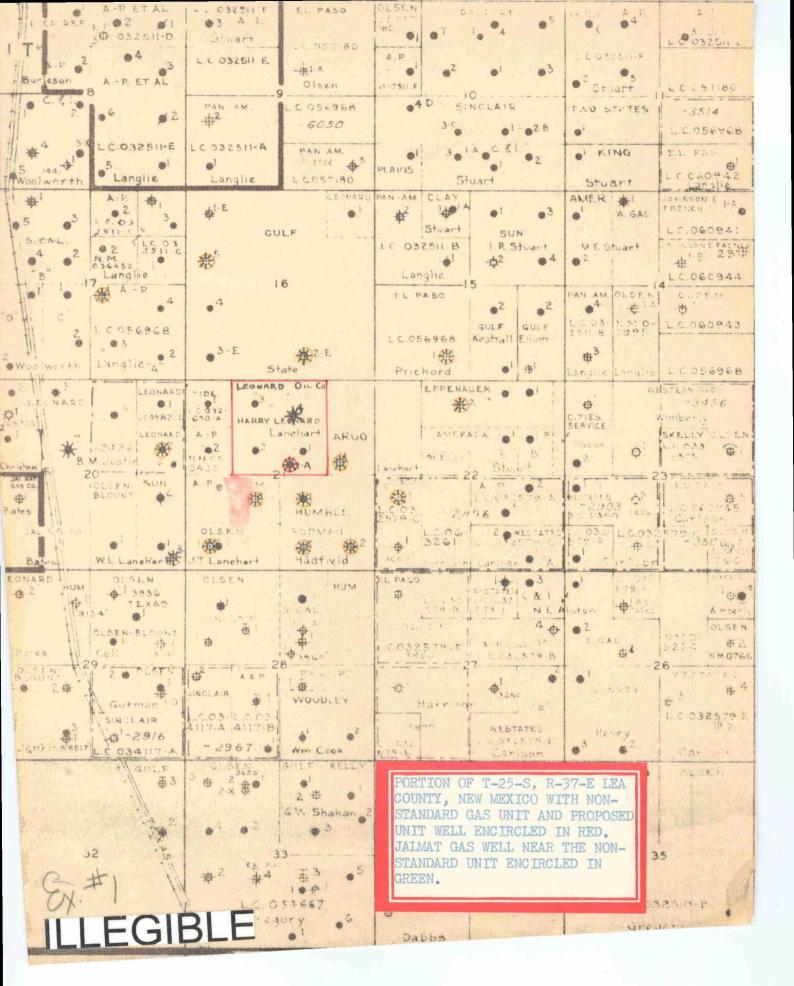
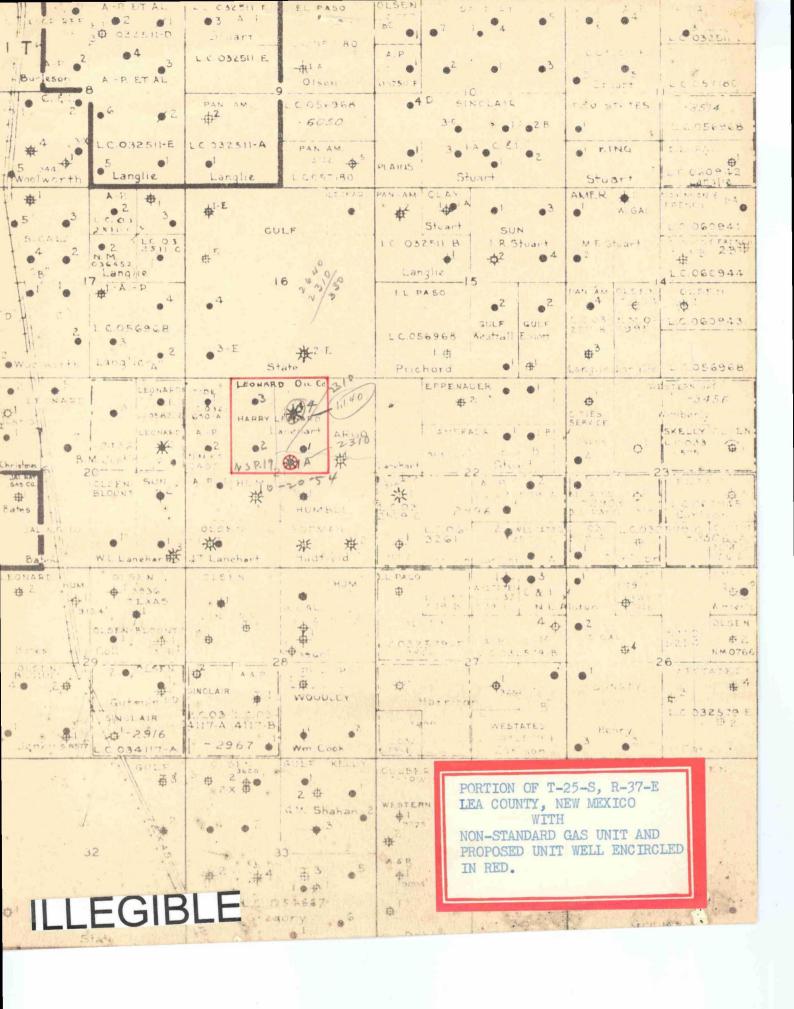
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				SIMULT				
EXCHANGE	ROR		fami	na Ka		-Heutron		
	СОМ	PANY.	LEONARI	OIL CO	•	Location of Well 2310'F N & E/L Sec.21-255-37E		
Mattix # 1-A Oil Co	WELL		LANEHA	RT # 1-A		360.21-233-312		
cea Langlie Lanchar	FIELD			E MATTIX		GRN		
	LOCA	LOCATION SEC 21-255-37E Elevation: D.F.: K.B.:						
COUNTY- FIELD or LOCATION WELL- COMPANY	COU	NTY	LEA			CEE or G.L.:		
8 8 8 8	STAT	E	NEW ME	X1C0		FILING No.		
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	J.	ļ	1 -					
Date			9-30-5					
				7'Aby.GL		SCA AGENTED BIT7		
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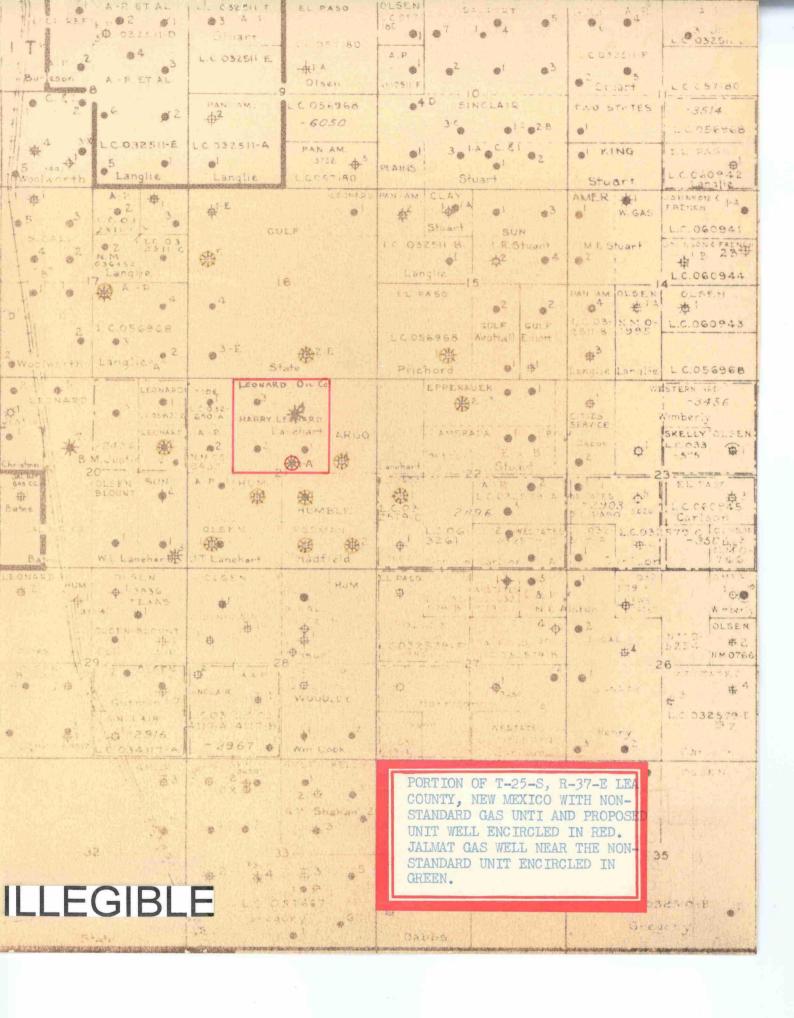
new agains out commension commission One-point Back Fressure Test for Gas Walls (Deliverability)

Pora V-122-0

			(Deliverabil	TCA				4~]	l=54
(0)	James t	f o	rmation .	Yates		Cou	mt y _	Lea		
illai _	Azoral			Special A Date of test Lease Isnehart Rge. 37 Purchaser Nume					10-6-59 *	
mpany	Leonard (il) Co.		A80	mehari	6		Wel	1 No 1	-4
11t _ G	Sec,	21 Twp.	25 R	ge. <u>37</u>	Purcha	ser	Neme			
laing	1 //t	0.0 I.D	•	Set at <u>2/22</u>	<u> </u>	Per	T		To	
ihina	2 Min	11.7 T D	1.005	Sat at 2910	1	Par	₽		T^	
s Pay: F	rom <u>309</u> 1	To	3110 :	L 2910	x G	650	= GL	1891	Bar.Pr	355. 13.
roducing	Thru: Ca	sing	_Tubing_	I Type	Well_	<u>51</u>	ngle			
	····				Sing	le- Br	edenhead	-G.G. or	G.O. Du	<u>u</u>
			·	FLOW DA	P.A		C11			
Star	ted	Tak	en	Duration	Type	Line	XIII COS	Choke	Differ-	Flow
Date	time	Date	time	Hours		Şize		Press.	ential	Temp.
					- 45-					
10-5	MA	10-6	AM	21		TVE C	1 .	200		(0
	1		3.00		NI	bbrez	•375	328		63
	ц: 00 РМ	L	1:00 PM			<u></u>				<u> </u>
Choice				FLOW CALCUL	ATIONS					
Bietie	Differ-	Meter	24-Hour		Tem		ompress-	Rat	e of Flor	rf
Pressure	ential	Extension	Coeff-		Fact		ability	MCF/Da	. 9 15.02	25 psia
Pr	h.	VP _f h _w	icient	Fg	Pt	.	Fpv		Q	
	-	1-1 4	+		 			+		· · · · · · · · · · · · · · · · · · ·
341.2			3.0300	•96 08	•997	l :	1.033	1,α	23	
•			SHUT-IN	ATAG					LOW DATA	
Shut	t-in	Press	. Taken	Duration	Well	head F	ressure		rking Pro	essure
Date	Time	Date	Time	Hours	(P	c) psi	.a.	(Pw)a	nd(Pt)psi	la
				-			Casing		Ca	
			†							
10-6	MA	10-9	MA	72	433.	.2		341.2		
					1.	l	•		1	
	1:00 PM	<u> </u>	1:00 PM	1	<u> </u>					
,	PI	RICTION CA	CULATION:	S(if necessa	arv)				SUMMARY	•
•	_		•	,				1		•
Pv² =	341.2" +	(9.936×1)	1.023)2	(.122) = 129	7.0			$- P_c = -$	433.2	psid
								_ Q =	1,023	_MCF/Da.
	-	Yest Timelia	********* A.**	TOTAL AMENDA					350 2	
		DELTABLE	BILLITI CA	LCULATIONS	2			w -	359.2	psi
359.2		Pc4	33.2	P _W + P ₀	c .825	72		_ P _d = _	346.6	psid
P		P _W	1.	Pw / /2 P	. l	•		D =	11/1	_MCF/Da
P .1	1708	1+ p 1.0	329	P (1+ P	- = M	.31	24	_ []		_ HOI / DG
36 + M_	1,152	Log	.061	5 x	(n) _	.771	**	*	.04738	
~~~	<b>T</b>						Ta	g Q =	3.00987	
MPANY		rd Oil Co. Sox 706. R	11 M-	Wari oo			- 10	R A		****
doress —	7. 4. 55.		1.00					g D =	3_05725	
ENT and		owler Hiz		ALT CI			-  10		<u> </u>	· · · · · · · · · · · · · · · · · · ·
ITHESSED		L Pago Mat		3a.	·····	····	Antilo	a = 1	iili.	

* Deliverability Test data calculated from 21 hour point on Multi-Point Test dated 10-5-6-1959
** Everage Jaluat Slope

# 7

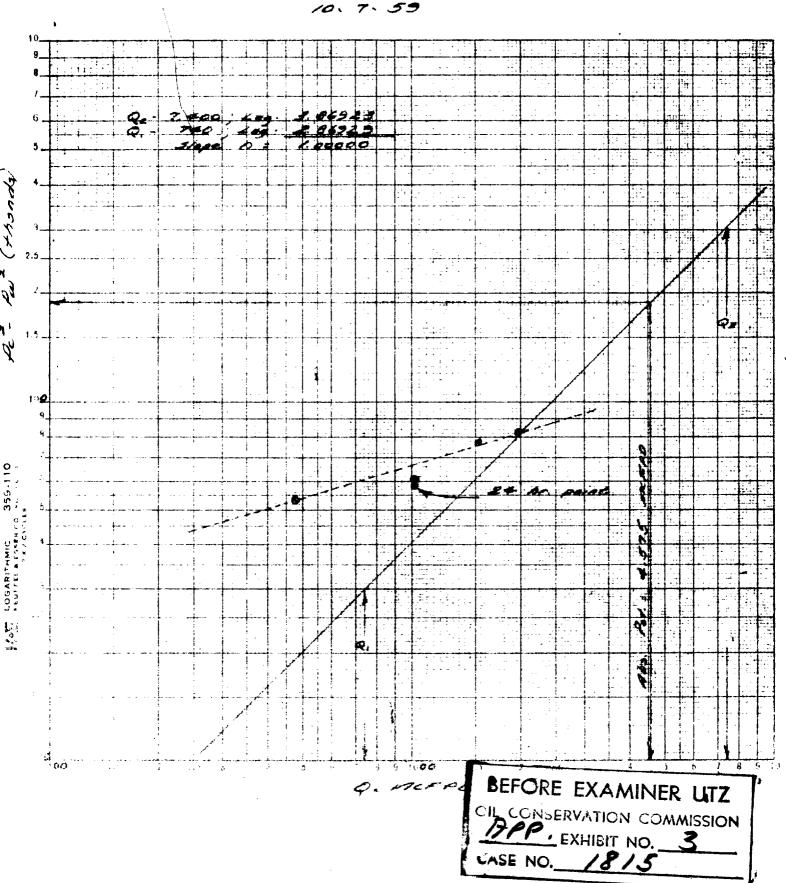


LEONARD ON CO.

LANKWART 1-A

UNIT G, SEC. 21-25-37; LEA CO., N.M.

10-7-59



### NEW MEXICO OIL CONSERVATION COMMISSION

				MULTI	-POINT B	ACK PRES	Sure tes	T FOR GAS	WELLS	*	VGAT20	9 75-7-3
Poo	1	lmat		F	ormation	Yat	<b>es</b>		_County	Lea		
Ini	tial		_Annua	1		Spec	ial	<u> </u>	_Date of	Test_10	-5/10-	6-59
Con	pany L	omrd	Oil Co	pany		Lease	Lancha	rt	Well	1 No	1-4	
Uni	t <u>G</u>	Sec2	1_Twp	. 2!	Rg	e. <u>37</u>	Purc	haser	None			
Cas	ing 7	tt20	I.	D	Se	t at 27	55 Pe:	rf		To		
Tub	Casing 7 Wt. 20 I.D. Set at 2755 Perf. To  54 Liner 2701-3143 Tubing 7 Mt. I.D. Set at 2910 Perf. To  (Assumed)											
Gas	Pay: From	309k	To 31	10	L 29	10 x	(Assum G .650	-GL 1	891	Bar - Pre		13,2
									<del></del>	,	* * *	
Dat	ducing Thru: e of Complet	ion:	9-30-5	5	Packe	2910	Sin	le-Brade	nhead-G.	G. or G	.O. D	
			·	<del>//</del>			ED DATA					<del></del>
Tes	ted Through	( <b>38</b> 00	<b>33</b> ) (c)	hoke)	American /	1 10	ap unin		Туре Тар	_		
								<b>K</b> -8-				
	(Freesk)	(Cho	ke)	Press.	Diff.	Temp.	Press.	Temp.	Casing D	Temp.	n ar D	uration
	(Line) Sise	Si	506) 50	psig	h _w	op.	psig	· OF	psig	op.	i () Silentin i	Hr.
'SI	2 5	1	1	310		. 64	A120				72	
2.	2 2	175		25		Company of the contract of the	A (2)			i i arati	3	
3.		500		272		65	212				3	
4:	2	-625		223 328	·	6 <u>1</u>	328				21	·
		375		220		0)	220					<u> </u>
						FLOW CAL	CULATIONS	5		5 × 6 1	1 1 seed	-1
	Coeffici	ent		Pr	ressure				Compre			
No.	(24-Hou		/h =				tor	Factor	Factor		Q-MC?	
		(1)	√ h _w p _j	- 1	psia	F	t	Fg	Fpv			25 psia
1. 2.	1.3309			1 30	52.2	9962		<u>.9608</u>	1.036		101	<u> </u>
<del>2.</del>	3.0300 5.4315	+		1 2	38.2 85.2	9971 9600 9952 9600			1.033		1520	
4.	5.5417		<del>~</del>		36.2	.99 <b>52</b> .9608			1.02	3	1980	
5.	3.0300				11.2	9971		9608	1.033		1023	
Gas ]	PRESSURE CALCULATIONS  Sas Liquid Hydrocarbon Ratio * cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid  C. 9.936 (1-e-8) .122 Pc h33.2 Pc 187.7											
?	9.936		(1.	-e ⁻⁸ )	.12			P	1,33.2	P2	187.7	
							•	<b>C</b>				7,
No -	Pt (psia)	Pt ²		1	$(F_cQ)^2$	(1	cQ) ² -e-s)	P _w 2	P _c ² -P _w ²	Ca P	1.	P _w P _C
$\mathbf{I}$	362.2	131.2		750	22.56	2.7		133.9	53.8	365	9	.81.
2.	336.2 285.2	81.3			101.h 225.0	12		126.8	60.9	356		82
3.	236.2	55.8		_	220.0 386.9	27.		103.0	78.6 81.7	320		76 7k
3.	31.1.2	116.4			103.2	12.		129.0	58.7	350		PQ.
ADDI AGE	PANY Leonard RESS Box 708	ial:   Oil C   Rosw   Fowl	4.575 omceny ell. N	ew Me:	<b>ci</b> co	_MCFPD;	n_1.00					
		H. Ker		) (c.=	Company			<del></del>	····	hantarain ampall		1200
* 2	he well produced to	luced a	sligh	t amoi	unt of A	REM	ARKS able to r	messure.	If well	is tied	Inte	W****
🖷		SO MPT	<u>سے سچہ 1</u> 00	O DELLES	ure lik			2 To 1 To 1 To 1				

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

Form C-122-C

			1	nerracing	LICY)				th1	<b>1-74</b>	
Pool	Jalmat	For	rmation _	Yates		Cor	nt <b>y</b>	Let			
Initial_		Annual	. 1802 01 011	Special	Dat	te of test 10-5/10-6-59 *					
Company	Leonard Oil Co.			Lease	meher	t	Well No. 1-4				
Init G	Sec	21Twp	25 R	ge. <u>37</u>	Purcha	ser	None				
Casing	7Wt3	20.0 I.D.	•	_Set at <u>2755</u>							
ubing	2 Wt	4.7 I.D.	1.995	Set at _2910	2	Per	f		To		
las Pay: l	Prom _309	To	3110	L <u>2910</u>	_x G	650	= GL	1891	Bar.Pro	958. 13.2	
Producing	Thru: Ca	sing	_Tubing_	Type	Well.	<u> </u>	ngle				
					Sing	tle- Br	edenhead	-G.G. or	G.O. Du	N	
				FLOW DA	7T A			_			
Star	rted	Take	en	Duration	Type	Line	Choke	Choke	Differ-	Flow	
Date	time	Date	time	Hours		Size	Size	Press.	ential	Temp.	
200	02.00		VAINO	110000					4.72	1	
10-5	HA	10-6	AM	21		LIAR C	1			1	
		1			N1	pples	.375	328		63	
	4:00 PM		1:00 PM				<u> </u>		<u> </u>	1	
Choke				FLOW CALCUL	ATTONS						
Atatie	Differ-	Meter	24-Hour	Gravity	Tem		ompress-	Rat	e of Flor		
Pressure	ential	Extension		Factor	Fact		ability		9 15.02		
Pf	h.	$\sqrt{p_f h_v}$	icient	Fg	Ft		Fpv		Q		
	- W	1,1 A					<u>bv</u>	<del></del>			
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<del></del>	<del></del>	<u></u>			<del></del>	······································		17	TOUT DAMA		
Shu	t-in	Press	SHUT-IN . Taken	Duration	Wall	head F	ressure		LOW DATA	as cura	
Date	Time	Date	Time	Hours		c) psi			nd(Pt)ps		
5400	12	1	11110	nour b	Tubi		Casing	Tubing		asing	
	<del>†</del>	1	<del> </del>	+	1.00		<u> </u>				
10-6	MA	10-9	AM	72	433	.2		341.2			
							•				
	1:00 PM	_1	1:00 PM		<u> </u>			L.,			
	E-	PTሮሞፐርN: ሮል፤	ር ሮፕ፣ፕ ልሞፕ (ነጻ	S(if necess	omr)				SUMMARY	,	
		ILICITON CA	DOUBATION	o(II Hecease	ary,				DUMMAN	•	
$Pv^2 =$	341.22 +	$(9.936 \times 1)$	L.023) ² (	( <b>.122) =</b> 129	9.0			P_=	433.2	psia	
		· <del></del>				<del></del>	<del></del>	_ Q =_	1,023	_MCF/Da.	
		Del 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DTTT <b>MS</b>	TOTAL AND TOTAL					2KB 2		
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w 359.2		P. 1/2	33.2	P_ + P	. 82	92		P =	346.6	paia.	
_							· · · · · · · · · · · · · · · · · · ·	۳ .			
_ <u>P</u>		1+ Pw	200	$-\frac{P_{W}}{}$ $\left(1+\frac{P_{1}}{}\right)$	<u>w</u> = M		21.	D =_	ביוננ	_MCF/Da.	
Pc	1708	P _c 1.0	529	$-\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}\Big \Big 1+\frac{P_{\mathbf{C}}}{P_{\mathbf{C}}}\Big $	c l	در.	.24		-1	·	
36 + H	1,152	Log	.061	5 x	'(n) _	.771	**	=	·o4738	+	
	_	,						٥	3,00087	•	
CMPARY	Legen	et 011 Co.	** **	Manta -	<del></del>		Lo	8 6 a	3.00987	•	
DO <b>MS</b> 3 —	- Pulling	Prog. 708 R	Marie No.	M SATIOO				6 D =	2.05725		
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IT THE SED		erbert I.				<del>ئۆنىدىدىدىد</del>			111.3	·	

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

Antilog : = 1112.

El Paso Matural Gas Co.

## NEW MEXICO OIL CONSERVATION CONGISSION

Porm C-188

### MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Jak	mat	P	ormation	Tate	8		County			
	1							Date of T	est_10-	5/20	4-0
•	ny Leo	mand M1	Company	T	-A.S.	Lamehar	t '	Well	No.	1-4	
_											
Unit	GSe	e. 21	Twp2	Rge		Purch	190 r	I CALL		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
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Date	of Completi	lon:	W-77	Packer	r		Webel.Ac	Tr. Tamber		,	
					OBSERV	ED DATA				•	
	d Through	/ THORSEE \	(Choke)	1	1.100			Type Tape	<b>.</b>		
IDECO							1000		e je les	State State	
-	The state of the s	COLUMN ASSESSMENT OF THE PARTY			-			Castral B Press.	110000		Duration
-	(Line)	(Choke)	(i)   11000	DIII	Tombe			edar imacus fi	maseria in the	2.4	of Flow
7	(Line) Size	Sise	psig	h _w		paig	7	barg		· · · ·	72
81						16209		STATE LANG		A (1)	4
1-1	2	250	34.9	<u> </u>	63		1970 U.B.3		1944 1 Artist		3
<del>2</del> -	<del></del>	.500	272		85	210					3
4.	2	.685	223		A Clare	27.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			60 (1) 85 (3)	21
5. 1	2	.375	328		63	328	<u> </u>		Carry Charles		
					FLOW CAL	CULATION	s		<u> </u>	2 12	
T	Coeffici	ent	I	ressure	Flow	Temp.	Gravity		88.	Maco Maco	of Flow
No.	/OL 11-11	-\	h n	psia		tor	Fg	Fpv		<b>e</b> 15	.025 psia
	(24-Hou	r) V	hwbt	362 <b>.</b> 2	.9962		•96 <b>0</b> 8	1.036	C 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		8.30
1. 2.	1.3309 3.0300			338.2	9971		<b>49608</b>	1.033		<u>an</u>	
3:1	5.1315			285,2	.9952	77.5	9608	1.027		198	
3. 4. 5.	5.51.17			236.2 341.2	.9990 .9971		9608 9608	1.033		100	
5.1	3.0300			,					n 1341 14		73
				Pf	RESSURE (	CALCULATI	ONS		• •	r	
a	iquid Hydro	on whom D	etio.		cf/bbl		Spec	ific Gravi	ty Sepa	arato	r Gas_
jas L Gravi	ty of Liqui	d Hydroc	arbons		deg		Spec	ific Gravi	ty Flor		
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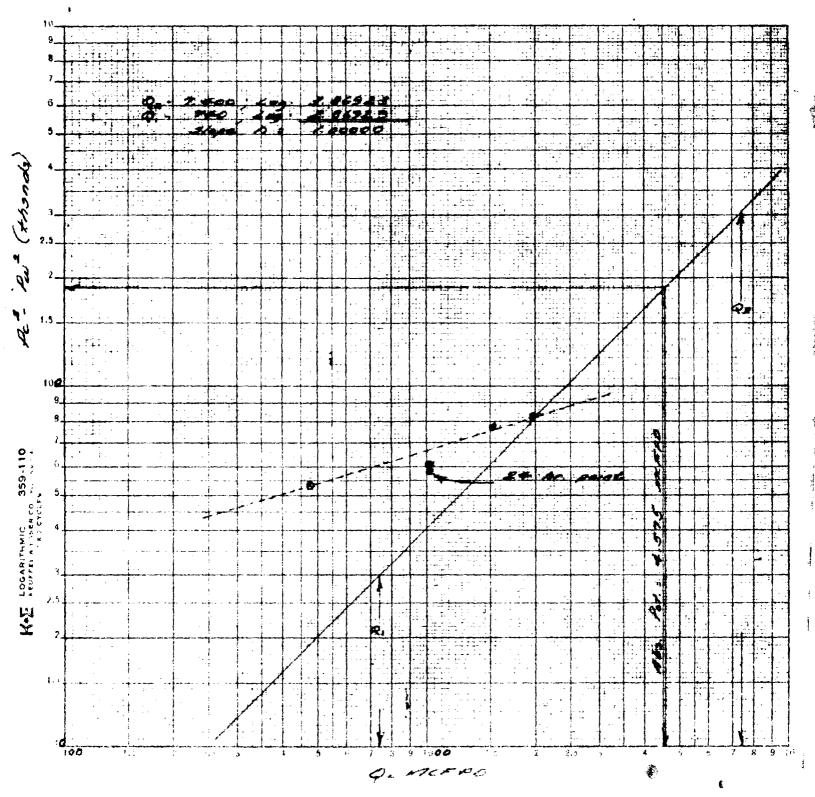
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LEONARD ON CO.

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UNIT G, SEC. 21-25-37; LEA CO., N.M.
10.7.59



Leonard Oil Company

Roswell, New Mexico

November 2, 1959:

ROBERT J. LEONARD PRESIDENT

> New Pexico Oil Conservation Commission P.O. Box 871 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

Fowler This

General Manager

/m

enc.

Mailed 12/959

#### DOCKET: EXAMINER HEARING NOVEMBER 24, 1959

### Oil 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 35 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, Les 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.

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 18198

Application of Hamilton Dome Oil Company, Ltd., for an order authorizing the commingling of production from two separate pools. Applicant, in the above-atyled 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 1820s

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_	/8/5 Hearing Date //- 25-59
	My recommendations for an order in the above numbered cases are as follows:
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10	Pramit change in well and E/2NF see.
•	Present change in well dedecation for NBP-19, consisting of W/2 NW and E/2NF see.
	21-253-3120
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