

JUSTIS POOL INTERFERENCE TESTS

PART I

SHUT-IN PRESSURES, PSIG

Wells Shut-in @ 9:00 A.M., Monday, July 15, 1957.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Carroll EXHIBIT No. 2
CASE 1783

Date and Time of Shut-in Pressures	El Paso Natural Gas Company Carlson Federal #1-B Tbg. Csg.	Westates Pet. Corp. Carlson Federal #1-A Tbg. Csg.	R. Olsen Oil Co. Wimberly #1 Tbg. Csg.	Gulf Oil Corp. Arnott Ramsey F-3 Tbg. Csg.	Tidewater Assoc. Oil Coates C-1 Tbg. Tbg.	Western Natural Gas Eaton B-1 Tbg. csg.		
July 15 - 12 hours	1693	1749	1709	1737	1630	1769	1621	917
July 16 - 24 hours	1694	1754	1709	1738	1631	1779	1622	925
July 16 - 36 hours	1696	1756	1710	1740	1632	1783	1623	932
July 17 - 48 hours	1697	1758	1713	1743	1632	1786	1624	937
July 17 - 60 hours	1697	1759	1714	1744	1633	1789	1625	941
July 18 - 72 hours	1698	1761	1711	1739	1633	1794	1626	944
July 18 - 84 hours	1699	1761	1711	1739	1633	1796	1626	948
July 19 - 96 hours	1699	1762	1711	1739	1633	1798	1626	950
July 19 - 108 hours	1699	1762	1711	1739	1633	1799	1626	952
July 20 - 120 hours	1699	1763	1711	1739	1633	1801	1626	954
July 20 - 132 hours	1700	1763	1712	1740	1633	1801	1627	956
July 21 - 144 hours	1701	1764	1713	1741	1634	1802	1628	958
July 21 - 156 hours	1700	1764	1713	1740	1634	1803	1631	959
July 22 - 168 hours	1699	1765	1713	1740	1634	1805	1637	960
July 22 - 180 hours	1698	1766	1713	1740	1634	1806	1635	962
July 23 - 192 hours	1697	1766	1713	1740	1635	1807	1633	963
July 23 - 204 hours	1696	1765	1713	1740	1634	1807	1635	964
July 24 - 216 hours	1694	1765	1713	1740	1634	1808	1636	966
July 24 - 228 hours	1692	1766	1713	1740	1635	1808	1635	966
July 25 - 240 hours	1691	1767	1713	1740	1635	1809	1634	967
July 25 - 252 hours	1690	1768	1713	1740	1635	1809	1632	968
July 26 - 264 hours	1690	1769	1713	1741	1635	1810	1631	969
July 26 - 276 hours								
July 27 - 288 hours	1687	1769	1713	1740	1635	1810	1632	971
July 27 - 300 hours	1685	1769	1714	1740	1636	1811	1632	972
July 28 - 312 hours	1684	1769	1716	1743	1638	1812	1634	972
July 28 - 324 hours	1683	1768	1717	1743	1639	1813	1635	973

*Approved
246.6.7.42*

Date and Time of Shut-in Pressures	El Paso Natural Gas Company Carlson Federal #1-B		Westates Pet. Corp. Carlson Federal #1-A		R. Olsen Oil Co. Wimberly #1		Gulf Oil Corp. Arnott Ramsey F-3		Tidewater Assoc. Oil Coates C-1 Tbg.		Western Natural Gas Eaton B-1	
	Tbg.	Csg.	Tbg.	Csg.	Tbg.	Csg.	Tbg.	Csg.	Tbg.	Csg.	Tbg.	Csg.
July 29 - 336 hours	1678	1768	1716	1743	1638	1813	1840	1635	974			
29 - 348 hours	1673	1768	1716	1744	1639	1812	1840	1634	974			
July 30 - 360 hours	1669	1768	1716	1744	1638	1812	1840	1634	975			
30 - 372 hours	1667	1768	1716	1744	1639	1812	1840	1634	976			
July 31 - 384 hours	1665	1768	1717	1744	1639	1812	1840	1635	977			
31 - 396 hours	1663	1768	1718	1745	1640	1812	1840	1636	977			
August 1 - 408 hours	1660	1768	1719	1745	1640	1812	1840	1637	978			
1 - 420 hours	1658	1768	1719	1745	1639	1812	1840	1636	978			
August 2 - 432 hours	1655	1769	1719	1745	1638	1812	1840	1636	978			
2 - 444 hours	1653	1769	1719	1746	1638	1812	1840	1635	977			
August 3 - 456 hours	1652	1770	1719	1746	1638	1812	1839	1635	977			
3 - 468 hours	1650	1770	1719	1746	1638	1812	1839	1636	978			
August 4 - 480 hours	1647	1769	1719	1746	1638	1812	1839	1636	979			
4 - 492 hours												
August 5 - 504 hours	1644	1769	1720	1746	1639	1812	1840	1637	981			
5 - 516 hours												
August 6 - 528 hours	1640	1769	1720	1746	1639	1812	1840	1637	982			

JUSTIS POOL INTERFERENCE TESTS

PART II

FLOWING PRESSURES AND VOLUMES

* ALL wells turned on except R. Olsen Wimberly #1 and Westates Pet. Corp. Carlson Federal #1-A between 9:00 A.M. and 12:00 A.M. August 7, 1957.

<u>Company, Use and Well No.</u>	<u>Date</u>	<u>Tbg. Press. PSIG</u>	<u>Csg. Press. PSIG</u>	<u>Line Press. PSIG</u>	<u>Line Flow Temp (°F)</u>	<u>Differential (" H2O)</u>	<u>Gas Gravity</u>	<u>Orifice Size (")</u>	<u>Flowing Volume (MCFPD)</u>	<u>Dist. Prod. Bbl/day</u>	<u>Water Prod. Bbl/day</u>	<u>Gas-Dist. Ratio CF/bbl</u>
E1 Paso Natural Gas Co. Carlson Federal #1-B Justis #1	8-10-57 8-10-57	1626 275	1701 276	501 175	48 72	42.25 40.96	0.665 0.685	1.500 1.250	2104 798	33.36	44.16	63,070
Westates Pet. Corp. *Carlson Federal #1-A R. Olsen Oil Company *Wimberly #1	(Observation Well) 8-10-57 (Observation Well) 8-10-57	1723 1644	1748 (Bottom Hole Pressure w/E. L. I. Type 96 B.H.P. Bomb - 2020 PSIG @ 4880')									
Gulf Oil Corporation Arnott Ramsey #F-3	8-10-57	1719	1803	511	46	51.84	0.665	1.250	1625			
Tidewater Assoc. Oil Coates C-1 Tbg.	8-10-57	1387		517	56	24.01	0.670	1.500	1595			
Western Natural Gas Co. Easton B-1	8-10-57	638		635	102	36.60	0.675	1.250	1419			
Continental Oil Co. State "A"-2 #1	8-10-57	99	195	89	90	13.69	0.690	1.500	474			
Citties Service Oil Co. Hodges B-1 Tbg.	8-10-57	Well Shut-in due to line failure at chokes.										
E1 Paso Natural Gas Co. Carlson Federal 1-B Justis #1	8-12-57 8-12-57	1617 253	1691 253	515 224	56 74	40.96 18.49	0.665 0.685	1.500 1.500	2074 875	27.60	32.16	75,145
Westates Pet. Corp. Carlson Federal #1-A R. Olsen Oil Co. Wimberly #1	(Observation Well) 8-12-57 (Observation Well) 8-12-57	1725 1643	1750									
Gulf Oil Corporation Arnott Ramsey #F-3	8-12-57	1712	1795	517	47	50.41	0.665	1.250	1610			

Part II

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Part II
FLOWING PRESSURES AND VOLUMES

<u>Company, Lease and Well No.</u>	<u>Date</u>	<u>Tbg. Press.</u> PSIG	<u>Csg. Press.</u> PSIG	<u>Line Press.</u> PSIG	<u>Line Flow</u> Temp (°F)	<u>Differential</u> (* H ₂ O)	<u>Gas</u> Gravity	<u>Orifice</u> Size (*)	<u>Flowing</u> Volume (MCFPD)	<u>Dist. Prod.</u> Bbl/day	<u>Water Prod.</u> Bbl/day	<u>Gas-Dist</u> Ratio CF/bbl.
KI Paso Natural Gas Co. Carlson Federal #1-B	8-23-57	1582	1656	558	55	45.56	0.665	1.500	2292	32.36	42.58	70,828
Justis #1	8-23-57	220	225	224	79	14.82	0.685	1.500	779			
Westates Petr. Corp. *Carlson Federal #1-A	(Observation Well) 8-23-57	1727	1753									
R. Olsen Oil Co. Wimberly #1	(Observation Well) 8-23-57	1645										
Gulf Oil Corp. Arnett Ramsey #F-3	8-23-57	1671	1757	566	37	36.00	0.665	1.250	2455			
Tidewater Assoc. Oil Coates C-1 Tbg.	8-23-57	1610	(Shut in @ 3:00 P.M., August 21, 1957 to run distillate)					0.670	1.500			
Western Natural Gas Eaton B-1	8-23-57	777		774	117	64.80	0.675	1.250	2064			
Continental Oil Co. State "A"-2 #1	8-23-57	104	195	97	84	12.96	0.690	1.500	482			
Cities Service Oil Co. Hodges B-1 Tbg.	8-23-57	887	(Shut-in by mistake) (60 hr. Shut-in)					0.670	1.000			
KI Paso Natural Gas Co. Carlson Federal #1-B	8-27-57	1569	1645	538	53	50.41	0.665	1.500	2377	29.52	36.34	80,522
Justis #1	8-27-57	243	243	243	77	12.25	0.685	1.500	740			
Westates Petr. Corp. *Carlson Federal #1-A	(Observation Well) 8-27-57	1727	1753									
R. Olsen Oil Co. Wimberly #1	(Observation Well) 8-27-57	1641										
Gulf Oil Corporation Arnett Ramsey #F-3	8-27-57	1674	1746	551	44	30.25	0.665	1.250	1304			
Tidewater Assoc. Oil Coates C-1 Tbg.	8-27-57	1251		530	53	50.41	0.670	1.500	2351			
Western Natural Gas Eaton B-1	8-27-57	775		773	105	64.00	0.675	1.250	2083			
Continental Oil Co. State A-2 #1	8-27-57		203	112	80	11.42	0.690	1.500	490			
Cities Service Oil Co. Hodges B-1 Tbg.	8-27-57	245		244	86	10.24	0.670	1.000	297			

Part II
FLOWING PRESSURES AND VOLUMES

Company, Lease and Well No.	Date	Tbg. Press. PSIG	Csg. Press. PSIG	Line Press. PSIG	Line Flow Temp (°F)	Differential (° H ₂ O)	Gas Gravity	Orifice Flowing Size (")	Volume (MCFPD)	Dist. Prod. Bbl./Day	Water Prod. Bbl./Day	Gas-Dist. Ratio CF/Bbl.
El Paso Natural Gas Co. Carlson Federal #1-B Justis #1	8-30-57 8-30-57	1565 269	1641 269	582 269	52 76	46.24 4.00	0.665 0.685	1.500 1.500	2368 445	27.25	27.25	86,899
Westates Pet. Corp. *Carlson Federal #1-A R. Olsen Oil Company Wimberly #1	(Observation Well) 8-30-57 (Observation Well) 8-30-57	1727 1641	1752 (Bottom Hole Pressure 2037# @ 4880')									
Gulf Oil Corporation Arnott Ramsey #F-3	8-30-57	1667	1744	593	40	33.64	0.665	1.250	1437			
Tidewater Assoc. Oil Coates C-1 Tbg.	8-30-57	1220		583	58	43.56	0.670	1.500	2291			
Western Natural Gas Eaton B-1	8-30-57	765		763	106	53.29	0.675	1.250	1887			
Continental Oil Co. State A-2 #1	8-30-57		200	103	76	11.56	0.690	1.500	476			
Cities Service Oil Co. Hodges B-1 Tbg.	8-30-57	98		95	79	10.24	0.670	1.000	190			
El Paso Natural Gas Co. Carlson Federal #1-B Justis #1	9-3-57 9-3-57	1559 240	1634 240	557 240	60 78	51.12 11.56	0.665 0.685	1.500 1.500	2409 714	24.44	32.40	98,568
Westates Pet. Corp. *Carlson Federal #1-A R. Olsen Oil Company *Wimberly #1	(Observation Well) 9-3-57 (Observation Well) 9-3-57	1727 1641	1752									
Gulf Oil Corporation Arnott Ramsey #F-3	9-3-57	1585	1779	562	55	3.61	0.665	1.250	446			
Tidewater Assoc. Oil Coates C-1 Tbg.	9-3-57	1224		558	54	43.56	0.670	1.500	2247			
Western Natural Gas Eaton B-1	9-3-57	772		770	118	60.84	0.675	1.250	1993			
Continental Oil Co. State A-2 #1	9-3-57		205	114	82	10.24	0.690	1.500	467			
Cities Service Oil Co. Hodges B-1 Tbg.	9-3-57	308		240	106	0.00	0.670	1.000	0			

Part II
FLOWING PRESSURES AND VOLUMES

Company, Lease & Well No.	Date	Tbg. Press. PSIG	Csg. Press. PSIG	Line Press. PSIG	Line Flow Temp (°F)	Differential (" H ₂ O)	Gas Gravity	Orifice Size (")	Flowing Volume (MCFPD)	Dist. Prod. Bbl/day	Water Prod. Bbl/day	Gas-Dist. Ratio CF/Bbl.
K1 Paso Natural Gas Co. Carlson Federal #1-B Justis #1	9-6-57 1558 9-6-57 239 (Observation Well)	1634 239		528 238	58 79	52.56 11.56	0.665 0.685	1.500 1.500	2382 709	36.35	43.18	65,530
Westates Pet. Corp. *Carlson Federal #1-A R. Olsen Oil Company *Wimberly #1	9-6-57 1729 (Observation Well) 9-6-57 1646	1752 (Bottom Hole Pressure - 2037' @ 4880')										
Gulf Oil Corporation Arnott Ramsey #F-3 Tidewater Assoc. Oil	9-6-57 1698	1774	532	47	18.06	0.665	1.250	981				
Coates C-1 Tbg. Western Natural Gas Eaton B-1	9-6-57 1223		534	47	40.96	0.670	1.500	2144				
Continental Oil Co. State A-2 #1	9-6-57 771		768	116	62.41	0.675	1.250	2020				
Cities Service Oil Co. Hodges B-1 Tbg.	9-6-57					0.690	1.500					
	9-6-57					0.670	1.000					
K1 Paso Natural Gas Co. Carlson Federal #1-B Justis #1	9-13-57 1550 9-13-57 249 (Observation Well)	1625 249	543 248	56 76	49.00 10.24	0.665 0.685	1.500 1.500	2337 684	30.32	40.19	77,077	
Westates Pet. Corp. *Carlson Federal #1-A R. Olsen Oil Co. *Wimberly #1	9-13-57 1729 (Observation Well) 9-13-57 1651	1753										
Gulf Oil Corporation Arnott Ramsey #F-3 Tidewater Assoc. Oil	9-13-57 1695	1776	547	67	20.25	0.665	1.250	1022				
Coates C-1 Tbg. Western Natural Gas Eaton B-1	9-13-57 1613 (Shut-in to run distillate) 9-13-57 773					0.670	1.500					
Continental Oil Co. State A-2 #1	9-13-57 769		769	74	2.56	0.675	1.250	435				
Cities Service Oil Co. Hodges B-1 Tbg.	9-13-57 166 9-13-57 (Shut-in by mistake)	167	90	74	10.24	0.690 0.670	1.500 1.000	419				