

Case 697

SOUTH BLANCO TOCITO POOL

LOWRY OPERATED WELLS

GAS-OIL RATIO TESTS

JULY 1953 THRU APRIL 1954

<u>WELL NO.</u>	<u>DATE</u>	<u>GAS-OIL RATIO</u>	<u>ACCUMULATIVE OIL PRODUCTION</u>
T-85	7-1-53	1256:1	298
	7-29-53	2199:1	788
	8-17-53	2241:1	1068
	10-31-53	1563:1	1993
	1-29-54	1383:1	3283
	2-23-54	2316:1	3629
	3-20-54	1802:1	4032
	4-20-54	1176:1	4468
T-109	7-14-53	1830:1	31,490
	7-27-53	2608:1	32,453
	8-12-53	2280:1	33,197
	10-28-53	1370:1	38,253
	11-28-53	1379:1	40,550
	12-4-53	682:1	41,016
	2-14-54	630:1	45,958
	2-21-54	694:1	46,463
	3-16-54	725:1	48,187
	4-24-54	652:1	50,628
T-125	10-28-53	1076:1	968
	1-54	1644:1	11,096
	2-20-54	1256:1	14,890
	3-54	1741:1	17,461
	4-17-54	2525:1	21,586
	4-54	2533:1	21,616
T-127	7-4-53	883:1	11,879
	8-20-53	988:1	19,225
	10-2-53	870:1	26,541
	12-4-53	789:1	36,552
	1-30-54	912:1	42,427
	2-19-54	738:1	44,636
	3-54	898:1	47,237
	4-11-54	1087:1	50,357
	4-54	1025:1	51,450
T-129	7-6-53	1173:1	31,098
	8-19-53	1129:1	38,110
	10-29-53	880:1	50,024
	12-1-53	681:1	54,923
	12-2-53	733:1	55,111
	1-29-54	841:1	61,093
	2-16-54	910:1	63,177
	3-54	897:1	65,845
	4-17-54	949:1	69,995
	4-54	966:1	70,048

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

EXHIBIT No. 2
CASE 697

GAS-OIL RATIO TESTS

<u>WELL NO.</u>	<u>DATE</u>	<u>GAS-OIL RATIO</u>	<u>ACCUMULATIVE OIL PRODUCTION</u>
T-132	7-13-53	1573:1	76,373
	7-29-53	1622:1	77,973
	8-11-53	1548:1	78,934
	10---53	855:1	85,066
	10-28-53	1653:1	85,868
	11---53	1375:1	88,353
	12-4-53	1306:1	91,340
	12---53	1177:1	92,047
	1---54	696:1	95,294
	4-13-54	628:1	105,541
T-134	7-13-53	3412:1	6,012
	7-26-53	4879:1	6,151
T-157	7-15-53	1644:1	102,293
	7-28-53	1503:1	104,295
	7-31-53	1768:1	104,806
	8-11-53	1339:1	106,150
	10-31-53	1441:1	119,822
	11-27-53	886:1	123,269
	12--4-53	739:1	124,358
	2- 8-54	910:1	130,876
	2-26-54	834:1	132,657
	3-16-54	864:1	135,008
	4-24-54	922:1	140,569
T-177	7--6-53	4483:1	19,306
	7-29-53	4577:1	23,125
	8-19-53	4128:1	26,009
	10-31-53	4313:1	33,466
	11-30-53	7252:1	35,319
	1-31-54	7712:1	37,077
	2-18-54	9683:1	37,694
T-179	7-8-53	1271:1	194,460
	8-8-53	1133:1	199,026
	10--53	1415:1	210,370
	10-29-53	1898:1	211,863
	11--53	1304:1	214,670
	12--53	1138:1	218,372
	1--54	1423:1	221,594
	2--54	1248:1	224,616
	3--54	1459:1	227,872
	4-15-54	1865:1	231,622
	4--54	1845:1	232,167

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

WELL NO. _____
CASE _____

GAS-OIL RATIO TESTS

<u>WELL NO.</u>	<u>DATE</u>	<u>GAS-OIL RATIO</u>	<u>ACCUMULATIVE OIL PRODUCTION</u>
T- 132	7-5-53	5326:1	70,874
	7-21-53	5615:1	72,463
	8-15-53	5405:1	74,575
	11-30-53	3661:1	76,747
	1-4-54	3512:1	78,499
	1-5-54	3593:1	78,609
	1-6-54	3344:1	78,731
	2-14-54 to 3-1-54	3780:1	80,872
	2-16-54	3756:1	80,978
	2-26-54	3635:1	81,080
	3-7-54	3736:1	81,307
	3-54	3755:1	81,541
	3-17-54	3750:1	81,665
	3-27-54	3628:1	82,011
	4-10-54	3642:1	82,310
	4-54	3541:1	82,456
T-207	7-6-53	2027:1	69,427
	7-21-53	2399:1	71,962
	8-13-53	2898:1	75,158
	8-23-53	2613:1	77,199
	8-26-53	2288:1	77,710
	8-27-53	2112:1	77,880
	8-28-53	2271:1	78,050
	8-31-53	2108:1	78,366
	10-53	2390:1	85,941
	10-30-53	2311:1	88,135
	12-1-53	2283:1	91,791
	1-29-54	1690:1	97,306
	2-19-54	1546:1	99,430
	2-14-54 to 3-1-54	1602:1	99,589
	3-54	1782:1	102,312
	4-54	1603:1	106,626

Page 2 - Bottomhole Pressure Tests - Datum - South Blanco Tocito Pool

<u>WELL NO.</u>	<u>DATE</u>	<u>HOURS SHUT IN</u>	<u>BOTTOMHOLE PRESSURE</u>
T-177	8-3-53	81	2041 p.s.i.
	10-7-53	199	2004 p.s.i.
	1-12-54	185	1992 p.s.i.
	4-1-54	50 days	1986 p.s.i. ✓
T-179	8-3-53	95	1969 p.s.i.
	10-19-53	116	1963 p.s.i.
	1-12-54	147	1947 p.s.i.
	4-1-54	123	1940 p.s.i.
T-182	8-3-53	89	1934 p.s.i.
	10-7-53	48 days	1922 p.s.i.
	1-12-54	136	1930 p.s.i.
	4-1-54	114	1925 p.s.i.
T-207	8-3-53	77	1903 p.s.i.
	10-7-53	171	1906 p.s.i.
	1-12-54	151	1899 p.s.i.
	4-1-54	135	1907 p.s.i.

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BOTTOMHOLE PRESSURE TESTS

Datum -100 ft.

South Blanco Tocito Pool

Rio Arriba County, N. M.

Lowry et al Operating Account

<u>WELL NO.</u>	<u>DATE</u>	<u>HOURS SHUT IN</u>	<u>BOTTOMHOLE PRESSURE</u>
T-85	8-4-53	142	1885 p.s.i.
	10-7-53	219	1892 p.s.i.
	1-13-54	191	1872 p.s.i.
	4-2-54	196	1864 p.s.i.
T-109	8-3-53	103	1826 p.s.i.
	10-5-53	152	1828 p.s.i.
	1-12-54	146	1796 p.s.i.
	4-2-54	160	1811 p.s.i.
T-123	2-3-54	70 days	2056 p.s.i.
	4-2-54	123 days	2049 p.s.i.
T-125	10-19-53	240	2108 p.s.i.
	1-12-54	131	2053 p.s.i.
	4-2-54	145	2025 p.s.i.
T-127	8-4-53	112	2091 p.s.i.
	10-5-53	76	2070 p.s.i.
	1-13-54	166	2025 p.s.i.
	4-2-54	136	2021 p.s.i.
T-129	8-4-53	111	2020 p.s.i.
	10-7-53	168	1989 p.s.i.
	1-13-54	166	1975 p.s.i.
	4-2-54	140	1981 p.s.i.
T-132	8-3-53	90	1928 p.s.i.
	10-5-53	137	1912 p.s.i.
	1-11-54	132	1893 p.s.i.
	4-2-54	146	1888 p.s.i.
T-134	8-3-53	116	1782 p.s.i.
T-157	8-4-53	82	1885 p.s.i.
	10-5-53	144	1883 p.s.i.
	1-11-54	141	1904 p.s.i.
	4-1-54	128	1905 p.s.i.

BEFORE THE
 OIL CONSERVATION COMMISSION
 SANTA FE, NEW MEXICO

Lowry EXHIBIT No. 3
 CASE 697

SOUTH BLANCO TOCITO POOL - RIO ARriba COUNTY, N.M.

PRODUCTION DATA

LOWRY OPERATED PROPERTIES

Month & Year	Monthly Oil Production, Barrels	Monthly Gas Production, M.C.F.	Gas-Oil Ratio Cu. Ft./Bbl.	Daily Average Oil Production, Barrels	Daily Average Gas Production, M.C.F.	Cumulative Oil Production, Barrels	Cumulative Gas Production, M.C.F.
<u>1953</u>							
JULY	39,490	87,591	2218	1274	2825	643,806	1,054,805
AUGUST	35,224	71,287	2024	1136	2300	679,030	1,126,092
SEPTEMBER	33,285	62,733	1885	1110	2091	712,315	1,188,825
OCTOBER	35,254	49,392	1401	1137	1593	747,569	1,238,217
NOVEMBER	33,543	52,514	1566	1118	1750	781,112	1,290,731
DECEMBER	27,897	37,886	1358	900	1222	809,009	1,328,617
<u>1954</u>							
JANUARY	26,696	38,809	1454	861	1252	835,705	1,367,426
FEBRUARY	25,032	29,208	1167	894	1043	860,737	1,396,634
MARCH	29,516	35,567	1205	952	1147	890,253	1,432,201
APRIL	35,564	48,154	1354	1185	1605	925,817	1,480,355

OIL CO. SEP 25 1954

69-9

Case 697

SOUTH BLANCO TOCITO POOL
LOWRY ET AL OPERATING ACCOUNT
WATER INJECTED-WELL NO. T-134

	<u>WATER INJECTED BBLs.</u>		<u>AVERAGE INJECTION</u>	<u>CUMULATIVE WATER INJECTION</u>
	<u>MONTHLY</u>	<u>DAILY</u>	<u>PRESSURE, p.s.i.</u>	<u>BARRELS</u>
	<u>AVERAGE</u>	<u>AVERAGE</u>		
October, 1953	14,511	468		14,511
November, 1953	41,607	1387	1875	56,118
December, 1953	46,794	1509	1890	102,912
January, 1954	44,129	1424	1950	147,041
February, 1954	27,887	996	1980	174,928
March, 1954	35,521	1146	2112	210,449
April, 1954	40,965	1366	2220	251,414
April 1 to April 15	19,607	1401	2220	271,021

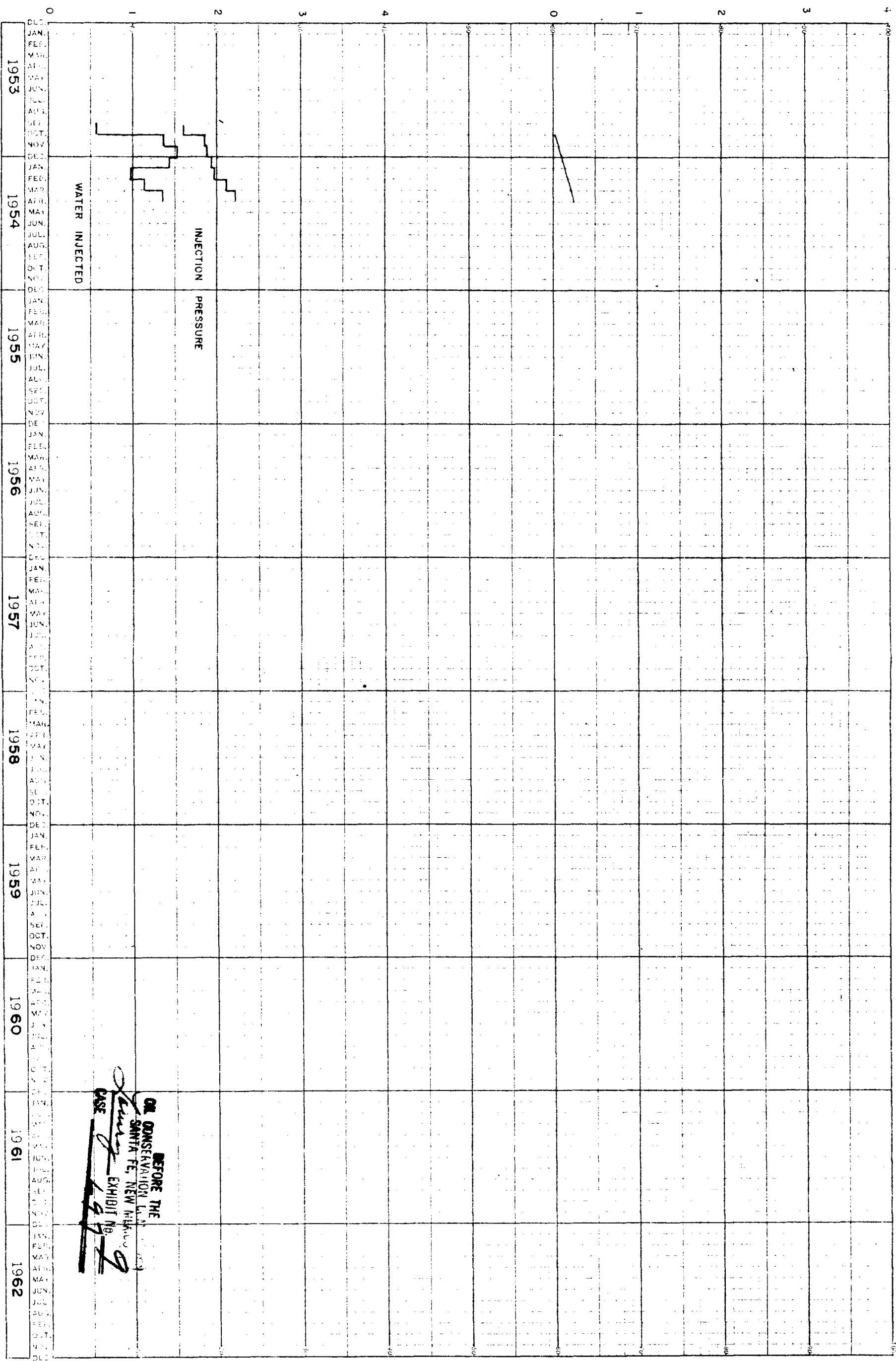
BEFORE THE
OIL CONSERVATION COM. 1954
SANTA FE, NEW MEX.
EXHIBIT NO. 8
CASE 697



Water Injection Pressure - Hundred P.S.I.
Daily Average Water Injected - Hundred Bbls.

Cumulative Water Injected
Million Barrels

WATER INJECTION WELL - LOWRY T-134
SOUTH BLANCO TOCITO POOL
Rio Arriba County, N.M.



BEFORE THE
COURT OF THE
SANTA FE, NEW MEXICO
CASE NO. 197-2

3 wells
increasing output well

SOUTH BLANCO TOCITO POOL

PRODUCTION DATA -- LOWRY WELLS

PILOT PRESSURE MAINTENANCE AREA

<u>YEAR, 1953</u>	<u>OIL PRODUCTION, BBLs.</u>		<u>GAS PRODUCTION, MCP</u>		<u>GAS-OIL RATIO</u>
	<u>MONTHLY</u>	<u>DAILY AVERAGE</u>	<u>MONTHLY</u>	<u>DAILY AVERAGE</u>	
January	20,294	655	41,539	1340	2047
February	21,900	782	45,384	1621	2072
March	20,965	676	41,616	1342	1985
April	16,832	561	35,515	1184	2110
May	19,967	644	43,985	1419	2203
June	17,914	597	41,962	1399	2342
July	18,402	594	45,627	1472	2479
August	15,963	515	35,598	1148	2230
September	14,694	490	29,094	970	1980
October	14,791	477	23,426	756	1584
November	15,044	501	25,350	845	1685
December	13,347	431	18,659	602	1398

YEAR, 1954

January	12,580	406	17,206	555	1368
February	12,779	456	13,836	494	1083
March	14,323	462	16,366	528	1143
April	16,106	537	17,433	581	1082

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 10
CASE 897

Case 697

SOUTH BLANCO TOCITO POOL
ANALYSIS OF BOTTOMHOLE PRESSURE DATA
LOWRY OPERATED WELLS

<u>BEFORE PRESSURE MAINTENANCE</u>				<u>AFTER PRESSURE MAINTENANCE</u>		
<u>WELL NO.</u>	<u>BBLs.OIL PRODUCED</u>	<u>PRESSURE DROP,p.s.i.</u>	<u>BBLs./ p.s.i.DROP</u>	<u>BBLs.OIL PRODUCED</u>	<u>PRESSURE DROP,p.s.i.</u>	<u>BBLs./ p.s.i.DROP</u>
T-109	35,086	-275	128	12,162	-17	715
T-132	78,412	-226	347	20,281	-24	845
T-157	114,029	-240	475	22,550	+22	No drop
T-182	74,469	-186	400	6,836	+3	No drop
T-207	83,036	-205	405	21,035	+1	No drop
T- 85	759	+ 7	No drop	2,560	-28	91
T-125	---	---	---	19,153	-83	231
T-127	25,940	- 38	683	22,367	-49	456
T-129	45,202	-122	370	22,316	- 8	2789
T-134	4,111	-122	34	---	---	---
T-177	30,594	- 87	352	6,633	-18	369
T-179	205,569	-234	878	20,227	-23	879

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Lowry EXHIBIT No. 11
CASE 697

Exhibit 2-4

Case # 697

COMPLETION INFORMATION

LOWRY ET AL OPERATING ACCOUNT

WELL T - 85
SOUTH BLANCO TOCITO POOL
RIO ARriba COUNTY, NEW MEXICO

<u>Location:</u>	1980 FSL, 660 FWL, Section 4, T 26N, R 6W
<u>Elevation:</u>	6,471' GL
<u>Drilling Commenced:</u>	May 6, 1953
<u>Drilling Completed:</u>	June 4, 1953
<u>Commenced Producing:</u>	June 21, 1953
<u>Surface Pipe:</u>	10-3/4" OD casing set @ 445', with 175 sks cement.
<u>Production Pipe:</u>	7" OD casing set @ 6,641' with 200 sks cement.
<u>Tubing:</u>	2" SUE set @ 6,640'.
<u>Total Depth:</u>	6,691'
<u>Acid Treatment:</u>	None
<u>Shot Record:</u>	Not shot
<u>Initial Potential:</u>	23.05 barrels of oil per day

17 BOP & at present

Exhibit 4-A
Case # 697

DIVISION OF INTEREST
LOWRY ET AL OPERATING ACCOUNT
FEDERAL LEASE NM 03551
AND
FEDERAL LEASE SF 079035-A

ROYALTY

<u>Federal Government</u>	.1250000 of 8/8
<u>Overriding Royalty and Working Interest</u>	
Doris Elaine Mims	.0009524 of 7/8
Dacresa Corp.	.0161142 of 7/8
Brookhaven Oil Corp.	.0124571 of 7/8
Robert Mims	.0009524 of 7/8
P. T. Bee	.0003810 of 7/8
S. B. Petree	.0003810 of 7/8
W. C. Smith	.0003810 of 7/8
J. W. Bartlett	.0003810 of 7/8
Frank A. Schultz	.0003810 of 7/8
R. L. Crockett	.0019048 of 7/8
Working Interest	.9657141 of 7/8

JOHNSTON OIL AND GAS COMPANY

1453 ESPERSON BLDG.

HOUSTON 2, TEXAS

June 8, 1954

Lowry Oil Company
P. O. Box 8008
Albuquerque, New Mexico

Attn: Mr. A. A. Hunt

Re: Your proposed water pressure
maintenance program. Tocito Field,
Rio Arriba County, New Mexico

Gentlemen:

We have had our engineers study your proposed plan for a full scale water injection program designed to maintain reservoir pressures in the above field and have given consideration to cooperation with you in that program by injecting water in our Rincon No. 11 well.

We have now reached the conclusion that until we have more definitely established the limits of the Tocito sand on our leases in the Rincon Unit by additional drilling, so that we can properly evaluate an overall program, it would not be wise for us to convert any well to a water injection well.

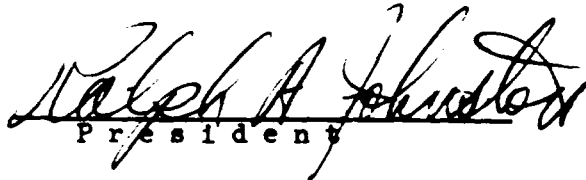
We accordingly hereby advise you that we do not at this time wish to join in a cooperative water injection program.

However, we have no objection to your proceeding to inject water in any of the Tocito wells operated by you, and hereby authorize you to file a copy of this letter with the New Mexico Conservation Commission to record our attitude in the matter.

Very truly yours,

JOHNSTON OIL AND GAS COMPANY

By


President