

CASE 2378: Application of ATLANTIC
for a triple completion of its
CARLSON FED. "A" WELL NO. 2.

-ase 1/10.

2378

plication, Transcript,

and Exhibits, Etc.



THE ATLANTIC REFINING COMPANY
INCORPORATED - 1870
PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT
NEW MEXICO DISTRICT

BOONE MACAULAY, DISTRICT MANAGER
R. F. CHAMPION, DISTRICT LANDMAN
W. T. EASTES, DISTRICT GEOPHYSICIST
E. R. DOUGLAS, DISTRICT GEOLOGIST
A. D. KLOXIN, DISTRICT DRILL. & PROD. SUP'T.
W. P. TOMLINSON, DISTRICT ENGINEER
B. R. WARE, ADMINISTRATIVE SUPERVISOR

MAILING ADDRESS
P. O. BOX 1978
ROSWELL, NEW MEXICO

October 11, 1961

New Mexico Oil Conservation Commission
Post Office Box 2045
Hobbs, New Mexico

Re: Carlson Federal "A" No. 2
Justis (Hlinchry) Zone
Justis (Tubb/Drinkard) Zone
Lee County, New Mexico

Gentlemen:

On September 22, 1961, we submitted an application to dually complete the above subject well. This well will be known as the Carlson Federal "A" No. 2 UT (Justis-Hlinchry) and the Carlson Federal "A" No. 2 LT (Justis-Tubb/Drinkard).

We are now submitting copies of the packer leakage test. The diagrammatic sketch, packer-setting affidavit, and logs have already been submitted. The bottom hole pressure tests have not been completed, but will be forwarded to you when received by this office.

Yours very truly,

ORIGINAL
SIGNED BY:

A. D. Kloxin,
District Production &
Drilling Supervisor

HT:pm

Enclosures - 2

cc: New Mexico Oil Conservation Commission (2)
Post Office Box 871
Santa Fe, New Mexico

U. S. G. S. (2)
Post Office Box 1838
Hobbs, New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator The Atlantic Refining Company				Lease Carlson Federal A		Well No. 2	
Location of Well	Unit J	Sec 23	Twp 25S	Rge 37E	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	Windsor		Oil	Flow	Tbg.	2 1/2"	
Lower Compl	Tubb/Driskard		Oil	Flow	Tbg.	1 1/2"	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): **8:00 A.M. (MST) 10-2-61**

Well opened at (hour, date): **8:00 A.M. 10-3-61**

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....	X	
Pressure at beginning of test.....	241	1158
Stabilized? (Yes or No).....	No	No
Maximum pressure during test.....	241	1261
Minimum pressure during test.....	0	1158
Pressure at conclusion of test.....	20	1261
Pressure change during test (Maximum minus Minimum).....	241	103
Was pressure change an increase or a decrease?.....	Decrease	Increase
Well closed at (hour, date): 8:00 A.M. 10-4-61	Total Time On Production 2 1/2 hours	
Oil Production During Test: 5 1/2 bbls; Grav. 36	Gas Production During Test: 18 MCF; GOR 333	
Remarks _____		

FLOW TEST NO. 2

Well opened at (hour, date): **8:00 A.M. 10-5-61**

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		X
Pressure at beginning of test.....	10	1359
Stabilized? (Yes or No).....	No	No
Maximum pressure during test.....	20	1359
Minimum pressure during test.....	10	220
Pressure at conclusion of test.....	20	118
Pressure change during test (Maximum minus Minimum).....	10	1139
Was pressure change an increase or a decrease?.....	Increase	Decrease
Well closed at (hour, date): 8:00 A.M. 10-6-61	Total time on Production 2 1/2 hours	
Oil Production During Test: 2 1/2 bbls; Grav. 36	Gas Production During Test: 70 MCF; GOR 2059	
Remarks _____		

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 **The Atlantic Refining Company**

By **ORIGINAL**
SIGNED BY:
A. D. Klerin

By _____
Title _____

Title **District Production & Drilling Supervisor**
Date **October 11, 1961**

State of New Mexico
Oil Conservation Commission



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

October 9, 1961

Re: Case No. 2378
Order No. R-2075
Applicant:
The Atlantic Refining Company

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

A. L. Porter, Jr.

Carbon copy of order also sent to:

OTHER _____

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. 2378
Order No. R-2075

APPLICATION OF THE ATLANTIC REFINING
COMPANY FOR AN OIL-OIL-OIL TRIPLE
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 September 20, 1961, at Santa Fe, New Mexico, before Daniel S. Nutter, 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 9th day of October, 1961, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, 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, The Atlantic Refining Company, is the owner and operator of the Carlson Federal "A" Well No. 2, located 1980 feet from the South line and 1650 feet from the East line of Section 23, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico.

(3) That the applicant has requested authorization to complete said Carlson Federal "A" Well No. 2 as a triple completion (conventional) in such a manner as to permit the production of oil from the Paddock formation adjacent to the Justis-Paddock Pool, the production of oil from the Justis-Blinbry Pool, and the production of oil from the Justis Tubb-Drinkard Pool, through parallel strings of 2 3/8-inch tubing.

(4) That the applicant seeks dismissal of its request for authorization of the said triple completion inasmuch as the Paddock formation adjacent to the Justis-Paddock Pool has proven unproductive and seeks authorization to complete said Carlson Federal "A" Well No. 2 as a dual completion (conventional) in such a manner as to permit the production of oil from the Justis-Blinbry Pool and the production of oil from the Justis Tubb-Drinkard Pool, through parallel strings of 2 3/8-inch tubing.

-2-

CASE No. 2378
Order No. R-2075

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

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

IT IS THEREFORE ORDERED:

(1) That the request of the applicant, The Atlantic Refining Company, for authorization to complete its Carlson Federal "A" Well No. 2, located 1960 feet from the South line and 1650 feet from the East line of Section 23, Township 25 South, Range 37 East, NMPM, Lea County, New Mexico, as a triple completion is hereby dismissed.

(2) That the applicant is hereby authorized to complete its Carlson Federal "A" Well No. 2 as a dual completion (conventional) in such a manner as to permit the production of oil from the Justis-Blinbry Pool and the production of oil from the Justis Tubb-Drinkard Pool through parallel strings of 2 3/8-inch tubing, separation of the zones to be accomplished with a Baker 415-D permanent packer.

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 Justis Tubb-Drinkard Pool, and at such other times as the Secretary-Director of the Commission may prescribe.

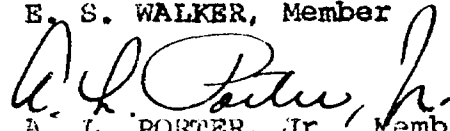
(3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

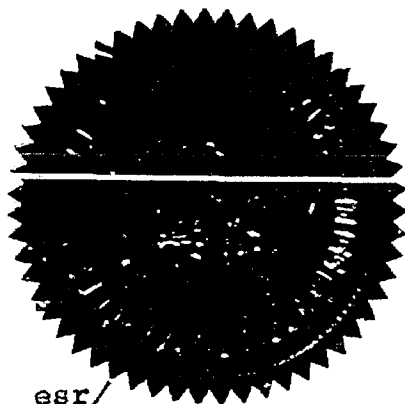
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


EDWIN L. MECHEM, Chairman


E. S. WALKER, Member


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



esr/

DOCKET: EXAMINER HEARING - WEDNESDAY - SEPTEMBER 20, 1961

9:00 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM
STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

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

- CASE 2376: Application of the Oil Conservation Commission on its own motion to abolish certain portions of the San Simon and Wilson Pools in Lea County, New Mexico; to create a new pool for oil production in Township 21 South, Range 35 East, to be designated the North San Simon-Yates Pool; and to establish a limiting gas-oil ratio for said North San Simon-Yates Pool.
- CASE 2377: Application of N. R. Williamson for a waterflood project in the Seven Lakes Pool, McKinley County, New Mexico. Applicant, in the above-styled cause, seeks permission to institute a waterflood project in the Seven Lakes Pool in Sections 18 and 19, Township 18 North, Range 10 West, McKinley County, New Mexico. Applicant further seeks the establishment of procedures for obtaining administrative approval of extensions to the proposed waterflood project.
- CASE 2378: Application of The Atlantic Refining Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Carlson Federal "A" Well No. 2, located in Unit J, Section 23, Township 25 South Range 37 East, Lea County, New Mexico, as a triple completion (conventional) in the Paddock, Blinebry and Tubb-Drinkard Pools, the production of oil from each pool to be through parallel strings of 2-inch tubing.
- CASE 2379: Application of The Atlantic Refining Company for a triple completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to complete its Langlie Federal Well No. 2, located in the NW/4 SE/4 of Section 14, Township 25 South, Range 37 East, Lea County, New Mexico, as an oil-oil triple completion in an undesignated Paddock Pool and in the Justis-Blinebry and Justis Tubb-Drinkard Pools.

- CASE 2380: Application of Consolidated Oil & Gas, Inc. for a non-standard gas proration unit, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 320-acre non-standard gas proration unit in the Blanco Mesaverde and Basin Dakota Gas Pools comprising the NE/4 of Section 9, and the NW/4 of Section 10, all in Township 31 North, Range 13 West, San Juan County, New Mexico. Said unit is to be dedicated to applicant's Segal Well No. 1-9, located in the NE/4 NE/4 of said Section 9.
- CASE 2381: Application of Southwest Production Company for an order pooling all mineral interests in the Basin-Dakota Gas Pool in the E/2 of Section 22, Township 30 North, Range 12 West, San Juan County, New Mexico.
- CASE 2382: Application of Morris R. Antweil for a non-standard gas proration unit, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of a 230.95-acre non-standard gas proration unit in the Eumont Gas Pool, consisting of Lot 4 in Section 1, and Lots 1, 2, 3, 7 and 8 in Section 2, all in Township 21 South, Range 35 East, Lea County, New Mexico. Said unit is to be dedicated to applicant's L. W. White Well No. 1, located in the NE/4 NE/4 of said Section 2.
- CASE 2383: Application of C. H. Sweet Oil Company for an exception to Rule 309-A, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 309-A to permit the oil produced from applicant's McKinley "B" lease, located in the SE/4 NE/4 of Section 20, Township 18 South, Range 38 East, Lea County, New Mexico, to be transported, prior to measurement on said McKinley "B" lease, to applicant's Grimes lease located in the NE/4 SE/4 of said Section 20.
- CASE 2384: Application of General American Oil Company of Texas, for an exception to Rule 309-A, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an exception to Rule 309-A to permit the Loco Hills oil production from applicant's State Lease B-1778, located in Section 36, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico, to be transported, prior to measurement on said State Lease B-1778, to applicant's Federal Lease LC 060520, located in Section 31, Township 17 South, Range 30 East.

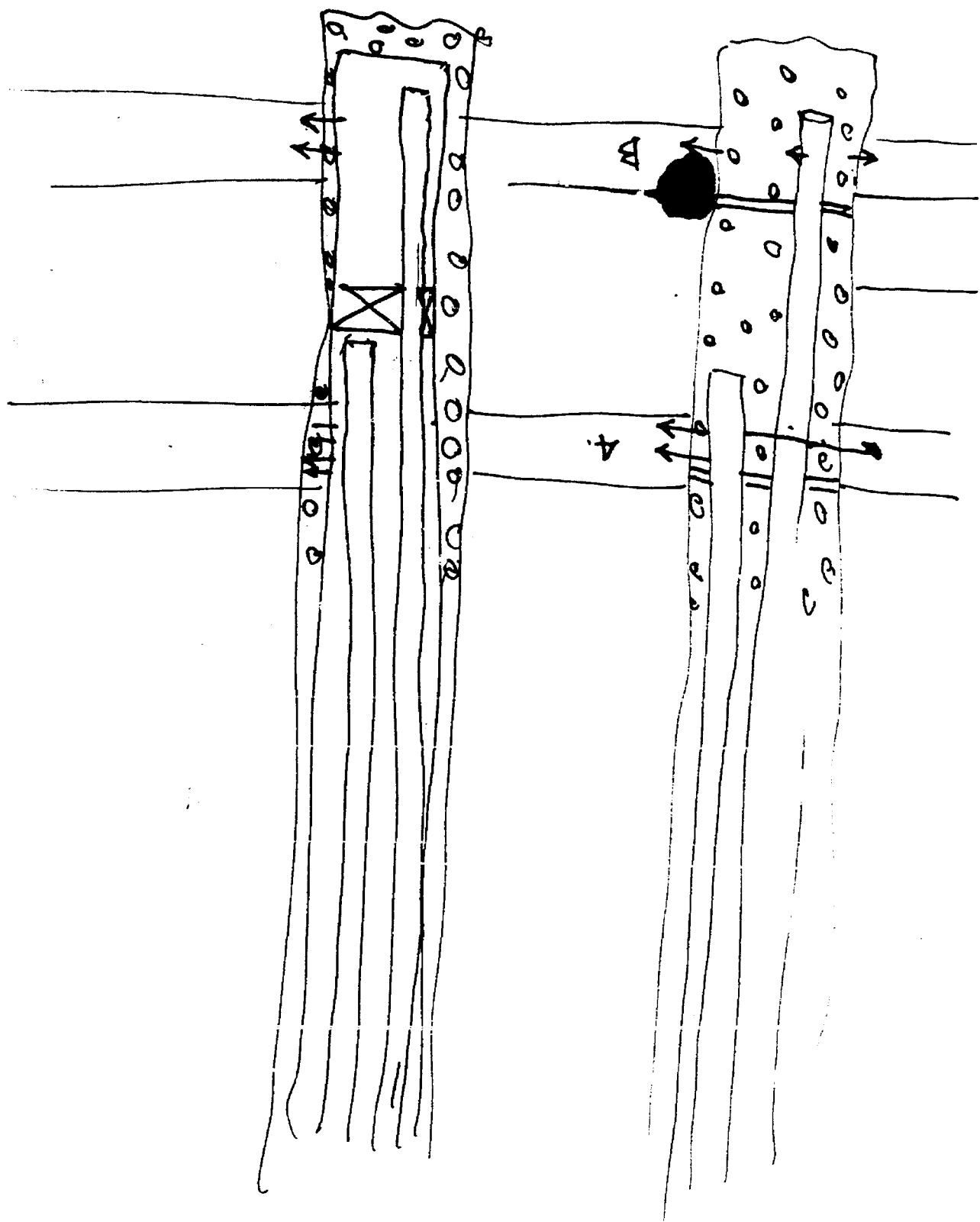
CASE 2385: Application of Texaco Inc. for a unit agreement and for a waterflood project, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval of the West Lovington Unit Agreement, covering 2,472 acres, more or less, in Townships 16 and 17 South, Range 36 East, Lea County, New Mexico. Applicant further seeks authority to institute a pool-wide waterflood in the West Lovington Pool by the injection of water into the San Andres formation through 18 wells in Sections 3, 4, 5, 6, 7, 8, and 9, Township 17 South, Range 36 East.

CASE 2386: Application of Continental Oil Company for the establishment of two non-standard oil proration units in the Empire-Abo Pool, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the establishment of two non-standard oil proration units in the Empire-Abo Pool described as follows:

(1) Lot 2 and the Southernmost 12.06 acres in Lot 1, Section 30, Township 17 South, Range 29 East, Eddy County, New Mexico, comprising 40 acres. Applicant proposes to dedicate said unit to its State S-30 Well No. 1, 2310 feet from the North line and 330 feet from the West line of said Section 30.

(2) Lot 3 and the Northernmost 11.83 acres of Lot 4, all in said Section 30, comprising 40 acres. Applicant proposes to dedicate said unit to its State S-30 Well No. 3, to be drilled at a standard location in said unit.

CASE 2387: Application of Continental Oil Company for permission to dispose of salt water, Lea County, New Mexico. Applicant, in the above-styled cause, seeks permission to dispose of produced salt water from the Anderson Ranch Wolfcamp Pool into the Wolfcamp formation through its Anderson Ranch Unit Well No. 8, located 1980 feet from the South line and 660 feet from the East line of Section 11, Township 16 South, Range 32 East, Lea County, New Mexico.



OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date

9/21

CASE

2378

Hearing Date

9am 9/20
DSW & SF

My recommendations for an order in the above numbered cases are as follows:

Enter an order authorizing Atlantic
to ~~complete~~^{drill} complete its Carlson Fed
"A" No 2 1980' FSL + 1650' FEL
Sec 23, T-25-S, R-37-E to produce oil
from the Justis Blinsky and Justis Tb-Da
Pools through 11 strings of 2 $\frac{3}{8}$ inch
tubing.

Dismiss the request for authority for
a triple in the Paddock, PL, + Tb-Da
formations inasmuch as the Paddock
has proven non-productive.

PKr leakage test upon compl
& annul thereafter during Tb-Da
GOR test period

[Signature]

ATLANTIC

THE ATLANTIC REFINING COMPANY
INCORPORATED - 1970
PETROLEUM PRODUCTS

DOMESTIC PRODUCING DEPARTMENT
NEW MEXICO DISTRICT

BOONE MACAULAY, DISTRICT MANAGER
R. F. CHAMPION, DISTRICT LANDMAN
W. T. EASTES, DISTRICT GEOPHYSICIST
E. R. DOUGLAS, DISTRICT GEOLOGIST
A. D. KLOXIN, DISTRICT DRG. & PROD. SUP'T.
W. P. TOMLINSON, DISTRICT ENGINEER
B. R. WARE, ADMINISTRATIVE SUPERVISOR

MAILING ADDRESS
P. O. BOX 1978
ROSWELL, NEW MEXICO

September 22, 1961

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

Re: Case No. 2378 Atlantic's
Application for Permission
to Triple Complete Its
Carlson Federal "A" No. 2
in an Undesignated Paddock,
Justis Blinebry, and Justis
Tubb/Drinkard Reservoirs

Dear Mr. Porter:

The Atlantic Refining Company respectfully requests that you dismiss its application for triple completion of the Carlson Federal "A" No. 2 and approve a dual completion between the Justis Blinebry and Justis Tubb/Drinkard formations. Testimony for our triple completion application was submitted at the NMOCC Examiner Hearing on September 20. We are hopeful that you can do this without the necessity for an application for administrative approval or for another hearing since completion in the Blinebry and Tubb/Drinkard formations is of lesser scope than our original application.

A schematic diagram of our completion and in-hole equipment is attached. The only change in our completion is that Paddock perforations are not shown. Our equipment has been changed to include only two strings of 2-3/8" buttress tubing for the Blinebry and Tubb/Drinkard zones. We plan to go ahead and install

Mr. A. L. Porter, Jr.
Page 2
September 22, 1961

a Baker 415-D permanent packer to separate the Blinbry and Tubb/Drinkard formations. The tubing string for the Paddock and the production packer that had been planned for installation between the Paddock and the Blinbry will be omitted.

Omission of the Paddock from our completion plans is necessitated because a test subsequent to the hearing indicated that it would produce about 90% water. In view of this well being somewhat higher structurally than the Westates Carlson Federal No. 7, which is also a Paddock producer, this water production was a surprise. However, we have every reason to believe that we obtained a representative test of the Paddock at this location.

Please let us know if you have any questions on this matter.

Yours very truly,

THE ATLANTIC REFINING COMPANY

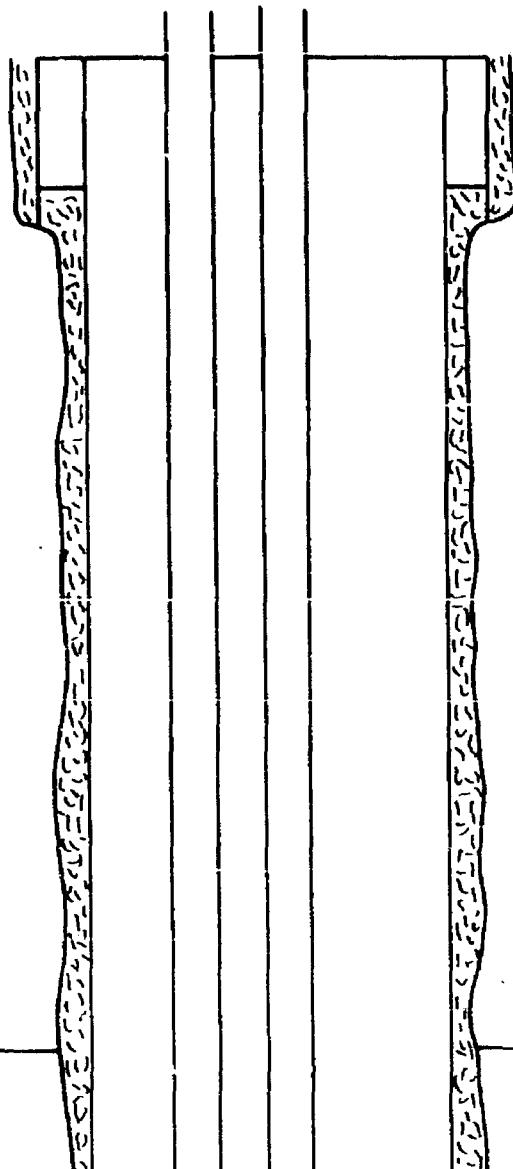
A. D. Kloxin
A. D. Kloxin

WPT:pam

Enclosure

cc: Mr. Dan Nutter, Chief Engineer
New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

Mr. H. C. Bratton
Hervey, Dow & Hinkle
Post Office Box 10
Roswell, New Mexico



Blinebry Zone

Drilled 13-3/4" hole to 940'

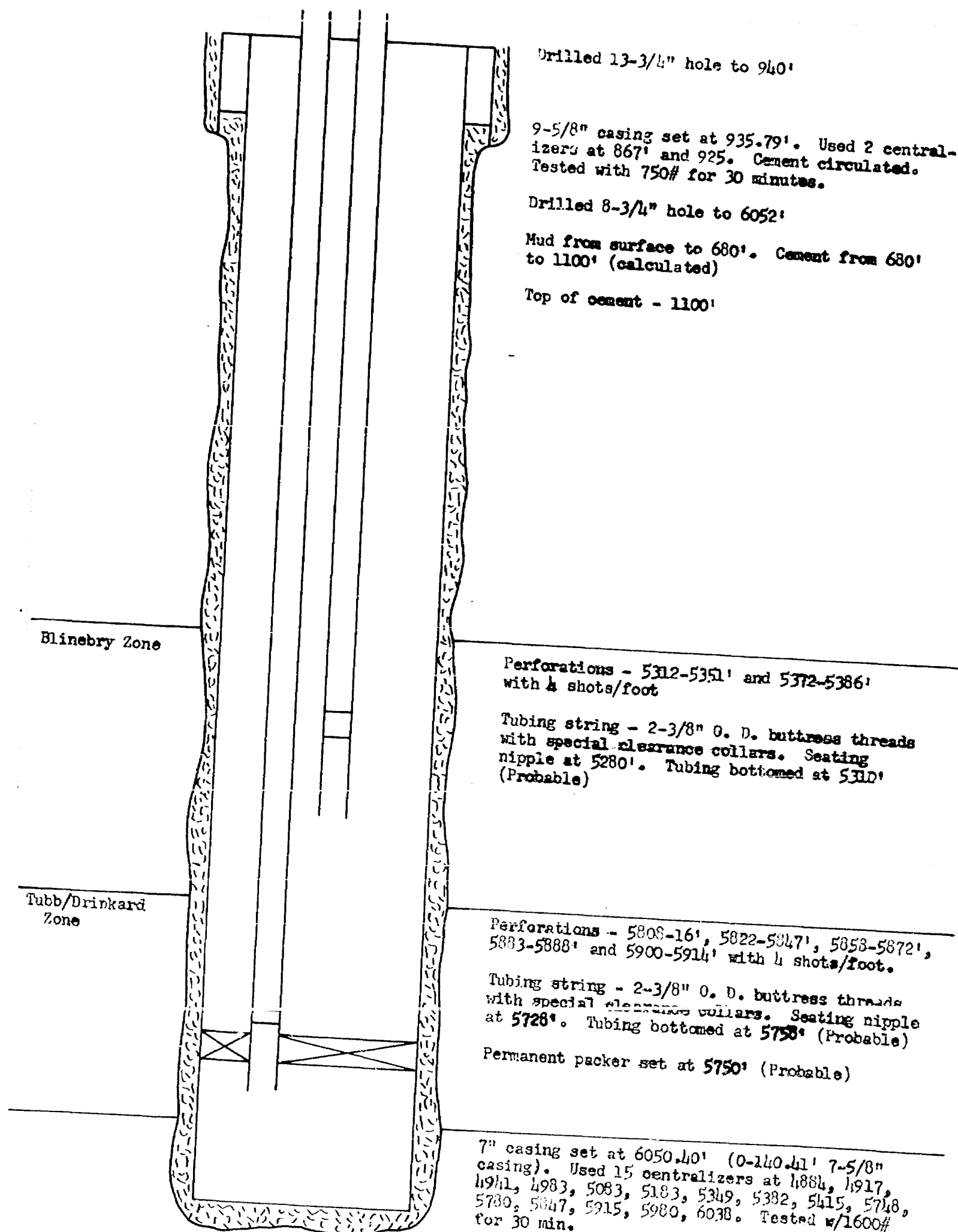
9-5/8" casing set at 935.79'. Used 2 centralizers at 867' and 925'. Cement circulated. Tested with 750# for 30 minutes.

Drilled 8-3/4" hole to 6052'

Mud from surface to 680'. Cement from 680' to 1100' (calculated)

Top of cement - 1100'

Perforations - 5312-5351' and 5372-5386' with 4 shots/foot



T. D. 6052' PBD 6011'
 THE ATLANTIC REFINING COMPANY
 Carlson Federal "A" No. 2 Well
 Justis (Blindbry) and Justis (Tubb/Drinkard)
 September 20, 1961
 Case No. 2378
 Exhibit No.

J. H. HERVEY 1924 1953
HIRAM M. DOW
CLARENCE E. HINKLE
W. E. BONDURANT, JR.
GEORGE H. HUNKER, JR.
HOWARD C. BRATTON
S. B. CHRISTY, IV.
LEWIS C. COX, JR.
PAUL W. EATON, JR.
CONRAD E. COFFIELD
HAROLD L. HENSLEY, JR.

LAW OFFICES
HERVEY, DOW & HINKLE
HINKLE BUILDING
ROSWELL, NEW MEXICO

TELEPHONE MAIN 2-6510
POST OFFICE BOX 10

August 29, 1961

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Mr. Porter:

The Atlantic Refining Company hereby makes application for a public hearing to grant permission to Atlantic to make a triple completion.

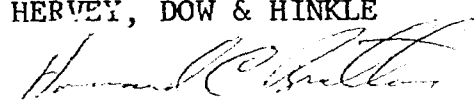
Atlantic desires to complete its Carlson Federal A #2 well which located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 23, Township 25 South, Range 37 East, N.M.P.M., Lea County. The production will be from the Justis-Paddock, Justis-Blaine, and Justis-Tubb-Drinkard Pools.

There is attached to this application as Exhibit No. "1" the Commission's form "Application for Dual Completion". There is attached hereto as Exhibit No. "2" a Plat showing the location of all wells on Atlantic's Carlson lease and on all offset wells.

It is requested that this Application be set down for the first available Examiner hearing.

Very truly yours,

HERVEY, DOW & HINKLE


Howard C. Bratton

HCB:lm

*Sub
HCB
9/8/61
2/10*

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

5-1-61

APPLICATION FOR MULTIPLE COMPLETION

Operator The Atlantic Refining Company		County Lea	Date August 28, 1961
Address P. O. Box 1978, Roswell, New Mexico		Lease Carlson Federal "A"	Well No. 2
Location Unit 3	Section 23	Township 25N	Range 37E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple 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. **B-2006**; Operator, Lease, and Well No.:

The Atlantic Refining Company Carlson Federal "A" No. 1

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Paddock	Blinsbury	Tebb/Drinkard
b. Top and Bottom of Pay Section (Perforations)	4973-5015 (Probable)	5310-5508 (Probable)	5808-5914 (Probable)
c. Type of production (Oil or Gas)	Oil	Oil	Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing

4. The following are attached. (Please mark YES or NO)

- Yes** a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and jet turbolizers and location thereof, quantities used and 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.
- No** c. Waivers, consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.
- No** 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.

Skelly Oil Company, P. O. Box 38, Hobbs, New Mexico

Texas Pacific Coal & Oil Co, Box 1688, Hobbs, New Mexico

Amradia Petroleum Corporation, Drawer D, Monument, New Mexico

Western Natural Gas Co, Box 1960, Jal, New Mexico

Union Texas Natural Gas Corp, A-P Division, Box 196, Midland, Texas

El Paso Natural Gas Company, Box 1384, Jal, New Mexico

6. Were all operators listed in item 5 above notified and furnished a copy of this application? YES ☐ NO ☒ If answer is yes, give date of such notification.

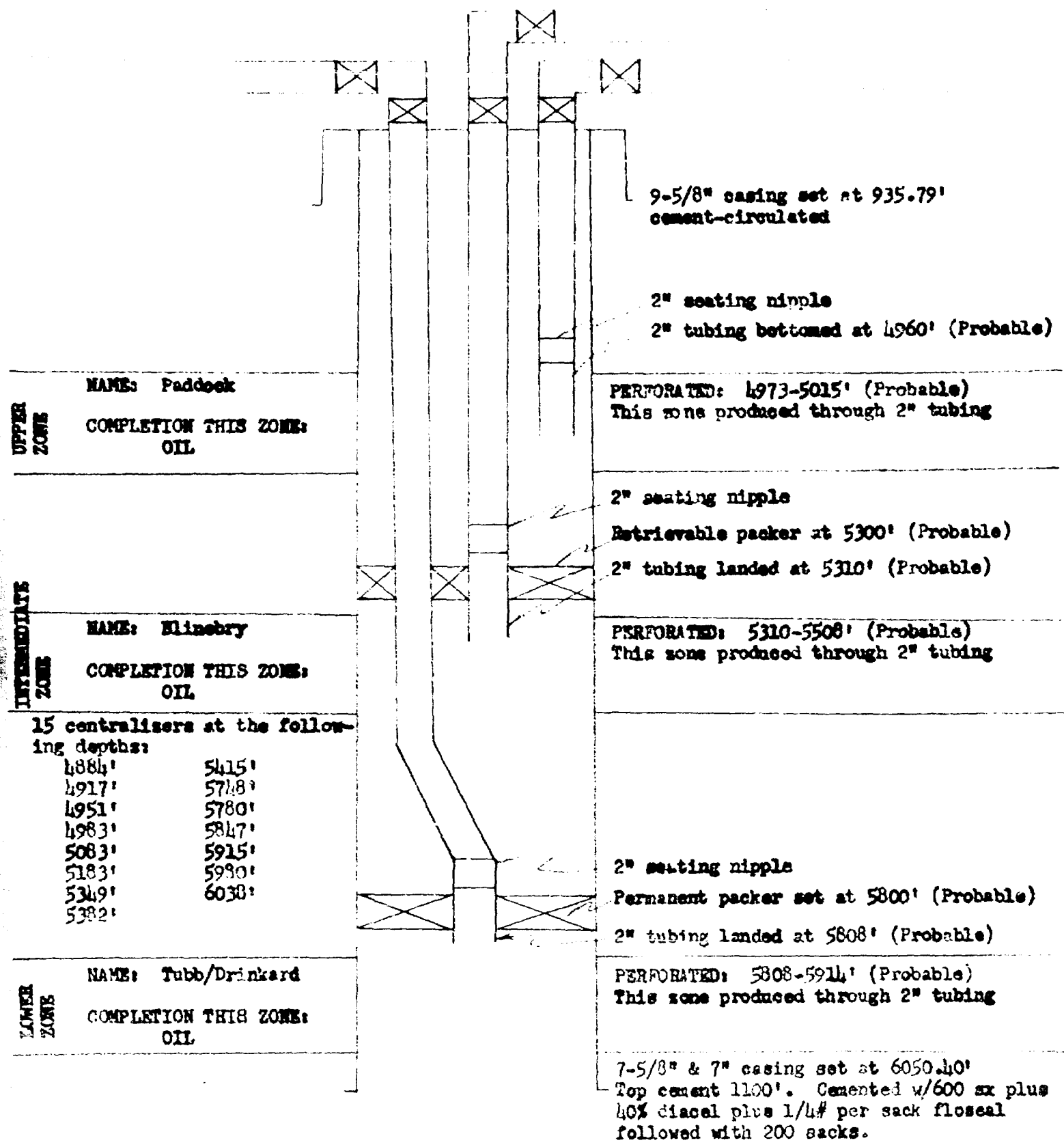
CERTIFICATE: I, the undersigned, state that I am the **Drilling Superintendent** of the **Atlantic Refining Company** (or company), and that I am duly authorized to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true and correct to the best of my knowledge.

A. D. Klein

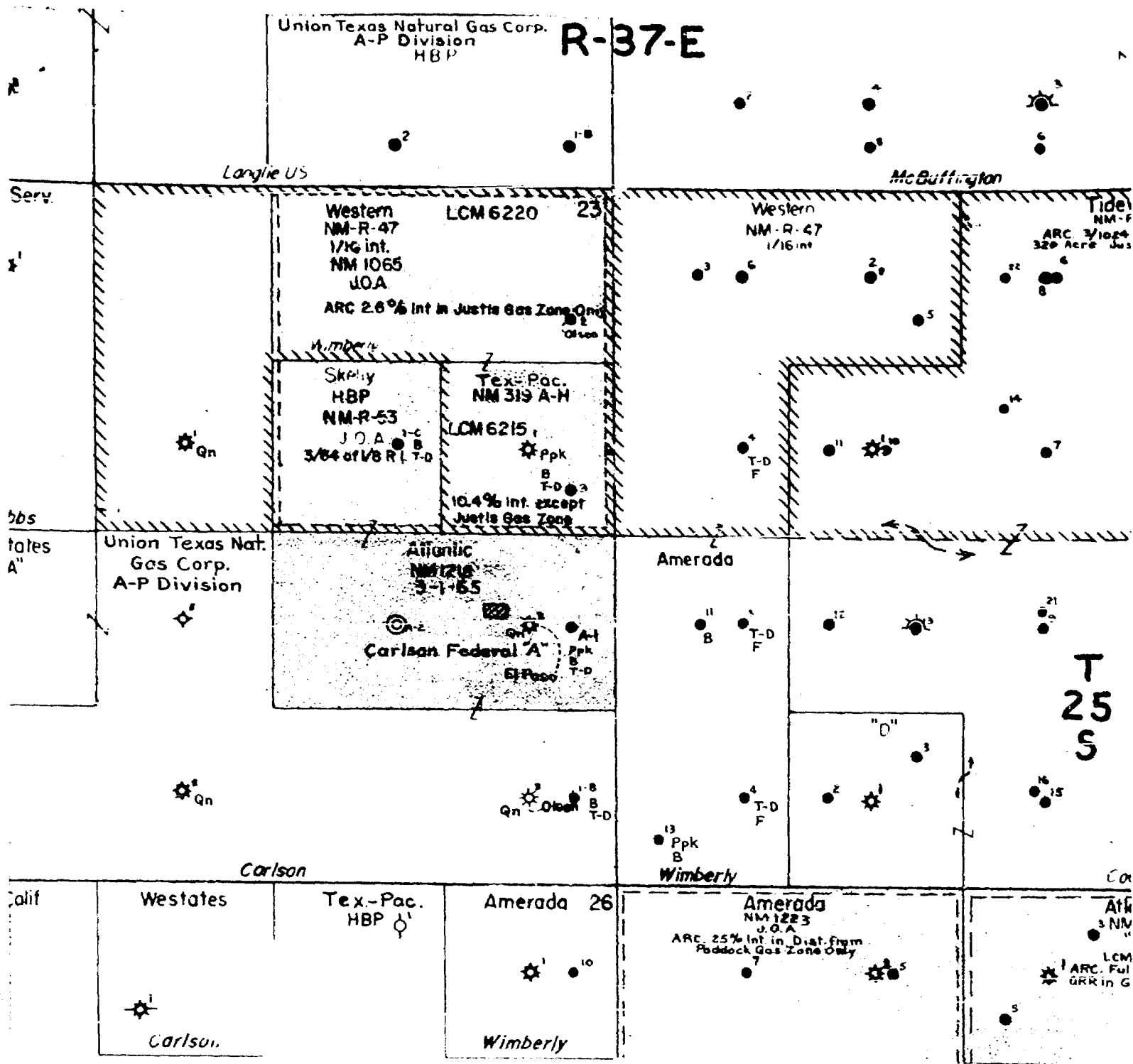
Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest or request for hearing is received by the Santa Fe office, the application will then be processed.

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

Case 378



COMPANY: THE ATLANTIC REFINING COMPANY
 LEASE : Carlson Federal "A" No. 2
 FIELD : Justis (Paddock Undesignated), Justis (Blaineby) and Justis (Tubb/Drinkard)
 DATE : August 28, 1961



THE ATLANTIC REFINING COMPANY
WEST TEXAS-NEW MEXICO REGION

AREA OF ATLANTIC CARLSAN FEDERAL "A" LEASE
JUSTIS POOL

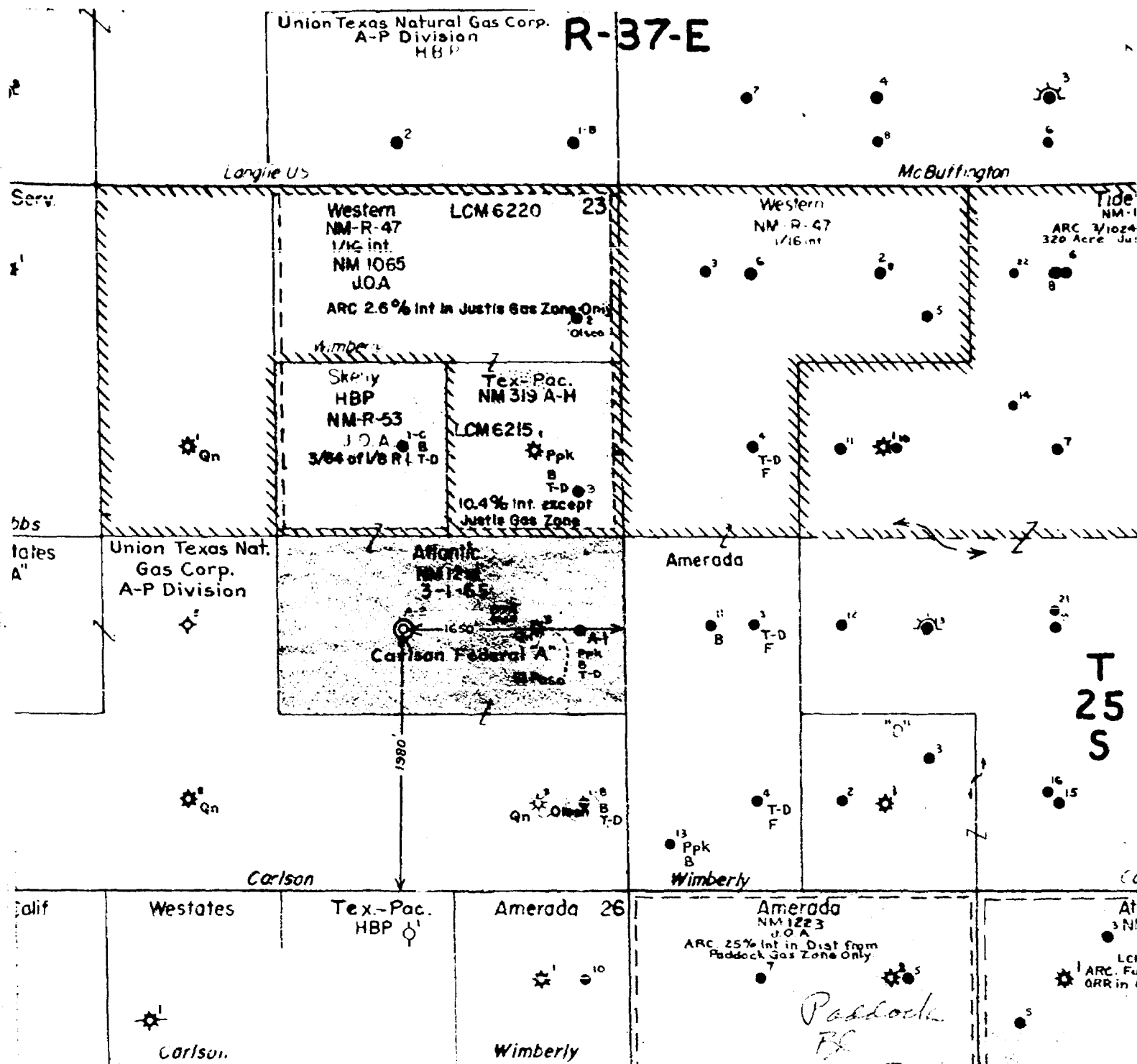
SCALE: 1"=1000'

LEGEND:

Qn - Queen
Ppk - Paddock
B - Blinbry

T-D - Tubb/Drinkard
F - Fusselman
[Symbol] - Tank Battery

Case 2378



THE ATLANTIC REFINING COMPANY
WESTERN REGION-NEW MEXICO DIST.

AREA OF ATLANTIC CARLSON FEDERAL "A" LEASE
JUSTIS POOL

SCALE: 1"=1000'

LEGEND:

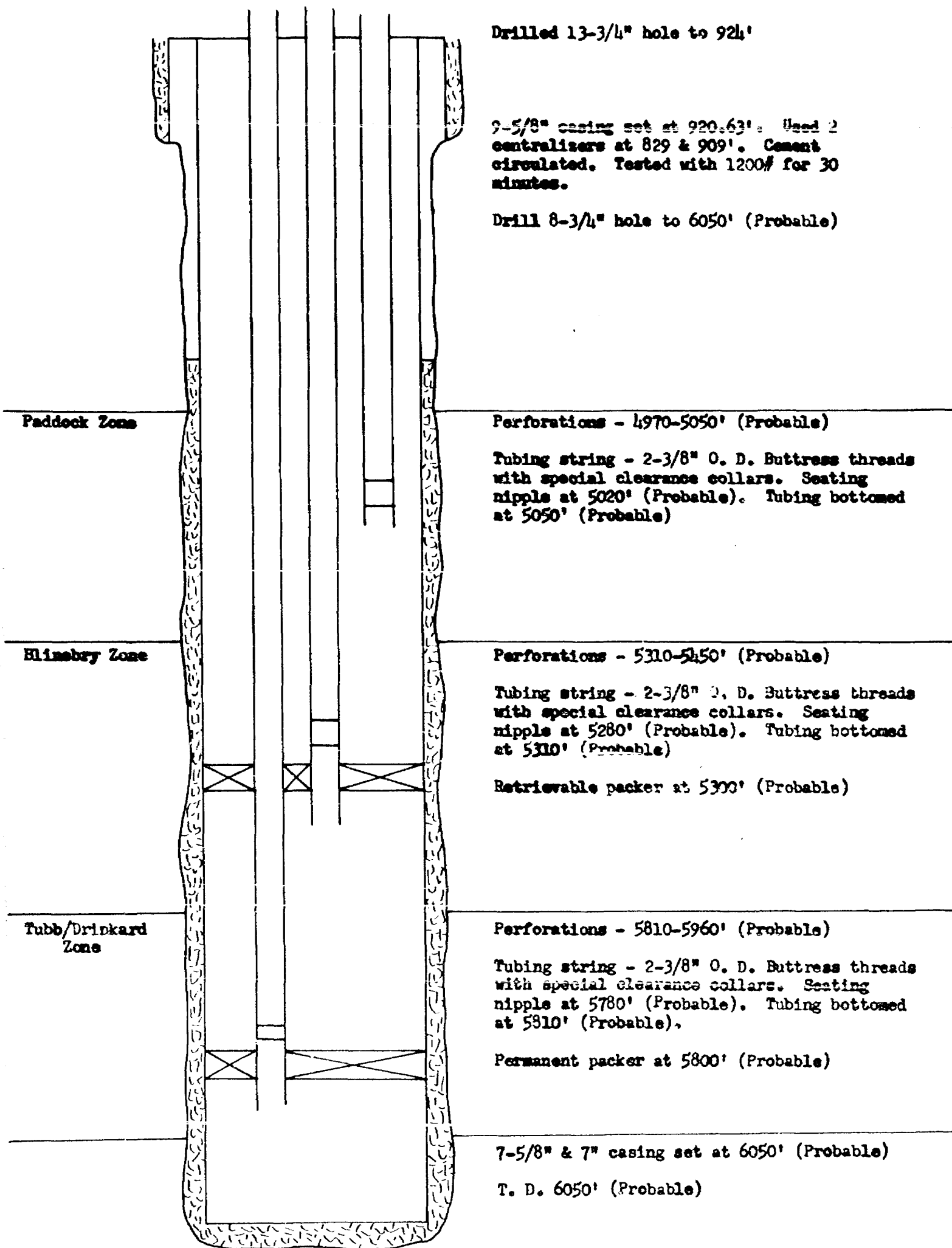
Qn - Queen
Ppk - Paddock
B - Blinbry

T-D - Tubb/Drinkard
F - Fusselman
[Symbol] - Tank Battery

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

App. EXHIBIT NO. 1
CASE/NO. 2378



THE ATLANTIC REFINING COMPANY

Langlis Federal No. 2 Well

Justis (Paddock Undesignated), Justis (Blinberry) &

Justis (Tubb/Drinkard)

September 20, 1961

Case No. 2379

Exhibit No.

BEFORE EXAMINER NUTTER

OIL CONSERVATION COMMISSION

EXHIBIT NO. 3

CASE NO. 2379

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
September 20, 1961

EXAMINER HEARING

CASE 2378
and
CASE 2379

TRANSCRIPT OF HEARING

DEARNLEY-MEIER REPORTING SERVICE, Inc.

PHONE CH 3-6691

ALBUQUERQUE, NEW MEXICO

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
September 20, 1961

EXAMINER HEARING

IN THE MATTER OF:

Application of The Atlantic Refining Company for a
triple completion, Lea County, New Mexico. Applicant,
in the above-styled cause, seeks permission to com-) Case
plete its Carlson Federal "A" Well No. 2, located in) 2378
Unit J, Section 23, Township 25 South, Range 37 East,
Lea County, New Mexico, as a triple completion (con-)
ventional) in the Paddock, Blinebry and Tubb-Drinkard)
Pools, the production of oil from each pool to be)
through parallel strings of 2-inch tubing.)

Application of The Atlantic Refining Company for a
triple completion, Lea County, New Mexico. Applicant,
in the above-styled cause, seeks permission to com-) Case
plete its Langlie Federal Well No. 2, located in the) 2379
NW/4 SE/4 of Section 14, Township 25 South, Range 37)
East, Lea County, New Mexico, as an oil-oil-oil triple)
completion in an undesignated Paddock Pool and in the)
Justis-Blinebry and Justis Tubb-Drinkard Pools.)

BEFORE:

Daniel S. Nutter, Examiner

TRANSCRIPT OF HEARING

MR. NUTTER: Case 2378.

MR. MORRIS: Application of The Atlantic Refining Company
for a triple completion

MR. BRATTON: Howard Bratton on behalf of the applicant,
Atlantic Refining Company. We also have Case 2379, which is approxi-
mately identical, triple completion application, and I believe we



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could expedite matters if the two cases be consolidated.

MR. NUTTER: We will also call Case 2379, the application of Atlantic Refining Company for a triple completion.

MR. BRATTON: Howard Bratton, on behalf of the applicant. We have one witness in both cases, Mr. Ray Allen, and I ask that he be sworn.

MR. NUTTER: And you wish to consolidate these cases for testimony, Mr. Bratton?

MR. BRATTON: That's right.

MR. NUTTER: They will be consolidated.

(Witness sworn.)

RAY ALLEN

called as a witness, having been first duly sworn, testified as follows:

DIRECT EXAMINATION

BY MR. BRATTON:

Q Will you state your name, by whom you are employed, and in what capacity?

A I am Ray Allen, employed by Atlantic Refining in Roswell in the capacity of a petroleum engineer.

Q Are you familiar with the two proposed triple completions which are the subjects of these hearings?

A Yes, sir.

Q Have you previously testified before this Commission as an expert witness?



A No, I have not.

Q Will you state briefly your educational and professional background?

A I received a B.S. in Petroleum Engineering, Texas A&M, in 1956. During that same month I was employed by Atlantic Refining Company, and after completing a training program of approximately 18 months I was transferred to the Roswell Office where I have been working as a petroleum engineer.

Q Have you been familiar with the pools in question, and the particular wells in question in these hearings?

A Yes, sir, I have.

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

MR. NUTTER: Yes, sir, please proceed.

Q Mr. Allen, refer to your Exhibit No. 1 in Case 2378, and explain what that is, and what it shows.

A Exhibit No. 1 is a plat of the area of your Carlson Federal "A" lease; shows the location of the subject wells, 1980 feet from the south line, 1650 feet from the east line of Section 23, Township 25 South, Range 37 East. The plat also shows the offset leases and the operators of the offset leases. It further shows the offset wells and zones in which the offset wells are completed.

Q This is the application in 2378?

A That's right.

Q What are the formations involved in this application?

A The formations involved in this application are the Pad-



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dock, Blinebry and the Tubbs-Drinkard.

Q Have you notified all of the offset operators of this application?

A The offset operators should have been notified by the advertising on the docket.

Q Have you received any objection to the application?

A No, sir, we have not received any objections.

Q Referring to your Exhibit No. 2, will you state what that is and what it shows?

A Exhibit No. 2 is a simultaneous laterolog-gamma ray-neutron, run in open hole, Carlson No. "A" 2 well. This exhibit shows the location of the top of the Glorieta formation at 4,688 feet, subsurface, 1,601 feet subsea. It further shows the Paddock perforations which exist today at 4,973 to 5,015 feet. Below that it shows the Blinebry top at 5,066 feet subsurface, and the Blinebry perforations at 5,312 to 5,315 and 5,372 to 5,386; the top of the Tubb formation is at 5,754 feet subsurface with perforations in the Tubb formation at 5,808, 5,816, 5,822 to 5,847, 5,858, 5,872, 5,883, 5,888, 5,900 to 5,914. It also shows the Drinkard top at 5,941 feet subsurface.

Q Anything else that you want to point out in connection with that log?

A I don't think there is anything that needs pointing out.

Q Going to your Exhibit No. 3, which is your proposed completion program, will you explain in detail that exhibit?



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A This exhibit is a diagram of the in-hole installation of the well, and in drilling this well we drilled a 13-3/4-inch hole to 940 feet, set 9-5/8 casing at 935.79 feet, using two centralizers located at 867 feet and 925 feet. Our cement was circulated and after the cement was circulated, tested the 9-5/8 casing at 750 pounds pressure for 30 minutes without loss of pressure. We drilled out of that 9-5/8 casing with an 8-3/4-inch hole to a total depth of 6,052 feet, ran simultaneous laterolog-gamma ray-neutron and microlog, total depth set at 6,054 feet with the top four joints of that string being 7-5/8-inch casing, or approximately 140 feet on the top of the string of 7-5/8-inch casing.

This casing string was cemented, using 600 sacks of cement. After the cement was set tubing, or casing, rather, was pressure tested with 1,600 pounds for 30 minutes without a loss in pressure. The temperature survey run in the well indicated that the top of the cement was at 1,100 feet. Now, after temperature surveys were conducted we went into this well and perforated and stimulated and tested the Tubb-Drinkard formation, and the perforations I gave you earlier. After the lode oil was recovered, and a sufficient amount of new oil, a retrievable bridge plug was set over that formation and we perforated and stimulated the Blinbry formation. After it was tested thoroughly the bridge plug was set over that, and we perforated and stimulated the Paddock zone. That is just about where we are right now in our completion. We are running, in the process of running the completion assembly. Our completion



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probably will result in a substantial increase in production. The packer set at approximately 1,300 feet. We plan to use three parallel strings of two-inch buttress thread tubing in this well. The packer that isolates, or separates, the Blinbry zone from the Tubb-Drinkard zone is run in the hole on the first 2-inch string, and that packer is a TIW Type H.D.F.L. packer. After this long string is run in the hole, our Blinbry string, our second string in this case will be run in and seated in this TIW packer. The weight of this intermediate string actually seats that retrievable packer there. The third string, or Paddock string, will be run in the hole and hung from the tubing-head as indicated in the diagram here.

During, or when we run this tubing in the hole, we plan to install the seating nipples so that when the flowing life of the reservoir has ended we can install artificial lift equipment without upsetting the packers in any way. This type of installation will permit us to obtain bottomhole pressures in each one of these three zones, and it will permit accurate measurements of all the gas and oil produced from each zone.

Q Mr. Allen, what pressure information do you have about the three zones?

A I have some bottomhole pressure information on the offset wells. The only Paddock offset well to this Carlson Federal "A" No. 2 is our Carlson Federal "A" No. 1, 1,320 feet east. That had a bottomhole pressure of 2,168 pounds when it was originally



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completed. Likewise on that same well, our Blinebry bottomhole pressure was 2,068 pounds, the Tubb-Drinkard bottomhole pressure was 2,263 pounds.

MR. NUTTER: Was that Tubb-Drinkard pressure off of the east offset also?

A All three, Carlson Federal "A" No. 1, and then the north offset to the proposed well, which is the Skelly Las Cruces "C" No. 1 well, which is 1,320 feet north had an original pressure in the Blinebry of 2,285 pounds, and the original pressure in the Tubb-Drinkard was 2,399 pounds. That is a Blinebry-Tubb-Drinkard dual.

The northeast diagonal offset, which is the Texas-Pacific Coal and Oil Wimberley No. 3, in the Blinebry we do not have bottomhole pressures on those wells. After contacting those people, they weren't available.

The southeast diagonal offset, which is the Union Texas Natural Gas Corporation, A-P Division, Carlson "B" No. 1 2311, 1,850 feet southeast, had an original pressure in the Blinebry of 919 pounds, which is a little out of line with these pressures in the Blinebry formation. The Tubb-Drinkard in that same well had an initial pressure of 2,241 pounds. I can't explain that low pressure there, 1,919 pounds.

MR. NUTTER: Was it 1,919?

A Pardon me, that was 919. With those type pressures you can see there is not a great deal of pressure differential across either one of these packers. They are designed to withstand con-



siderable more pressure differential, probably will withstand in the order of 10,000 pounds differential, or maybe more.

Q Your east offset well is a triple completion, the same as you are proposing here?

A Yes, sir, the east offset, Carlson Federal "A" No. 1, is completed in the Paddock, Klinebry and Tubb-Drinkard, in exactly the same manner we propose to complete the Carlson Federal "A" No. 2.

Q Is there anything unusual about these zones that would make that triple completion either impractical initially, or impractical to maintain or operate?

A I know of nothing unusual about any of these zones that would make this application, or this installation, impractical.

Q Is there anything else in connection with the proposed completion that you care to discuss as to this well?

A No, sir, there is nothing that is significant, I don't believe, at this time.

Q Now, referring to the well which is the subject of Case No. 2379, that is your Carlson Langlie Federal?

MR. BRATTON: Mr. Examiner, would you prefer to have this marked as Exhibit 4?

MR. TUTTER: No, we will file in two individual case files.

MR. BRATTON: It will be marked as Exhibit No. 1 in Case 2379.

Q Is that a plat of that well, Mr. Allen?



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A Yes, this is a plat of the area of our Langlie Federal lease, shows the location of the Langlie Federal No. 2, 1,650 feet from the south line, and 1,650 feet from the east line, Section 14, Township 25 South, Range 37 East. This also shows the offset leases and operators of the offset leases as well as offset wells and formations in which the offset wells are completed.

Q Where is this with relation to the well in the other case?

A This well, the Langlie Federal No. 2 well, is approximately one mile due north of the Carlson Federal "A" No. 2.

Q Are you in the process of drilling this well now?

A Yes, sir, we are in the process of drilling this well. I think we would be at a total depth of approximately 5,500 feet today.

Q Have you received any objections from any offset operators in connection with the application in this case?

A No, sir, we have not.

Q Referring to your Exhibit No. 2, in Case 2379, that is a log of that well?

A Exhibit No. 2 is a log of our Langlie Federal No. 1 well, which is the direct east offset to the Langlie Federal No. 2 well. The purpose of presenting this log is to show where the Glorieta, Blinbry, Tubb-Brinkard tops are in the Langlie Federal No. 1 well and to state that we expect these tops to be approximately 50 feet lower in our Langlie Federal No. 2 well. The Glorieta top in the Langlie Federal No. 1, 4,672 feet subsurface; Blinbry top at



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5,051 feet subsurface, and the Blinbry perforations in this well are at 5,404 to 5,420; the Tubb top is at 5,740 with Tubb perforations at 5,788 to 5,797, 5,803, 5,812, 5,838, 5,844 and 5,860, 5,867, 5,914, 5,922; Drinkard top there is at 5,928 feet subsurface with Drinkard perforations 5,930 to 5,940, 5,952 to 5,960, 5,962 to 5,971. We plan to perforate the Langlie Federal No. 2 in intervals that could correlate to the intervals perforated in this well, and, in addition, plan to perforate the Paddock formation, which, in the Langlie Federal No. 1 well would be at approximately 4,960 to about 5,010 feet. I might add, in our Langlie Federal No. 2 well we do expect these perforations to be about 50 feet lower.

Q But they all correspond approximately the same depth?

A We think they will be approximately the same depth.

Q Now, refer to your Exhibit No. 3 in Case 2379.

A Exhibit No. 3 is a diagram of the in-hole installation.

We have drilled a 13-3/4-inch hole to 924 feet where we set 9-5/8-inch casing at 920.63 feet, using two centralizers, 829 feet and 909 feet. Our cement was circulated and the casing was tested at 1200 pounds for 30 minutes without reduction of pressure. We drilled out of the 9-5/8 casing with 8-3/4-inch hole, and expect to drill to approximately 6,050 feet. As I said before, we are now drilling at 5,500 feet. We plan to install 7-5/8 and 7-inch combination casing string as pointed out in the Carlson "A" Federal No. 2 and set it at total depth, and cement in a similar conventional manner we cemented the other one. Our completion assembly



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inside the casing will be very similar and identical, using the same equipment installed in, generally, the same manner.

Q How about your pressure information in this area, Mr. Allen?

A Well, in the area of the Langlie Federal No. 2 well, we have a direct east offset which is the Langlie Federal No. 1. The original Blinbry pressure in the Langlie Federal No. 1 was 1,155 pounds. Our original Tubb-Drinkard pressure in the Langlie Federal No. 1 was 2,285 pounds. The northeast diagonal offset, which is the Atlantic Langlie Federal "A" No. 1, the Blinbry had an initial pressure of 1,154 pounds, and in the Tubb-Drinkard an initial pressure of 1,491 pounds. The direct south offset to the Langlie Federal No. 2 is the Union Texas Natural Gas, A-P Division, Langlie "B" No. 2. In the Blinbry formation that well has an initial pressure of 1,396 pounds, and in the Tubb-Drinkard formation we do not have a pressure recorded for that well. The southeast diagonal offset, which is the Union Texas Natural Gas, A-P Division Langlie "B" No. 1, in the Blinbry had an initial pressure of 2,198, and in the Tubb-Drinkard had an initial pressure of 1,546 pounds.

Q Do you have any Paddock pressures anywhere in the area?

A This well is not directly or diagonally offset by Paddock producers, but I do have some Paddock pressures in our Carlson Federal "A" No. 1. The initial Paddock pressure was 2,166 pounds. In the Western Petroleum Company Carlson "B" No. 5, which is approximately 5,100 feet to the east northeast, the bottomhole



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pressure is 1,765 pounds. The well Haddock No. 5, approximately 2,400 east, bottomhole 2,099 pounds. The only other Haddock well in the pool, the Hebble Jarison "B" 26-7, approximately 10,050 feet south, I understand the bottomhole pressure was never obtained on that well due to the fact that artificial lift equipment was installed immediately after completion.

Q Mr. Allen, would the possible spread of pressures here be in the magnitude to give you any trouble?

A No, sir, we certainly would not expect any pressure difficulty across these packers due to pressure differentials from one formation to another. These packers were built to withstand pressure differentials considerably in excess of what we expect here.

Q Is there anything else about this completion that would be different or unusual, or cause you to anticipate trouble?

A No, sir, there is nothing unusual or different about this completion which would cause us to anticipate any trouble. I can't think of a thing that would go against us.

Q Is there anything else you care to state in connection with either of these applications?

A I might add that in this case No. 2379, this type of installation will allow us to obtain reservoir pressures or bottomhole pressures, and it will also allow us to get accurate measurements on all of the gas and oil produced from each one of the formations.



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Q This installation would, in your opinion, be satisfactory to prevent communication between the zones?

A Yes, sir.

Q And would prevent waste?

A Definitely would.

Q Were Exhibits 1 through 3 in both of these cases prepared by you or under your supervision?

A Yes, sir, they were.

Q Except the logs, which were obtained from engineering firm?

A The marks on the logs were put on.

MR. BRATTON: We will offer in evidence Atlantic's Exhibits 1 through 3 in cases 2378 and 2379.

MR. NUTTER: Atlantic's Exhibits 1 through 3 in each case will be admitted in evidence.

MR. BRATTON: We have no further questions at this time.

MR. NUTTER: Does anyone have any questions of Mr. Allen?

CROSS EXAMINATION

BY MR. NUTTER:

Q What is the present status of this Langlie Federal No. 2 well?

A The Langlie Federal No. 2?

Q Yes.

A We are currently drilling that well with 8-3/4-inch hole at approximately 5,500 feet. I would say within a week or a week and a half we will be completing the well.



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Q So you haven't been able to log the well yet?

A No, we have not.

Q And the log which you submitted in Case No. 2379 is on the No. 1 well, which is the east offset?

A Yes, sir.

Q And the tops as depicted in this log are in the No. 1 well?

A Yes, sir; the tops marked on the Langlie Federal No. 1 log are the tops.

Q And you expect the other well to run about 50 feet lower?

A Approximately.

MR. BRATTON: As soon as you do log this well, will you submit the Commission copies?

A Yes, sir, we will supply the Commission copies of the log.

Q (By Mr. Nutter) Mr. Allen, some months ago the Commission defined the vertical limits of the Blinebry pool in this area at specific points. Do the proposed perforations in the Langlie Federal No. 2 and the actual perforations in the Carlson Federal "A" No. 2 conform with the vertical limits as specified by the Commission in that order?

A Yes, sir, they do. The Justis-Blinebry vertical limits were established, or depicted in the Amerada Wimberley 4 -- I do not have a large scale log you could correlate immediately, but the Blinebry top we depicted here correlates exactly to the top in this well.



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Q You have been able to pick that point in the Wimberley well on this well?

A Yes, sir.

Q Do you have anything on the GOR's or gravity of the three zones we are considering here?

A Yes, sir, I do. On the Langlie Federal No. 2, the east offset, the Atlantic Refining Langlie Federal No. 1, in the Blinebry, during July of this year, was producing with a GOR of 864 with a gravity of 37 degrees API. The Tubb-Drinkard formation in that Langlie Federal No. 1 well is producing with a GOR of 678. These are still July production figures -- with an oil of 37 degrees API. The northeast diagonal offset, the Langlie Federal "A" No. 1, in the Blinebry formation, is producing with a GOR of 732, with an oil gravity of 37 degrees API. The Tubb-Drinkard formation in that Langlie Federal "A" No. 1 well is producing with a GOR of 7,512, oil gravity of 37 degrees API.

Q Which well was that?

A Langlie Federal "A" No. 1.

Q It has a GOR of 7,512?

A Yes, sir. I might add, we have just recently completed work-over on that well since this date, and I do not have a recent test; these are July figures.

Q As far as you know, did you drop the GOR in the work-over?

A I certainly hope so; I do not know, however, and the direct south offset to the Langlie Federal No. 1, which is the



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Union Texas Natural Gas Langlie "B" No. 2, in the Blinbry produces with a GOR of 528, oil gravity of 37. In the Tubb-Drinkard it is producing with a GOR of 656, with an oil gravity of 39 degrees API. The southeast diagonal offset, on the Union Texas Natural Gas Langlie "B" 1, in the Blinbry is producing with a GOR of 709, oil gravity of 37 degrees API, and in the Tubb-Drinkard formation it is producing with a GOR of 2198, with an oil gravity of 36 degrees API. The Paddock information I have here are not direct or diagonal offsets, but the Carlson Federal "A" No. 1 in the Paddock completed with a GOR of 432, 37 degree gravity; the Westates Petroleum Company Carlson "B" 13 No. 5 produced with a GOR of 1,135, with a 39 degree API gravity, and the Gulf McBuffington No. 5 produced with a GOR of 14,356, with an oil gravity of 38 degrees. The Westates Carlson "B" 26 No. 7 is producing with a GOR of 9,432, gravity of 39 degrees API. I have similar information available on the Carlson No. 2, on the Carlson Federal "A" No. 2. The Carlson Federal "A" No. 1, Paddock, had a GOR of 403, oil gravity of 37 degrees API. The north offset, which is the Skelly Las Cruces "C" No. 1, in the Blinbry formation, is producing with a GOR of 679, with an oil gravity recorded of 24 degrees API. The Skelly Las Cruces well "C" No. 1 well in the Tubb-Drinkard formation produced with a GOR of 751, oil gravity of 37 API. The southeast diagonal offset, which is the Union Texas Natural Gas Carlson "B" No. 1, in the Blinbry produced with a GOR of 2,510, with an oil gravity of 37 degrees API; in the Tubb-Drinkard for-



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tion produces with a GOR of 2,304, oil gravity of 39 API. The northeast diagonal offset, which is the Texas Pacific Coal & Oil Wimberley No. 3, produces in the Blinebry with a GOR of 812, oil gravity of 39 degrees API, and in the Tubb-Brinkard, a GOR of 2,027, oil gravity of 38 degrees API. The Padlock offset information I have for this well is similar to the one I gave you earlier.

Q What did you say this packer was you are going to use for the upper separation?

A It is TIW Type H.D.F.L.

Q Who makes that?

A Texas Iron Works -- retrievable packer.

Q The same as you used in the Carlson "A" 1?

A Yes, sir, that is the same packer we used.

Q Have you taken packer leakage tests?

A We have conducted packer leakage tests on that well within the 15-day period after it was completed, and we had no indication of communication at that time in that well.

Q And that packer is set by the weight of the tubing, is that correct?

A Yes, sir, that packer is run in on the long string, or the Tubb-Brinkard string. It just merely hangs on that string of tubing and it is set by the weight of the Blinebry string, or intermediate string.

Q The secondary string?

A Right.



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Q If you artificially lift that middle cone of the Blinberry, will you have any trouble with releasing the weight on the packer or anything causing it to unseat itself?

A No, we plan to use a hydraulic pump system here; we will run a hydraulic pump in on 3/4-inch hydraulic tubing, and set that pump down in the seating nipple there. The weight varies from 3 to 6,000 pounds. During the process of pumping we merely pump power oil down the tubing, which actuates the hydraulic pump, which in turn pumps the expended power oil back up the 3/4-inch and the tubing annulus, and there is no vertical movement of the pump.

Q You wouldn't have any motion to tend to upset the pump?

A No, sir, we would not.

MR. NUTTER: Are there any other questions of Mr. Allen?
You may be excused.

Do you have anything further, Mr. Bratton?

MR. BRATTON: No, sir.

MR. NUTTER: Does anyone have anything they wish to offer in Case 2378 or 2379? Take the cases under advisement and call Case 2380.



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STATE OF NEW MEXICO)
COUNTY OF PERMALILLO) ss.

I, JUNE PALGE, Court Reporter, do hereby certify that the foregoing and attached transcript of proceedings before the New Mexico Oil Conservation Commission at Santa Fe, New Mexico, is a true and correct record to the best of my knowledge, skill and ability.

IN WITNESS WHEREOF I have affixed my hand and notarial seal this 30th day of September, 1961.

June Palge
Notary Public - Court Reporter

My Commission expires:
May 11, 1964.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 2378 + 2379 heard by me on 9/20, 1961.

Asst. Examiner, Examiner
New Mexico Oil Conservation Commission



I N D E XWITNESSESPAGE

RAY ALLEN

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