

CASE 1873: Application of ATLANTIC
for oil-oil dual of its Langlie Fed.
"A" Well No. 1 - Lea County, N. Mex.

Case No.

1873

Application, Transcript,
Small Exhibits, Etc.

(SUBMIT IN TRIPLICATE)

Land Office

Case No. LC-060944

Unit

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Langlie-Federal "A"

October 26, 1959

Well No. 1 is located 2310 ft. from [N] line and 330 ft. from [E] line of sec. 14

E/4 Sec. 14
(1/4 Sec. and Sec. No.)25 S
(Twp.)37 E
(Range)R7M
(Meridian)Justin
(Field)

Lea

(County or Subdivision)

New Mexico

(State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded well at 2:30 PM 10-23-59. Drilled to 895'. Ran 28 joints of 9-5/8" 12# N-40 casing, total 880.19' set at 895.30'. HOWCO cemented with 225 sacks of regular cement mixed 1 to 1 with Pomix with 6% gal followed with 165 sacks of regular with 2% calcium chloride. Plug down at 8:45 PM 10-24-59. Cement circulated. WOC 24 hours. Tested 9-5/8" casing with 1200# for 30 minutes OK. Drilled plug and resumed drilling.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Atlantic Refining Company

Address P. O. Box 1610

Midland, Texas

By R. A. Evans

Title Senior Drilling Engineer

GPO 543040

Exh. 4

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office

Lease No. 10-060944

Unit

BOBBS, 208

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Langley Federal "A" No. 1

November 29, 1959

Well No. 1 is located 2310 ft. from [N] line and 330 ft. from [E] line of sec. 14

NE/4 Sec. 14

(1/4 Sec. and Sec. No.)

25 S

(Twp.)

37 E

(Range)

NMPM

(Meridian)

Justin

(Field)

Lee

(County or Subdivision)

New Mexico

(State or Territory)

The elevation of the derrick floor above sea level is ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled well to total depth 6040'. Ran 186 jts of 7" casing (20# J-55 ST&C and 23# J-55 LB&C), 6034.45', set at 6034.45'. Used 10 centralizers. HOWCO cemented with 354 sacks of Lone Star Inocer mixed 40% with Diesel D with 25 calcium chloride with 1/4# of Floccs per sack followed by 340 sacks of Lone Star and Southwestern Portland with 1/4# of Floccs per sack. Plug down at 10:10 PM 11-19-59. WOC. North Well Service ran temperature survey and found top of cement at 1525'. Drilled plug at 5796' and cement to 6023'. Tested 7" casing with 1500# for 30 minutes OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The Atlantic Refining Company

Address P. O. Box 1610

Midland, Texas

By M. L. Mills

Title Regional Drilling Manager

GPO 11-2040

Exh. 5

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.

Dumas City, Texas December 4, 1959
(Place) (Date)

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

The Atlantic Refining Co. Leasing Federal "A", Well No. 1, in 22 1/4 SE 1/4,
(Company or Operator) (Lease)

N 1/4, Sec. 14, T. 22S, R. 77E, NMPM, Undesignated Pool
Unit Letter

1400

Please indicate location:

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

Section 14

Tubing, Casing and Cementing Record
Size Feet Sals

9 5/8	878.00	490
7	6024.45	577
3	5420	

County Date Spudded 10-23-59 Date Drilling Completed 11-17-59
Elevation 27 3777 Total Depth 6020 PBD 2200
Top Oil/Gas Pay 5420 Name of Prod. Form. Secondary

PRODUCING INTERVAL -

Perforations 5420 - 5430

Open Hole Depth Casing Shoe 6024.45 Depth Tubing 2200

OIL WELL TEST -

Natural Prod. Tests: bbls. oil, bbls. water in hrs, min. Size Choke

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

GAS WELL TEST -

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

Method of Testing (pitot, back pressure, etc.):

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

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 10,000 gal oil & 10,000 sand, 1000 gals 12% HCl, 1000 gals 20% HCl

Casing Tubing Date first new Press. Parker 600 oil run to tanks September 23, 1959

Oil Transporter Texas New Mexico Pipe Line

Gas Transporter None

Remarks: Gas is being vented waiting on completion of the Tubb formations.

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

Approved _____, 19_____

The Atlantic Refining Company
(Company or Operator)

ORIG. SIGNED: N. A. CAHR E. A. GALT

By: _____
(Signature)

District Superintendent

Title: Send Communications regarding well to:

Name: The Atlantic Refining Company

Address: Box 1038, Dumas City, Texas

OIL CONSERVATION COMMISSION

By: _____

Title: _____

Exh. 6

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.

Danvers City, Texas December 21, 1959
(Place) (Date)

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

The Atlantic Refining Company Langlie Federal "A" Well No. 1, in SE 1/4 NE 1/4
(Company or Operator) (Lease)

Sec. 14, T. 25-S, R. 37-E, NMPM, Undec. Justice Tubb L.A. Pool
Date Later

Loc
Please indicate location:

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

County. Date Spudded 10-23-59 Date Drilling Completed 11-17-59
Elevation 57-911 Total Depth 6040 PBTD 6020

Top Oil/Gas Pay 5706 Name of Prod. Form 2022

PRODUCING INTERVAL -

Perforations 5706-5810; 5816-5820; 5826-5842

Open Hole Depth Casing Shoe 6022.45 Depth Tubing 5720.49

OIL WELL TEST -

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

Test After Acid or Fracture Treatment (after recovery of volume of oil equal to volume of load oil used): 168.44 bbls. oil, 3.46 bbls water in 24 hrs, 0 min. Size 20/64

GAS WELL TEST -

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

Method of Testing (pitot, back pressure, etc.):

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

Choke Size Method of Testing:

Acid or Fracture Treatment (Give amounts of materials used, such as acid, water, oil, and sand): 15,000 gals. gal. oil & 15,000 gal. sand, 300 gals. acid; 1200 gals. acid 11/1/59 sand per gal; 7500 gals. acid
Casing Tubing Date first new
Press. Packher Press. 4500 oil run to tanks December 14, 1959

Oil Transporter Texas New Mexico Pipe Line

Gas Transporter None

Remarks: Gas is being vented waiting on El Paso Natural Gas to make physical connection

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

Approved 19 The Atlantic Refining Company
(Company or Operator)

OIL CONSERVATION COMMISSION

By: N. A. Carr
(Signature)

Title District Superintendent
Send Communications regarding well to:

Name The Atlantic Refining Company

Address Box 1033 Danvers City, Texas

Exh. 7

FORM C-124
(Rev. 9-53)

Pool

106 No

WELL	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
NO.	PRESS.	S.I.	D.F.	GAUGE	GRABBER	B.H.P. AT	B.H.P. AT	AT DATUM	AT DATUM	AT DATUM	AT DATUM	AT DATUM
UNIT	RUN	HRS/MINS.	BLVD.	DEPTH	FEET	GAUGE DEPTH	POOL DATUM	PRESSURE	PRESSURE	PRESSURE	PRESSURE	PRESSURE
Langlie Fed. A	1	H	11-25-37	12-28-59	53/00	3:11	5700	520	2150	2186	None Previous	

Exh. 8

DATE 05/05/2000

ASSISTANT DIRECTOR

Normal Start-up Time: 1.0

How: Average Per 1000 Registrants

WELL NO.	UNIT	S.A.R	DATE PRESS. RTH	TIME S.I. HRS/MINS.	D.F. ELEV.	GAUGE DEPTH	GRADIENT TPT.	B.H.P. AT GAUGE DEPTH	B.H.P. AT FOOT DEPTH	PREVIOUS TEST AT DATUM PRESSURE	DATE
Loglie Well A	1	H	11-25-37	12-21-59	54/00	3111	5450	.430	2394	2377	None Previous

Exh. 9

NEW MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator The Atlantic Refining Company			Lease Langlie Federal "A"			Well No. 1	
Location of Well	Unit 2	Sec 14	Twp 23-S	Rge 37-E	County San		
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	Elmistry		Oil	Flow	Tbg	12/64	
Lower Compl	Padre		Oil	Flow	Tbg	10/64	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): **8:00 a.m. (MST) 12-17-39**

Well opened at (hour, date): **8:00 a.m. (MST) 12-18-39**

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

Pressure at beginning of test..... **529** **1087**

Stabilized? (Yes or No)..... **No** **No**

Maximum pressure during test..... **565** **1087**

Minimum pressure during test..... **529** **400**

Pressure at conclusion of test..... **565** **975**

Pressure change during test (Maximum minus Minimum)..... **36** **687**

Was pressure change an increase or a decrease?..... **Increase** **Decrease**

Well closed at (hour, date): **8:00 a.m. (MST) 12-19-39**

Oil Production **32.7** bbls; Grav. **27.8°**; Gas Production **28.3 MCF**; GOR **1087**

Remarks **Well plugged off after being open 8 hours**

FLOW TEST NO. 2

Well opened at (hour, date): **8:00 a.m. (MST) 12-20-39**

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

Pressure at beginning of test..... **587** **979**

Stabilized? (Yes or No)..... **Yes** **Yes**

Maximum pressure during test..... **590** **979**

Minimum pressure during test..... **440** **908**

Pressure at conclusion of test..... **512** **908**

Pressure change during test (Maximum minus Minimum)..... **150** **91**

Was pressure change an increase or a decrease?..... **Decrease** **Decrease**

Well closed at (hour, date): **8:00 a.m. (MST) 12-20-39**

Oil Production **18.6** bbls; Grav. **28.5°**; Gas Production **6.2 MCF**; GOR **333**

Remarks **Well plugged off after being open 2 1/4 hours**

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

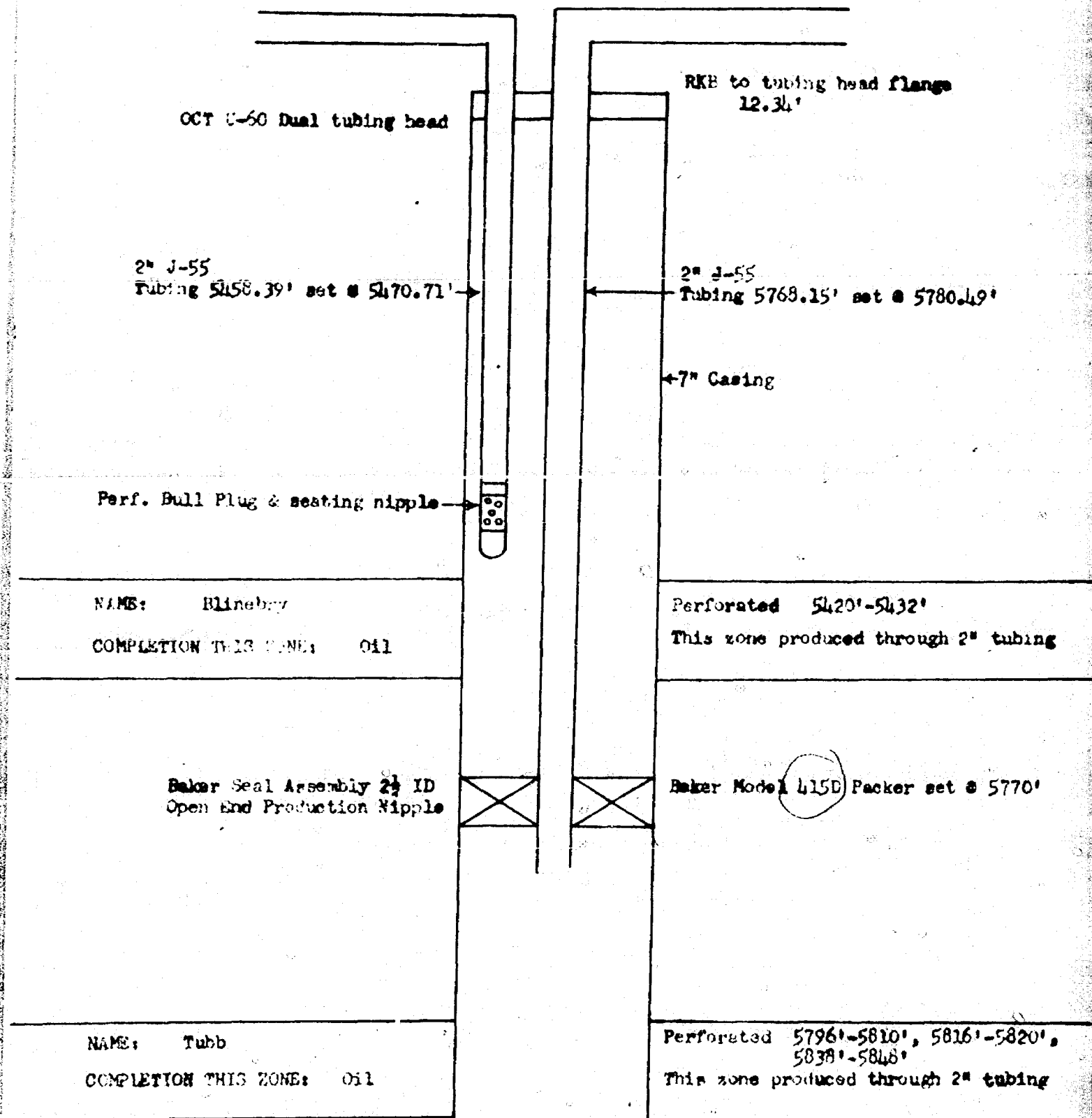
Operator **The Atlantic Refining Company**

By **N. A. Carr**

By _____
Title **Exh 10**

Title **District Superintendent**
Date **December 22, 1939**

COMPANY: THE ATLANTIC REFINING COMPANY
 LEASE : Atlantic Langlis-Federal "A"-1
 FIELD : Just's (Blinbry & Tubb)
 DATE : 12-22-59



P.B.D. 6023'

6040' T.D.

Exh. 11

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

6-1-56

PACKER-SETTING AFFIDAVIT
(Dual Completions)

STATE OF Texas)
County of Yoshua) ss

N. A. Carr, being first duly sworn according to law, upon his oath deposes and says:

That he is of lawful age and has full knowledge of the facts herein below set out.

That he is employed by The Atlantic Refining Company in the capacity of District Superintendent and as such is its authorized agent.

That on November 30, 19 59, he personally supervised the setting of a Baker Model 415 D in The Atlantic Refining Company's
(Make and Type of Packer) (Operator)

Langlie Federal "A" Lease Well No. 1, located in Unit
(lease)
Letter H, Section 14, Township 25-S, Range 21-E, NMPM,
Lea County, New Mexico.

That said packer was set at a subsurface depth of 5770 feet,
said depth measurement having been furnished by Steel Tape Measurement.

That the purpose of setting this packer was to effect a seal in the annular space between the two strings of pipe where the packer was set so as to prevent the commingling, within the well-bore, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer. That this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.

The Atlantic Refining Company
(Company)

N. A. Carr (its Agent)

Subscribed and sworn to before me this the 20th day of January, AD, 19 60.

G. M. Souder G. M. Souder
Notary Public in and for the County
of Yoshua

My Commission Expires June 1, 1961.

Exh. 12

Case 1873
NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

APPLICATION FOR DUAL COMPLETION

Field Name Justis Blinebry and Justis Tubb County Lea Date Nov 24 PM 2 29
Operator The Atlantic Refining Company Lease Langley Federal "A" Well No. 1
Location of Well Unit H Section 14 Township 25S Range 37E

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. R-1402A; Operator, Lease, and Well No.:

Skelly Oil Company Hobbs "A" Well No. 6

3. The following facts are submitted:		Upper Zone	Indesignated Lower Zone
a. Name of reservoir		<u>Justis Blinebry</u>	<u>Justis Tubb</u>
b. Top and Bottom of Pay Section (Perforations)		<u>5339-5498' (estimated)</u>	<u>5802-5848' (estimated)</u>
c. Type of production (Oil or Gas)		<u>Oil</u>	<u>Oil</u>
d. Method of Production (Flowing or Artificial Lift)		<u>Flowing</u>	<u>Flowing</u>

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.*

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.

Anderson & Prichard Oil Corporation, Box 196, Midland, Texas

Gulf Oil Corporation, Box 669, Roswell, New Mexico

Jal Oil Company, Inc., Box 2, Jal, New Mexico

Johnson & French, Box 1248, Jal, New Mexico

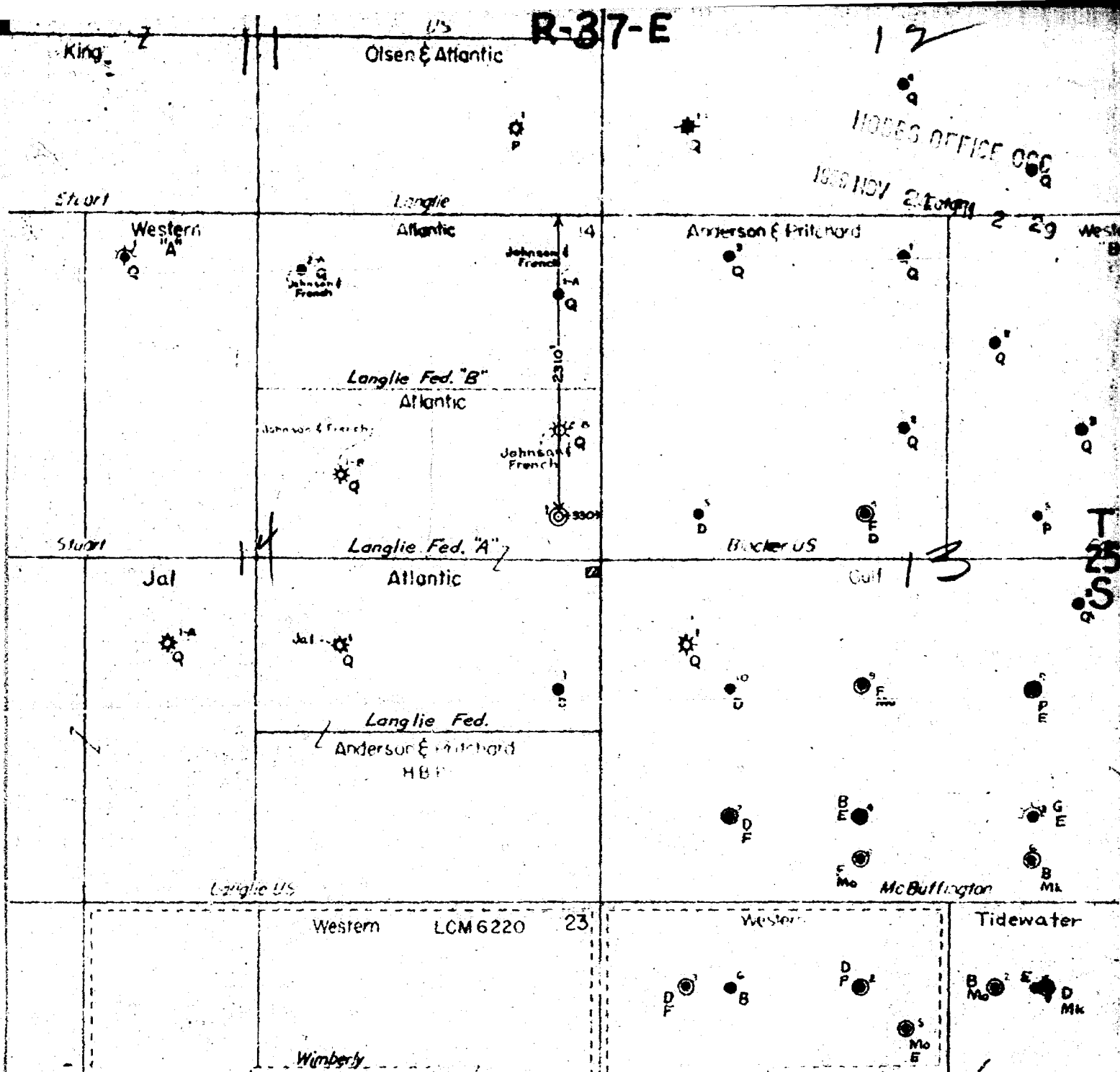
Western Natural Gas Company, Box 1060, Jal, New Mexico

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 Regional Petroleum Engineer of the Atlantic Refining Company (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.

R. E. Howard Signature

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 perforation unit in either or both of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



23 THE ATLANTIC REFINING COMPANY
WEST TEXAS-NEW MEXICO REGION

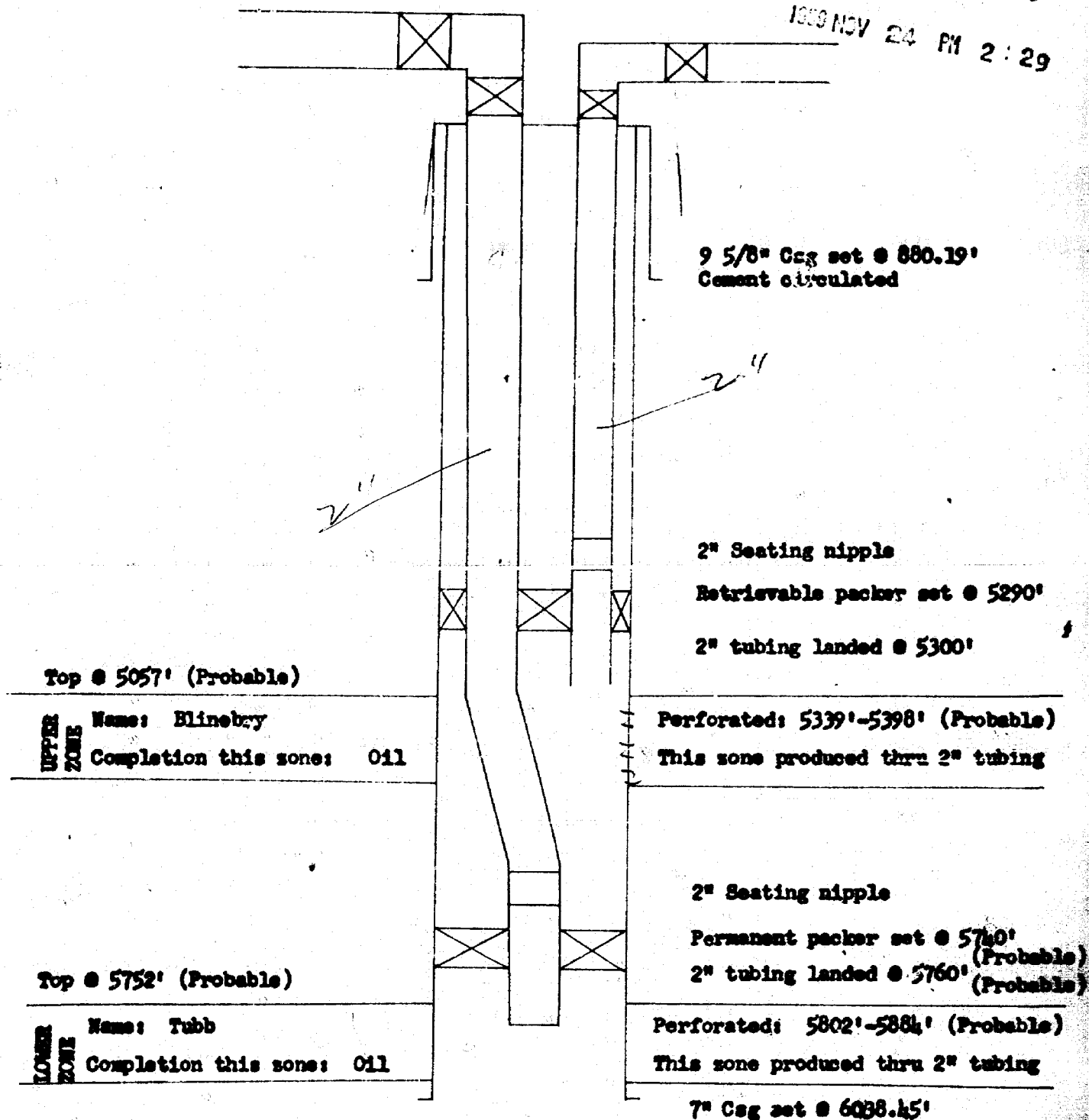
JUSTIS BLINEBRY & UNDESIGNATED TUBE POOLS

Scale: 1" = 1000'
To Accompany Application for Oil/Oil Dual
Atlantic - Langlie Federal "A" no. 1 Well

Case 1873

HOBBS OFFICE OCC

1959 NOV 24 PM 2:29



COMPANY: The Atlantic Refining Company
LEASE: Langlie Federal "A" No. 1
FIELD: Justis (Blinbry) & Justis (Tubb)
DATE: November 23, 1959

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Date 1-28-60

CASE

1873

Hearing Date

1-27-60

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

1. Grant Atlantic Dred for the
Justus-Blineby - Upper - Oil
Under - Tubb - Lower - Oil
2. Two strings of 2 3/8 tubing will be
used.
3. A Baker Model 415D permanent type
pneumatic will be used. Set at 5000.
4. Packee tests to be an H O R annual tests.

Chris. A. Duff

Staff Member

Car 1873

RECEIVED DEC 2 1959

OIL CONSERVATION COMMISSION

BOX 2045

HOBBS, NEW MEXICO

DATE Nov. 20, 1959

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

Re: Proposed NSP _____

Proposed NSL _____

Proposed NFC _____

Proposed DC X

Gentlemen:

I have examined the application dated 11/24/59
for the Atlantic Rfg. Co. Langlie Fed. "A" #1 14-25-37
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---E.F.E.

O.K.---J.W.R.

Yours very truly,

OIL CONSERVATION COMMISSION

DOCKET: EXAMINER HEARING JANUARY 27, 1960OIL CONSERVATION COMMISSION - 9 a.m., MABRY HALL, STATE CAPITOL, SANTA FE

The following cases will be heard before Elvis A. Utz, Examiner, or A. L. Porter, Jr., Secretary-Director:

- CASE 1866: Application of British-American Oil Producing Company for approval of a unit agreement. Applicant, in the above-styled cause, seeks an order approving its West Bisti-Lower Gallup Sand Unit Agreement, which Unit is to comprise 14,331 acres, more or less, in Townships 25 and 26 North, Ranges 13 and 14 West, San Juan County, New Mexico.
- CASE 1867: Application of British-American Oil Producing Company for a pressure maintenance project in the Bisti-Lower Gallup Oil Pool and promulgation of special rules in connection therewith. Applicant, in the above-styled cause, seeks an order authorizing a pressure maintenance project in the Bisti-Lower Gallup Oil Pool, San Juan County, New Mexico, by the injection of water into the Lower Gallup formation through 17 wells. Applicant further proposes that special rules be adopted governing said project including the transfer of allowables from injection and shut-in wells to producing wells in the project and for establishment of an administrative procedure to convert additional wells to injection.
- CASE 1868: Application of Hamilton Dome Oil Company, Ltd. for permission to commingle the production from three separate pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Justis-Drinkard Pool, the Justis-Fusselman Pool and an undesignated Tubbs pool from wells on a lease consisting of the S/2 SE/4 of Section 25, Township 25 South, Range 37 East, Lea County, New Mexico.
- CASE 1869: Application of Newmont Oil Company for approval to convert five additional wells in the Loco Hills Pool to water injection. Applicant, in the above-styled cause, seeks an order authorizing it to convert to water injection five additional wells in its water flood project in the Loco Hills Pool, Eddy County, New Mexico. Said wells are the Brigham Well No. 1-A, Yates Well No. 4, Yates A Well No. 10, Yates A Well No. 12, and Coppedge Well No. 2, located respectively in the SE/4 SE/4 of Section 31, Township 17 South, Range 30 East, NE/4 SW/4 of Section 6, SW/4 SW/4 of Section 6, NE/4 NE/4 of Section 6, and NW/4 NW/4 of Section 5, all in Township 18 South, Range 30 East.

CASE 1870: Application of Newmont Oil Company for permission to install four separate automatic custody transfer systems. Applicant, in the above-styled cause, seeks an order authorizing it to install a separate automatic custody transfer system on each of four leases in applicant's water flood project in the Loco Hills Pool, Eddy County, New Mexico.

CASE 1871: Application of Union Oil Company of California for approval of a unit agreement. Applicant, in the above-styled cause, seeks an order approving its North Anderson Ranch Unit Agreement, which Unit is to comprise 360 acres, more or less, consisting of portions of Sections 32 and 33, Township 15 South, Range 32 East, Lea County, New Mexico.

CASE 1872: Application of Gulf Oil Corporation for authority to commingle the production from four separate leases and for approval of an automatic custody transfer system to handle said commingled production. Applicant, in the above-styled cause, seeks permission to commingle the production from the following four separate leases and to install an automatic custody transfer system to handle the Pearl-Queen Pool production from all wells located thereon:

Lea-State "AP" lease, E/2 of Section 30;
Lea-State "AQ" lease, N/2 of Section 32;
Lea-State "BG" lease, N/2 of Section 33;
Lea-State "IH" lease, W/2 SW/4 and W/2 SE/4
of Section 29,

all in Township 19 South, Range 35 East, Lea County, New Mexico.

CASE 1873: Application of The Atlantic Refining Company for an oil-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Langlie Federal "A" Well No. 1, located in Unit H, Section 14, Township 25 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of oil from the Justis-Blinbry Pool and the production of oil from an undesignated Tubb pool through parallel strings of tubing.

CASE 1874: Application of Val R. Reese & Associates, Inc., for a dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Lybrook Well No. 1-19, located in Unit C, Section 19, Township 24 North, Range 6 West, Rio Arriba County, New Mexico, in such a manner

as to permit the production of gas from an undesignated Gallup pool and the production of gas from an undesignated Dakota pool through parallel strings of tubing.

CASE 1875:

Application of Continental Oil Company for a non-standard gas proration unit and for an order force-pooling the interests therein. Applicant, in the above-styled cause, seeks the establishment of a 160-acre non-standard gas proration unit in the Blinebry Gas Pool consisting of lots 6, 10, 11, and 12 of Section 3, Township 21 South, Range 37 East, Lea County, New Mexico, to be dedicated to Shell Oil Company's Taylor-Glenn Well No. 1, located 3226 feet from the North line and 1980 feet from the West line of said Section 3. Applicant further seeks an order force-pooling the interests of those in said non-standard gas proration unit who have gas rights within the vertical limits of the Blinebry Gas Pool, including M. F. Taylor, P. O. Box 574, Amarillo, Texas, and R. B. Glenn, P. O. Box 461, Amarillo, Texas.

CASE 1876:

Application of Continental Oil Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Weir (Drinkard) Oil Pool and Weir-Tubb Gas Pool from all wells on its Britt B-15 lease consisting of the W/2 and the W/2 E/2 of Section 15, Township 20 South, Range 37 East, Lea County, New Mexico.

CASE 1877:

Application of Continental Oil Company for permission to install an automatic custody transfer system and for permission to produce more than 16 wells in a common tank battery. Applicant, in the above-styled cause, seeks an order authorizing it to install an automatic custody transfer system to handle the production from all Skaggs Pool oil wells on its Southeast Monument Unit comprising lands located in Township 20 South, Ranges 37 and 38 East, Lea County, New Mexico.

CASE 1878:

Application of Continental Oil Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the production from the Weir (Drinkard) Oil Pool and the Weir-Tubb Gas Pool from all wells on that portion of the Southeast Monument Unit consisting of the W/2 W/2 of Section 14 and the E/2 E/2 of Section 15, Township 20 South, Range 37 East, Lea County, New Mexico.

CASE 1879:

Application of Amerada Petroleum Corporation for a gas-oil dual completion and for a non-standard gas proration unit. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State EM "A" Well No. 2, located 660 feet from the South and West lines of Section 22, Township 19 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of gas from the Eumont Gas Pool and the production of oil from the Eumont Gas Pool through the casing-tubing annulus and the tubing respectively. Applicant further seeks the establishment of a 160-acre non-standard gas proration unit in the Eumont Gas Pool consisting of the SW/4 of said Section 22 to be dedicated to the said State EM "A" Well No. 2.

CASE 1880:

Application of Texaco Inc. for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Blinebry Oil Pool and the Drinkard Pool from all wells on its V. M. Henderson lease consisting of the N/2 of Section 30, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 1881:

Application of Texaco Inc. for approval of an automatic custody transfer system. Applicant, in the above-styled cause, seeks an order authorizing the installation of automatic custody transfer facilities to handle the Crossroads-Devonian Pool production from the U. D. Sawyer lease comprising the E/2 of Section 34, Township 9 South, Range 36 East, Lea County, New Mexico.

CASE 1882:

Application of Texaco Inc. for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Tubb Pool and the Blinebry Oil Pool from all wells located on its Mittie Weatherly lease comprising the NW/4 of Section 17, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 1883:

Application of Texaco Inc. for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Culwin (Queen) Pool and the Culwin-Yates Pool from all wells located on its Federal Lease comprising the NE/4, E/2 NW/4, N/2 SE/4 and the NE/4 SW/4 of Section 6, Township 19 South, Range 31 East, Eddy County, New Mexico.

CASE 1842:

(Continued)

Application of Skelly Oil Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Langlie-Mattix Pool and the Drinkard Pool from all wells on its Baker "A" lease comprising the NW/4 of Section 26, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 1884:

Application of Skelly Oil Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Langlie-Mattix Pool and the Drinkard Pool from all wells on that portion of the J. V. Baker lease comprising the SE/4 SW/4 of Section 22, Township 22 South, Range 37 East, Lea County, New Mexico.

CASE 1885:

Application of Skelly Oil Company for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the production from the Drinkard Pool and the Tubb Gas Pool from all wells on its State "K" lease comprising the N/2 NW/4 of Section 32, Township 21 South, Range 37 East, Lea County, New Mexico.

CASE 1886:

Application of E. P. Campbell for an exception to Rule 107 (e) of the Commission Rules and Regulations. Applicant, in the above-styled cause, seeks an exception to Rule 107 (e) in order to recomplete his No. 1 Cleveland Well, located in NW/4 NE/4 of Section 33, Township 18 South, Range 26 East, Eddy County, New Mexico, as a "slim-hole" completion in the Pennsylvanian formation at a depth greater than 5000 feet.

CASE 1887:

Application of Monsanto Chemical Company for an exception to the "no-flare" provision of Order R-1427. Applicant, in the above-styled cause, seeks an exception to February 15, 1960, to the "no-flare" provision of Order R-1427 for five wells in the Bisti-Lower Gallup Oil Pool, San Juan County, New Mexico.

CASE 1888:

Application of C. W. Trainer for off-lease storage of oil production. Applicant, in the above-styled cause, seeks permission to store the Pearl-Queen Oil Pool production from his Rushing lease, consisting of the W/2 NE/4 of Section 22, Township 19 South, Range 35 East, Lea County, New Mexico, in a tank battery located on his Signal State lease, consisting of the E/2 NW/4 of said Section 22.

ig/

Memo

From
James E. Kapteina
Petroleum Engineer

Ida,
Please log for hearing
on January 27

ok
jh

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. 1573
Order No. R-1592

APPLICATION OF THE ATLANTIC
REFINING COMPANY FOR AN OIL-
GAS DUAL COMPLETION IN THE
JUSTIS-BLINERY POOL AND IN
AN UNDESIGNATED TUBB POOL,
LEA COUNTY, NEW MEXICO

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on January 27, 1960, at Santa Fe, New Mexico, before Elvis A. Uts, 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 8th day of February, 1960, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Uts, 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 is the owner and operator of the Langlie Federal "A" Well No. 1, located in Unit H, Section 14, Township 25 South, Range 37 East, NMPN, Lea County, New Mexico.
- (3) That the applicant proposes to dually complete the above-described well in such a manner as to permit the production of oil from the Justis-Blinery Pool and the production of oil from an undesignated Tubb pool through parallel strings of 2-3/8 inch OD tubing.
- (4) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.
- (5) That approval of the subject application will neither cause waste nor impair correlative rights.

-2-
Case No. 1873
Order No. R-1592

IT IS THEREFORE ORDERED:

That the applicant be and the same is hereby authorized to dually complete its Langlie Federal "A" Well No. 1, located in Unit H, Section 14, Township 25 South, Range 37 East, BHPK, Lea County, New Mexico, in such a manner as to permit the production of oil from the Justis-Blinbry Pool and the production of oil from an undesignated Tubb pool through parallel strings of 2-3/8 inch OD tubing.

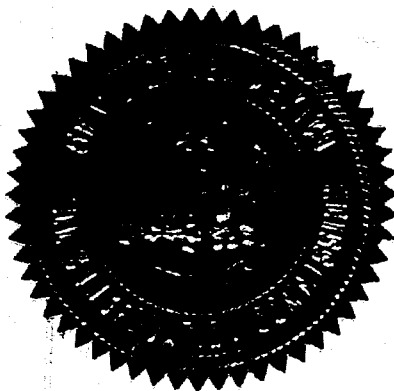
PROVIDED HOWEVER, That applicant shall complete, operate, and produce said well in accordance with the provisions of Section V, Rule 112-A.

PROVIDED FURTHER, That applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the Justis-Blinbry Pool.

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order, after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

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



STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

John Burroughs
JOHN BURROUGHS, Chairman

Murray E. Morgan
MURRAY E. MORGAN, Member

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

ven/

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 27, 1960
EXAMINER HEARING

IN THE MATTER OF:)

Application of The Atlantic Refining)
Company for an oil-oil dual comple-)
tion.)

Case 1873

BEFORE THE
OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
January 27, 1960
EXAMINER HEARING

IN THE MATTER OF:)

Application of The Atlantic Refining)
Company for an oil-oil dual completion.)
Applicant, in the above-styled cause,)
seeks an order authorizing the dual)
completion of its Langlie Federal "A")
Well No. 1, located in Unit H, Section)
14, Township 25 South, Range 37 East,)
Lea County, New Mexico, in such a man-)
ner as to permit the production of oil)
from the Justis-Blinbry Pool and the)
production of oil from an undesignated)
Tubb pool through parallel strings of)
tubing.)

Case 1873

BEFORE:

Mr. Elvis A. Utz, Examiner.

TRANSCRIPT OF HEARING

MR. UTZ: Case 1873.

MR. PAYNE: Application of The Atlantic Refining
Company for an oil-oil dual completion.

MR. BRATTON: If the Commission please, Howard Bratton,
Hervey, Dow and Hinkle, Roswell on behalf of the applicant. I
have one witness and ask that he be sworn.

(Witness sworn.)

MR. UTZ: Are there other appearances in this case? If
not, you may proceed.

DEARNLEY - MEIER & ASSOCIATES
GENERAL LAW REPORTERS
ALBUQUERQUE, NEW MEXICO
Phone CHapel 3-6691

W. P. TOMLINSON

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

DIRECT EXAMINATION

BY MR. BRATTON:

Q State your name, by whom you are employed and what capacity.

A W. P. Tomlinson, District Engineer for the Atlantic Refining Company in Roswell.

Q You have previously qualified as an expert witness before this Commission and you are familiar with the application and area in question?

A Yes, sir.

MR. BRATTON: The witness' qualifications acceptable?

MR. UTZ: Yes, sir.

Q State the nature of this case and how it comes on to be heard before the Examiner.

A This is an application to dually complete our Langlie Federal "A" No. 1 Well between the Justis-Blinbry pay and an undesignated Tubb oil pay. The reason that we have requested a hearing is that the Tubb completion is more than one mile from the Justis-Tubb Pool limits and also more than one mile from any other well that has been dually completed between these two pays. Otherwise we believe it would qualify for administrative approval.

DEARNLEY - MEIER & ASSOCIATES
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ALBUQUERQUE, NEW MEXICO
Phone CHapel 3-6691

There're presently nine Tubb-Blinebry completions in the Justis area so it's very similar to those.

Q Exhibit No. 1 shows the location of the well in question?

A Exhibit 1 is a plat of the area around the Atlantic Langlie Federal "A" No. 1 Well. It shows the wells that have been drilled on offsetting leases as well as on our leases. It shows the operator and the royalty owners. The legend at the bottom of the plat shows how we have designated the completions of the various wells. This well, incidently, is located 2310 from the North line and 330 from the East line of Section 14, Township 25 South, Range 37 East in Lea County.

Q Will you refer to your Exhibit No. 2, is that a log of the well in question?

A It is an electrical log, more exactly a lateral log, gamma ray neutron log of the Langlie Federal No. 1. On the log we have designated the intervals perforated in the Tubb and Blinebry zones. I won't go to the trouble to read them all out. The exact footages are noted on the log. The top of the cement was found to be at approximately 1525 feet, so you can see it extends well above the zones of completion. We installed a Baker 415 D packer between the two zones at 5770 feet. The tops on these formations have been picked by our geologists and we believe that they're generally the same tops that are used in the area

by other operators. The completion made in the Tubb is in the dolomite stringer just below the uppermost sandy member of the Tubb formation, and the completion in the Blinbry is also in the dolomite.

Q Is there anything else you want to say about the log or what it reflects?

A Well, I might say it shows that we've perforated the porous intervals as indicated by the curve on the extreme right of the log, which is the neutron curve. We attempted to get into the porous intervals for perforations. It shows several hundred feet, incidently, between the two zones of completion. We feel that that is adequate for separation in the formation itself. That there is very little likelihood that these two reservoirs are connected.

Q Exhibit No. 3 is a log of the well?

A It is a Form 9330 required by the United States Geological Survey. This is a Federal lease and we have filed that in lieu of a similar form that the Commission usually requires. I understand that this is acceptable by the Commission. There's nothing special that I want to bring out in relation to that exhibit.

Q And Exhibits 4 and 5 are reports on the well, the completion?

A Also United States Geological Survey forms, sundry

notices and reports and they give the results of pressure tests that we made on the 9 5/8" casing. They were satisfactory tests.

Q Showed you tested your 9 5/8" casing 1200 pounds for thirty minutes?

A Yes.

Q And your 7" casing 1500 pounds for thirty minutes?

A For thirty minutes, yes.

Q Exhibits 6 and 7.

A Exhibits 6 and 7 give the results of potential tests on the Tubb Zone and the Blinebry Zone respectively. It shows that the Tubb flowed 256 barrels of oil twenty-four hours, indicating that we have an oil completion there and also shows that the Blinebry Zone flowed 169 barrels of oil in twenty-four hours. I beg your pardon, I would like to reverse that, the first was the Blinebry and the second was the Tubb, but the significance is the same, we do have an oil completion in both zones.

Q What kind of drive do you have, if you know, Mr. Tomlinson?

A Of course we have very little producing history on this well, but based on our observations of the remaining part of the Justis Pool, both the Tubb and the Blinebry formations, we are expecting to have a solution gas drive.

Q Referring to Exhibits 8 and 9, Mr. Tomlinson.

A These are Form C-124. The Exhibit 8 pertains to the

Tubb formation shows that we had a BHP Pool datum of 2,186 psi. Exhibit 9 pertains to the Blinebry and shows that the BSP at the pool datum was 2,377 psi. Incidentally, some of those forms we wouldn't bother to put these in except that we think that they would be required anyway administratively, so we have gone ahead and put them in.

Q Submitted all the same forms that you would be required to administratively?

A Yes.

Q Refer now to Exhibit 10, Mr. Tomlinson, and state what it shows.

A It is a packer leakage test giving the results of production test and pressure test on the casing and on the tubing while the tests were in progress. My note on here that the gravity, for example, on the Tubb is 39.6 degrees api and had a GOR of 1,087. The gravity on the Blinebry formation, for the Blinebry formation, 38.8 degrees api and GOR of 333 cubic feet per barrel.

Q Refer now to Exhibit No. 11, Mr. Tomlinson and explain it, please.

A Exhibit 11 is a diagram of a mechanical installation in the well. It shows the location of the Baker 415 D packer, it gives the perforation for the Tubb and Blinebry zones, it shows that we have presently strings of 2" tubing in the well, one being bottomed above the packer and the other being continued through the

packer to produce the Tubb zone. This is a conventional dual completion seemingly insofar as Atlantic goes, and I believe is probably for most of the industry in that field.

Q You are satisfied that there are adequate safeguards against communication between the zones, between the reservoirs?

A Yes, sir. We have had very good luck with this type of installation.

Q And Exhibit No. 12 is your packer setting affidavit?

A This is a setting affidavit that is prepared by our Superintendent. It shows that the packer was installed. I would like to say that the advantage to this dual completion from our standpoint is that it represents considerable saving over drilling a single well to the Tubb. We'd save about \$46,000 by dually completing. That's the principal reason that we want it.

Q There are, to your knowledge, nine other Blinebry-Tubb dual completions in the same general area, but just not close enough to qualify this well for administrative approval?

A That is correct. I have a list of those, and if the Examiner is interested in them, I could furnish a list.

Q Is there anything further which you care to state with regard to this application, Mr. Tomlinson?

A No, sir.

Q Exhibits 1 through 12 were prepared by you or under your supervision?

A Yes, sir.

MR. BRATTON: We would offer Exhibits 1 through 12 in evidence.

MR. UTZ: Without objection they will be accepted.

MR. BRATTON: We have no further questions of Mr. Tomlinson.

CROSS EXAMINATION

BY MR. UTZ:

Q Mr. Tomlinson, to what do you attribute the 51 pound decrease when you were flowing the Blinebry zone on your packer leakage test?

A That is felt to be due to segregation within the tubing for that zone. I talked to our field personnel that conducted the test and they felt like that it was a phenomena that they had observed several times in the past and they believed that was the cause of it.

Q The segregation?

A Yes, the fluid when the well was initially shutin has a column of oil and gas that is a mixture of oil and gas flowing, after the well has been shutin separation occurs within the tubing and actually the fluid level comes up, there's more gas located at the top of the column and it causes a lower pressure there.

Q This happens while the well is shut in then?

A Yes, sir. As a matter of fact, I believe that this

segregation they stated that they noted it even before, well, as soon as the well was shut in it started to decrease. Although the decrease did not occur during the flow period of the Blinebry zone. That part of it occurred when they were both shut in.

Q If that were the cause, that would represent over a hundred feet of liquids in common?

A Yes, sir.

Q What type crude is each of these zones producing?

A To my knowledge they are producing intermediately, I suppose you mean from sweet --

Q Sweet or sour.

A I think it is classified as intermediate crude.

MR. UTZ: Any other questions of the witness?

BY MR. PAYNE:

Q Mr. Tomlinson, I notice on your request for allowable on the Blinebry zone under remarks it says the gas is being vented waiting on completion of Tubb formation.

A Well, I can bring you up-to-date a little bit. You see, these were prepared right after the well was completed. My understanding is that their connection ~~is made~~ on the lease, but sale is held up pending Federal Power Commission approval.

Q But both zones will be connected to El Paso's system?

A Yes, sir, that's my understanding.

Q Now, on your initial application your diagramatic sketch

showed a retrievable packer set at 5290 feet. I notice that you have left that out of your more recent diagramatic sketch here. I wondered if there was any particular reason for that.

A Well, I'm sorry I don't have an application here. However, the 415 D is what they did put in.

Q That's your permanent packer?

A That is our permanent packer. It's set at 5770, and let's see --

Q Let me ask you this, Mr. Tomlinson, the second packer is not necessary to permit waste or permit communication between zones, is it?

A No, sir, the purpose in that is to force all the gas that the upper zone might produce up through that tubing and thereby enlighten the column of fluid in the tubing and make it flow easier. I am unable to say here where they ran that packer. I can't find it in our records, but in either event I don't believe it would have any effect on the separation of the two zones.

MR. PAYNE: That's all.

MR. UTZ: Are there other questions? The witness may be excused.

(Witness excused.)

MR. UTZ: Did you enter your exhibits?

MR. BRATTON: I think so.

MR. UTZ: The case will be taken under advisement.

STATE OF NEW MEXICO)
 : SS
 COUNTY OF BERNALILLO)

I, ADA DEARNLEY, 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 15th day of February, 1960.

Ada Dearnley
 Notary Public-Court Reporter

My commission expires:

June 19, 1963.

I do hereby certify that the foregoing is a correct record of the proceedings in the hearing of case No. 1873, heard by me on Jan 27, 1960.

Edith M. [Signature], Examiner
 New Mexico Oil Conservation Commission

DEARNLEY - MEIER & ASSOCIATES
 GENERAL LAW REPORTERS
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