing will be released from the packer and pulled out. Then tools will be made up together and run in the following order:
 - (a) 125 ft. of 2" tubing as tail pipe which will pass through the bore of the packer and extend from the bottom of the packer to 3560' or 47' off bottom.
 - (b) A standing valve sub and Type F Otis standing valve which will prevent the passage of any fluid downward through the tubing from above the packer to the lower producing zone.
 - (c) Two Baker Multi-V tubing seals which will be positioned in the bore of the packer and will seal off between the packer bore and the tubing.
 - (d) A Baker No Left Turn Latching Sub which will set down on top of the packer body and latch into it, positioning the tubing seals in the bore of the packer and preventing movement of the seals either up or down.
 - (e) A tubing seal recepticle which is a tube with a smooth bore of 3 1/2" in diameter.
 - (f) A setting tool which is attached to the top of the tubing seal recepticle by means of shear pins, so when the No Left Turn Latching Sub sets down on the packer the weight of the tubing will shear the pins leaving the tools in place.

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3. With the tubing picked up off the tools mud will be pumped into the well replacing the oil, then the tubing will be withdrawn.
4. Gun perforate the Yates and Seven Rivers Sands from 2900' to 3400'.
5. Run the tubing guide shoe, tubing seal nipples, a retrieving tool, and an Otis Type L Side Door Choke nipple on the tubing. The tubing guide shoe and the tubing seal nipples will go down into the tubing seal receptacle. The Christmas tree will be connected up and the mud in the well replaced with oil, circulating through the ports in the Side Door Choke nipple. The upper gas sand will be brought in and produced until it has cleaned up, then the Otis Side Door Choke will be run on a wire line under pressure to seal off the ports in the nipple and separate the two zones. The lower zone will be produced through the tubing and the upper zone will be produced through the annulus between the tubing and the casing.

A drawing showing the details of the packer setting is attached.

AMERADA PETROLEUM CORPORATION
P. O. BOX 2040
TULSA, OKLAHOMA

AFFIDAVIT OF PUBLICATION

State of New Mexico,
County of Lea

I, Robert L. Summers

Of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a

period of _____

One Issue _____ weeks.

beginning with the issue dated _____

November 22, 19 48

and ending with the issue dated _____

Robert L. Summers, 19 _____
Publisher.

Sworn and subscribed to before me

this 3rd. day of _____

December, 19 48.

Nellie Jones
Notary Public.

My commission expires _____

January 7, 19 51

(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

Nov. 22, 1948
LEGAL NOTICE

NOTICE OF PUBLICATION
STATE OF NEW MEXICO
OIL CONSERVATION
COMMISSION

The State of New Mexico by its Oil Conservation Commission hereby gives notice, pursuant to law, of the following public hearing to be held December 7, 1948, beginning at 10:00 o'clock A. M. on that day in the City of Santa Fe, New Mexico, in Senate Chambers.

STATE OF NEW MEXICO TO:

All named parties in the following cases, and notice to the public:

CASE 167.

In the matter of the application of Amerada Petroleum Corporation for an order granting permission to dually complete their "State LMT well No. 1," Langlie-Mattix pool SWNW Section 36, Township 23 South, Range 36 East, N.M.P.M., Lea County, New Mexico.

Given under the seal of the Oil Conservation Commission of New Mexico at Santa Fe, New Mexico, on November 17, 1948.
STATE OF NEW MEXICO
OIL CONSERVATION
COMMISSION
By
R. R. SPURRIER, Secretary.