

Box E
Bloomfield, New Mexico
September 20, 1957

Mr. A. L. Porter, Secretary and Director
Oil Conservation Commission
Box 871
Santa Fe, New Mexico

Dear Sir:

This is to request administrative approval for well dually completed in the South Blanco Pictured Cliff and Chacra Pool. The Amerada Petroleum Corporation Jicarilla Apache "F" #4 is located 1650' FSL and 1450' FEL Section 18, T-25-N, R-5-W, N.M.P.M., Rio Arriba County, New Mexico.

This well has been completed in the Pictured Cliff Formation and Chacra Formation. Completion has been accomplished in the following manner.

Spudded 12-1/4" hole at 5:00 P.M. 7-7-57 and drilled to 228'. Ran 5 joints 8-5/8" Csg. and set at 224' with 150 sacks cement mixed 2% Jel. Cement Circulated. Pumped plug to 188' with 300#. WOC - Tested Casing with 450# - held OK. Started drilling 7-7/8" hole at 8:00 A.M. 7-9-57 and drilled to 3475' and cored from 3475' to 3525' (Chacra Zone), and drilled 7-7/8" hole on to 3650'. Ran Schlumberger Surveys, and ran 90 joints 5-1/2" OD Casing and set at 3649' and cemented with 375 sacks cement mixed 2% Jel. Pumped plug to 3624' with 1500# Maximum pressure at 8:45 A.M. 7-16-57. WOC - ran temperature survey and found top of cement outside 5-1/2" Csg. at 1380' or 91% fill. Perforated Chacra Zone from 3584' to 3610' and Sand-Water fraced with 30,000 gallons of water and 30,000# sand. Breakdown Pressure 4200#, Injection rate 41.3 BPM. Flushed with 71 bbl. water. Ran 2-3/8" Tubing, packer and swabbed well in. Perforated Chacra Zone from 3477' to 3496' and Sand-Water fraced with 30,000 gallons water and 30,000# sand. Breakdown pressure 2000#, Min. pressure 1800#, Final pressure 2000#. Average Injection rate 46.2 BPM. Perforated Pictured Cliff Zone from 2608' to 2616' and 2646' to 2658', ran Bridge plug and set at 2668' and sand-water fraced Pictured Cliff Zone with 30,000 gallons water and 30,000# sand. Break down pressure 2150#, Maximum treating pressure 1750#, Minimum treating pressure 1350#. Flushed with 100 bbl. water. Inj. rate 47.8 bbl. per minute. Retrieved bridge plug and ran Baker Model D production packer and set at 3428'. Ran 110 jts. 2-3/8" Tubing with production tube and lock device and PSI nipple @ 3427'. Swabbed both Chacra and Pictured Cliff Zones together and flowed well until it clean up. Set PSI Separation Sleeve in PSI Nipple at 3427' and separated zones. Chacra Zone tested 1,220,000 CFPD thru open 2-3/8" Tubing for 24 hours, Tubing Pressure 25#. Pictured Cliff Zone tested 861,000 CFPD thru 2" line on Casing for 24 hours, Casing Pressure 20#.

Approval is asked for this dual completion to allow production from from both known producing formations without the high initial cost of drilling two wells.

The offset operators of this dual well have been notified and also enclosed are: Schematic Diagram of the mechanical installations; Platt showing the location of this well and the offset operators; Affidavit from the packer setting company stating that the packer used was set at the depth shown; Packer leakage tests as observed by a member of the Oil Conservation Commission.

Any further information required will be furnished upon your request.

Yours very truly,

D. F. Furse

D. F. Furse

DFF/crc

cc: Mr. Emery Arnold, Mr. Phil T. McGrath,
Tulsa, Midland, Monument, File





10/10/10

10/10/10

10/10/10

10/10/10

10/10/10

NEW MEXICO
OIL CONSERVATION COMMISSION

8-15-56

PACKER LEAKAGE TEST (SAN JUAN BASIN)

Operator Amerada Petroleum Corp. Pool (Upper Completion) Pictured Cliff
Lease J. Apache "F" #4 Pool (Lower Completion) Chacra
Location: Unit J, S. 16, T. 29N R. 5-, Rio Arriba County, N. Mex.

Pre-Test Shut-In

	Upper Completion	Lower Completion
Shut-in (date)	<u>8-11-57</u>	<u>8-11-57</u>
Pressure Measured (Dwt.) (date)		

Flow Test No. 1

Test commenced at (hour, date) 11:15 AM 8-21-57 Choke size 2"
Completion producing _____ Completion shut-in _____

	Upper Completion		Lower Completion
Pressure at beginning of test.	<u>776</u>	psi	<u>No Gauge</u> psi
Maximum pressure during test	<u>776</u>	psi	<u>"</u> psi
Minimum pressure during test	<u>777</u>	psi	<u>"</u> psi
Pressure at end of test.	<u>777</u>	psi	<u>"</u> psi
Maximum pressure change during test.	<u>14</u>	psi	<u>"</u> psi
Oil flow rate during test: _____ BOPD based on _____ BO in _____ hours			
Gas Flow rate during test: _____			
Choke volume _____ MCFD; Meter volume _____ MCFD.			

Mid-Test Shut-In

	Upper Completion	Lower Completion
Shut-in (date)		
Pressure measured (Dwt) (date)		

Flow Test No. 2

Test commenced at (hour, date) _____ Choke size _____
Completion producing _____ Completion shut-in _____

	Upper Completion		Lower Completion	
Pressure at beginning of test.		psi		psi
Maximum pressure during test		psi		psi
Minimum pressure during test		psi		psi
Pressure at end of test		psi		psi
Maximum pressure change during test		psi		psi
Oil flow rate during test: _____ BOPD based on _____ BO in _____ hours				
Gas flow rate during test: _____				
Choke Volume _____ MCFD; Meter volume _____ MCFD.				

Test performed by D. F. Purse Title Foreman
Witnessed by Fred Cook Title O.G.C. Representative

REMARKS: Baker Model D Production Packer set @ 3428'

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 the 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.

D. F. Purse For Amerada Petroleum Corporation
(Representative of Company making test) (Company Making Test)



INSTRUCTIONS

(NORTHWEST NEW MEXICO ONLY)

1. At least seventy-two hours prior to the commencement of this test, the operator shall have notified the Aztec 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 at least seven days. This shut-in must show on the charts of the pressure recorder and also must appear on the data sheets.
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 for seven days, and shall be at a rate of flow approximating the normal rate of flow for the zone being produced. Note: Where gas is flowed to the atmosphere in taking the initial packer test, the well shall be flowed for three hours.
4. Following the completion of flow test No. 1, the well will again be shut-in for seven days.
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 Flow Test No. 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 (Dwt), and such readings shall be recorded on the test data sheet provided.
8. This form must be completed and filed in duplicate with the Aztec 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.
9. This packer leakage test shall be performed upon the dual completion of any new wells so approved by the Commission. This test shall also be required each year during the annual deliverability test on gas wells. This test shall be required until such time as the Commission has sufficient information on testing dual completions in San Juan Basin on which to base a simplified packer leakage test. The Commission may also request packer leakage tests at any time they feel that a new test is desirable.

STATE OF NEW MEXICO

COUNTY OF SAN JUAN

I, Mack Mahaffey, being first duly sworn upon my oath depose and say as follows:

I am an employee of Baker Oil Tools, Inc., and that on July 31, 1957, I was called to the location of the Amerada Petroleum Corporation
(Name of Company)

Jicarilla Apache "F" #4 Well located in the NW 1/4 SE 1/4
(Well Number)

of Section 18, Township 25N, Range 5W, N.M.P.M., for advisory service in connection with installation of a production packer. In my presence, a Baker Model D Production Packer was set in this well at 34281 feet in accordance with the usual practices and customs of the industry.

Mack Mahaffey
Branch Manager

Subscribed and sworn to before me, a Notary Public in and for San Juan County, New Mexico, the 20 day of Sept., 1957.

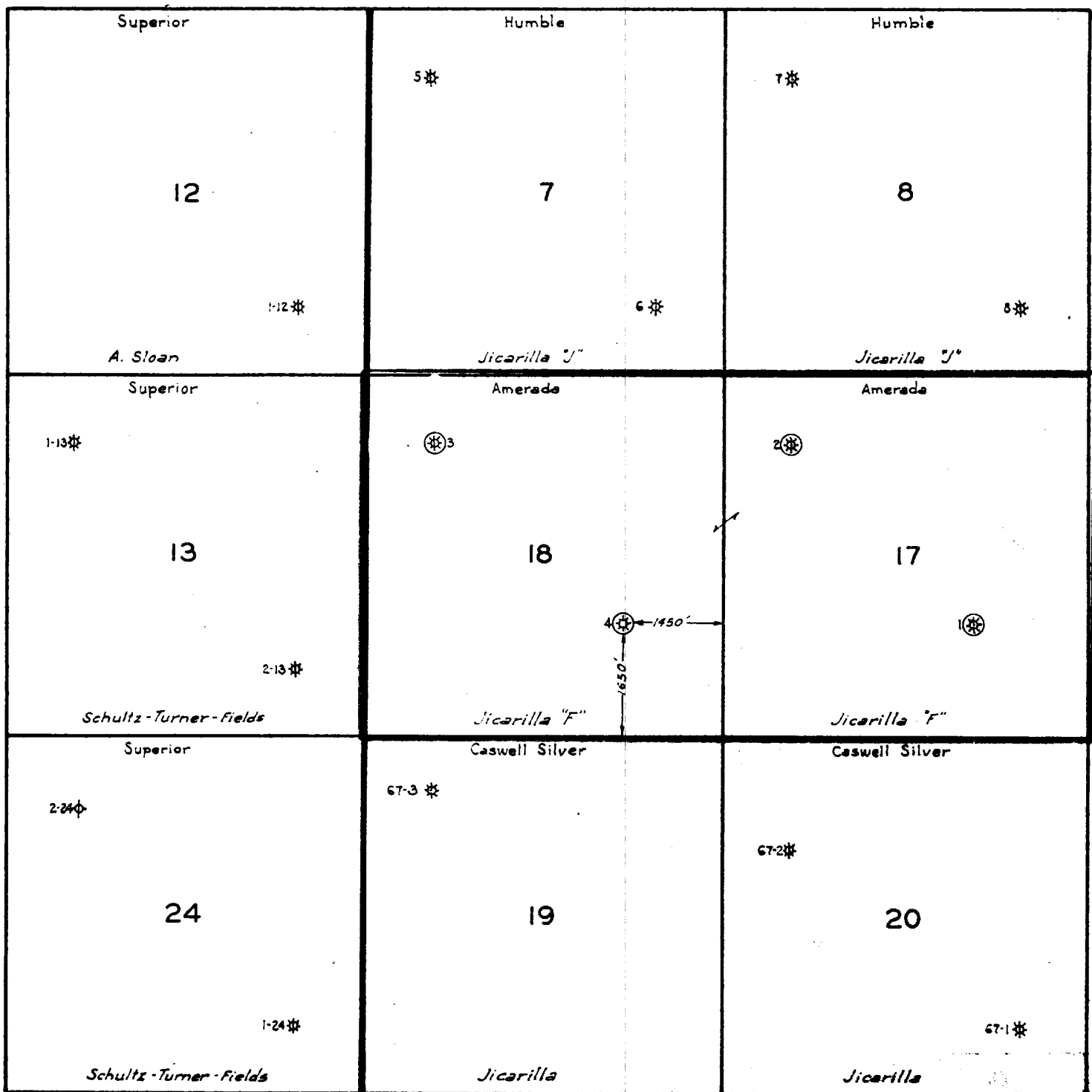
MY COMMISSION EXPIRES MAY 25, 1960

Charlie Campbell
Notary Public in and for San Juan County, New Mexico



R 6 W

R 5 W



OPERATOR OF LEASE Amerada Petroleum Corporation NAME OF LEASE Jicarilla Apache "F"
 TOTAL ACRES IN LEASE 2,577.40 ACRES COVERED BY THIS PLAT 1.260
 DESCRIPTION OF PROPERTY All Sec. 16, 17 & 18, N/2 Sec. 21 & N/2 Sec. 22, T. 25 N., R. 5 W.
 COUNTY Rio Arriba FIELD South Blower Pictured Cliffs
 SCALE OF PLAT 1" = 2000'

STATE OF _____
 COUNTY OF _____

I HEREBY CERTIFY THAT I AM FAMILIAR WITH THE CONDITIONS AS THEY ACTUALLY EXIST ON THE LANDS ABOVE PLAT WHICH IS DRAWN TO THE SCALE INDICATED HEREON IS TO THE BEST OF MY KNOWLEDGE TRUE AND IT ACCURATELY REFLECTS SAID LEASE WITH ALL WELLS THEREON; AND THAT THE NUMBER AND LOCATION OF WELLS THEREON ARE AS INDICATED ON THE PLAT.

SUBSCRIBED AND SWORN TO BEFORE ME THIS

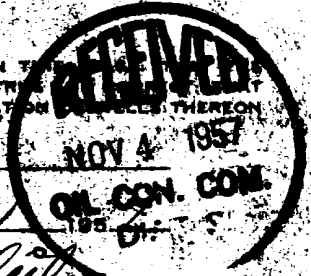
DAY OF

My commission expires 6-30-61

AMERADA P-288

NOTARY PUBLIC IN AND FOR

COUNTY



NEW MEXICO OIL CONSERVATION COMMISSION
Well Location and Acreage Dedication Plat

Section A.

Date October 21, 1957

Operator Amerada Petroleum Corporation Lease Jicarilla Apache "F"
Well No. 4 Unit Letter J Section 18 Township 25-N Range 5-W NMPM
Located 1450' Feet From East Line, 1650' Feet From South Line
County Blanco G. L. Elevation 6532' Dedicated Acreage 320 Acres
Name of Producing Formation Pictured Cliff-Chaco Pool South Blanco Pictured Cliff-Chaco

1. Is the Operator the only owner* in the dedicated acreage outlined on the plat below?
Yes X No .
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? Yes No . If answer is "yes," Type of Consolidation
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner

Land Description



Section B

R-5-W

AMERADA

Jicarilla Apache "F"

This is to certify that the information in Section A above is true and complete to the best of my knowledge and belief.

Amerada Petroleum Corporation
(Operator)

[Signature]
(Representative)

Box E
Hloomfield, New Mexico
Address

This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional
Engineer and/or Land Surveyor.

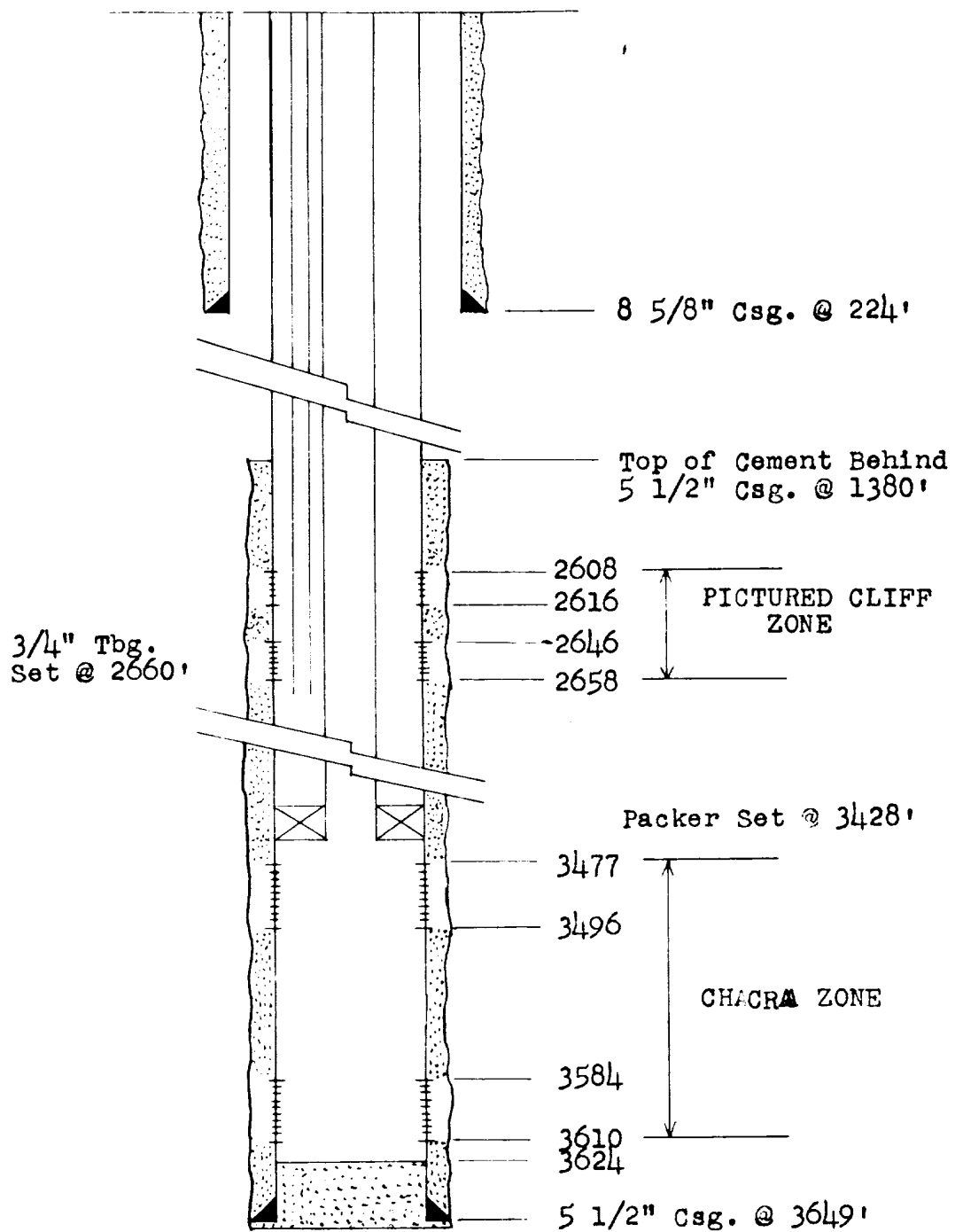
Certificate No.

(See instructions for completing this form on the reverse side)

INSTRUCTIONS FOR COMPLETION:

1. Operator shall furnish and certify to the information called for in Section A.
2. Operator shall outline the dedicated acreage for both oil and gas wells on the plat in Section B.
3. A registered professional engineer or land surveyor registered in the State of New Mexico or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
4. All distances shown on the plat must be from the outer boundaries of Section.
5. If additional space is needed for listing owners and their respective interests as required in question 3, Section A, please use space below

* "Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1953 Comp.)



AMERADA PETROLEUM CORPORATION

RIO ARRIBA Co., NEW MEXICO

JICARILLA APACHE "F" No. 4

Sec. 18, T-25-N, R-5-W

