

CASE 2427: Application of J. C.
WILLIAMSON for a dual completion
of its WESTATES-FED. WELL NO. 5.

105a // 0.

2427

Production, Transcript,
and Exhibits, Etc.

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. 2427
Order No. R-2121

APPLICATION OF J. C. WILLIAMSON
FOR AN OIL-OIL DUAL COMPLETION,
LEA COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on November 8, 1961, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 17th day of November, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

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

(2) That the applicant, J. C. Williamson, seeks permission to complete the Westates-Federal Well No. 5 located in Unit E of Section 1, Township 25 South, Range 37 East, NMPN, Lea County, New Mexico, as a dual completion (conventional) in such a manner as to permit the production of oil from an undesignated Blinabry pool and the production of oil from an undesignated Drinkard pool through parallel strings of 2 3/8-inch tubing, separation of the zones to be with a packer set at a depth of 5910 feet.

(3) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(4) That approval of the subject application will neither cause waste nor impair correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, J. C. Williamson, is hereby authorized to complete the Westates-Federal Well No. 5 located in Unit E

-2-
CASE No. 2427
Order No. F-2121

of Section 1, Township 25 South, Range 37 East, NMFH, Lea County, New Mexico, as a dual completion (conventional) in such a manner as to permit the production of oil from an undesignated Blinbry pool and the production of oil from an undesignated Drinkard pool through parallel strings of 2 3/8-inch tubing, separation of the zones to be accomplished with a packer set at a depth of 5910 feet.

PROVIDED HOWEVER, That the applicant shall complete, operate, and produce said well in accordance with Rule 112-A of the Commission Rules and Regulations.

PROVIDED FURTHER, That the operator shall take packer-leakage tests upon completion and annually thereafter during the Gas-Oil Ratio Test Period for the Drinkard zone, and at such other times as the Secretary-Director of the Commission may prescribe.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

E. L. Mechem

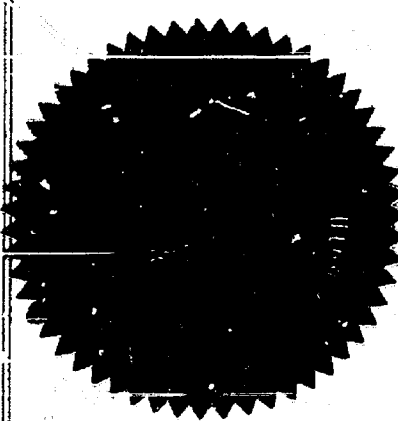
EDWIN L. MECHEM, Chairman

E. S. Walker

E. S. WALKER, Member

A. L. Porter, Jr.

A. L. PORTER, Jr., Member & Secretary



SEE/

GOVERNOR
EDWIN L. MECHEM
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
E. S. JOHNNY WALKER
MEMBER



P. O. BOX 871
SANTA FE

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

November 20, 1961

Mr. Jason Kellahin
Kellahan & Fox
Box 1713
Santa Fe, New Mexico

Re: Case No. 2427
Order No. R-2121
Applicant:
J. C. Williamson

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

ir/

Carbon copy of order also sent to:

Hobbs OCC x
Artesia OCC
Aztec OCC

OTHER

AMENDED
NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

7-3-58

APPLICATION FOR DUAL COMPLETION

Field Name Wildcat (Undesignated)		County Lea	Date October 1, 1961
Operator J. C. Williamson		Lease Westates-Federal	Well No. 5
Location of Well E	Section 1	Township 25=S	Range 37-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual completion of a well in these same pools or in the same zones within one mile of the subject well? YES ☐ NO ☒
2. If answer is yes, identify one such instance: Order No. _____; Operator, Lease, and Well No.: _____

3. The following facts are submitted:	Upper Zone	Lower Zone
a. Name of reservoir	Blinberry	Drinkard
b. Top and Bottom of Pay Section (Perforations)	5276-5356', 5416-5424', 5434-5464', 5486-5502'	5958-5966', 5970-5990', 6002-6020'
c. Type of production (Oil or Gas)	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flow	Flow

4. The following are attached. (Please mark YES or NO)
- Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
- Yes b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
- Yes c. Waivers consenting to such dual completion from each offset operator; or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
- Yes d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed, it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.
- | | |
|---|---|
| Cities Service Petroleum Co.
Box 760, Roswell, New Mexico
Humble Oil & Refg. Co/
Box 2347, Hobbs, New Mexico
Claude Aikman
Box 2090, San Angelo, Texas
Skelly Oil Company/
Box 38, Hobbs, New Mexico | Gulf Oil Corporation
Box 569, Roswell, New Mexico
Texaco, Inc.
Box 92, Midland, Texas
Amerada Petroleum Corporation
Drawer D, Monument, New Mexico |
|---|---|

Be sure all necessary fees are paid in full above and enclosed a copy of this application. ☐ YES ☒ NO

CERTIFICATE: I, the undersigned, state that I am the _____ ASST. TO Supt. _____ of the _____ (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed dual completion will result in an unorthodox well location and/or a non-standard production unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

Diagrammatic Sketch

J. C. Williamson
Westates-Federal #5

Undesignated Pool - Lea County, New Mexico
Blineberry - Drinkard Dual

Blineberry Flow

Drinkard Flow

McEvoy 6000# test
Dual Well Head

Blineberry Perfs
5270-5356'
5416-5424'
5434-5464'
5486-5502'

Drinkard Perfs
5958-5966'
5970-5990'
6002-6020'

13 3/8" @ 169'
Circulated Cement

9 5/8" @ 1005'
Cemented W/250 sx 8%
plus 100 sx 4%
T/Cement 150'
16 Centralizers spaced from
Total Depth up to 4000'

2 3/8" Tubing @ 5406'
on Blineberry

Brown Type BP4H Pkr.
set @ 5910'

2 3/8" Tubing @ 6023'
on Drinkard
7" @ 6050' Cemented
W/270 sx 50/50 Diamix plus 4%
T/Cement 4335'

J. C. WILLIAMSON
606 V & J TOWER
MIDLAND, TEXAS

Ex-2427

C O P Y

October 1, 1961

TO ALL OFFSET OPERATORS:

RE: J. C. WILLIAMSON #5 WESTATES-FEDERAL, LEA COUNTY, NEW MEXICO

GENTLEMEN:

IF YOU HAVE NO OBJECTION TO THE DUAL COMPLETION OF THE ABOVE WELL AS SHOWN ON THE ATTACHED WAIVER AND APPLICATION FOR DUAL COMPLETION, WOULD YOU PLEASE SIGN THE ATTACHED WAIVER AND MAIL TO THE OIL CONSERVATION COMMISSION, HOBBS, NEW MEXICO.

YOURS VERY TRULY,

J. C. WILLIAMSON

Mary E. Smyre
BY Mary E. Smyre
Asst. to Supt.

*Noted
Mailed
10-27-61*

C O P Y

Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Gentlemen:

This is to advise that we do not object to the dual completion of the J.C. Williamson #5 Westates-Federal being 1700' FNL & 330' FNL of Section 1, T-25-S, R-37-E, (Wildcat - Undesignated), Lea County, New Mexico, said dual being from the Blinberry zone - perforations 5270-5356', 5416-5424', 5434-5464' and 5486-5502' and from the Drinkard zone - perforations 5958-5966', 5970-5790' and 6002-6020'. Total Depth of well being 6050'.

Name of Company

Signature and Title

Date

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

(Form C-104)
Revised 7/1/57

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Midland, Texas
(Place)

September 1, 1961
(Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

J. C. WILLIAMSON
(Company or Operator)

Midland, Texas
(Locality)

Well No. 3, in 1/4 1/4, 1/4

Unit Letter 1, Sec. 1, T. 23-S, R. 10-E, NMPM., Willcox Pool

Please indicate location:

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

County. Date Spudded 7/12/61

Date Drilling Completed 7/21/61

Elevation 3440

Total Depth 6000 PBTD

Top Oil/Gas Pay 5270'

Name of Prod. Form. Midland

PRODUCING INTERVAL -

Perforations 5270-5300' 5300-5320' 5320-5340' 5340-5360' 5360-5380' 5380-5400'

Open Hole 5270' Depth Casing Shoe 6000 Depth Tubing 5400

OIL WELL TEST -

Natural Prod. Test: 0 bbls. oil, 0 bbls. water in 0 hrs, 0 min. Size 0

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 00 bbls. oil, 0 bbls. water in 00 hrs, 0 min. Size 00/00

GAS WELL TEST -

Natural Prod. Test: 0 MCF/Day; Hours flowed 0 Choke Size 0

Method of Testing (pitot, back pressure, etc.): 0 MCF/Day; Hours flowed 0

Test After Acid or Fracture Treatment: 0 MCF/Day; Hours flowed 0

Choke Size 0 Method of Testing: 0

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 11.000 gal. oil plus 110's sand per gal.

Casing 1700 Tubing 1200 Date first new oil run to tanks September 1, 1961

Press. 1700 Press. 1200

Oil Transporter The Foundation Corporation

Gas Transporter 0

Tubing, Casing and Cementing Record

Size	Feet	San
<u>13 3/8</u>	<u>170</u>	<u>100</u>
<u>9 5/8</u>	<u>1000</u>	<u>300</u>
<u>7</u>	<u>6000</u>	<u>200</u>
<u>2" 1/2</u>	<u>2400</u>	<u>0</u>

Remarks: This is the upper part of a dual well
Midland application filed 9/1/61

I hereby certify that the information given above is true and complete to the best of my knowledge.

Approved: J. C. WILLIAMSON, 1961

(Company or Operator)

By: Mary E. Long

(Signature)

OIL CONSERVATION COMMISSION

Title Asst. to Supr.

Send Communications regarding well to:

By: 0

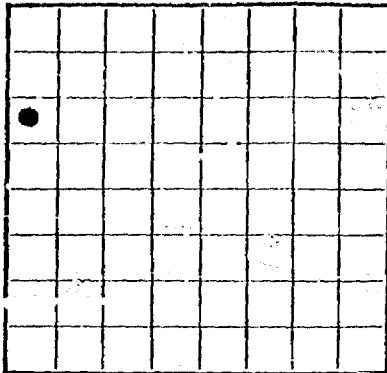
Name J. C. Williamson

Title 0

Address Box 11, Midland, Texas

NUMBER OF COPIES RECEIVED DISTRIBUTION SANTA FE FILE U.S.G. LAND OFFICE TRANSPORTER PRODUCTION OFFICE OPERATOR		NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS		FORM C-110 (Rev. 7-60)
FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE				
Company or Operator J. C. WELLS		Lease WELLS-FEDERAL		Well No. 3
Unit Letter B	Section 1	Township 23-N	Range 27-E	County Lea
Pool 2410003			Kind of Lease (State, Fed, Free) Lease - Lea County	
If well produces oil or condensate give location of tanks		Unit Letter B	Section 1	Township 23-N
Authorized transporter of oil <input checked="" type="checkbox"/> or condensate <input type="checkbox"/> The Petroleum Corporation		Address (give address to which approved copy of this form is to be sent) Box 4137, Midland, Texas		
Is Gas Actually Connected? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
Authorized transporter of casing head gas <input type="checkbox"/> or dry gas <input type="checkbox"/>		Date Connected	Address (give address to which approved copy of this form is to be sent)	
If gas is not being sold, give reasons and also explain its present disposition: Turned out closed - waiting on completion				
REASON(S) FOR FILING (please check proper box)				
New Well <input checked="" type="checkbox"/> Change in Ownership <input type="checkbox"/> Change of transporter (check one) Other (explain below) <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Casing head gas <input type="checkbox"/> Condensate <input type="checkbox"/>				
Remarks Well is in full completion from Midland & Midland - Form C-110 approved for Midland 9/10/61				
The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.				
Executed this the _____ day of _____, 19____		By Mary E. Smyre		
OIL CONSERVATION COMMISSION		Title Asst. to Mgr.		
Approved by		Company J. C. WELLS		
Title		Address Box 41, Midland, Texas		
Date				

Form 9-330

Bulet Bureau No. 42-16354.
Approval expires 12-31-60.U. S. LAND OFFICE Las Cruces
SERIAL NUMBER 63377 (2)
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company J. G. WILLIAMSON Address BOX 16, MIDLAND, TEXAS
Lessor or Tract UNITED STATES-PRIVATE Field Wilcox State New Mexico
Well No. 9 Sec. 1 T. 23-S R. 17-E Meridian 106W County Lea
Location 1730 ft. S. of N. Line and 330 ft. E. of W. Line of Section 1 Elevation 3140
(Derrick base or "dike to sea level")

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed

Date October 1, 1961Title Geologist

The summary on this page is for the condition of the well at above date.

Commenced drilling July 2, 1961 Finished drilling July 21, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 4730 to 4875 (G) No. 4, from 5926 to 6030
No. 2, from 4875 to 4927 (G) No. 5, from _____ to _____
No. 3, from 5000 to 5372 (G) 1 No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13 3/8	120	120	1 1/2	100	Beam & Wing	1000	1000	1000	Production
9 5/8	80	80	1 1/2	100	Beam & Wing	1000	1000	1000	Production
7	60	60	1 1/2	100	Beam & Wing	1000	1000	1000	Production
5	40	40	1 1/2	100	Beam & Wing	1000	1000	1000	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	100	100	Beam & Wing	1 1/2 - 1 3/4	1000
9 5/8	100	100	"	"	"
7	100	100	"	"	"

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Well used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
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FOLD MARK

TOOLS USED

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

* SEE ATTACHED SHEET FOR REWARD INFORMATION DATES MONDAY

October 1, 1961

Put to producing September 1, 1961

The production for the first 24 hours was 88 barrels of fluid of which 97.5 % was oil; .2 % emulsion; .1 % water; and .1 % sediment. Gravity, °Bé. 57

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

_____, Driller
 _____, Driller
 _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
82	85	85	Gulches & Surface Sands
82	844	844	unconsolidated
844	2000	1000	Grit & Anhydrite
2000	2418	1243	Anhyd. & calc. w/streaks of ss
2418	4670	1622	Dolomite
4670	4730	80	Sdy. Dolomite
4730	5486	756	unconsolidated
5486	5833	177	Dolomite & Sand
5833	6880	217	Dolomite
6880	946		
946	2380		
2380	2618		
2618	4236		
4236	5436		
5436			
FROM-	TO-	TOTAL FEET	FORMATION

LOVĚBÍ

107200
EOKWATION BECOKD—continued

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares. A small dark smudge or mark is visible near the bottom left corner of the grid.

100-44344

GEOLOGICAL SURVEY

DEPARTMENT OF THE INTERIOR
UNITED STATES

REUSE OF PERMIT TO PROTECT

UNCLASSIFIED

U.S. FISH OFFICE

7th Floor 6/15/60
Re: 100-100000-10-15-13001

**BRINKARD
GAGING RECORD
&
PERFORATIONS**

13 3/8 - 400 - 8 rd - Jbl. set at 170 - Tanna Pattern Guide Shoe
 9 5/8 - 320 - 8 rd - Jbl. set at 1005 - Baker Collar & Shoe
 7 - 23 & 240 8 rd - Jbl. set at 6030
 2" LWE - 8 rd - Low star set at 6023'

to Produce Oil

Brinkard Perforations - 3938 - 3944', 3970-3980', 6006-6020'

BRINKARD PRODUCTION

Notes

October 1, 1961

Put to Producing August 4, 1961

The production for the first 24 hours was 244 barrels of oil of which 100% was oil - no emulsion, water or sediment - Gravity, 37

No. 30-61

DOCKET: EXAMINER HEARING - WEDNESDAY - NOVEMBER 8, 1961

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Elvis A. Utz, Examiner, or Daniel S. Nutter, as Alternate Examiner:

CASE 2421: Application of Texaco Inc. for approval of a unit agreement and for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Northeast Caprock (Queen) Unit Agreement, covering 1360 acres, more or less, in Township 12 South, Range 32 East, Caprock Queen Pool, Lea County, New Mexico. Applicant further seeks authority to institute a unit-wide waterflood by the injection of water into the Queen formation through 19 wells located within said unit.

CASE 2422: Application of Texaco Inc. for an oil-gas dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its J. C. Estlack Well No. 1, located in Unit T of Section 3, Township 21 South, Range 37 East, Lea County, New Mexico, as an oil-gas dual completion (conventional) in the Blinbry Oil and Tubb Gas Pools, with the production of oil from the Blinbry zone and the production of gas from the Tubb zone to be through parallel strings of 2 1/16-inch tubing.

CASE 2423: Application of Skelly Oil Company for authority to inject water into the Horseshoe-Gallup Oil Pool, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks authorization to inject water into the Gallup formation underlying the Navajo "M" lease, comprising all of Sections 33 and 34, Township 32 North, Range 17 West, Horseshoe-Gallup Oil Pool, San Juan County, New Mexico, through the Navajo "M" Well No. 2, located 1980 feet from the South and West lines of said Section 33, for the purpose of secondary recovery.

CASE 2424: Application of The Ohio Oil Company for a 160-acre non-standard gas proration unit, an unorthodox well location and an oil-gas dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas proration unit in the Monument-McKee Gas Pool, comprising the N/2 SW/4 and S/2 NW/4 of Section 5, Township 20 South, Range 37 East, Lea County, New Mexico,

CASE 2424: (Cont.)

said unit to be dedicated to the Bertha Barber Well No. 12, located at an unorthodox location 1650 feet from the South line and 330 feet from the West line of said Section 5. Applicant further seeks permission to complete said Bertha Barber Well No. 12 as an oil-gas dual completion (conventional) in the Monument-Paddock Pool and in the Monument-McKee Gas Pool, with the production of oil from the Monument-Paddock zone and the production of gas from the Monument-McKee zone to be through parallel strings of 2 3/8-inch tubing.

CASE 2425:

Application of Iverson & Welch for an order extending the limits of the Shugart and the North Shugart Pools and abolishing the Culwin & Culwin-Yates Pools, Eddy County, New Mexico. Applicant, in the above styled cause, seeks an order abolishing the Culwin and Culwin-Yates Pools both of which are located in Townships 18 and 19 South, Ranges 30 and 31 East, Eddy County, New Mexico. Applicant further seeks an order extending the vertical limits of the Shugart and North Shugart Pools to include the Yates, Seven Rivers, Queen and Grayburg formations and establishing the horizontal limits of said pools as follows:

NORTH SHUGART POOL:

TOWNSHIP 18 SOUTH, RANGE 31 EAST

Section 8: S/2
Section 9: S/2, NE/4
Section 10: S/2, S/2 NE/4
Section 11: S/2, NE/4
Section 12: All
Section 13: N/2, SE/4
Section 14, 15, 16, 17, and 18: All
Section 22: N/2 N/2
Section 24: N/2 N/2 NE/4

SHUGART POOL: Remaining portion of the North Shugart Pool, as presently defined, plus that acreage contained in the Shugart, Culwin and Culwin-Yates Pools, as presently defined.

CASE 2426: Application of Cities Service Petroleum Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Hodges B Well No. 2, located in Unit L of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in undesignated Drinkard and undesignated Fusselman Pools, with the production of oil from both zones to be through parallel strings of 2 inch tubing.

CASE 2427: Application of J. C. Williamsen for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Westates-Federal Well No. 5, located in Unit E of Section 1, Township 25 South, Range 37 East, Lea County, New Mexico, as a dual completion (conventional) in undesignated Blinbry and undesignated Drinkard pools, with the production of oil from both zones to be through parallel strings of 2 3/8 inch tubing.

CASE 2428: Application of Texas Pacific Coal & Oil Company for a 320-acre non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 320-acre non-standard gas proration unit in the Jalmat Gas Pool, comprising the N/2 of Section 8, Township 22 South, Range 36 East, Lea County, New Mexico; said unit is to be dedicated to the State "A" A/c-2 Well No. 43, located 1650 feet from the North line and 990 feet from the East line of said Section 8.

CASE 2429: Application of Stnadard Oil Company of Texas for approval of the Jurnegan Point Unit Agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Jurnegan Point Unit Agreement embracing 10,240.84 acres, more or less, of State and fee lands in Township 24 South, Ranges 24 and 25 East, Eddy County, New Mexico.

CASE 2430: Application of Royal Development Company for seven unorthodox oil well locations, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks approval of seven unorthodox oil well locations in the Shiprock-Gallup Oil Pool, San Juan County, New Mexico, for the following-described wells in Section 17, Township 29 North, Range 18 West:

Well No. 17-I-A located 2475 feet from the South line and 10 feet from the East line;

CASE 2430:(Cont.)

Well No. 17-I-B located 2475 feet from the South line and 1310 feet from the East line;

Well No. 17-I-D located 1650 feet from the South line and 10 feet from the East line;

Well No. 17-I-E located 1650 feet from the South line and 1310 feet from the East line;

Well No. 17-I-A-1 located 2475 feet from the South line and 660 feet from the East line;

Well No. 17-J-C located 2475 feet from the South line and 2630 feet from the East line;

Well No. 17-J-C-1 located 2475 feet from the South line and 1980 feet from the East line;

CASE 2431:

Application of H. F. Sears for an exception to Rule 107, San Juan, County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 107 authorizing the completion of the Navajo 1-5 well located in the NE/4 NE/4 of Section 5, Township 24 North, Range 10 West, Bisti-Lower Gallup Oil Pool, San Juan County, New Mexico, as a 2 7/8-inch tubingless completion below the depth of 5,000 feet.

ig/

LEWIS : M 6 07

For John R. H. Co.

Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Gentlemen:

This is to advise that we do not object to the dual completion of the J.C. Williamson #5 Westates-Federal being 1730' FNL & 330' FWL of Section 1, T-25-S, R-37-E, (Wildcat - Undesignated), Lea County, New Mexico, said dual being from the Blinberry zone - perforations 5270-5356', 5416-5424', 5434-5464' and 5486-5502' and from the Drinkard zone - perforations 5958-5966', 5970-5790' and 6002-6020'. Total Depth of well being 6050'.

Spelly Oil Co.
Name of Company

George W. Leasing
Signature and Title

10/20/61
Date

Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Gentlemen:

This is to advise that we do not object to the dual completion of the J. C. Williamson #5 Westates-Federal being 1730' FNL & 330' FWL of Section 1, T-25-S, R-37-E, (Wildcat - Undesignated), Lea County, New Mexico, said dual being from the Blinberry zone - perforations 5270-5356', 5416-5424', 5434-5464' and 5486-5502' and from the Drinkard zone - perforations 5958-5966', 5970-5790' and 6002-6020'. Total Depth of well being 6050'.

Skelly Oil Company

By George W. Selinger
George W. Selinger

Date: 10-20-61

Case 2427

Heard 11-8-61

Res. 11-9-61

1. Grant J. C. Williamson permission to dually complete their Westates Dist. #5, 1730/N, 330/W line sec. 1-255-37E. Will to be completed in an under. Blinby and over under. Dr. pools.
 2. Completion to be a conventional 2 string oil-oil dual.
 3. Usual dual order otherwise.
- J. C. Williamson

AMERADA PETROLEUM CORPORATION
P. O. BOX 2040
TULSA 2, OKLA.

2427
To
Jim Kapstern

October 16, 1961

Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Re: Application of J. C. Williamson
for dual completion for his #5
Westates-Federal, Lea County,
New Mexico

Gentlemen:

This is to advise that we do not object to the dual completion of the J. C. Williamson #5 Westates-Federal being 1730' FNL & 330' FWL of Section 1, T-25-S, R-37-E, (Wildcat - Undesignated), Lea County, New Mexico, said dual being from the Blinberry zone - perforations 5270-5356', 5416-5424', 5434-5464' and 5486-5502' and from the Drinkard zone - perforations 5958-5966', 5970-5790' and 6002-6020'. Total Depth of well being 6050'.

By

R. S. Christie
R. S. Christie

cc: J. C. Williamson

Don't
M. M. M.
10-27-61
JR

File 2427

17 M 3 51

To:
Jim Kaptenia

Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Gentlemen:

This is to advise that we do not object to the dual completion of the J.C. Williamson #5 Westates-Federal being 1730' FNL & 330' FWL of Section 1, T-25-S, R-37-E, (Wildcat - Undesignated), Lea County, New Mexico, said dual being from the Blinberry zone - perforations 5270-5356', 5416-5424', 5434-5464' and 5486-5502' and from the Drinkard zone - perforations 5958-5966', 5970-5790' and 6002-6020'. Total Depth of well being 6050'.

Humble Oil & Refining Co
Name of Company

Thomas S. Meadows
Signature and Title
Area Engineering Coordinator

Oct 12, 1961
Date

CITIES SERVICE PETROLEUM COMPANY



FORMERLY NAMED

CITIES SERVICE OIL COMPANY

BOX 97

HOBBS, NEW MEXICO

October 9, 1961

D. D. Bodie

Division Superintendent

*To: Jim Kapteina
Box 2427*

New Mexico Oil Conservation Commission
P. O. Box 2045
Hobbs, New Mexico

Re: J. C. Williamson #5 Westates-Federal
Lea County, New Mexico

Gentlemen:

We have no objection to the dual completion of the above
well as shown on the attached waiver.

Sincerely yours,

D. D. Bodie sjb

D. D. Bodie
Division Superintendent

DDB/sjb

Oil Conservation Commission
Box 2045
Hobbs, New Mexico

Gentlemen:

This is to advise that we do not object to the dual completion of the J.C. Williamson #5 Westates-Federal being 1730' INL & 330' FWL of Section 1, T-25-S, R-37-E, (Wildcat - Undesignated), Lea County, New Mexico, said dual being from the Blinberry zone - perforations 5270-5356', 5416-5424', 5434-5464' and 5486-5502' and from the Drinkard zone - perforations 5958-5966', 5970-5790' and 6002-6020'. Total Depth of well being 6050'.

Atlas Drilling Co.
Name of Company

W. H. Druehl
Signature and Title

Oct 7 - 61
Date

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
November 8, 1961

EXAMINER HEARING

IN THE MATTER OF:
Application of J. C. Williamson for a
dual completion, Lea County, New Mexico.
Applicant, in the above-styled cause,
seeks permission to complete its Westates-
Federal Well No. 5, located in Unit E of
Section 1, Township 25 South, Range 37
East, Lea County, New Mexico, as a dual
completion (conventional) in undesignated
Blinebry and undesignated Drinkard pools,
with the production of oil from both
zones to be through parallel strings of
2 3/8 inch tubing.

CASE NO.
2427

Before: Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

EXAMINER UTZ: We will call Case No. 2427.

MR. WHITFIELD: Application of J. C. Williamson for a
dual completion, Lea County, New Mexico.

MR. KELLAHIN: Jason Kellahin, Kellahin and Fox, Santa
Fe, representing the applicant. We will have one witness and I
would like to have him sworn.

EXAMINER UTZ: Are there other appearances in this
case?

(Witness sworn.)

J. A. Coleman

DEARNLEY-MEIER REPORTING SERVICE, Inc.

PHONE CH 3-6691

ALBUQUERQUE, NEW MEXICO

called as a witness by and behalf of the applicant, having been first duly sworn, was examined and testified as follows:

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please.

A .. A. Coleman.

Q What business are you engaged in, Mr. Coleman?

A Consulting petroleum engineering business, Hobbs, New Mexico.

Q What education have you had as a petroleum engineer?

A I graduated from the University of Oklahoma. In field experience I have worked with the British American, Sinclair Oil and Gas and various other independent operations in the southeastern New Mexico area.

Q Over what period of time, Mr. Coleman?

A For the past seven years.

Q Where do you maintain your offices at the present time?

A In Hobbs. I have been operating as a consulting petroleum engineer for the last six years.

Q Has that been in the Hobbs area?

A Yes, sir.

MR. KELLAHIN: Are the witness's qualifications acceptable?

EXAMINER UTZ: Yes, sir.

Q (By Mr. Kellahin) In your capacity as a petroleum

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engineer, Mr. Coleman, have you been retained by J. C. Williamson in connection with Case No. 2427?

A Yes, sir.

Q Would you state what is proposed by the applicant in this case?

A In general terms the applicant has drilled a well and has his allowable assigned to the lower zone in this well and now requests permission to dually complete the well.

EXAMINER UTZ: Have you already dualled this well?

THE WITNESS: Yes, sir.

Q (By Mr. Keilahin) Mr. Coleman, referring to what has been marked as Exhibit 1 would you state what that is?

A This is an ownership plat giving the locations of this particular well.

Q What is the location of the well involved?

A The actual footage location of the well is 1730 feet from the North line and 330 feet from the West line, Section 1, Township 25 South, Range 37 East, Lea County, New Mexico.

Q Referring to what has been marked Exhibit 2, would you discuss that Exhibit?

A That is a gama ray neutron log run with the top so designated to show separation between the two producing zones.

Q Did you make the perforations on the Exhibit?

A Yes, sir.

Q Refer to what has been marked Exhibit 3. Would you dis-



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cuss the information shown on that Exhibit?

A It is a schematic diagram of the complete casing cement and tubing perforations and packer in this particular well which is in place at this time.

Q What type of packer did you use?

A Brown type BP4H.

Q Is that a permanent type packer?

A Yes, sir.

Q For what reason did you use that particular type of packer?

A That packer is very flexible. It affords shutoff of the bottom zone and this is a completion type packer and will probably separate the two producing zones.

Q Will that type of completion enable you to make all the necessary tests or treatment of the two zones involved in this well?

A Yes, sir. This particular type completion is what is considered a standard type completion with two and three-eighths inch tubing which allows all operations the same as would be in one type completion.

Q Will that enable you to pump either zone?

A Yes, sir, either or both.

Q Either or both the zones?

A Yes.

Q Simultaneously, is that correct?



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A Yes, sir.

Q Does the particular completion you have in your opinion give complete separation?

A Yes, sir, on the completions, and as far as we can tell, the producing formations are completely separate.

Q Does the completion adequately protect all producing horizons or water zones encountered in the well bore?

A Yes, sir.

Q Have you run a packer leakage test?

A Yes, sir, a packer leakage test was conducted on this well.

Q Refer to Exhibit No. 5. Will you discuss the information shown on that Exhibit?

A This test was conducted by an independent agent and under the direction of a certified engineer of New Mexico and follows the procedure outlined by the southeast New Mexico packer leakage test requirements and it concludes that there isn't any leak.

Q There is no leakage in this completion?

A In the mechanical set up in the well.

Q Now, referring to Exhibit 4. Would you discuss the information shown on that Exhibit and likewise Exhibit No. 5?

A These are separate.

Q They were marked as separate Exhibits, yes, sir.

A All right. This is a bottom hole pressure record conducted by an independent agency of Midland, Texas, which is



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recorded at a depth of 5370. The bottom hole pressure was 2257 which is the Blinebry zone. The same type of report on the Drinkard zone was made at a depth of 5880. There is a bottom hole pressure of 1993 psig.

Q Has it shown the paraffin satisfactorily for the differential pressure shown by that?

A Yes. This is common practice.

Q Is it adequate to protect the zones where only one zone is being produced at a time?

A Yes, sir, it is.

Q Have you run any potential tests on the well?

A Yes, sir.

Q What was the result of that, Mr. Coleman?

A The Blinebry zone was potentialled and the data on form C-104 was 88 barrels of oil per day.

Q What was the gravity of that oil?

A Thirty-seven point one.

Q And what was the GOR?

A Twenty-one thousand six hundred.

Q Is that an accurate figure in your opinion?

A No, sir. This is taken from a packer leakage test with the well being shut in and then opened which gives an erroneous GOR.

Q Are you familiar with GOR's in the Blinebry zone in this area?



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A Yes, sir.

Q What was the anticipated GOR to be on this zone in this well?

A It could run, oh, from 1000 to 2000 on up.

Q You wouldn't anticipate running as high as shown on the Exhibit?

A Not at this particular time. It might a little later on.

Q Now, would you give us the same information on the Drinkard zone, please.

A The Drinkard was potentialled at 244 barrels per day.

Q What was the gravity of the oil?

A Thirty-five point two.

Q What was the GOR?

A The GOR was 421 taken from the packer leakage test.

Q Mr. Coleman, is the dual completion installation in this well of a type which has heretofore been approved by the Commission?

A Yes.

Q In your opinion, does it adequately protect all the zones involved?

A Yes. It definitely does.

Q Is it in the interests of conservation and greater ultimate recovery of oil to complete it in this manner?

A Well, in this particular manner it is the simplest and



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most practical completion for this type of setup.

Q In your opinion, would it result in a greater ultimate recovery of oil from the two zones?

A Yes.

Q At a lesser cost?

A Yes, sir.

Q Were Exhibits 1 through 6 prepared by you or under your supervision?

A No, sir, I checked them.

Q You checked them?

A Yes.

Q Do they accurately reflect the information shown there-on?

A Yes, sir.

MR. KELLAHIN: I offer Exhibits 1 through 6 inclusive.

EXAMINER UTZ: Without objection, Exhibits 1 through 6 will be entered into the record.

MR. KELLAHIN: That's all the questions I have.

EXAMINATION

BY EXAMINER UTZ:

Q What type of crude is the Blinbry producing?

A Do you mean sweet?

Q Yes.

A It's sweet.

Q How about the record?



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A Sweet.

Q Is it sour?

A It's not too sour. When I say sweet, there are degrees of sweet. The Drinkard crude is not real corrosive.

Q On your five-eighths casing have you determined the top of the cement?

A Yes, sir. It is approximately 150 feet.

Q How about your seven inch?

A Approximately the top of the cement, at 1010 feet.

Q It doesn't get up to the nine and five-eighths, does it?

A No, sir.

EXAMINER UTZ: Are there other questions of the witness?

The witness may be excused.

(Witness excused.)

EXAMINER UTZ: Are there any other statements in this case?

If not, the case will be taken under advisement.



STATE OF NEW MEXICO)
COUNTY OF SAN JUAN) SS

I, THOMAS F. HORNE, Court Reporter, in and for the County of San Juan, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Proceedings before the New Mexico Oil Conservation Commission was reported by me in machine shorthand and reduced to typewritten transcript under my personal supervision, and that the same is a true and correct record to the best of my knowledge, skill and ability.

Thomas F. Horne
Notary Public

My Commission expires:

10-2-65

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2422, heard by me on *Nov. 8*, 19*61*.

John A. [Signature], Examiner
New Mexico Oil Conservation Commission

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**BRINARD
CASING RECORD
&
PERFORATIONS**

13 3/8 - 489 - 8 rd - J&L set at 170 - Texas Pattern Guide Shoe
9 5/8 - 389 - 8 rd - J&L set at 1005 - Baker Collar & Shoe
7 - 23 & 349 8 rd - J&L set at 6050
2" EOK - 8 rd - Lens Star set at 6023'

To Produce Oil

Brinard Perforations - 5934 - 5946', 5973-5990', 6002-6020'

BRINARD PRODUCTION

Notes

August 2, 1961

Put to Producing August 3, 1961

The production for the first 24 hours was 244 barrels of oil of which 100% was oil - no emulsion, water or sediment - Gravity. 37

Blineberry Flow

Drinkard Flow

Undesignated Pool - Low

Blineberry - Drinkard

McEvoy 6000# test

Dual Well Head

13 3/8" @ 169'
Circulated Cement

9 5/8" @ 1005'
Cemented W/250 sx 87
plus 100 sx 47

16 Centralizers spaced from
Total Depth up to, 4000'

Blineberry Perfs

5270-5356'
5416-5424'
5434-5464'
5486-5502'

2 3/8" Tubing @ 5406'
on Blineberry

Drinkard Perfs

5958-5966'
5970-5990'
6002-6020'

Brown Type BP4H Pkr.
set @ 5910'

2 3/8" Tubing @ 6023'
on Drinkard
7" @ 6050' Cemented
W/270 sx 50/50 Diamix plus 47

W. T. HADLER
H. L. HADLER
W. M. CATES
D. R. WATSON, JR.
R. W. HARRINGTON
L. W. BOERM
D. F. JONES
J. N. GABRIELIS
FIELD PETROLEUM ENGINEERS

WEST TEXAS ENGINEERING SERVICE

BOX 2456
MIDLAND 2-5361

2209 W. INDUSTRIAL AVE.
MIDLAND, TEXAS

FULL INSURANCE
COVERAGE

INDIVIDUAL WELL DATA SHEET

Company J. C. Williamson Lease Westates Federal Well No. 5
Field N. Justis Drinkard County Lea State New Mexico
Test Date 8-28-61 Time 10:30 am Status of Well Shut In

Top of Pay Total Depth Producing Formation Drinkard

Tubing " Depth B.H.C. Packer Pressure Datum

Casing " Depth Perf. Liner Packer

Depth Feet	Δ Depth	Pressure Lbs. Sq. In.	Δ Pressure	*Gradient Lbs./Ft.	
Surface		1500			Casing Press.
	3180		150	.047	Tubing Press. 1500
3180		1650			Top of Fluid 5180
	2000		117	.058	Top of Water No
5180		1767			Hrs. - Shut In 64.5
	500		161	.322	Temp. @ 5880 = 105 °F
5680		1928			Elevation
	200		65	.324	Last Test Date No Previous Report
5880 Run Depth		1993			Press. Last Test
					B H F Change
					Gain - Loss/Day
					RPG 891 BR
					Calibration No. 518 @ 105 °F
					Ran By L. W. Boerm
					Calculated By L. W. Boerm
					Prod. Index-BBIs/day/lbs Grop
					Last Cumulative Prod.
					Present Cum. Prod.
					Δ Between Tests
					Recovery Factor Between Tests
					Recovery Factor BBIs/lb Loss

* Pressure and Gradients are calculated in decimals. Pressure and Δ pressure are shown to the nearest pound.

Calculations and Remarks:

Distribution

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 4
CASE NO. 2427

W. T. HAGLER
H. L. HAGLER
W. M. CATES
D. R. WATSON, JR.
R. W. HARRINGTON
L. W. BOERM
D. F. JONES
J. N. CASPARIS
FIELD PETROLEUM ENGINEERS

WEST TEXAS ENGINEERING SERVICE INC.

P. O. BOX 1456
MIDLAND 2-5361

2200 INDUSTRIAL AVE.
MIDLAND, TEXAS

FULL INSURANCE
COVERAGE

INDIVIDUAL WELL DATA SHEET

Company J. C. Williamson Lease Westates Federal Well No. 5
Field Justis Blinebry County Lea State New Mexico
Test Date 8-28-61 Time 11:00 AM Status of Well Shut In
Top of Pay Total Depth Producing Formation Blinebry
Tubing " Depth B.H.C. Packer Pressure Datum
Casing " Depth Perf. Liner Packer

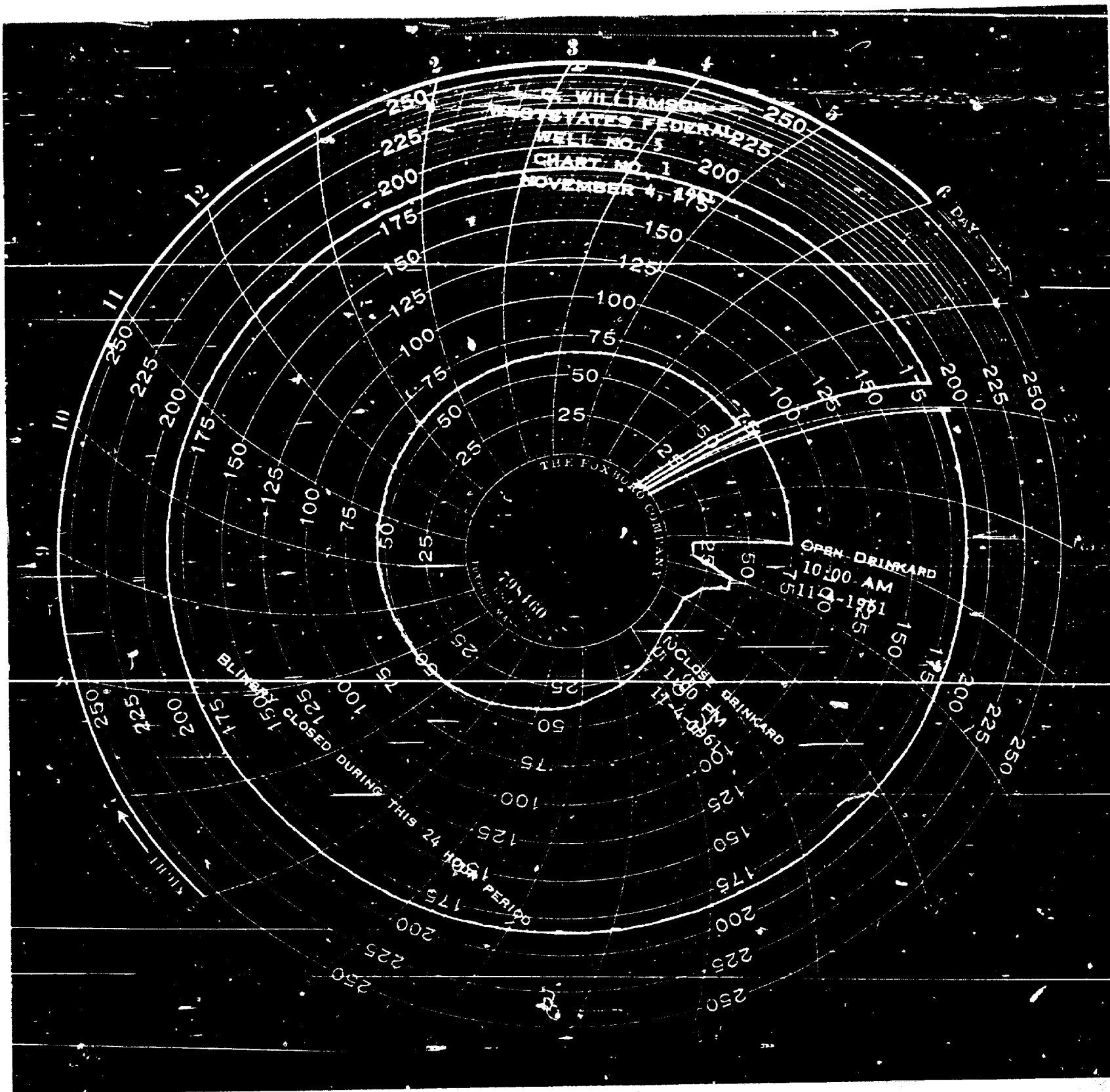
Depth Feet	Δ Depth	Pressure Lbs. Sq. In.	Δ Pressure	*Gradient Lbs./Ft.	Casing Press.	Tubing Press.	Top of Fluid	Top of Water	Shut In	Temp. @	Elevation	Last Test Date	Press. Last Test	B.H.P. Change	Gain - Loss/Day	RPG	Calibration No	Run By	Calculated By	Prod. Index-BBls/day/lbs drop	Last Cumulative Prod.	Present Cum. Prod.	Prod. Between Tests	Recovery Factor Between Tests	Recovery Factor BBls/lb Loss
Surface		1883	251	.068			1883	No																	
3690	3670	2134	71	.071			No	No	65.0																
4670	1000	2205	37	.074					5370																
5170	500	2242	15	.074																					
5370 Run Depth	200	2257																							

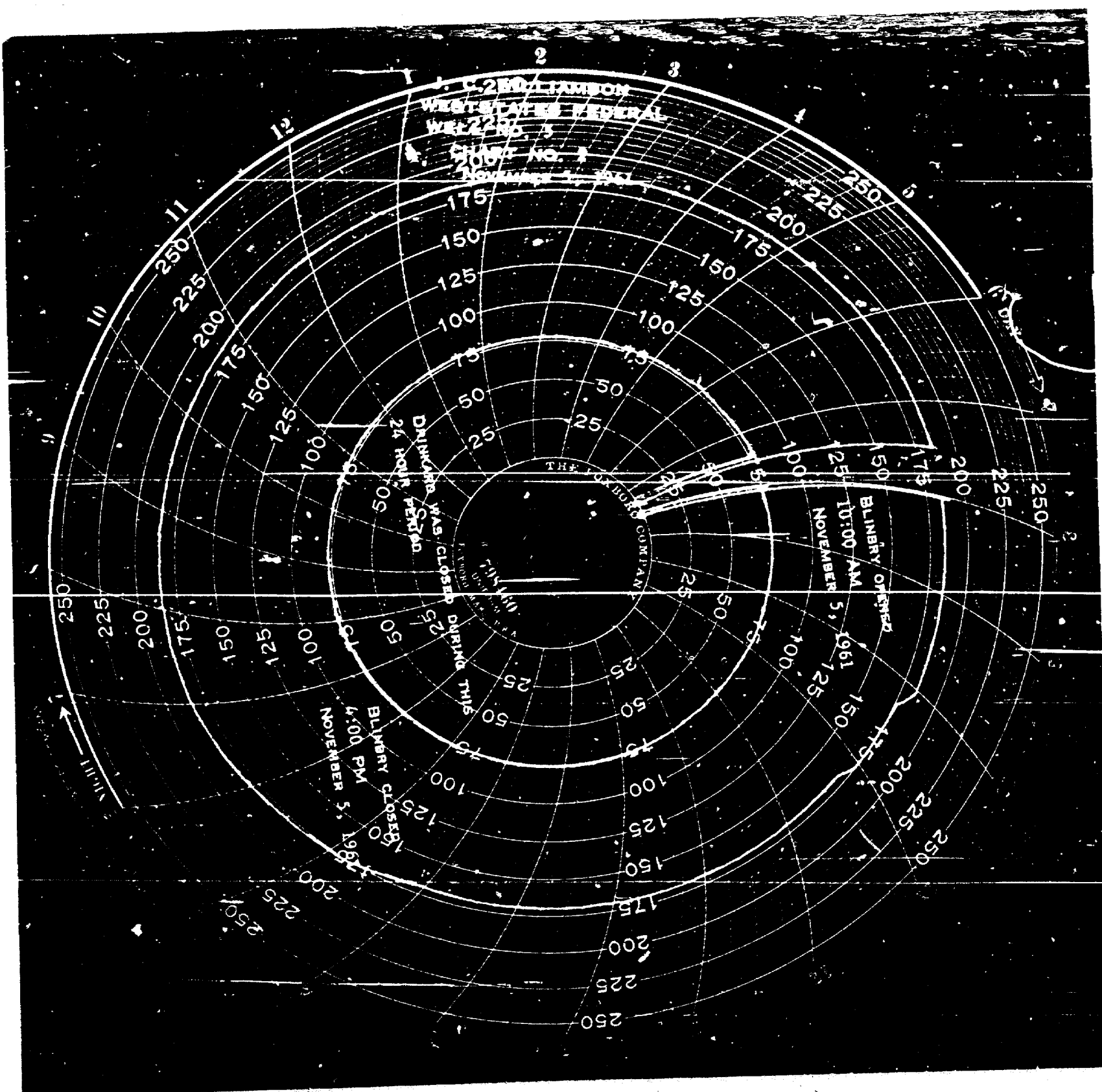
Distribution
8-29-61

4 - C. Box 16
Midland, Texas
1 - Our File

BEFORE EXAMINER UTZ
OIL CONSERVATION COMMISSION
EXHIBIT NO. 5
CASE NO. 2427

*Calculated in decimals. Pressure and Δ pressure are shown to the nearest pound.





NEW MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator J. C. WILLIAMSON			Lease WESTSTATES FEDERAL			Well No. 5	
Location of Well	Unit E	Sec 1	Twp 25 SOUTH	Rge 37 EAST	County LEA		
Name of Reservoir or Pool			Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size	
Upper Compl	NORTH JUSTICE ELENBRY		OIL	FLOW	TUBING	17/64	
Lower Compl	NORTH JUSTICE DRINKER		OIL	FLOW	TUBING	24/64	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): NOVEMBER 3, 1961, 8:00 AM

Well opened at (hour, date): NOVEMBER 4, 1961, 10:00 AM

Indicate by (X) the zone producing.....

	Upper Completion	Lower Completion
Pressure at beginning of test.....	1850	750
Stabilized? (Yes or No).....	YES	YES
Maximum pressure during test.....	1850	750
Minimum pressure during test.....	1850	150
Pressure at conclusion of test.....	1850	150
Pressure change during test (Maximum minus Minimum).....	NONE	600
Was pressure change an increase or a decrease?.....	NONE	DECREASE

Well closed at (hour, date): NOVEMBER 4, 1961, 1:00 PM

Oil Production 27.6 bbls; Grav. 35.2 ; Gas Production 11.6 MCF; GOR 421

During Test: 27.6 bbls; Grav. 35.2 ; During Test 11.6 MCF; GOR 421

Remarks THIS WELL IS EQUIPPED WITH AN INTERMITTER AND NORMALLY WILL ONLY FLOW 3 HOURS BEFORE SHUTTING OFF. THERE WAS NO WATER PRODUCED ON THIS TEST.

FLOW TEST NO. 2

Well opened at (hour, date): NOVEMBER 5, 1961, 10:00 AM

Indicate by (X) the zone producing.....

	Upper Completion	Lower Completion
Pressure at beginning of test.....	1850	700
Stabilized? (Yes or No).....	YES	YES
Maximum pressure during test.....	1850	740
Minimum pressure during test.....	1710	700
Pressure at conclusion of test.....	1710	740
Pressure change during test (Maximum minus Minimum).....	140	40
Was pressure change an increase or a decrease?.....	DECREASE	INCREASE

Well closed at (hour, date): NOVEMBER 5, 1961, 5:00 PM

Oil Production 23.2 bbls; Grav. 37.1 ; Gas Production 501 MCF; GOR 21,600

During Test: 23.2 bbls; Grav. 37.1 ; During Test 501 MCF; GOR 21,600

Remarks NO WATER PRODUCED ON THIS TEST

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved 19
New Mexico Oil Conservation Commission

Operator J. C. WILLIAMSON

By John W. West

Title ENGINEER

Date 11-6-1961

By

Title

SOUTHEAST NEW MEXICO PACER LEAGUE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well and, subsequently, thereafter as provided by the order authorizing separate completion. Each test shall also be commenced on all multiply completions within seven days following completion and/or cessation of fracturing treatment, and when over remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Commission.
2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Commission in writing of the exact time the test is to be commenced. Offset operators shall also be notified.
3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized for a minimum of two hours thereafter, provided however, that they need not remain shut-in more than 24 hours.
4. Once flow test has been made, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. A shut-in test shall be continued until the flowing well-head pressure has become stabilized and for a minimum of two hours thereafter, provided however, that the flow test need not continue for more than 24 hours.

At the following completion of New Test No. 1, the well shall again be shut-in in accordance with Paragraph 9 above.

6. Flow test No. 2 shall be conducted even though no flow was indicated during Flow test No. 1. Benchmark for Flow test No. 2 is to test the next 100 feet from test No. 1 except that the previously fractured zone shall remain the same and the previously identified zone is protected.

7. All pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which shall be checked with a dead-weight tester at least twice, once at the beginning and once at the end of each flow test.

8. The results of the above-described tests shall be filed in triplicate with the following information: (a) a copy of the test results shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission at Southern New Mexico Leasing Leasing Test Form Revised 11-1-58, together with the original pressure recording gauge charts with all the differential pressures which were taken, indicated thereon. In lieu of filing the above charts, the operator may construct a pressure versus time curve for each zone of each test, indicating thereon all pressure changes which may be reflected by the gauge charts as well as all indicated pressure versus time curves. (b) The original pressure curve is submitted to the original test must be permanently filed in the operator's office. Form C-116 shall also accompany the Leasing Leasing Test Form when the test period coincides with a gas-oil ratio test period.