

Schlumberger

Job Date: 02-04-2002

Customer: Exxon Mobil
District: Ulysses, KS
Representative: Mr. Richard Lewis
DS Supervisor: Jason Small
Well: Citizens State Bank 2-4

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl	BH FOAM QUALITY %
02:04:2002:13:20:44	151	0.0	0.0	1	0.0	0.0	0.0
02:04:2002:13:21:04	151	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:21:44	151	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:22:24	151	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:22:44	142	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:23:04	142	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:23:24	146	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:23:28	Pressure Test Lines						
02:04:2002:13:23:28	179	0.5	0.0	0	0.0	0.0	0.0
02:04:2002:13:23:44	957	0.1	0.0	-0	0.0	0.0	0.0
02:04:2002:13:24:04	2678	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:24:24	3030	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:24:25	Pressure Test N2 Lines						
02:04:2002:13:24:25	3021	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:24:44	2962	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:25:04	2925	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:25:24	2902	0.0	0.0	3487	0.0	0.0	0.0
02:04:2002:13:25:44	2925	0.0	0.0	3175	0.0	0.0	0.0
02:04:2002:13:26:04	3062	0.0	0.0	-49	0.0	0.0	0.0
02:04:2002:13:26:24	3040	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:26:44	3017	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:26:45	Bleedoff N2 Lines						
02:04:2002:13:26:48	3012	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:27:04	2971	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:27:24	2943	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:27:32	Bleedoff Liquid Lines						
02:04:2002:13:27:32	2934	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:27:44	412	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:28:04	728	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:28:24	916	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:28:44	1025	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:29:04	1126	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:29:24	1186	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:29:44	1208	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:30:04	1208	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:30:24	1199	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:30:44	1195	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:31:04	1186	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:31:24	1176	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:31:44	1167	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:32:04	1158	0.0	0.0	-0	0.0	0.0	0.0
02:04:2002:13:32:24	1149	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:32:44	1144	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:33:04	1131	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:33:24	1122	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:33:44	1117	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:34:04	1103	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:34:24	1099	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:34:44	1085	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:35:04	1076	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:35:24	1067	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:35:44	1057	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:36:04	1048	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:36:24	1039	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:36:44	1035	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:37:04	1021	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:37:24	1012	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:37:44	1003	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:38:04	993	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:38:24	989	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:38:44	980	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:39:04	970	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:39:24	961	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:39:44	952	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:40:04	943	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:40:24	934	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:40:44	925	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:41:04	920	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:41:24	911	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:41:44	902	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:42:04	897	0.0	0.0	0	0.0	0.0	0.0

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl	BH FOAM QUALITY %
02:04:2002:13:43:04	874	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:43:24	865	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:43:44	856	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:44:04	847	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:44:24	838	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:44:44	833	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:45:04	824	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:45:24	819	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:45:44	810	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:46:04	806	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:46:24	797	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:46:44	787	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:47:04	783	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:47:24	774	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:47:44	769	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:48:04	760	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:48:24	755	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:48:44	746	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:49:04	742	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:49:24	732	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:49:44	728	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:50:04	719	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:50:24	714	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:50:44	710	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:51:04	700	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:51:24	696	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:51:44	687	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:52:04	682	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:52:24	677	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:52:44	668	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:53:04	664	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:53:24	659	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:54:04	655	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:55:04	650	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:56:04	645	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:56:31	Open Well Head						
02:04:2002:13:56:41	645	0.1	0.0	0	0.0	0.0	0.0
02:04:2002:13:56:44	645	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:57:04	0	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:57:24	9	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:57:34	Well Head Opened						
02:04:2002:13:57:34	14	0.0	0.0	0	0.0	0.0	0.0
02:04:2002:13:57:44	18	0.0	0.0	1571	0.0	0.1	0.0
02:04:2002:13:58:04	146	0.0	0.0	8322	2.6	5.9	0.0
02:04:2002:13:58:07	Start Pumping Liquid						
02:04:2002:13:58:07	160	0.0	0.0	8376	3.0	6.9	0.0
02:04:2002:13:58:24	220	3.1	0.1	9474	5.6	13.0	0.0
02:04:2002:13:58:44	279	7.8	2.3	9663	8.8	22.6	0.0
02:04:2002:13:59:04	316	8.0	4.9	12145	12.2	33.1	0.0
02:04:2002:13:59:24	385	8.1	7.6	13363	16.4	45.6	0.0
02:04:2002:13:59:44	545	8.0	10.3	13697	20.9	59.0	0.0
02:04:2002:13:59:51	Stage at Perfs: Pad						
02:04:2002:13:59:51	595	8.0	11.3	13695	22.5	63.7	0.0
02:04:2002:14:00:04	696	8.1	13.0	13698	25.5	72.5	0.0
02:04:2002:14:00:24	856	8.0	15.7	13686	30.0	85.9	74.7
02:04:2002:14:00:37	Rate/Psi						
02:04:2002:14:00:37	952	8.0	17.5	13676	33.0	94.7	74.7
02:04:2002:14:00:44	1007	8.0	18.4	13675	34.6	99.4	79.2
02:04:2002:14:00:51	Increase Pump Rate						
02:04:2002:14:00:51	1048	8.0	19.3	13670	36.2	104.1	77.8
02:04:2002:14:01:04	1213	12.6	21.6	17001	39.1	112.8	79.9
02:04:2002:14:01:24	1538	15.8	26.5	25244	46.6	135.1	79.9
02:04:2002:14:01:44	1772	15.9	31.8	26431	55.3	160.8	80.0
02:04:2002:14:02:04	1904	15.8	37.1	27024	64.2	187.2	78.7
02:04:2002:14:02:19	Rate/Psi						
02:04:2002:14:02:19	1936	15.8	41.0	27528	71.0	207.2	79.2
02:04:2002:14:02:24	1936	15.9	42.4	27432	73.3	214.0	79.4
02:04:2002:14:02:44	1918	15.8	47.6	27348	82.4	240.7	79.9
02:04:2002:14:03:04	1913	15.9	52.9	27404	91.6	267.6	80.2
02:04:2002:14:03:24	1876	15.8	58.2	27404	100.7	294.4	80.3
02:04:2002:14:03:44	1875	15.8	63.5	27379	109.8	321.2	80.3
02:04:2002:14:04:04	1863	15.9	68.8	27417	119.0	348.0	80.3
02:04:2002:14:04:11	Rate/Psi						
02:04:2002:14:04:11	1862	15.8	70.6	27424	122.2	357.4	80.3
02:04:2002:14:04:24	1858	15.9	74.1	27414	128.1	374.9	80.3
02:04:2002:14:04:44	1849	15.9	79.4	27403	137.2	401.7	80.3
02:04:2002:14:05:04	1844	15.9	84.7	27403	146.4	428.5	80.3
02:04:2002:14:05:24	1832	15.9	89.9	27391	155.5	455.4	80.3

AcqTime mm:dd:yyyy:hh:mm:ss	TR PRESS psi	SLUR RATE bbl/min	TOT SLUR bbl	N2 RATE scf/min	TOT N2 Mscf	TOT INJ bbl	BH FOAM QUALITY %
02:04:2002:14:05:44	1825	15.9	95.2	27363	164.6	482.2	80.3
02:04:2002:14:06:02	Rate/Psi						
02:04:2002:14:06:02	1822	15.9	100.0	27354	172.8	506.3	80.3
02:04:2002:14:06:04	1821	15.9	100.5	27353	173.8	509.0	80.3
02:04:2002:14:06:24	1813	15.9	105.8	27354	182.9	535.8	80.3
02:04:2002:14:06:44	1803	15.9	111.1	27414	192.0	562.6	80.3
02:04:2002:14:07:04	1798	15.9	116.4	27395	201.1	589.4	80.3
02:04:2002:14:07:24	1793	15.8	121.7	27377	210.3	616.3	80.3
02:04:2002:14:07:44	1789	15.9	127.0	26964	219.4	643.0	80.3
02:04:2002:14:08:04	1786	15.9	132.3	27333	228.4	669.7	80.3
02:04:2002:14:08:24	1778	15.8	137.6	27344	237.6	696.5	80.2
02:04:2002:14:08:39	Rate/Psi						
02:04:2002:14:08:39	1773	15.9	141.5	27339	244.4	716.6	80.2
02:04:2002:14:08:44	1770	15.9	142.9	27334	246.7	723.3	80.2
02:04:2002:14:09:04	1753	15.9	148.1	27333	255.8	750.1	80.2
02:04:2002:14:09:24	1748	15.9	153.4	27332	264.9	776.8	80.2
02:04:2002:14:09:44	1744	15.9	158.7	27334	274.0	803.6	80.2
02:04:2002:14:10:04	1738	15.9	164.0	27333	283.1	830.4	80.2
02:04:2002:14:10:24	1738	15.9	169.3	27333	292.2	857.2	80.2
02:04:2002:14:10:44	1736	15.9	174.6	27333	301.3	884.0	80.2
02:04:2002:14:11:04	1732	15.9	179.9	27334	310.4	910.8	80.2
02:04:2002:14:11:24	Rate/Psi						
02:04:2002:14:11:24	1729	15.9	185.2	27333	319.6	937.5	80.2
02:04:2002:14:11:44	1728	15.9	190.5	27336	328.7	964.3	80.2
02:04:2002:14:12:04	1726	15.9	195.8	27333	337.8	991.1	80.2
02:04:2002:14:12:24	1724	15.9	201.1	27375	346.9	1017.9	80.2
02:04:2002:14:12:44	1724	15.9	206.4	27392	356.0	1044.7	80.2
02:04:2002:14:13:04	1724	15.8	211.7	27393	365.2	1071.5	80.2
02:04:2002:14:13:24	1722	15.9	217.0	27400	374.3	1098.4	80.3
02:04:2002:14:13:44	1721	15.9	222.3	27395	383.4	1125.2	80.3
02:04:2002:14:14:04	1719	15.9	227.6	27394	392.5	1152.0	80.3
02:04:2002:14:14:24	1720	15.9	232.9	27402	401.7	1178.9	80.3
02:04:2002:14:14:44	1717	15.9	238.2	27392	410.8	1205.7	80.3
02:04:2002:14:15:04	1718	15.9	243.5	27395	419.9	1232.5	80.3
02:04:2002:14:15:24	1717	15.9	248.8	27385	429.1	1259.4	80.3
02:04:2002:14:15:44	1714	15.9	254.1	27387	438.2	1286.2	80.3
02:04:2002:14:16:04	1715	15.9	259.3	27383	447.3	1313.0	80.3
02:04:2002:14:16:17	Rate/Psi						
02:04:2002:14:16:17	1713	15.9	262.8	27386	453.3	1330.5	80.3
02:04:2002:14:16:24	1712	15.9	264.6	27386	456.5	1339.8	80.3
02:04:2002:14:16:44	1712	15.9	269.9	27384	465.6	1366.7	80.3
02:04:2002:14:17:04	1708	15.9	275.2	27382	474.7	1393.5	80.3
02:04:2002:14:17:24	1707	15.9	280.5	27386	483.8	1420.3	80.3
02:04:2002:14:17:44	1704	15.9	285.8	27386	493.0	1447.2	80.3
02:04:2002:14:18:04	1703	15.9	291.1	27382	502.1	1474.0	80.2
02:04:2002:14:18:24	1703	15.9	296.4	27381	511.2	1500.8	80.2
02:04:2002:14:18:44	1702	15.9	301.7	27387	520.4	1527.6	80.2
02:04:2002:14:19:04	1700	15.9	307.0	27392	529.5	1554.5	80.2
02:04:2002:14:19:24	Rate/Psi						
02:04:2002:14:19:24	1697	15.9	312.3	27382	538.6	1581.3	80.2
02:04:2002:14:19:44	1694	15.9	317.6	27382	547.7	1608.1	80.2
02:04:2002:14:20:04	1694	15.9	322.9	27382	556.9	1635.0	80.2
02:04:2002:14:20:24	1693	15.9	328.2	27382	566.0	1661.8	80.2
02:04:2002:14:20:44	1690	15.9	333.6	27384	575.1	1688.6	80.2
02:04:2002:14:21:04	1690	15.9	338.9	27383	584.2	1715.4	80.2
02:04:2002:14:21:24	1687	15.9	344.2	27382	593.4	1742.3	80.2
02:04:2002:14:21:44	1688	15.9	349.5	27382	602.5	1769.1	80.2
02:04:2002:14:22:04	1686	15.9	354.8	27383	611.6	1795.9	80.2
02:04:2002:14:22:24	1684	15.9	360.1	27383	620.8	1822.8	80.2
02:04:2002:14:22:44	1682	15.9	365.4	27392	629.9	1849.6	80.2
02:04:2002:14:23:04	1679	16.0	370.7	27394	639.0	1876.4	80.2
02:04:2002:14:23:24	1679	15.9	376.0	27388	648.2	1903.3	80.2
02:04:2002:14:23:39	Rate/Psi						
02:04:2002:14:23:39	1680	16.0	380.0	27383	655.0	1923.4	80.2
02:04:2002:14:23:44	1678	15.9	381.3	27389	657.3	1930.1	80.2
02:04:2002:14:24:04	1676	15.9	386.6	27392	666.4	1957.0	80.2
02:04:2002:14:24:24	1676	15.9	391.9	27383	675.5	1983.8	80.2
02:04:2002:14:24:44	1676	15.9	397.2	27393	684.7	2010.6	80.2
02:04:2002:14:25:04	1674	15.9	402.5	27393	693.8	2037.5	80.2
02:04:2002:14:25:24	1673	15.9	407.8	27384	702.9	2064.3	80.2
02:04:2002:14:25:44	1673	15.9	413.1	27383	712.1	2091.1	80.2
02:04:2002:14:26:04	1672	15.9	418.4	27382	721.2	2118.0	80.2
02:04:2002:14:26:24	1673	15.9	423.7	27388	730.3	2144.8	80.2
02:04:2002:14:26:44	1672	15.9	429.0	27392	739.4	2171.6	80.2
02:04:2002:14:27:04	1675	15.9	434.3	27394	748.6	2198.5	80.2
02:04:2002:14:27:24	1672	15.9	439.6	27388	757.7	2225.3	80.2
02:04:2002:14:27:44	1670	16.0	445.0	27394	766.8	2252.2	80.2
02:04:2002:14:28:04	1671	15.9	450.3	27389	776.0	2279.0	80.2