

# SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

SIMULTANEOUS



## Gamma Ray-Neutron

COUNTY Lea  
FIELD or LOCATION Langlie Mattix  
WELL Langhart # 1-A  
COMPANY Leonard Oil Co.

COMPANY LEONARD OIL CO.

WELL LANEHART # 1-A

FIELD LANGLIE MATTIX

LOCATION SEC. 21-25S-37E

COUNTY LEA

STATE NEW MEXICO

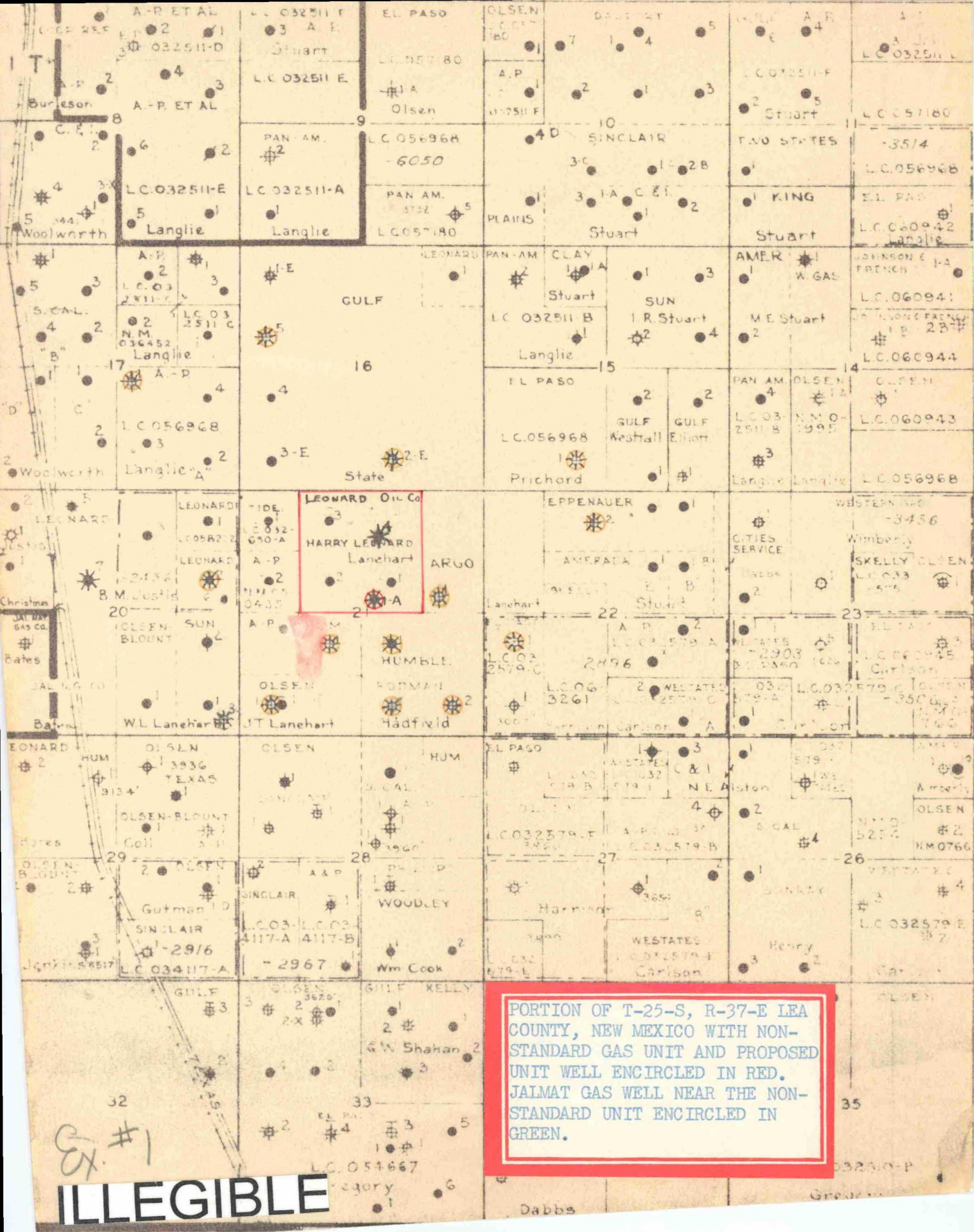
Location of Well  
2310' F N & E/L  
Sec. 21-25S-37E

GRN

Elevation: D.F.: \_\_\_\_\_  
K.B.: \_\_\_\_\_  
or G.L.: \_\_\_\_\_

FILING No. \_\_\_\_\_

RUN NO.	<u>1</u>	
Date	<u>9-30-55</u>	
Depth Reference	<u>KB 11.7' Adv. GL</u>	
First Reading	<u>3147</u>	BEFORE EXAMINER UTZ
Last Reading	<u>267</u>	
Footage Measured	<u>2880</u>	OIL COMPANY LOG
Max. Depth Reached	<u>3148</u>	APP. EXAMINER <u>2</u>
Bottom Driller	<u>3143</u>	CASE NO. <u>1815</u>
Maximum Temp. °F.	<u>107</u>	
Mud: Nature	<u>Oil Base</u>	
" Density		
" Viscosity		
" Resistivity	@ _____ °F.	@ _____ °F.
Casing Size & Weight	<u>7"</u> to <u>2754</u>	to
Open Hole	<u>6 1/2"</u> to	to
Fluid Level	<u>267</u>	
Recording Speed (ft/hr)	<u>2000 &amp; 4000</u>	
Sensitivity Tap	GR) <u>140</u> N) <u>400</u>	GR) _____ N) _____
Time Constant	<u>1.4</u>	<u>1</u>
Panel	<u>GNP-B # 42</u>	
Opr. Rig Time	<u>2 HRS</u>	
Sonde Size & Type	<u>3 5/8"</u>	
Truck No.	<u>1762-Hobbs</u>	
Observer	<u>Mahoney</u>	



ILLEGIBLE





NEW MEXICO OIL CONSERVATION COMMISSION  
One-point Back Pressure Test for Gas Wells  
(Deliverability)

Form O-122-0

4-1-54

Pool            Subject            Formation            Yates            County            Loc             
Initial            Annual            Special X Date of test 10-5/10-6-59 \*  
Company Leonard Oil Co. Lease Lanshart Well No. 1-A  
Unit G Sec. 21 Twp. 25 Rge. 37 Purchaser None  
Casing 7 Wt. 20.0 I.D.            Set at 2755 Perf.            To             
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 2910 Perf.            To             
Gas Pay: From 3094 To 3110 L 2910 x G .650 = GL 1891 Bar.Press. 13.2  
Producing Thru: Casing            Tubing X Type Well Single  
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Choke	Choke	Differ- ential	Flow Temp.
Date	time	Date	time				Size	Station Press.		
10-5	AM	10-6	AM	21	POSITIVE CHOKE Nipples		.375	328		63
	4:00 PM		1:00 PM							

Choke

FLOW CALCULATIONS

Static Pressure P <sub>r</sub>	Differ- ential h <sub>w</sub>	Meter Extension √P <sub>r</sub> h <sub>w</sub>	24-Hour Coeff- icient	Gravity Factor F <sub>g</sub>	Temp. Factor F <sub>t</sub>	Compress- ability F <sub>pv</sub>	Rate of Flow MCF/Da. @ 15.025 psia Q
341.2			3.0300	.9608	.9971	1.033	1,023

SHUT-IN DATA

FLOW DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P <sub>c</sub> ) psia		W.H. Working Pressure (P <sub>w</sub> ) and (P <sub>t</sub> ) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
10-6	AM	10-9	AM	72	433.2		341.2	
	1:00 PM		1:00 PM					

FRICTION CALCULATIONS(if necessary)

$$P_w^2 = 341.2^2 + (9.936 \times 1.023)^2 (.122) = 129.0$$

SUMMARY

$$P_c = 433.2 \text{ psia}$$

$$Q = 1,023 \text{ MCF/Da.}$$

$$P_w = 359.2 \text{ psia}$$

$$P_d = 346.6 \text{ psia}$$

$$D = 1141 \text{ MCF/Da.}$$

DELIVERABILITY CALCULATIONS

$$P_w 359.2 \quad P_c 433.2 \quad P_w + P_c .8292$$

$$1 - \frac{P_w}{P_c} .1708 \quad 1 + \frac{P_w}{P_c} 1.829 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M .3124$$

$$.36 + M 1.152 \quad \text{Log } .06115 \quad x (n) .771 ** = .04738 +$$

$$\text{Log } Q = 3.00987$$

$$\text{Log } D = 3.05725$$

$$\text{Antilog } = 1141. = D$$

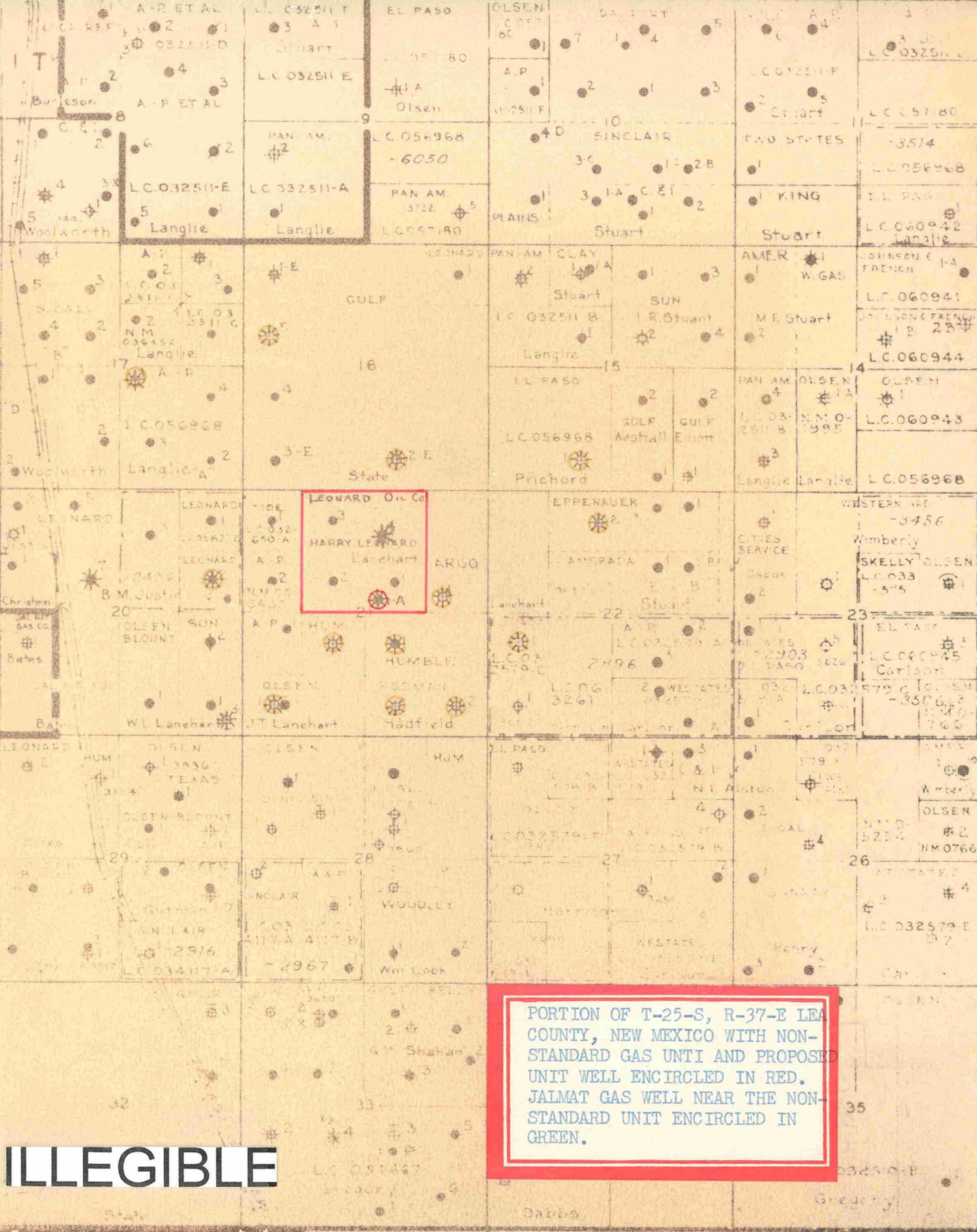
COMPANY Leonard Oil Co.  
ADDRESS P.O. Box 706, Roswell, New Mexico  
AGENT and TITLE Fowler Hix, Gen. Manager  
WITNESSED Herbert H. Lerby  
COMPANY El Paso Natural Gas Co.

REMARKS

\* Deliverability Test data calculated from 21 hour point on Multi-Point Test dated 10-5-6-1959  
\*\* Average Jalmat Slope

# 7





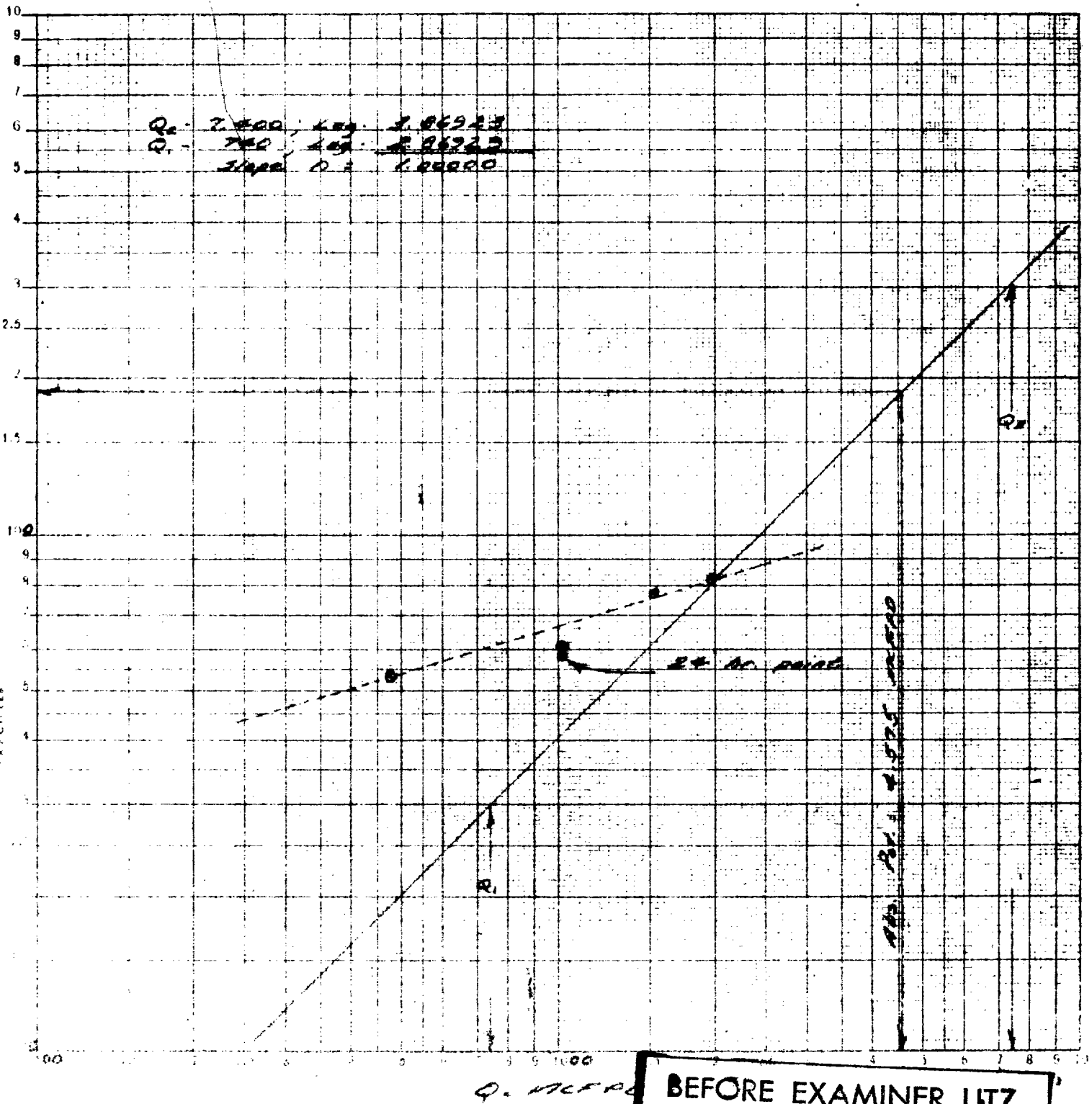
ILLEGIBLE

BEFORE EXAMINER UTZ  
OIL CONSERVATION COMMISSION  
APP. EXHIBIT NO. 1  
CASE NO. 1815

LEONARD OIL CO.  
 LAURENART 1-A  
 UNIT G, SEC. 21-25-37; LEA CO., N.M.  
 10. 7. 59

$P_e - P_w$  (xhonds)

LOGARITHMIC 355-110  
 DEUTERIO-ESRACO



BEFORE EXAMINER UTZ  
 OIL CONSERVATION COMMISSION  
 DPP, EXHIBIT NO. 3  
 CASE NO. 1815

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-14

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalnat Formation Yates County Lea

Initial Annual Special X Date of Test 10-5/10-6-59

Company Leonard Oil Company Lease Lanshart Well No. 1-A

Unit G Sec. 21 Twp. 25 Rge. 37 Purchaser None

Casing 7 Wt. 20 I.D. Set at 2755 Perf. To

5 1/2 Liner 2704-3113

Tubing 8 Wt. I.D. Set at 2910 Perf. To

(Assumed)

Gas Pay: From 3094 To 3110 L 2910 xG .650 -GL 1891 Bar.Press. 13.2

Producing Thru: Casing Tubing X Type Well Single

Date of Completion: 9-30-55 Packer 2910 Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.

OBSERVED DATA

Tested Through (Packer) (Choke) (Packer) Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Choke) (Packer) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>2910</u>				<u>72</u>
1.	<u>2</u>	<u>250</u>	<u>319</u>		<u>64</u>	<u>319</u>				<u>3</u>
2.	<u>2</u>	<u>375</u>	<u>325</u>		<u>63</u>	<u>325</u>				<u>3</u>
3.	<u>2</u>	<u>500</u>	<u>272</u>		<u>65</u>	<u>272</u>				<u>3</u>
4.	<u>2</u>	<u>625</u>	<u>223</u>		<u>61</u>	<u>223</u>				<u>3</u>
5.	<u>2</u>	<u>375</u>	<u>328</u>		<u>63</u>	<u>328</u>				<u>21</u>

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>1.3309</u>		<u>362.2</u>	<u>.9962</u>	<u>.9608</u>	<u>1.036</u>	<u>178.0</u>
2.	<u>3.0300</u>		<u>338.2</u>	<u>.9971</u>	<u>.9608</u>	<u>1.033</u>	<u>1014</u>
3.	<u>5.4315</u>		<u>285.2</u>	<u>.9952</u>	<u>.9608</u>	<u>1.027</u>	<u>3520</u>
4.	<u>5.5117</u>		<u>236.2</u>	<u>.9990</u>	<u>.9608</u>	<u>1.023</u>	<u>1980</u>
5.	<u>3.0300</u>		<u>311.2</u>	<u>.9971</u>	<u>.9608</u>	<u>1.033</u>	<u>1023</u>

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \* cf/bbl.

Gravity of Liquid Hydrocarbons  deg.

P<sub>c</sub> 9.936 (1-e<sup>-8</sup>) .122

Specific Gravity Separator Gas

Specific Gravity Flowing Fluid

P<sub>c</sub> 133.2 P<sub>c</sub> 187.7

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-8</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> /P <sub>c</sub>
1.	<u>362.2</u>	<u>131.2</u>	<u>4.750</u>	<u>22.56</u>	<u>2.752</u>	<u>133.9</u>	<u>53.8</u>	<u>365.9</u>	<u>.81</u>
2.	<u>338.2</u>	<u>114.4</u>	<u>10.07</u>	<u>101.4</u>	<u>12.37</u>	<u>126.8</u>	<u>60.9</u>	<u>356.1</u>	<u>.82</u>
3.	<u>285.2</u>	<u>81.3</u>	<u>15.10</u>	<u>228.0</u>	<u>27.82</u>	<u>102.1</u>	<u>78.6</u>	<u>330.3</u>	<u>.76</u>
4.	<u>236.2</u>	<u>55.8</u>	<u>19.67</u>	<u>386.9</u>	<u>17.20</u>	<u>103.0</u>	<u>81.7</u>	<u>320.9</u>	<u>.74</u>
5.	<u>311.2</u>	<u>116.4</u>	<u>10.16</u>	<u>103.2</u>	<u>12.59</u>	<u>129.0</u>	<u>58.7</u>	<u>359.2</u>	<u>.82</u>

Absolute Potential: 4.575 MCFPD; n 1.000

COMPANY Leonard Oil Company

ADDRESS Box 708, Roswell, New Mexico

AGENT and TITLE Fowler Hix - General Manager

WITNESSED H.H. Kerby

COMPANY El Paso Natural Gas Company

REMARKS

\* The well produced a slight amount of fluid - unable to measure. If well is tied into system, a complete test will be conducted

Plot point alignment, but slope greater than 1.000 slope of 1.000 drawn thru point corresponding with highest rate of flow.



**NEW MEXICO OIL CONSERVATION COMMISSION**  
**One-point Back Pressure Test for Gas Wells**  
**(Deliverability)**

Form C-122-C  
4-1-54

Pool Jalnet Formation Yates County Lea  
Initial Annual Special X Date of test 10-5/10-6-59 \*  
Company Leonard Oil Co. Lease Janshart Well No. 1-A  
Unit G Sec. 21 Twp. 25 Rge. 37 Purchaser None  
Casing 7 Wt. 20.0 I.D. Set at 2755 Perf. To  
Tubing 2 Wt. 4.7 I.D. 1.995 Set at 2910 Perf. To  
Gas Pay: From 3094 To 3110 L 2910 x G .650 = GL 1891 Bar. Press. 13.2  
Producing Thru: Casing Tubing X Type Well Single  
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA									
Started		Taken		Duration Hours	Type Taps	Line Size	Choke	Choke	Flow Temp.
Date	time	Date	time				Size	Press.	
10-5	AM	10-6	AM	21	POSITIVE CHOKES Nipples		.375	328	63
	4:00 PM		1:00 PM						

FLOW CALCULATIONS							
Choke Pressure P <sub>r</sub>	Differ- ential h <sub>w</sub>	Meter Extension √P <sub>r</sub> h <sub>w</sub>	24-Hour Coeff- icient	Gravity Factor F <sub>g</sub>	Temp. Factor F <sub>t</sub>	Compress- ability F <sub>pv</sub>	Rate of Flow MCF/Da. @ 15.025 psia Q
341.2			3.0300	.9608	.9971	1.033	1,023

SHUT-IN DATA					FLOW DATA			
Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P <sub>c</sub> ) psia		W.H. Working Pressure (P <sub>w</sub> ) and (P <sub>t</sub> ) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
10-6	AM	10-9	AM	72	433.2		341.2	
	1:00 PM		1:00 PM					

FRICTION CALCULATIONS(if necessary)

$$P_w^2 = 341.2^2 + (9.936 \times 1.023)^2 (.122) = 129.0$$

DELIVERABILITY CALCULATIONS

$$P_w \ 359.2 \quad P_c \ 433.2 \quad P_w + P_c \ .8292$$

$$1 - \frac{P_w}{P_c} \ .1708 \quad 1 + \frac{P_w}{P_c} \ 1.829 \quad \left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M \ .3124$$

$$.36 + M \ 1.152 \quad \text{Log} \ .06145 \quad x (n) \ .771 ** \quad = \ .04738 \quad +$$

SUMMARY

$$P_c = 433.2 \text{ psia}$$

$$Q = 1,023 \text{ MCF/Da.}$$

$$P_w = 359.2 \text{ psia}$$

$$P_d = 346.6 \text{ psia}$$

$$D = 111.1 \text{ MCF/Da.}$$

COMPANY Leonard Oil Co.  
ADDRESS P.O. Box 708, Roswell, New Mexico  
AGENT and TITLE Forster Hix, Gen. Manager  
WITNESSED Herbert H. Kirby  
COMPANY El Paso Natural Gas Co.

$$\text{Log } Q = 3.00987$$

$$\text{Log } D = 3.05725$$

$$\text{Antilog} = 111.1 = D$$

REMARKS

\* Deliverability Test data calculated from 21 hour point on Multi-Point Test dated 10-5-6-1959  
\*\* Average Jalnet Slope

# NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122  
Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool                      Jalmat                      Formation                      Yates                      County                      Lea                     

Initial                      Annual                      Special                      X                      Date of Test 10-5-10-6-55

Company Leonard Oil Company Lease                      Lambhart                      Well No. 1-1

Unit G Sec. 21 Twp. 25 Rge. 37 Purchaser None

Casing 7 Wt. 20 I.D.                      Set at 2755 Perf.                      To                     

Tubing 2 Wt.                      I.D.                      Set at 2910 Perf.                      To                     

Gas Pay: From 3094 To 3130 L 2910 xG .650 GL 1691 Bar. Press. 13.2

Producing Thru: Casing                      Tubing                      X                      Type Well Single

Date of Completion: 9-30-55 Packer 2910 Single-Bradenham G. G. or G.O. Dual                      Reservoir Temp.                     

### OBSERVED DATA

Tested Through (Packer) (Choke) (Tubing)

Type Taps                     

No.	Pipe Data		Tubing Data			Casing Data		Duration of Flow Hr.
	(Packer) (Line) Size	(Choke) (Tubing) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	
1.	2	250	348		64	348		72
2.	2	375	325		63	325		
3.	2	500	272		65	272		
4.	2	625	223		64	223		
5.	2	375	328		63	328		21

### FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.	1.3309		362.2	.9962	.9608	1.036	178.2
2.	3.0300		338.2	.9971	.9608	1.033	161.1
3.	5.4315		285.2	.9952	.9608	1.027	232.0
4.	5.5417		236.2	.9990	.9608	1.023	198.0
5.	3.0300		311.2	.9971	.9608	1.033	162.1

### PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio                      \*                      cf/bbl.

Gravity of Liquid Hydrocarbons                      deg.

P<sub>c</sub> 9.936 (1-e<sup>-B</sup>) .122

Specific Gravity Separator Gas                     

Specific Gravity Flowing Fluid                     

P<sub>c</sub> 133.2 P<sub>c</sub> 187.7

No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	P <sub>c</sub> Q	(P <sub>c</sub> Q) <sup>2</sup>	(P <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-B</sup> )	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>c</sub>
1.	362.2	131.2	4.750	22.56	2.752	133.9	53.8	365.9	131.2
2.	338.2	114.4	10.07	101.4	12.37	126.8	60.9	356.1	114.4
3.	285.2	81.3	15.10	228.0	27.82	109.1	78.6	330.3	81.3
4.	236.2	55.8	19.67	386.9	47.20	103.0	84.7	320.9	55.8
5.	311.2	116.4	10.16	103.2	12.54	129.0	58.7	359.2	116.4

Specific Potential: 4.575 MCFPD; n 1.000

Company Leonard Oil Company

Address Box 104, Roswell, New Mexico

Agent and Title Fowler Hix - General Manager

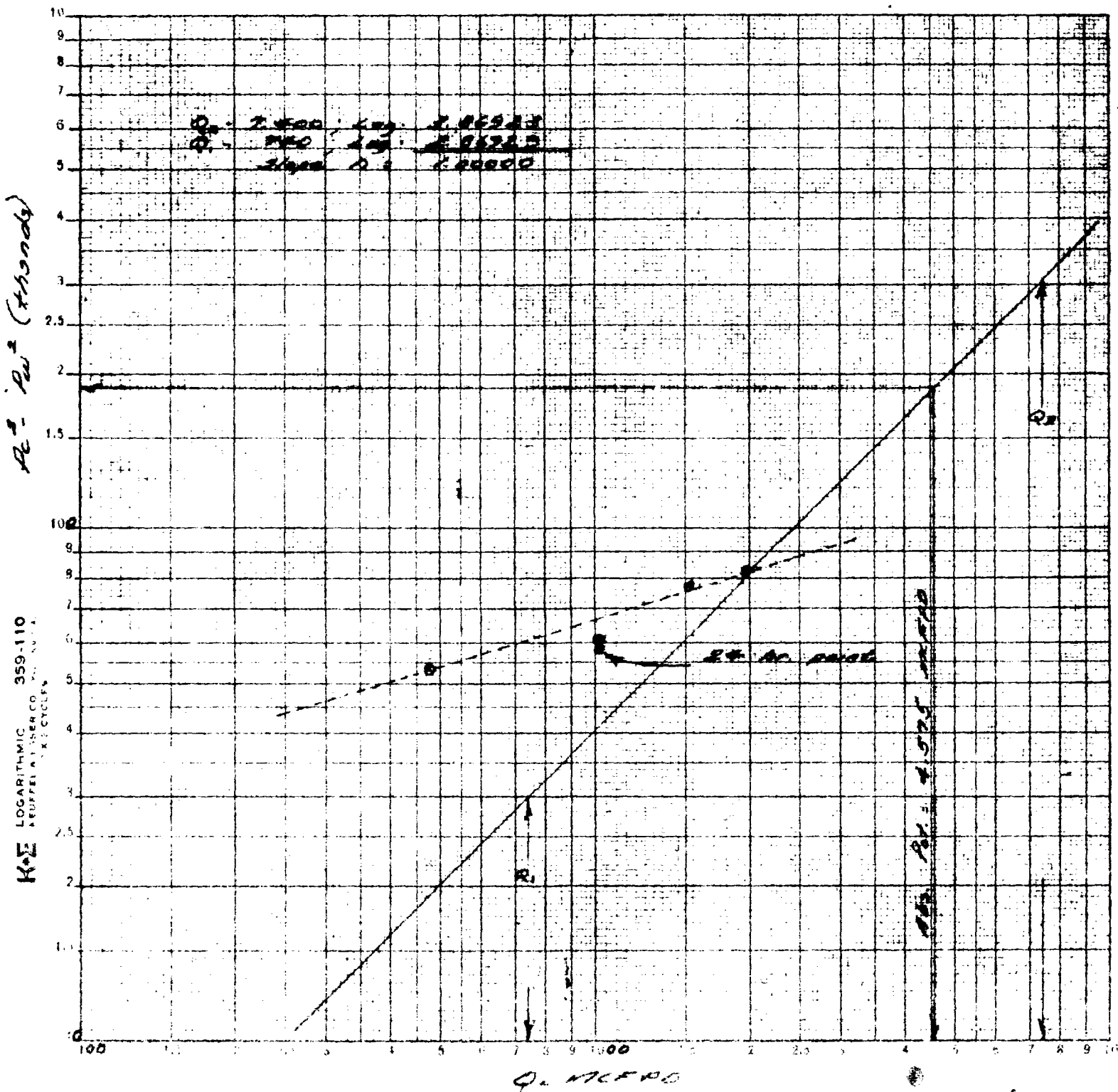
Witnessed E.E. Korte

Company El Paso Natural Gas Company

\* The well produced a slight amount of fluid - unable to measure. If well is tied into system, a complete test will be conducted.

Flow points alignment, but slope greater than 1/1000 slope of 1/1000 drawn thru point corresponding with highest rate of flow.

LEONARD ON CO.  
 LANEHART 1-A  
 UNIT 6, SEC. 21-25-37; LEA CO., N.M.  
 10.7.59





# Leonard Oil Company

BOX 708

Roswell, New Mexico

November 2, 1959

ROBERT J. LEONARD  
PRESIDENT

New Mexico Oil Conservation Commission  
P.O. Box 371  
Santa Fe, New Mexico

Gentlemen:

Please find enclosed three copies of our application for an unorthodox gas well location and for its approval as the unit gas well for a non-standard gas proration unit. This unit has already been approved by the Oil Conservation Committee.

Very truly yours,

LEONARD OIL COMPANY

*Howler Ship*

General Manager

/m

enc.

*Handwritten:*  
Mailed  
Nov. 12, 1959  
*[Signature]*

DOCKET: EXAMINER HEARING NOVEMBER 24, 1959Oil Conservation Commission - 9 a.m., Mabry Hall, State Capitol, Santa Fe, New Mexico

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

- CASE 1811: Application of The Atlantic Refining Company for permission to commingle the production from three separate pools from three separate leases. Applicant, in the above-styled cause, seeks an order authorizing it to commingle the Tubb, Blinebry, and Drinkard production from three Federal leases in Section 14, Township 25 South, Range 37 East, Lea County, New Mexico.
- CASE 1812: Application of Gulf Oil Corporation for permission to commingle the production from two separate leases. Applicant, in the above-styled cause, seeks permission to commingle the production from the Eumont Pool from its Ramsay (NCT-D) Lease consisting of the NE/4 of Section 31 and from its Ramsay (NCT-J) Lease consisting of the SW/4 SW/4 of Section 25, both in Township 20 South, Range 37 East, Lea County, New Mexico.
- CASE 1813: Application of Gulf Oil Corporation for a gas-oil dual completion and for permission to commingle the production from two separate pools. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its Travis Well No. 1, located 1980 feet from the South line and 660 feet from the East line of Section 21, Township 23 South, Range 37 East, Lea County, New Mexico, in such a manner as to permit the production of gas from an undesignated Abo gas pool and the production of oil from the Teague Pool. Applicant further seeks permission to commingle the oil produced from the Teague Pool from said well with the distillate produced from an undesignated Abo gas pool from said well.
- CASE 1814: Application of Leonard Latch for two water flood projects. Applicant, in the above-styled cause, seeks an order authorizing it to institute two water flood projects in the Empire Pool in Eddy County, New Mexico. In one project, applicant proposes to inject water into the Seven Rivers formation through ten wells located in the N/2 of Section 19, Township 17 South, Range 28 East. In the other project, applicant proposes to inject water into the Seven Rivers formation through seven wells located in the S/2 SE/4 of Section 12 and the NE/4 of Section 13, Township 17 South, Range 27 East.
- CASE 1815: Application of Leonard Oil Company for an unorthodox gas well location. Applicant, in the above-styled cause, seeks an order authorizing an unorthodox gas well location in the Jalmat Gas Pool at a point 2310 feet from the North and East lines of Section 21, Township 25 South, Range 37 East, Lea County, New Mexico. Applicant proposes that said well serve as the unit well for a non-standard gas proration unit in the Jalmat Gas Pool consisting of the E/2 NW/4 and W/2 NE/4 of said Section 21.
- CASE 1816: Application of Shell Oil Company for permission to commingle the production from several separate pools from several separate leases. Applicant, in the above-styled cause, seeks permission to commingle the production from an undesignated Atoka pool and an undesignated San Andres pool from two separate leases in Sections 23, 26, and 35, Township 19 South, Range 35 East, Lea County, New Mexico, and to transport said production from said leases

prior to measurement and to commingle such production with the commingled Pearl-Queen production authorized by Order No. R-1101. Applicant further seeks authorization to expand the automatic custody transfer system authorized by said Order No. R-1101.

- CASE 1817: Application of Sunray Mid-Continent Oil Company for an automatic custody transfer system and for permission to produce more than sixteen wells into 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 Bisti-Lower Gallup Oil Pool wells on its Central Bisti Unit comprising certain acreage in Townships 25 and 26 North, Range 12 West, San Juan County, New Mexico.
- CASE 1818: Application of Texaco Inc., for a gas-oil dual completion. Applicant, in the above-styled cause, seeks an order authorizing the dual completion of its State "BN" Well No. 1, located in the NW/4 SW/4 of Section 25, Township 11 South, Range 32 East, Lea County, New Mexico, in such a manner as to produce gas from the Moore-Wolfcamp Gas Pool and to produce oil from the Moore-Pennsylvanian Pool through the casing-tubing annulus and tubing respectively.
- CASE 1819: Application of Hamilton Dome Oil Company, Ltd., for an order authorizing the commingling of production from two separate pools. Applicant, in the above-styled cause, seeks permission to commingle the Blinebry and Tubb production from a lease consisting of the S/2 SE/4 of Section 25, Township 25 South, Range 37 East, Lea County, New Mexico.
- CASE 1820: Application of Carper Drilling Company, Inc., and T. J. Sivley for permission to commingle the production from two separate leases. Applicant, in the above-styled cause, seeks permission to commingle the Empire-Abo Pool production from that portion of State Lease B-1483 consisting of lot 2 of Section 2 and that portion of State lease 2029 consisting of lot 3 of said Section 2, Township 18 South, Range 27 East, Eddy County, New Mexico.
- CASE 1821: Application of Cities Service Oil Company for establishment of a water flood project allowable. Applicant, in the above-styled cause, seeks an order establishing a project allowable for its Drickey Queen Sand Unit in Chaves County, New Mexico, and providing for the conversion of wells to water injection at the operator's election.
- CASE 1822: Application of Cities Service Oil Company for approval of automatic custody transfer facilities. Applicant, in the above-styled cause, seeks an order authorizing the installation of automatic custody transfer facilities to handle the Caprock-Queen Pool production from the Drickey Queen Sand Unit in Chaves County, New Mexico.



OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

Date 11-27-59

CASE

1815

Hearing Date

11-25-59

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

Grant Leonard Oil as follows:

1. Permit change in well dedication for  
N 3/4 P-19, consisting of W/2 NW and E/2 NE sec.  
21-255-37 E. Present well is Leonard-  
Lamark # 4. ~~Although~~ Leonard-  
Lamark # 1-A, 2310/N 2310/E line of sec. 21  
255-37 E to be the unit well.
2. The # 1-A well must be completed in  
the 3100 foot zone of Jalmat pool.  
in order to be dedicated.

*Christl*