

8.1
MONTGOMERY OGC

1958 MAY 20 AM 9:45
Drawer D
Monument, New Mexico
May 21, 1958

Mr. R.F. Montgomery
New Mexico Oil Conservation Commission
P. O. Box 2045
Hobbs, New Mexico

Dear Sir:

Enclosed are copies of the Packer Leakage Test, Test Data Sheet, Pressure Recording Charts, and Graph for Amerada Petroleum Corporation State BT^WK^N #1, a dual completion authorized by Commission Order No. DC-546-A. This well is dually completed in the Bagley Upper Pennsylvanian Gas Pool and the Bagley Pennsylvanian Oil Pool, Lea County, New Mexico.

The following production and reservoir data are presented for your information for the two completions:

Bagley Upper Pennsylvanian Gas Zone

Latest production test showed zone producing 12 barrels distillate with a gas production of 416,905 MCF per day. The producing GOR was 34,742. The static bottom-hole pressure at a depth of 8710' (-4445') was recorded at 2430 psig.

Bagley Pennsylvanian Oil Zone

Latest production test showed zone producing 52 barrels oil, 63 barrels water per day with a producing GOR of 2620 cu. ft. per barrel. The static bottom-hole pressure at a depth of 9015' (-4750') was recorded at 1758 psig.

Yours very truly,

AMERADA PETROLEUM CORPORATION

H. C. Kidd

H. C. Kidd

HCK/vh

27
001

1940

1940

1940

1940

1940

1940

1940

1940

1940

NEW MEXICO
OIL CONSERVATION COMMISSION

4-1-56

PACKER LEAKAGE TEST

Operator Amerada Petroleum Corporation Pool (Upper Completion) Bagley Upper Perm Gas Zone
Lease State B.T. "K" Well 1 Pool (Lower Completion) Bagley Perm.
Location: Unit N, S. 34, T 11S, R 33E, Lea County, N. M.

Pre-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date).....	10:00 4-29-58	10:00 4-29-58
Pressure stabilized at (hour, date).....	3:00 4-29-58	4:00 4-29-58
Length of time required to stabilize (hours).....	5 Hours	6 Hours

Flow Test No. 1

Test commenced at (hour, date) 10:30 4-30-58 Choke size 3/64"
Completion producing Gas Completion shut-in Oil

	Upper Completion	Lower Completion
Stabilized pressure at beginning of test.....	1789 psi	670 psi
Maximum pressure during test.....	1789 psi	730 psi
Minimum pressure during test.....	1692 psi	660 psi
Pressure at end of test.....	1757 psi	700 psi
Maximum pressure change during test.....	95 psi	70 psi
Oil flow rate during test: <u>0</u> BOPD based on <u>0</u> BO in <u>0</u> hours.		
Gas flow rate during test: <u>416.905</u> MCFPD based on <u>416.905</u> MCF in <u>24</u> hours.		

Mid-Test Shut-In

	Upper Completion	Lower Completion
Shut-in at (hour, date).....	8:23 5-1-58	7:30
Pressure stabilized at (hour, date).....	1:00 5-1-58	4 4-29-58
Length of time required to stabilize (hours).....	4	0

Flow Test No. 2

Test commenced at (hour, date) 7:35 5-3-58 Choke size 2"
Completion producing Oil Completion shut-in Gas

	Upper Completion	Lower Completion
Stabilized pressure at beginning of test.....	1796 psi	648 psi
Maximum pressure during test.....	1802 psi	160 psi
Minimum pressure during test.....	1796 psi	51 psi
Pressure at end of test.....	1798 psi	51 psi
Maximum pressure change during test.....	6 psi	119 psi
Oil flow rate during test: <u>52</u> BOPD based on <u>52</u> BO in <u>24</u> hours.		
Gas flow rate during test: <u>0</u> MCFPD based on <u>0</u> MCF in <u>0</u> hours.		

Test performed by Truett Hulse Title Junior Petroleum Engineer

Witnessed by W.C. Henderson Title Foreman

REMARKS: The oil zone shut-in tubing pressure variation resulted from a leaking valve on the gas lift supply line and was not due to communication with the gas zone completion.

NOTE: Recording gauge pressure charts, test data sheet, and a graphic depiction of all phases of the test shall be submitted with this report.

AFFIDAVIT:

I HEREBY CERTIFY that all conditions prescribed by Oil Conservation Commission of the State of New Mexico for this packer leakage test were complied with and carried out in full, and that all dates and facts set forth in this form and all attached material are true and correct.

H.C. Cappel For Amerada Petroleum Corporation
(Representative of Company Making Test) (Company Making Test)

SWORN TO AND SUBSCRIBED before me this the 15 day of May, 19 58

My commission expires 8-30-61.

Donald E. Hulse
Notary Public in and for the County of Lea
State of New Mexico

(OVER)

INSTRUCTIONS
(SOUTHEAST NEW MEXICO ONLY)

1. At least 24 hours prior to the commencement of this test, the operator shall notify the District Office of the Oil Conservation Commission in writing of the exact time said test is to be commenced.
2. The packer leakage test shall commence with both sides of the completion shut-in. Both sides of the completion must be shut-in a sufficient length of time to allow for complete stabilization of both wellhead pressures, and for a minimum of 2 hours thereafter- this minimum of 2 hours shut-in must show on the charts of the pressure recorder and also must appear on the data sheet.
3. For Flow Test No. 1, one side of the dual completion shall be produced with the other side shut-in. Such test shall be continued until the flowing wellhead pressure has become stabilized and for a minimum of 2 hours thereafter, and shall be at a rate of flow approximating the normal rate of flow for the zone being produced.
4. Following the completion of flow test No. 1, the well will again be shut-in, and remain so until the wellhead pressures have again become stabilized and for a minimum of 2 hours thereafter.
5. Flow Test No. 2 shall be performed with the previously shut-in side of the dual completion flowing and with the flowing side of the completion used in test number 1 remaining shut-in. This test shall be conducted exactly as outlined under Flow Test No. 1, and must be performed even though no leak was indicated by Flow Test No. 1.
6. All pressures, throughout the entire test, must be continuously measured and recorded with recording pressure gauges.
7. The accuracy of the recording gauges shall be checked at regular intervals throughout the test with a dead weight test gauge, and such readings shall be recorded on the test data sheet provided.
8. For any well on which the wellhead pressures will not stabilize in (24) twenty four hours or less, the minimum producing or shut-in time allowed for stabilization shall be (24) twenty-four hours.
9. This form must be completed and filed in duplicate with the District Office of the Oil Conservation Commission within 15 days following the completion of the testing, and must be accompanied by:
 - a. all of the charts, or copies thereof, used on the pressure recorders during the test.
 - b. the test data-sheet (s), or copies thereof, required under paragraph 7 above.
 - c. a graph depicting the pressures and their changes, for both sides of the completion over the entire test.
10. This packer leakage test shall be performed upon dual completion of any new wells so approved by the Commission. This test shall also be required each year during the annual GOR test for the lowermost oil zone or oil pool so concerned. The Commission may also request packer leakage tests at any time they feel that a new test is desirable.

