

BEFORE THE OIL CONSERVATION COMMISSION  
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING  
CALLED BY THE OIL CONSERVATION  
COMMISSION OF NEW MEXICO FOR THE  
PURPOSE OF CONSIDERING:

CASE NO. 539  
Order No. R-328

THE APPLICATION OF THE OIL  
CONSERVATION COMMISSION OF NEW  
MEXICO UPON ITS OWN MOTION FOR  
AN ORDER FOR THE CREATION OF NEW  
POOLS, EXTENSION OF EXISTING POOLS,  
OR THE CHANGING OF PREVIOUSLY  
DESIGNATED POOL NAMES IN LEA AND  
CHAVES COUNTIES, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. May 19, 1953, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission."

NOW, on this 10th day of June, 1953, the Commission, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

(1) That due notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That a new pool should be created in Lea County, New Mexico, classified as an oil pool for Devonian production, designated as the Anderson Ranch-Devonian Pool, and described as:

Township 16 South, Range 32 East, NMPM  
SW/4 Section 1, S/2 Section 2,  
all Section 11, W/2 Section 12,  
W/2 of NW/4 Section 13, N/2 Section 14,

the establishment of said pool resulting from the discovery of Continental Oil Company's Anderson Ranch Unit No. 1 Well, SE/4 NE/4 Section 11, Township 16 South, Range 32 East, completed as a producer in the Devonian formation on March 26, 1953, with casing perforations 13,374-13,474 feet.

E x K

(3) That a new pool should be created in Lea County, New Mexico, classified as an oil pool for Siluro-Devonian production, designated the Bronco-Siluro-Devonian Pool, and described as:

Township 13 South, Range 38 East, NMPM  
All Sections 11 and 14,

the establishment of said pool resulting from the discovery of Amerada Petroleum Corporation's H. D. Schenck Well No. 1, Lot 1, Section 14, Township 13 South, Range 38 East, NMPM, completed as a producer from the Siluro-Devonian formation on April 4, 1953, with casing perforations 11,700-11,890 feet.

(4) That a new pool should be created in Chaves County, New Mexico, classified as an oil pool for Siluro-Devonian production, designated as the White Ranch-Siluro-Devonian Pool, and described as:

Township 11 South, Range 29 East, NMPM  
All Sections 27, 28, 33 and 34,

the establishment of said pool resulting from the discovery of Republic Natural Gas Company's White Ranch No. 1 Well, SE/4 NW/4 Section 34, Township 11 South, Range 29 East, NMPM, completed as a producer from the Siluro-Devonian formation on April 6, 1953, with casing perforations 8719 - 8769 feet.

(5) That the West Dollarhide-Drinkard Pool boundary in Lea County, New Mexico, as heretofore classified, defined and described, should be extended to include therein:

Township 24 South, Range 38 East, NMPM  
All Section 30

(6) That the West Dollarhide-Queen Pool boundary in Lea County, New Mexico, as heretofore classified, defined and described, should be extended to include therein:

Township 24 South, Range 38 East, NMPM  
N/2 Section 32

(7) That the East Lovington-Pennsylvanian Pool boundary in Lea County, New Mexico, as heretofore classified, defined and described, should be extended to include therein:

Township 16 South, Range 37 East, NMPM  
All Section 19

(8) That the Moore-Devonian Pool boundary in Lea County, New Mexico, as heretofore classified, defined and described, should be extended to include therein:

Township 11 South, Range 32 East, NMPM  
S/2 Section 14

(9) That the Saunders Pool boundary in Lea County, New Mexico, as heretofore classified, defined and described, should be extended to include therein:

Township 15 South, Range 33 East, NMPM  
SW/4 Section 4

(10) That the names of the following pools as heretofore classified, defined and described should be changed as follows:

West Dollarhide to Dollarhide-Ellenburger;  
West Dollarhide-Devonian to Dollarhide-Devonian;  
West Dollarhide-Drinkard to Dollarhide-Drinkard;  
West Dollarhide-Fusselman to Dollarhide-Fusselman;  
West Dollarhide-Queen to Dollarhide-Queen.

IT IS THEREFORE ORDERED:

That the application of the Oil Conservation Commission be, and the same hereby is approved as follows:

(1) That a new pool be, and the same hereby is created, designated for oil production, denominated the Anderson Ranch-Devonian Pool, Lea County, New Mexico, and described as follows:

Township 16 South, Range 32 East, NMPM  
SW/4 Section 1, S/2 Section 2,  
all Section 11, W/2 Section 12,  
W/2 of NW/4 Section 13, N/2 Section 14

(2) That a new pool be, and the same hereby is created, designated for oil production, denominated the Bronco-Siluro-Devonian Pool, Lea County, New Mexico, and described as follows:

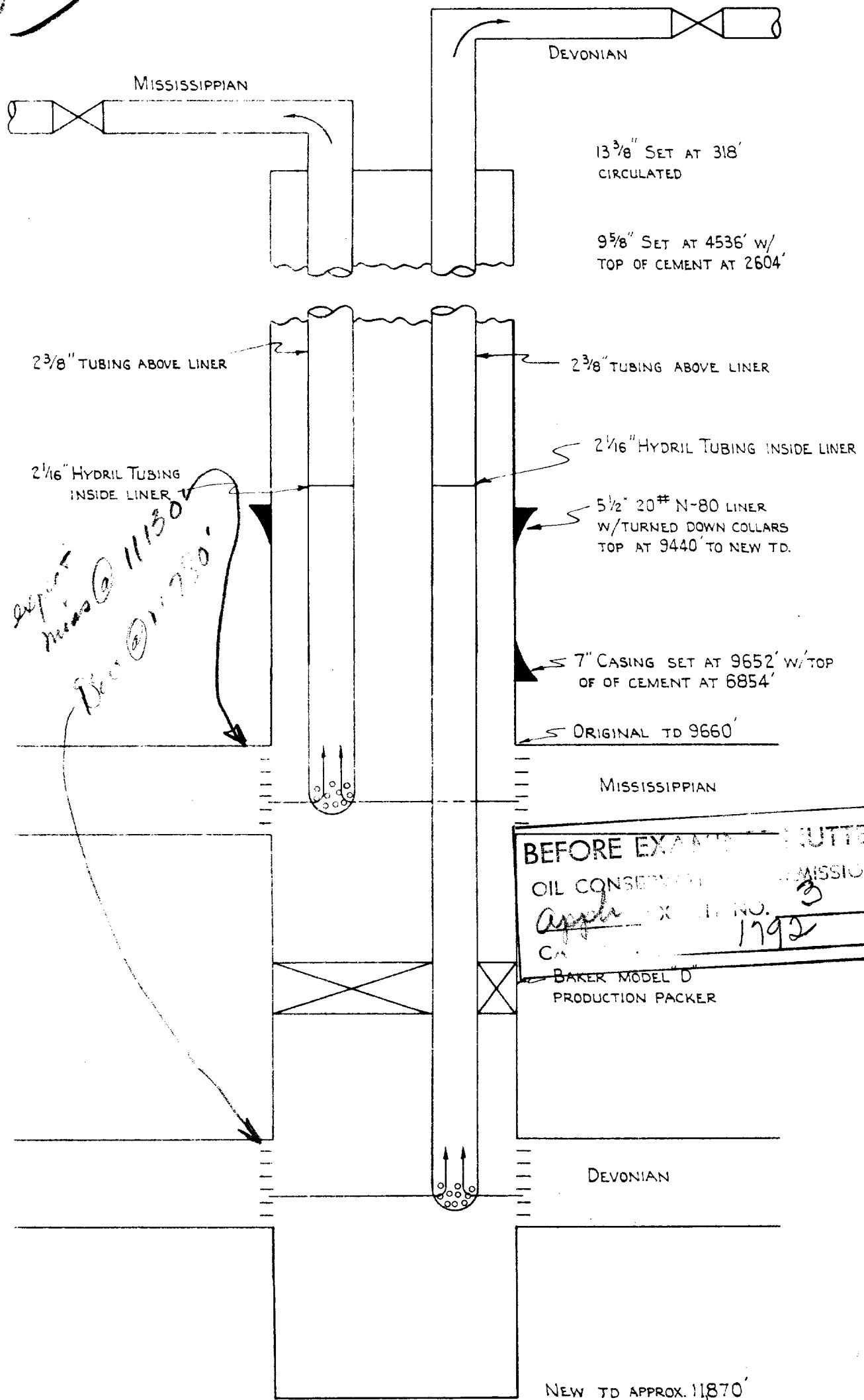
Township 13 South, Range 38 East, NMPM  
All Sections 11 and 14

(3) That a new pool be, and the same hereby is created, designated for oil production, denominated the White Ranch-Siluro Devonian Pool, Chaves County, New Mexico, and described as follows:

Township 11 South, Range 29 East, NMPM  
All Sections 27, 28, 33 and 34

DIAGRAMMATIC SKETCH  
 PROPOSED DUAL COMPLETION INSTALLATION  
 COMPANY: AMERADA PETROLEUM CORPORATION  
 LEASE: FEDERAL "B" NO. 2  
 BRONCO FIELD  
 LEA COUNTY, NEW MEXICO

*gas in  
back*



*Exc*

4872.70

1320

912.75

AMERICA

SINCLAIR

HARRIS

416.23

1995.92

1013.26

12.366

366.50

4779.06

813.06

BARNES - GOLDEN

WARD

FEDERAL B

SINCLAIR et al.

AMERICA et al.

NEW MEXICO

TEXAS

FEDERAL "B" LEASE  
BRONCO FIELD  
LEA CO. NEW MEXICO

**SCALE 1" : 1000'**

 $E \times A$



R 38 E

Texas Co.

NEW MEXICO

TEXAS

N

*location NW/4 NE/4*  
*Devonian*  
*Harris*  
*Federal 'B'*

Amerada

Sinclair

Barnes

Amerada

U.S.A.

Sinclair

Federal 'B'

Amerada

*Dual auth by R-1387*

3 ● 5

43.69 Ac.

43.69 Ac.

43.69 Ac.

1 ●

Barnes & Golden

L.W. Ward

Amerada

Amerada

Amerada

Weems

Amerada

1 ●

4 ●

6 ●

Weems

Linam

Schenck

LEGEND

- WOLFCAMP WELL
- ▲ MISSISSIPPIAN WELL
- ⊙ DEVONIAN WELL
- ⊙ DUAL MISSISSIPPIAN-DEVONIAN

Federal 'A'

**BRONCO FIELD**

YOAKUM CO., TEXAS - LEA CO., NEW MEXICO

SCALE: 1 INCH = 1000 FEET

UNIT OUTLINE

Ex B



R 38 E

LEA COUNTY

YOAKUM CO.

358

Texas

N. MEXICO  
TEXAS

Amerada

Sinclair

Barnes

Amerada

403

JOHN H. BLK

GIBSON D.

T

Federal "B"

Federal "B"

13

Amerada

Amerada

3

2

404

5

2

S

43.69 Ac.

L. W. Ward

43.69 Ac.

L. W. Ward

Weems

Amerada

Weems

OPERATOR OF LEASE Amerada Petroleum Corporation NAME OF LEASE Federal "B"  
TOTAL ACRES IN LEASE 266.61 ACRES COVERED BY THIS PLAT 66.61  
DESCRIPTION OF PROPERTY All of N/2 of Sec. 11, Less Lot 1, 27.32 Ac.  
COUNTY Lee-Yoakum FIELD Bronze-Siluro-Devonian Pool  
SCALE OF PLAT 1" = 1000'

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

I HEREBY CERTIFY THAT I AM FAMILIAR WITH THE CONDITIONS AS THEY ACTUALLY EXIST ON THIS LEASE THAT THE ABOVE PLAT WHICH IS DRAWN TO THE SCALE INDICATED HEREON IS TO THE BEST OF MY KNOWLEDGE TRUE AND CORRECT THAT 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 \_\_\_\_\_ 195\_\_\_\_

NOTARY PUBLIC IN AND FOR

COUNTY \_\_\_\_\_

**DRILL-STEM TEST DATA  
MISSISSIPPIAN FORMATION  
BIRMINGHAM FIELD**

L. R. Weems Et Al #3

6-5-53 Test #2 from 11,135' to 11,216', 4" drill pipe, 5/8" bottom and 1" top choke, used 2068' water blanket - Opened tool at 5:00 a.m. with weak blow of air increasing to strong blow - Gas to surface in 1 hour and 27 minutes, Gas volume 13,500 cubic feet per day. Gas volume at: 7 a.m. - 13,500 cubic feet per day  
8 a.m. - 20,500 cubic feet per day  
9 a.m. - 32,900 cubic feet per day  
Closed tool at 9 a.m. - Recovered 585' water blanket cut with 5% mud; 5170' dry pipe - Unloaded 1512' water blanket; 2309' of oil cut 25% mud; 567' free oil, gravity 40.2 corrected and 882' salt water. Amerada Hydrostatic Pressure - In hole - 5,360# - Out of hole - 5,295#. Initial Flow Pressure - 965# - Final Flow Pressure 1,925# - 1/4 Hour Build-up - 3,755#

Federal "B" #1

11-28-53 DST #6 - 9 hours drill-stem test from 11,088' to 11,200', 4-1/2" drill pipe, using 2068' water blanket, opened tool at 4:40 a.m. on 5/8" bottom and 1" top chokes with fair blow of air increased to good blow - no gas or fluid to surface at 8 a.m. - Tool still open. 4-hour test, 4-1/2" drill pipe - closed tool at 8:40 a.m. No gas or fluid to surface - recovered 306' of dry pipe, 7460' of gas in drill pipe, 2068' of gas and mud cut water blanket, and 1221' of heavy oil and gas cut mud, estimated 25% oil. Amerada Hydrostatic Pressure - In hole 4920#; Out of hole 4830#. Initial Flow Pressure - 970# - Final Flow Pressure 1330# - 1/4 Hour Build-Up 1600#.

L. W. Ward #2

9-5-53 DST #4 from 10,870' to 11,044' - 3 hour test - 4-1/2" drill pipe - 5/8" bottom and 1" top chokes - used 1860' water blanket - opened tool at 2 p.m. with good blow of air - water blanket to surface in 40 minutes - oil in 54 minutes - turned to tanks at 2:45 p.m. Flowed 163.93 bbls oil, .26 bbls mud and no water in 2 hours 6 minutes - drill pipe pressure 280# - gas volume 2,019,000 cubic feet per day - gas-oil ratio 1025 - gravity 43.2 corrected.

Gauges:

Time	Bbls. Fluid	% Mud
2:54 to 3 p.m.	Filling flow line and separator	
4 p.m.	94.91	.2
5 p.m.	69.28	.1

Closed tool at 5 p.m. and reversed out 55.42 bbls oil, 1.2% mud and no water - drill pipe unloaded from below circulating sub 279' oil, 2% mud - recovered 93' free oil, 5% mud - no show of formation water.



Drill-Stem Test Data  
Bronco Field

Page 2

L. W. Ward #2 (Cont'd)

Amerada Hydrostatic Pressure - In and out of hole - 5,200#  
Initial Flow Pressure - 1,360#; Final Flow Pressure - 2,275#;  
1/4 Hour Build-Up - 3,980#

L. W. Ward #3

2-21-54 DST #2 from 10,940' to 11,085', 4 hour test, 4-1/2" drill pipe, 5/8" bottom and 1" top chokes, used 1811' water blanket - opened tool at 9:06 a.m. with fair blow of air which increased to strong blow in 49 minutes - gas to surface in 2 hours and 29 minutes - gas volume too small to measure throughout test - no fluid to surface - recovered 1811' slightly oil and gas cut water blanket, estimated 1% oil and 527' heavy oil and gas cut mud, estimated 50% oil - no show of formation water. Amerada Hydrostatic - In hole 5075' - out of hole 5050#; Initial Flow Pressure - 880#; Final Flow Pressure - 1020#; 1/4 Hour Build-Up - 1555#.

Case No.

1792

Large Exhibits

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE