

Box E  
Bloomfield, New Mexico  
August 20, 1957

J. L. Porter, Secretary and Director  
Conservation Commission  
871  
La 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" #3 is located 990' FWL & 990' FWL 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 11:15 PM 6-26-57 and drilled to 223'. Ran 7 jts. 8-5/8" OD 32# 8RT Csg. & set at 218' & cemented w/ 150 sacks cement mixed 2% gel. Pumped plug to 196' on 6-27-57. Max. Press. 200#. WOC - Tested Csg. w/ 500# - Held OK. Started 7-7/8" hole at 11:30 PM 6-28-57 and drilled to 3805'. Ran Schlumberger surveys and ran 93 jts. 5 1/2" OD 15.5# Csg. and set at 3804'. Cemented 5 1/2" Csg. w/ 375 sacks cement mixed 2% Gel. Max. Press. 1500#. Pumped plug to 3759' at 7:15 PM 7-5-57. WOC - Ran Temp. survey and found top of cement outside 5 1/2" Csg. at 2310' or 111% fill. Perforated 5 1/2" Csg. (Chacra Zone) from 3628' to 3604' and (Pictured Cliff) from 2744' to 2754', 2795' to 2782' with 4 shots per foot. Sand-water fraced above perforations with 60,000 gal. water and 60,000# sand. Pumped 20,000 gal. water & 20,000# sand at 1800# and dropped 50 ball sealers. Pressure increased to 2000#. Pumped 5000 gal. and dropped 25 ball sealers, pressure increased to 2350#. Pumped 5000 gal. and dropped 25 ball sealers, pressure increased to 3500#, formation did not break down. Released pressure and resumed pumping at 1800#. Over flushed w/ 150 bbl. water. Max. press. 3500#, Max. treating press. 2350#, Min. pressure 1800#. Injection rate 48 BPM. Set 2-3/8" Tbg. @ 3573', Baker model "D" Retainer Production Pkr. set @ 3574', PSI nipple set @ 3572'. Swabbed well in and well started flowing at 8:30 AM 7-12-57. Swabbed and tested well. Pulled 2-3/8" Tbg., set Bridge Plug at 2807' and Pkr. at 2734' & broke formation in Pictured Cliff Zone from perforations in 5 1/2" Csg. from 2744' to 2795' w/2500# press., pulled tbg. & Pkr. and sand-water fraced 5 1/2" perf. from 2744' to 2754' & 2782' - 2795' with 26,914 gal. water and 30,000# sand. Breakdown press. 1700#, Max. press. 1600#, Min. press. 1250#. Avg. Inj. rate 46.6 BPM. Flushed w/7016 gal. water. Ran 2-3/8" Tbg. & set @ 3573', Baker Model D Pkr. @ 3574', PSI Nipple @ 3573'. Swabbed & tested well. Pictured Cliff Zone tested 795,000 CFPPD on 3/4" choke, CP 40#. Chacra Zone tested 853,000 CFPPD on 3/4" choke, TP 80#.

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

The offset operators of this dual well has 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.

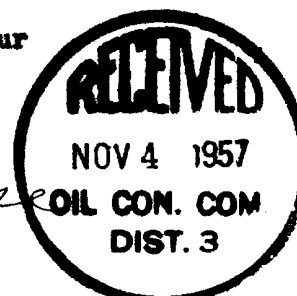
Yours very truly,

*D. F. Furse*

D. F. Furse

DFF/erc

cc: Mr. Emery Arnold, Mr. Phil T. McGrath





NEW MEXICO  
OIL CONSERVATION COMMISSION  
PACKER LEAKAGE TEST (SAN JUAN BASIN)

8-15-56

Operator Amerada Petroleum Corp. Pool (Upper Completion) Pictured Cliff  
Lease J. Apache "F" #3 Pool (Lower Completion) Chacra  
Location: Unit D, S. 18, T. 25N R. 5-W, Rio Arriba County, N. Mex.

Pre-Test Shut-In

	Upper Completion	Lower Completion
Shut-in (date) . . . . .	<u>7-30-57</u>	<u>7-30-57</u>
Pressure Measured (Dwt.) (date) . . . . .		

Flow Test No. 1

Test commenced at (hour, date) 11:15 AM 8-20-57 Choke size 2"  
Completion producing \_\_\_\_\_ Completion shut-in \_\_\_\_\_

	Upper Completion	Lower Completion
Pressure at beginning of test. . . . .	<u>857</u> psi	<u>980</u> psi
Maximum pressure during test . . . . .	<u>857</u> psi	<u>980</u> psi
Minimum pressure during test . . . . .	<u>855</u> psi	<u>155</u> psi
Pressure at end of test. . . . .	<u>855</u> psi	<u>155</u> psi
Maximum pressure change during test. . . . .	<u>24</u> psi	<u>825</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. Furse Title Foreman  
Witnessed by Fred Cook Title Oil Conservation Commission Representative  
REMARKS: Baker Model B Production Packer Set @ 3574'

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. Furse  
(Representative of Company making test)

For Amerada Petroleum Corporation  
(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, Mark 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 10, 1957, I was called to the location of the Amerada Petroleum Corporation  
(Name of Company)

Jicarilla Apache "F" #3 Well located in the NW/4 NW/4  
(Well Number)

of Section 18, Township 25-N, Range 5-W, 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 3574 feet in accordance with the usual practices and customs of the industry.

Mark Mahaffey  
Branch Manager

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

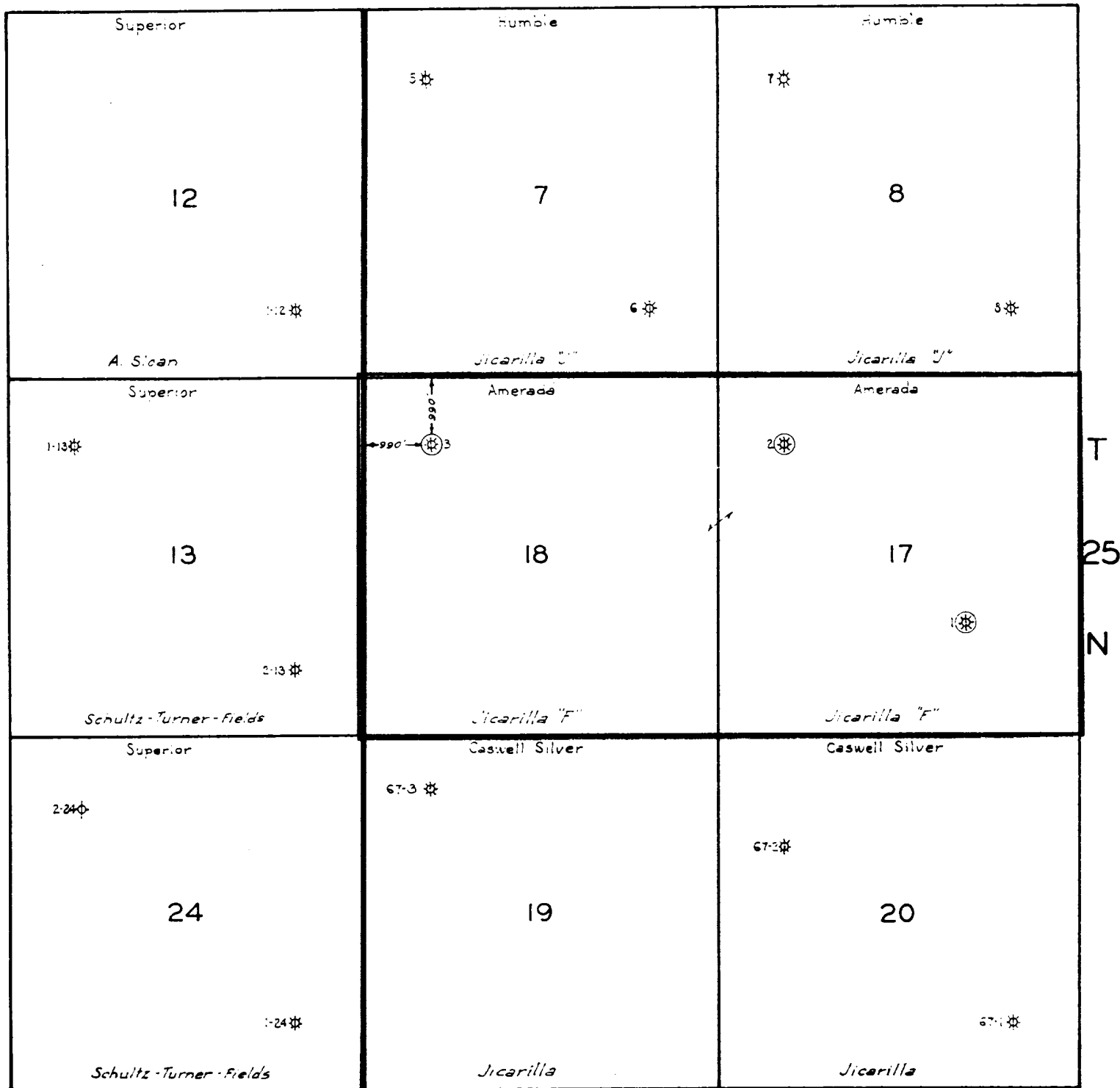
MY COMMISSION EXPIRES MAY 25, 1960

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 2,559.40 ACRES COVERED BY THIS PLAT 1,280  
 DESCRIPTION OF PROPERTY All Sec. 16, 17 & 18, N/2 Sec. 21 & N/2 Sec. 22, T. 25N, R 5 W  
 COUNTY Rio Arriba FIELD South Blanco Pictured Cliffs  
 SCALE OF PLAT 1" = 2000'

STATE OF \_\_\_\_\_  
 COUNTY OF \_\_\_\_\_

☼ Dual Gas Well -  
 Pictured Cliff & La Ventana

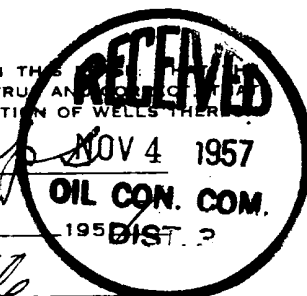
I HEREBY CERTIFY THAT I AM FAMILIAR WITH THE CONDITIONS AS THEY ACTUALLY EXIST ON THE  
 ABOVE PLAT WHICH IS DRAWN TO THE SCALE INDICATED HEREON IS TO THE BEST OF MY KNOWLEDGE TRUE AND CORRECT  
 IT ACCURATELY REFLECTS SAID LEASE WITH ALL WELLS THEREON AND THAT THE NUMBER AND LOCATION OF WELLS THEREON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

SUBSCRIBED AND SWORN TO BEFORE ME THIS \_\_\_\_\_

DAY OF \_\_\_\_\_

NOTARY PUBLIC IN AND FOR \_\_\_\_\_

COUNTY \_\_\_\_\_



My commission expires 8-30-61

AMERADA P-286

NEW MEXICO OIL CONSERVATION COMMISSION  
Well Location and Acreage Dedication Plat

Section A.

Date 10-21-57

Operator Amerada Petroleum Corporation Lease Jicarilla Apache "F"  
Well No. 3 Unit Letter D Section 14 Township 25-N Range 5W NMPM  
Located 990' Feet From North Line, 990' Feet From West Line  
County Rio Arriba G. L. Elevation 6647 Dedicated Acreage 320 Acres  
Name of Producing Formation Pictured Cliff-Chacra Pool South Blanco Pictured Cliff -Chacra

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:

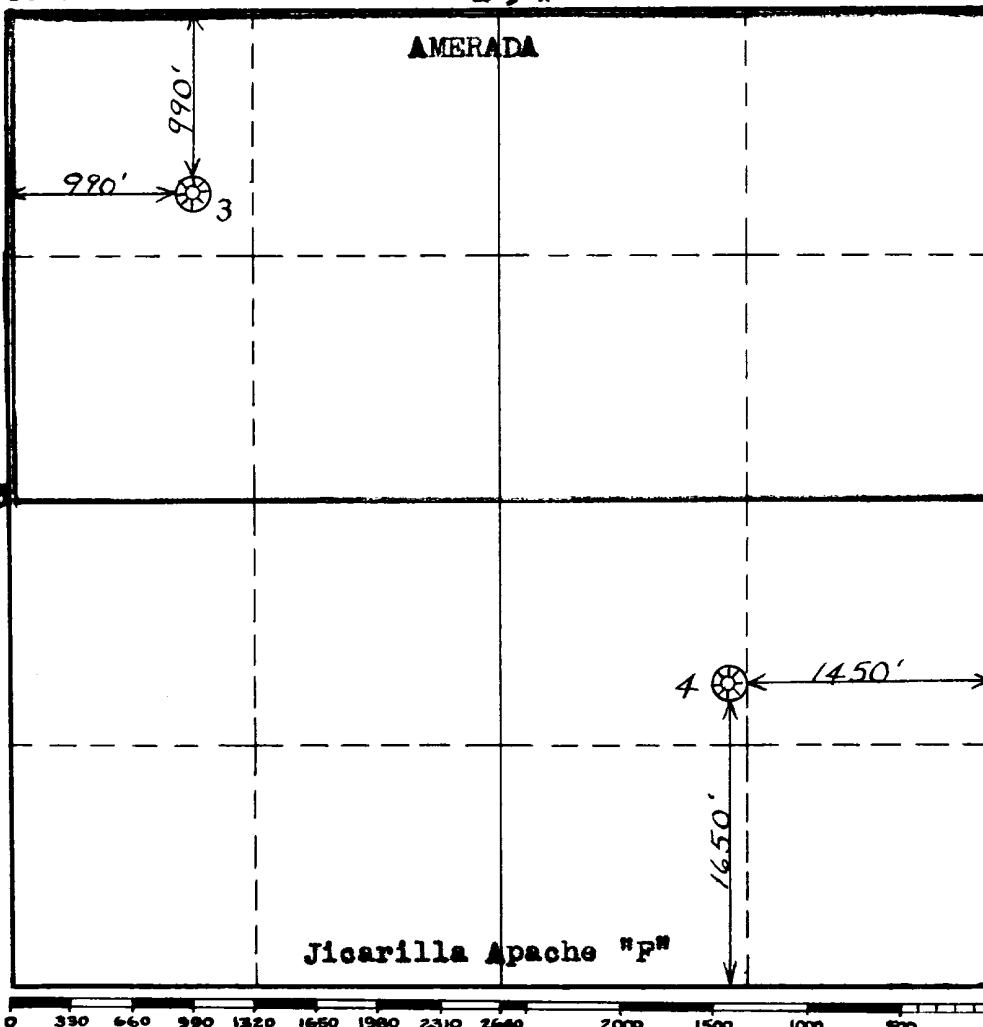
Owner

Land Description



Section B

R-5-W



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 Corp.  
(Operator)

[Signature]  
(Representative)

Box E  
Bloomfield, 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.       

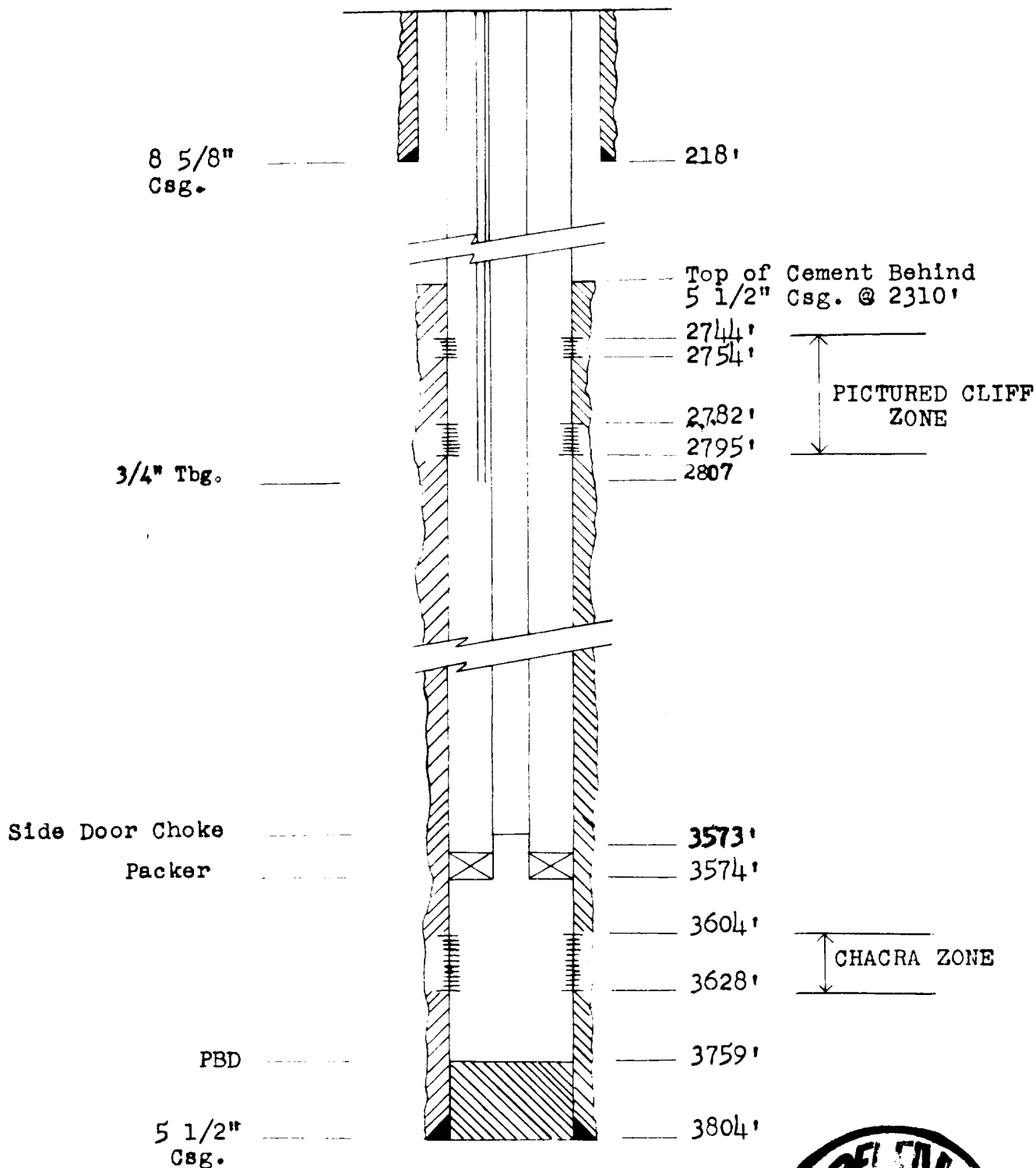
(See instructions for completing this form on the reverse side)

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. 3  
 Sec. 18, T-25-N, R-5-W

