

HALLFORD WTI, LLC
(Well Test Interpretation)

Altamont Oil & Gas

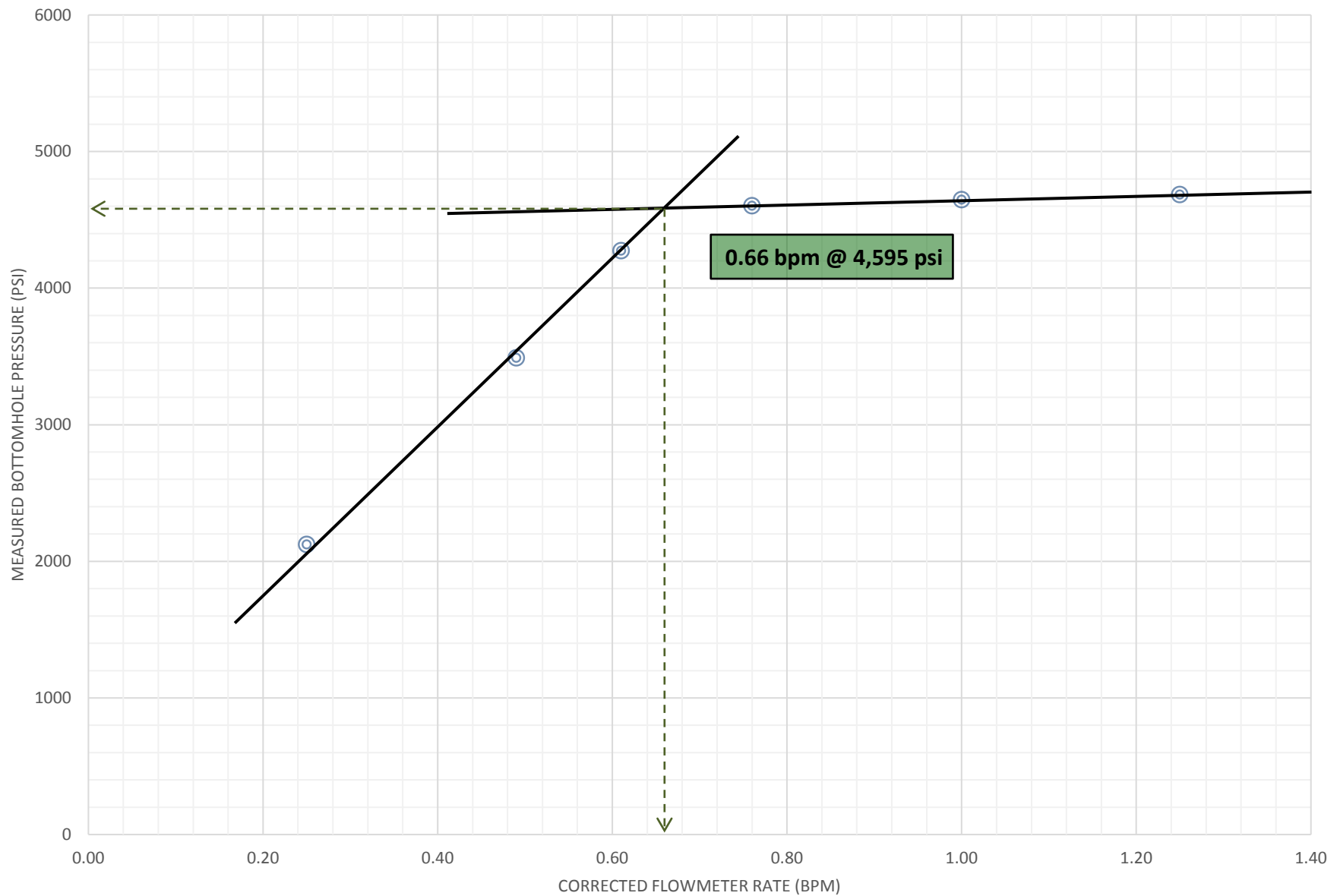
Wallewein #22-1

Toole County, Montana

Fall-off Test Conducted March 18, 2015

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Wallewein #22-1 Step-Rate Test (SRT) Analysis





Comments

Altamont Oil & Gas - Walle...

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

A step-rate injection and pressure fall-off test was conducted by Northern Lights Energy Company and Sanjel on the Wallewein 22-1 well in Toole County, Montana, from March 18, 2015, to March 27, 2015. Tandem electronic quartz gauges were run into the well on March 18, taking gradient stops every 300 feet going into the well. Gauges were set at 4019 ft, and injection of 3% NaCl water began on March 19, 2015, at 09:57 a.m. After completion of all testing, gradient stops were also taken every 300 ft while coming out of the well.

During the step-rate test, injection began at 0.4 bpm (-576 bipd), and stepped up to 0.5 bpm (-720 bipd), then 0.75 bpm (-1080 bipd), then 1 bpm (-1440 bipd) and finally 1.25 bpm (-1800 bipd). A plot of bottomhole pressure (Psi) vs injection rate (bpm) for the end of each injection step indicates the formation break at 0.66 bpm (-1037 bipd) and corresponding bottomhole pressure of 4595 psi.

Due to operational difficulties with the flowmeter, the injection rates for day 2 and day 3 were initially reported to be -854 bwipd on day 2, and a final rate of -2000 bwipd on day 3. It was subsequently determined that day 2 and 3 rates were incorrect, thus, it was believed that determining the average injection rate based on volumes pumped would be most accurate. Therefore, for day 2 of injection, an average injection rate of 664 bwipd was used for a pumped volume of 225 bbls, and for day 3, an average injection rate of 686 bwipd was used for a pumped volume of 248 bbls.

After injection, the final fall-off period was extended to 135 hrs. Analysis of the diagnostic log-log plot of delta pressure and pressure derivative for the final fall-off period indicates the presence of a heterogeneous reservoir, with increasing wellbore storage in very early time and a two-porosity transition taking place in late time, with the fall-off pressure response going into the two-porosity transition but not yet coming out. Thus, the value for Omega is non-unique, and for purposes of this interpretation, it has been assumed that the value for Omega, the ratio of fissure volume to bulk reservoir volume, is 0.001, or 0.1% of the bulk reservoir volume is contained within the fractures. It should be noted that the pressure response during the extended fall-off test is non-unique, as other reservoir models could produce a similar response for the downward trending derivative at the end of the test. For example, the downward trending pressure derivative could be indicative of the pressure response seeing an increase in the overall transmissibility (Kh/u), some distance away from the wellbore.

The final fall-off period was matched using an infinite system, two-porosity slab geometry reservoir model with skin and variable wellbore storage. See analysis results and plots on the following pages of this report.

Based on the match, the tested interval appears to have the characteristics of a heterogeneous reservoir with good permeability to the injected water, with effective permeability of 19 md to the injected water, and a skin factor of -1.3, which is a normal skin value for a naturally-fractured reservoir. Also, the negative skin value is normal for an acidized zone, which had been conducted prior to the test. The value for Omega, of 0.001, or 0.1% of bulk reservoir volume contained within fractures, has been assumed, since the fall-off response was going into the two-porosity transition (or dip) and not yet coming out. Therefore, the fall-off response didn't reach the radial flow regime for the Total System (fissures + matrix). The value for Lambda is very small, at $2.1E-8$, whereas, a normal Lambda value is generally $1E-06$. Thus, the small Lambda indicates poorer communication or connectivity of blocks to fissures, which is why the two-porosity transition happens late in the test.

For questions or discussion of this interpretation, please contact Debora Hallford at 303-596-4515.



History listings

Altamont Oil & Gas - Walle...

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Date	ToD	FP #	Water rate STB/D	Duration hr
03/18/2015	14:14:51	1	0	19.4
03/19/2015	09:38:51	2	-1440	0.0167
03/19/2015	09:39:51	3	0	0.274326
03/19/2015	09:56:19	4	-576	0.375074
03/19/2015	10:18:49	5	-936	0.4833
03/19/2015	10:47:49	6	-1224	0.00618894
03/19/2015	10:48:11	7	0	0.559254
03/19/2015	11:21:44	8	-576	0.433857
03/19/2015	11:47:46	9	-720	0.5
03/19/2015	12:17:46	10	-1080	0.5
03/19/2015	12:47:46	11	-1440	0.5
03/19/2015	13:17:46	12	-1800	0.233
03/19/2015	13:31:45	13	-720	1
03/19/2015	14:31:45	14	-1440	0.4833
03/19/2015	15:00:45	15	-1800	0.512474
03/19/2015	15:31:30	16	0	17.0844
03/20/2015	08:36:34	17	-664	8.15356
03/20/2015	16:45:47	18	0	16.0945
03/21/2015	08:51:27	19	-686	8.70791
03/21/2015	17:33:55	20	0	135.103



Main results

Analysis 5 - 2-phi



Company Altamont Oil & Gas
Well Wallewein #22-1

Field
Test Name / # Step Rate Test & Buildup

Test date / time 3/18/2015
Formation interval Duperow
Perforated interval 4040' to 4057'
Gauge type / # electronic #90367 (bottom)
Gauge depth 4019
Analyzed by Debora Hallford
Analysis date / time

TEST TYPE Standard

Porosity Phi (%) 5
Well Radius rw 0.328 ft
Pay Zone h 17 ft

Form. compr. 3E-6 psi-1

Fluid type Water

Volume Factor B 1 B/STB
Viscosity 1 cp
Total Compr. ct 3E-6 psi-1

Default values are used!

Selected Model

Model Option Standard Model
Well Vertical, Changing Storage (Hegeman)
Reservoir Two porosity Slab
Boundary Infinite

Main Model Parameters

TMatch 14.9 [hr]-1
PMatch 0.00331 [psia]-1
C 0.00635 bbl/psi
Total Skin -1.3
k.h, total 321 md.ft
k, average 18.9 md
Pi 1362.23 psia

Model Parameters

Well & Wellbore parameters (Wallewein #22-1)

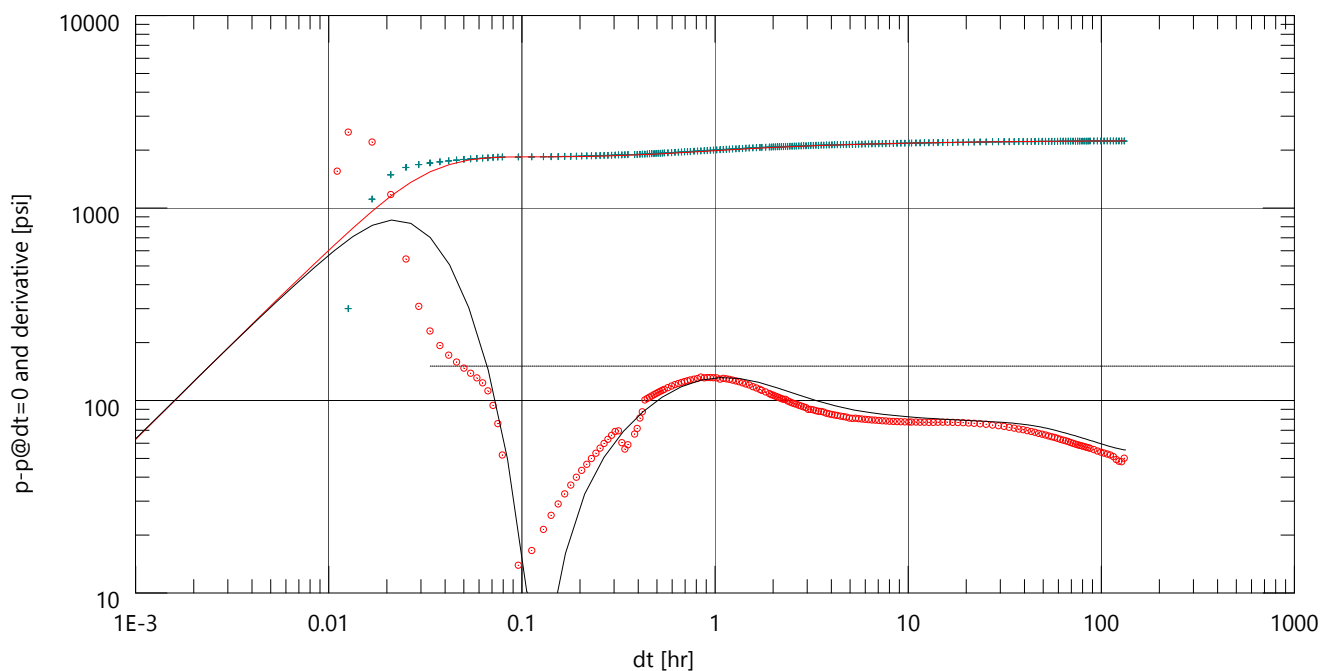
C 0.00635 bbl/psi
Ci/Cf 0.0716
delta_t 0.114 hr
Skin -1.3

Reservoir & Boundary parameters

Pi 1362.23 psia
k.h 321 md.ft
k 18.9 md
Omega 1E-3
Lambda 2.11E-8

Derived & Secondary Parameters

Delta P (Total Skin) -392.99 psi
Delta P Ratio (Total Skin) -0.176019 Fraction



btmgauge fall-off #5

Rate 0 STB/D
Rate change 686 STB/D
P@dt=0 3608.97 psia
Pi 1362.23 psia
Smoothing 0.1

Default values are used!

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Well Vertical, Changing Storage (Hegeman)
Reservoir Two porosity Slab
Boundary Infinite

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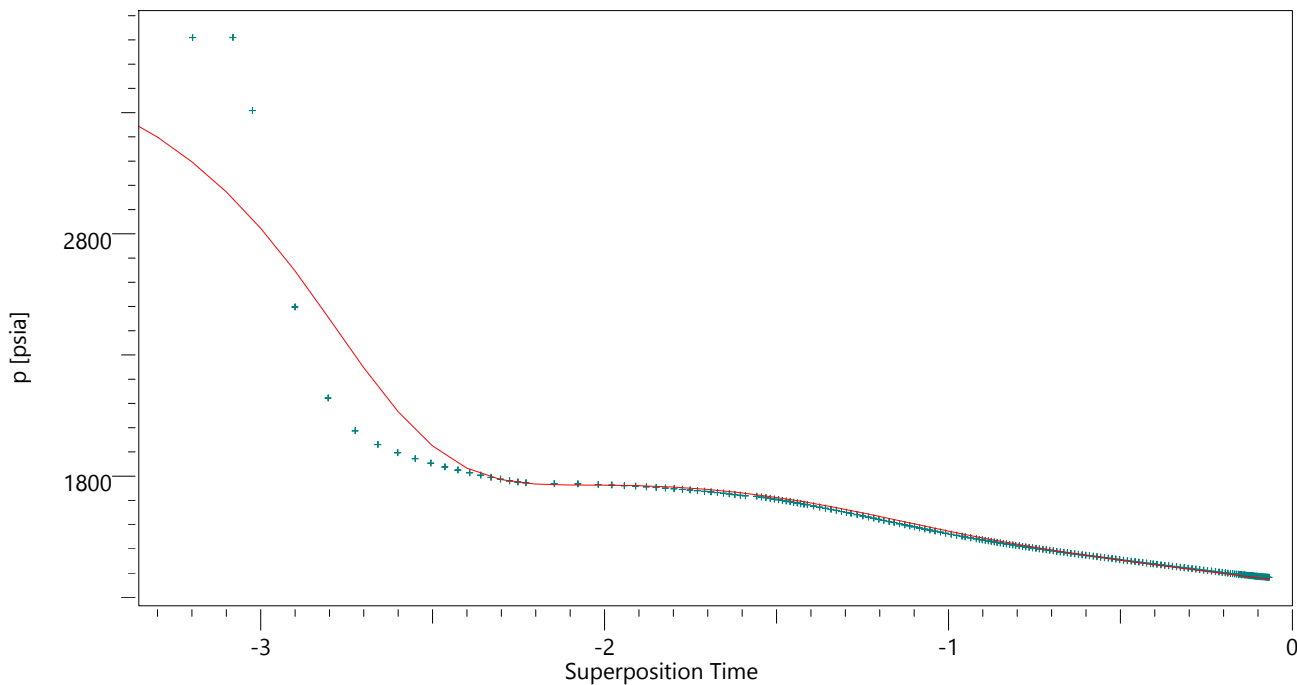
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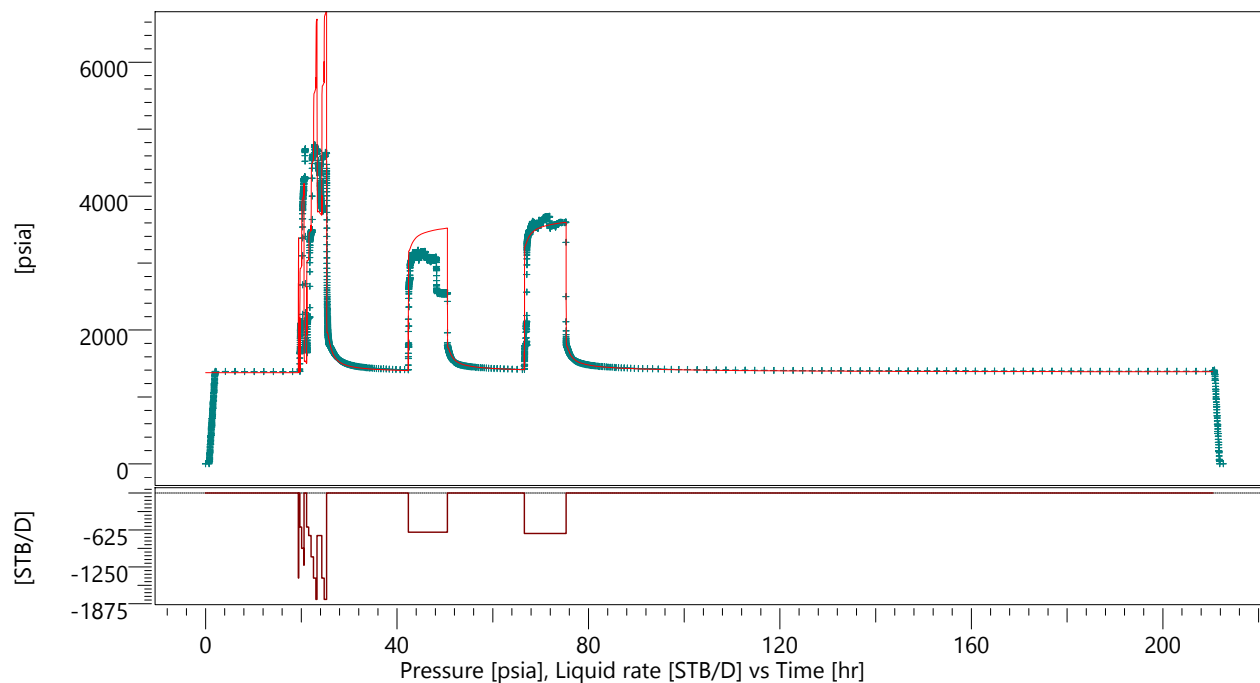
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Delta P Ratio (Total Skin) -0.176019 Fraction



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
0.217505	0.0110769	705.134	1.45691	1379.42	2.07358	2031.63	19.8652
-0.195913	0.761077	722.356	1.46108	1379.27	2.08191	2033.9	19.8694
13.3262	0.765244	739.826	1.46524	1375.32	2.08608	2028.42	19.8736
26.3196	0.76941	757.444	1.46941	1370.11	2.09024	2032.25	19.8777
31.304	0.773577	775.142	1.47358	1367.62	2.09441	2042.63	19.8819
30.9712	0.852744	792.993	1.47774	1370.04	2.12358	2049.99	19.8861
35.1554	0.85691	811.067	1.48191	1372.18	2.14441	2050.25	19.8902
48.8641	0.861077	828.052	1.48608	1372.61	2.14858	2042.65	19.8944
65.5009	0.865244	828.824	1.56941	1377.46	2.15274	2047.97	19.8986
82.5145	0.86941	834.343	1.57358	1378.85	4.15691	2062.08	19.9027
99.9536	0.873577	848.389	1.57774	1378.51	6.16108	2065.07	19.9069
117.157	0.877744	866.802	1.58191	1378.22	8.16524	2059.08	19.9111
134.946	0.88191	885.052	1.58608	1377.97	10.1694	2052.3	19.9152
152.676	0.886077	903.122	1.59024	1377.8	12.1736	2061.61	19.9194
163.633	0.890244	921.502	1.59441	1377.65	14.1777	2074.99	19.9236
165.278	0.973577	937.932	1.59858	1377.57	16.1777	2075.35	19.9277
182.181	0.977744	938.724	1.68191	1377.47	18.1819	2069.76	19.9319
201.56	0.98191	949.826	1.68608	1379.46	19.7194	2061.03	19.9361
221.592	0.986077	968.449	1.69024	1380.78	19.7226	2065.94	19.9402
242.075	0.990244	987.746	1.69441	1387.57	19.7236	2076.92	19.9444
263.458	0.99441	1007.25	1.69858	1415.19	19.7277	2086.35	19.9486
285.056	0.998577	1027.11	1.70274	1495.3	19.7319	2086.2	19.9527
292.494	1.00274	1047.17	1.70691	1580.31	19.7361	2076.21	19.9569
292.245	1.08191	1067.19	1.71108	1658.52	19.7402	2072.19	19.9611
295.212	1.08608	1068.49	1.79441	1658.1	19.7444	2069	19.9652
311.986	1.09024	1076.9	1.79858	1654.58	19.7486	2079.27	19.9694
331.732	1.09441	1094.91	1.80274	1651.58	19.7527	2090.13	19.9736
351.274	1.09858	1113.46	1.80691	1649.09	19.7569	2094.13	19.9777
370.876	1.10274	1132.32	1.81108	1646.51	19.7611	2089.58	19.9819
391.704	1.10691	1151.22	1.81524	1643.8	19.7652	2080.32	19.9861
412.674	1.11108	1170.22	1.81941	1643.76	19.7694	2078.37	19.9902
422.049	1.11524	1189.21	1.82358	1659.45	19.7736	2075.63	19.9944
422.9	1.19858	1198.2	1.82774	1678.12	19.7777	2084.46	19.9986
436.617	1.20274	1198.15	1.90691	1700.51	19.7819	2094.51	20.0027
454.594	1.20691	1201.58	1.91108	1720.19	19.7861	2100.79	20.0069
473.17	1.21108	1219.74	1.91524	1734.29	19.7902	2098.17	20.0111
492.325	1.21524	1239.39	1.91941	1753.11	19.7944	2090.49	20.0152
511.491	1.21941	1259.53	1.92358	1780.86	19.7986	2087.37	20.0194
530.717	1.22358	1279.43	1.92774	1811.87	19.8027	2081.95	20.0236
549.516	1.22774	1300.91	1.93191	1842.83	19.8069	2086.55	20.0277
551.144	1.33191	1322.9	1.93608	1868.41	19.8111	2091.55	20.0319
566.334	1.33608	1327.55	1.94024	1895.31	19.8152	2102.25	20.0361
576.413	1.34024	1327.5	2.01941	1920.6	19.8194	2106.61	20.0402
589.475	1.34441	1333.18	2.02358	1936.21	19.8236	2106.19	20.0444
603.103	1.34858	1347.04	2.02774	1954.55	19.8277	2102.99	20.0486
620.121	1.35274	1360.99	2.03191	1967.44	19.8319	2098.36	20.0527
637.955	1.35691	1353.1	2.03608	1984.74	19.8361	2098.5	20.0569
655.77	1.36108	1363.86	2.04024	1989.1	19.8402	2094.27	20.0611
674.406	1.36524	1377.61	2.04441	1998.4	19.8444	2098.43	20.0652
679.753	1.36941	1379.7	2.04858	2012.11	19.8486	2098.28	20.0694
679.553	1.44858	1379.74	2.06524	2014.33	19.8569	2106.21	20.0736
687.645	1.45274	1374.25	2.06941	2022.47	19.8611	2109.66	20.0777



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
2115.06	20.0819	3816.51	20.3361	4183.83	20.5611	4272.96	20.7777
2114.74	20.0902	3825.12	20.3402	4187.13	20.5652	4263.36	20.7819
2112.2	20.0944	3844.31	20.3444	4192.37	20.5694	4273.26	20.7861
2108.63	20.0986	3856.75	20.3486	4212.47	20.5736	4264.67	20.7902
2108.47	20.1027	3871.65	20.3527	4220.59	20.5777	4519.8	20.7944
2103.83	20.1069	3874.51	20.3569	4237.73	20.5819	4602.55	20.7986
2105.96	20.1111	3874.72	20.3611	4255.54	20.5861	4647.92	20.8027
2102.32	20.1152	3890.53	20.3652	4240.23	20.5902	4664.44	20.8069
2108.16	20.1194	3901.69	20.3694	4251.13	20.5944	4669.04	20.8111
2108.29	20.1236	3914.16	20.3736	4245.89	20.5986	4678.17	20.8152
2115.46	20.1277	3914.49	20.3777	4248.26	20.6027	4675.8	20.8194
2117.22	20.1319	3923.52	20.3819	4260.36	20.6069	4677.29	20.8236
2120.3	20.1361	3947.75	20.3861	4250.4	20.6111	4683.25	20.8277
2118.43	20.1486	3963.4	20.3902	4266.24	20.6152	4688.27	20.8319
2115.19	20.1527	3971.88	20.3944	4255.66	20.6194	4688.26	20.8361
2115.24	20.1569	3969.01	20.3986	4245.57	20.6236	4700.6	20.8402
2111.31	20.1611	3984.25	20.4027	4242.85	20.6277	4703.72	20.8444
2114.64	20.1652	3996.48	20.4069	4229.33	20.6319	4692.79	20.8486
2110.69	20.1694	3996.69	20.4152	4234.8	20.6361	4699.75	20.8527
2116.21	20.1736	4009.34	20.4194	4234.68	20.6402	4699.98	20.8569
2114.32	20.1777	4020.62	20.4236	4229.62	20.6444	4694.78	20.8611
2120.66	20.1819	4015.38	20.4277	4238.86	20.6486	4694.3	20.8694
2120.59	20.1861	4015.62	20.4319	4228.03	20.6527	4694.19	20.8714
2124.61	20.1902	4028.36	20.4361	4232.82	20.6569	4253.55	20.8736
2124.08	20.2111	4039.95	20.4402	4241.48	20.6611	3397.48	20.8777
2121.47	20.2152	4037.4	20.4444	4231.38	20.6652	2688.07	20.8819
2121.84	20.2194	4050.98	20.4486	4246.98	20.6694	2255.76	20.8861
2118.04	20.2236	4065.11	20.4527	4253.52	20.6736	2039.81	20.8902
2121.48	20.2277	4064.42	20.4611	4256	20.6777	1934.4	20.8944
2116.8	20.2319	4078.48	20.4652	4266.55	20.6819	1873.89	20.8986
2121.47	20.2361	4084.61	20.4694	4256.92	20.6861	1833.47	20.9027
2116.71	20.2402	4070.17	20.4736	4264.67	20.6902	1805.23	20.9069
2123.74	20.2444	4076.19	20.4777	4269.12	20.6944	1787.39	20.9111
2119.84	20.2486	4091.55	20.4819	4263.05	20.6986	1777.91	20.9152
2126.3	20.2527	4079.79	20.4861	4273.74	20.7027	1774.23	20.9194
2125.91	20.2569	4082.27	20.4902	4264.63	20.7069	1771.95	20.9402
2130.19	20.2611	4085.58	20.4944	4273.2	20.7111	1769.42	20.9569
2130.01	20.2652	4076.97	20.4986	4280.78	20.7152	1767.08	20.9611
2132.93	20.2694	4067.02	20.5027	4276.55	20.7194	1764.88	20.9652
2130.86	20.2861	4076.59	20.5069	4286.03	20.7236	1772.22	20.9694
2130.57	20.2893	4088.05	20.5111	4272.55	20.7277	1770.2	20.9777
2231.98	20.2902	4082.52	20.5152	4281.29	20.7319	1766.86	20.9861
2672.22	20.2944	4088.93	20.5194	4280.98	20.7361	1763.52	20.9944
3106.58	20.2986	4103.71	20.5236	4277.27	20.7402	1760.15	21.0027
3373.37	20.3027	4107.75	20.5277	4287.67	20.7444	1756.7	21.0111
3536.83	20.3069	4108.14	20.5319	4266.42	20.7486	1753.3	21.0194
3658.72	20.3111	4126.41	20.5361	4266.74	20.7527	1749.85	21.0277
3736.45	20.3152	4143.04	20.5402	4269.13	20.7569	1746.4	21.0361
3784.82	20.3194	4145.67	20.5444	4261.41	20.7611	1742.92	21.0444
3800.27	20.3236	4169.91	20.5486	4270.4	20.7652	1739.45	21.0527
3801.71	20.3277	4186.58	20.5527	4260.18	20.7694	1735.94	21.0611
3816.78	20.3319	4171.28	20.5569	4266.41	20.7736	1732.49	21.0694



Pressure listings

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Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
1729.03	21.0777	2165.73	21.3819	2185.22	21.6361	3373.09	21.9027
1725.56	21.0861	2161.6	21.3861	2190.28	21.6402	3361.91	21.9069
1722.12	21.0944	2166.51	21.3902	2193.63	21.6611	3372.62	21.9111
1718.67	21.1027	2163.83	21.3944	2188.02	21.6652	3388.1	21.9152
1715.25	21.1111	2168.43	21.3986	2190.99	21.6694	3380.74	21.9194
1711.85	21.1194	2166.42	21.4027	2183.12	21.6736	3382.17	21.9277
1708.45	21.1277	2171.06	21.4069	2190.59	21.6777	3393.63	21.9319
1705.08	21.1361	2168.89	21.4111	2184.56	21.6819	3404.9	21.9361
1701.61	21.1444	2172.76	21.4152	2190.73	21.6861	3388.81	21.9402
1698.22	21.1527	2172.56	21.4277	2194.05	21.6986	3393.96	21.9444
1694.76	21.1611	2176.5	21.4319	2195.69	21.7069	3398.24	21.9486
1691.21	21.1694	2173.59	21.4361	2189.51	21.7111	3410.27	21.9527
1687.53	21.1777	2176.99	21.4402	2192.59	21.7152	3420.22	21.9569
1683.92	21.1861	2173.86	21.4444	2184.38	21.7194	3404.14	21.9611
1680.38	21.1944	2177.45	21.4486	2191.52	21.7236	3406.3	21.9652
1676.87	21.2027	2173.88	21.4527	2185.77	21.7277	3409.55	21.9694
1673.43	21.2111	2177.87	21.4569	2191.89	21.7319	3418.76	21.9736
1670.02	21.2194	2173.79	21.4611	2195.38	21.7444	3430.11	21.9777
1666.88	21.2277	2178.19	21.4652	2195.85	21.7527	3413.5	21.9819
1663.62	21.2361	2174.03	21.4694	2188.03	21.7569	3415.96	21.9861
1660.41	21.2444	2179.06	21.4736	2192.27	21.7611	3418.41	21.9902
1668.04	21.2486	2174.27	21.4777	2183.75	21.7652	3425.91	21.9944
1692.87	21.2527	2179.82	21.4819	2192.03	21.7694	3437.87	21.9986
1707.27	21.2569	2174.69	21.4861	2187.69	21.7736	3421.08	22.0027
1722.75	21.2611	2180.9	21.4902	2192.5	21.7777	3423.63	22.0069
1737.51	21.2652	2177	21.4944	2193.35	21.7861	3423.78	22.0111
1757.02	21.2694	2182.48	21.4986	2195.82	21.7902	3434	22.0152
1765.62	21.2736	2179.8	21.5027	2197.24	21.7926	3446.38	22.0194
1778.87	21.2777	2183.8	21.5069	2332.42	21.7944	3433.63	22.0236
1797.58	21.2819	2183.47	21.5111	2651.22	21.7986	3435.22	22.0277
1817.12	21.2861	2186.19	21.5152	2868.63	21.8027	3430.76	22.0319
1848.73	21.2902	2186.13	21.5194	3005.61	21.8069	3440.68	22.0361
1885.22	21.2944	2188.33	21.5236	3080.16	21.8111	3457.16	22.0402
1926.55	21.2986	2190.32	21.5444	3152.33	21.8152	3453.75	22.0444
1968.93	21.3027	2185.81	21.5486	3188.93	21.8194	3457.91	22.0486
2012.87	21.3069	2188.64	21.5527	3230.52	21.8236	3448.09	22.0527
2047.81	21.3111	2182.33	21.5569	3268.38	21.8277	3457.15	22.0569
2079.06	21.3152	2186.68	21.5611	3262.89	21.8319	3464.42	22.0611
2094.33	21.3194	2180.26	21.5652	3317.27	21.8361	3466.97	22.0652
2113.79	21.3236	2186.42	21.5694	3326.89	21.8402	3475.43	22.0694
2129.13	21.3277	2180.67	21.5736	3316.07	21.8444	3461.34	22.0736
2135.58	21.3319	2187.03	21.5777	3317.28	21.8527	3464.24	22.0777
2140.61	21.3361	2184.59	21.5819	3333.39	21.8569	3457.34	22.0819
2140.22	21.3402	2188.64	21.5861	3348.91	21.8611	3465.09	22.0861
2147.28	21.3444	2192.15	21.5986	3334.65	21.8652	3475.79	22.0902
2151.16	21.3486	2193.12	21.6069	3339.53	21.8694	3475.45	22.0944
2158.53	21.3527	2187.66	21.6111	3348.5	21.8736	3483.79	22.0986
2162.63	21.3569	2190.82	21.6152	3356.16	21.8777	3472.27	22.1027
2165.7	21.3652	2183.26	21.6194	3362.25	21.8819	3476.1	22.1069
2163.58	21.3694	2188.61	21.6236	3346.18	21.8861	3471.2	22.1111
2165.75	21.3736	2181.74	21.6277	3356.54	21.8902	3478.07	22.1152
2161.99	21.3777	2189.31	21.6319	3372.34	21.8944	3487.08	22.1194



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3475.94	22.1236	4571.18	22.3402	4605.12	22.6986	4680.64	22.9861
3475.7	22.1277	4575.51	22.3444	4602.36	22.7027	4675.97	22.9902
3456.07	22.1319	4577.69	22.3486	4600.14	22.7111	4672.72	22.9944
3439.58	22.1361	4577.54	22.3527	4599.95	22.7152	4676.05	22.9986
3444.95	22.1402	4569.73	22.3569	4602.64	22.7194	4676.09	23.0027
3463.36	22.1444	4566.81	22.3611	4599.14	22.7444	4668.62	23.0069
3473.58	22.1486	4568.53	22.3694	4599.05	22.7486	4668.49	23.0111
3476.55	22.1527	4573.39	22.3736	4601.44	22.7527	4671.57	23.0152
3470.7	22.1569	4579.82	22.3777	4598.37	22.7736	4671.97	23.0194
3484.15	22.1611	4583.34	22.3819	4596.19	22.7819	4666.03	23.0236
3494.22	22.1652	4587.37	22.3861	4645.36	22.7861	4668.24	23.0277
3475.76	22.1694	4589.63	22.3902	4727.44	22.7902	4670.87	23.0319
3480.31	22.1736	4589.95	22.3944	4750.95	22.7944	4668.65	23.0361
3495.3	22.1777	4592.55	22.3986	4761.07	22.7986	4665.27	23.0402
3487.55	22.1819	4595.42	22.4027	4763.15	22.8027	4668.27	23.0444
3484.15	22.1861	4600.59	22.4069	4761.5	22.8069	4668.59	23.0486
3483.73	22.1902	4605.93	22.4111	4752.8	22.8111	4662.42	23.0527
3494.11	22.1944	4611.55	22.4152	4752.65	22.8152	4661.36	23.0569
3498.78	22.1986	4616.08	22.4194	4755.12	22.8194	4668.33	23.0611
3477.39	22.2027	4615.17	22.4361	4755.07	22.8236	4668.36	23.0652
3483.21	22.2069	4624.29	22.4402	4748.17	22.8277	4662.5	23.0694
3497.93	22.2111	4624.43	22.4444	4745.17	22.8319	4664.69	23.0736
3482.43	22.2152	4615.56	22.4486	4747.53	22.8361	4667.31	23.0777
3479.62	22.2194	4613.55	22.4569	4747.44	22.8402	4661.88	23.0819
3487.57	22.2236	4613.02	22.4611	4742.4	22.8444	4657.25	23.0861
3492.43	22.2277	4609.34	22.4652	4738.87	22.8486	4659.53	23.0902
3491.99	22.2319	4611.47	22.4902	4742.28	22.8527	4659.72	23.0944
3480.44	22.2361	4611.68	22.4944	4742.23	22.8569	4653.53	23.0986
3480.1	22.2402	4608.71	22.4986	4736.29	22.8611	4655.57	23.1111
3483.93	22.2444	4606.62	22.5027	4732.99	22.8652	4650.96	23.1152
3457.57	22.2486	4608.77	22.5236	4736.4	22.8694	4654.42	23.1194
3461.67	22.2527	4609.3	22.5277	4736.92	22.8736	4657.7	23.1236
3477.29	22.2569	4606.28	22.5319	4731.45	22.8777	4653.71	23.1277
3456.79	22.2611	4599.13	22.5361	4730.07	22.8819	4651.66	23.1319
3461.39	22.2652	4599.27	22.5486	4734.19	22.8861	4655.34	23.1361
3479.34	22.2694	4602.53	22.5527	4734.63	22.8902	4655.45	23.1402
3461.23	22.2736	4605.58	22.5611	4728.8	22.8944	4649.01	23.1444
3461.29	22.2777	4605.35	22.5652	4730.1	22.9069	4649.15	23.1486
3479.57	22.2819	4602.54	22.5694	4701.04	22.9111	4652.25	23.1527
3464.44	22.2861	4601.84	22.5819	4698.06	22.9152	4652.67	23.1569
3648.79	22.2902	4605.27	22.5861	4702.28	22.9194	4647.19	23.1611
3999.74	22.2944	4605.51	22.5902	4701.96	22.9236	4649.83	23.1652
4267.48	22.2986	4608.03	22.5944	4692.37	22.9277	4643.98	23.1694
4414.56	22.3027	4607.97	22.5986	4693.61	22.9402	4642.05	23.1736
4486.3	22.3069	4604.72	22.6027	4687.09	22.9444	4647.08	23.1777
4528.74	22.3111	4604.32	22.6277	4686.66	22.9569	4641.25	23.1819
4546.23	22.3152	4601.76	22.6319	4679.24	22.9611	4645.5	23.1861
4562.75	22.3194	4597.78	22.6361	4679.5	22.9652	4648.43	23.1902
4568.24	22.3236	4596.62	22.6486	4681.75	22.9694	4646.38	23.1944
4572.78	22.3277	4600.57	22.6527	4681.59	22.9736	4644.25	23.1986
4568.83	22.3319	4598.48	22.6819	4675.9	22.9777	4647.97	23.2027
4568.56	22.3361	4602.94	22.6861	4679	22.9819	4649.47	23.2069



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
4643.51	23.2111	4669.17	23.5527	4356.64	23.8319	3999.04	24.0902
4645.21	23.2236	4668.73	23.5569	4354.82	23.8361	3994.44	24.0944
4638.97	23.2277	4674.7	23.5611	4351.93	23.8402	3988.93	24.0986
4642.65	23.2361	4531.37	23.5652	4348.76	23.8444	3987.24	24.1069
4642.33	23.2402	4502.68	23.5694	4345.44	23.8486	3984.86	24.1111
4638.67	23.2444	4492.76	23.5736	4342.98	23.8569	3974.47	24.1152
4639.71	23.2486	4488	23.5777	4340.62	23.8694	3965.61	24.1194
4642.07	23.2527	4481.89	23.5819	4338.21	23.8819	3962.58	24.1236
4637.27	23.2569	4475.77	23.5861	4335.68	23.8861	3958.29	24.1277
4636.91	23.2611	4472.97	23.5902	4332.62	23.8902	3954.88	24.1319
4639.4	23.2652	4471.19	23.5944	4328.92	23.8944	3957.34	24.1361
4639.34	23.2694	4469.07	23.5986	4325.21	23.8986	3955.25	24.1402
4632.48	23.2736	4467.45	23.6027	4322.84	23.9027	3942.85	24.1444
4634.57	23.2777	4462.9	23.6069	4320.2	23.9152	3935.17	24.1486
4637.01	23.2819	4457.03	23.6111	4318.17	23.9236	3932.84	24.1527
4631.59	23.2861	4455.32	23.6152	4316.16	23.9319	3929.61	24.1569
4631.61	23.2902	4452.67	23.6194	4314.67	23.9402	3934.15	24.1611
4634.6	23.2944	4447.92	23.6236	4312.51	23.9444	3931.24	24.1652
4631.85	23.2986	4444.29	23.6277	4309.91	23.9486	3919.44	24.1694
4629.46	23.3027	4442.98	23.6402	4307.09	23.9527	3917.56	24.1736
4631.78	23.3069	4440.28	23.6444	4304.36	23.9569	3913.8	24.1777
4631.96	23.3111	4434.27	23.6486	4260.2	23.9611	3918.3	24.1819
4627.19	23.3152	4431.86	23.6569	4226.97	23.9652	3917.91	24.1861
4692.77	23.3194	4430.22	23.6652	4205.06	23.9694	3905.43	24.1902
4697.88	23.3236	4428.16	23.6694	4190.68	23.9736	3903.31	24.1944
4697.99	23.3277	4424.48	23.6736	4179.5	23.9777	3900.27	24.1986
4694.45	23.3319	4420.59	23.6777	4169.59	23.9819	3906.22	24.2027
4697.42	23.3361	4418.14	23.6861	4159.94	23.9861	3897.26	24.2069
4697.17	23.3486	4415.48	23.6986	4150.65	23.9902	3889.55	24.2111
4694.96	23.3527	4411.47	23.7027	4141.71	23.9944	3887.9	24.2152
4697.02	23.3569	4406.98	23.7069	4133.91	23.9986	3891.73	24.2194
4697.07	23.3652	4404.27	23.7111	4126.39	24.0027	3893.29	24.2236
4693.65	23.3694	4403.39	23.7194	4119.05	24.0069	3881.39	24.2277
4694.66	23.3819	4395.93	23.7236	4111.95	24.0111	3882.61	24.2361
4690.88	23.3861	4397.74	23.7277	4104.94	24.0152	3887.25	24.2402
4691.79	23.3986	4390.24	23.7319	4097.87	24.0194	3874.62	24.2444
4687.29	23.4027	4392.9	23.7361	4090.97	24.0236	3876.28	24.2569
4688.03	23.4277	4385.44	23.7402	4084.29	24.0277	3861.98	24.2611
4683.93	23.4319	4389.04	23.7444	4077.36	24.0319	3863.43	24.2694
4686.21	23.4402	4381.06	23.7486	4071.49	24.0361	3868.24	24.2736
4683.57	23.4444	4383.96	23.7527	4066.11	24.0402	3856.27	24.2777
4683.45	23.4652	4375.73	23.7569	4060.11	24.0444	3856.13	24.2819
4680.77	23.4694	4379.22	23.7611	4053.78	24.0486	3862.79	24.2861
4681.64	23.5027	4380.68	23.7652	4047.1	24.0527	3857.34	24.2902
4676.64	23.5069	4372.85	23.7694	4041.4	24.0569	3851.83	24.2944
4679.27	23.5111	4374.87	23.7736	4037.68	24.0611	3849.91	24.2986
4679.44	23.5152	4374.38	23.7861	4035.58	24.0652	3857.67	24.3027
4677.25	23.5194	4369.41	23.7902	4033.58	24.0694	3843.56	24.3069
4677.51	23.5361	4369	23.7944	4029.42	24.0736	3841.87	24.3111
4674.6	23.5402	4366.28	23.7986	4020.54	24.0777	3848.29	24.3152
4670.47	23.5444	4360.87	23.8027	4010.36	24.0819	3844.78	24.3194
4672.47	23.5486	4358.85	23.8111	4002.68	24.0861	3837.75	24.3236



Pressure listings

Analysis 5 - 2-phi



Company Altamont Oil & Gas
Well Wallewein #22-1

Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr
3837.38	24.3277
3846.57	24.3319
3834.4	24.3361
3832.71	24.3402
3838.59	24.3444
3831.23	24.3486
3826.46	24.3527
3828.98	24.3569
3832.32	24.3611
3824.03	24.3652
3823.97	24.3694
3831.93	24.3736
3819.32	24.3777
3818.92	24.3819
3827.46	24.3861
3812.58	24.3902
3812.23	24.3944
3820.57	24.3986
3812.85	24.4027
3810.97	24.4069
3817.98	24.4111
3811.89	24.4152
3808.06	24.4194
3812.52	24.4236
3806.71	24.4277
3802.3	24.4319
3807.89	24.4361
3805.16	24.4402
3801.45	24.4444
3805.59	24.4486
3803.53	24.4527
3798.57	24.4569
3800.91	24.4611
3798.06	24.4652
3791.64	24.4694
3796.59	24.4736
3796.45	24.4777
3792.32	24.4819
3797.4	24.4861
3793.81	24.4902
3789.37	24.4944
3794.83	24.4986
3787.08	24.5027
3783.7	24.5069
3793.18	24.5111
3783.77	24.5152
3783.58	24.5194
3794.16	24.5236
3781.6	24.5277
3779.83	24.5319
3789.14	24.5361
3774.74	24.5402

Pressure psia	Time hr
3776.2	24.5444
3792	24.5486
4217.16	24.5527
4474.31	24.5569
4553.13	24.5611
4583.6	24.5652
4597.01	24.5694
4593.85	24.5736
4592.29	24.5777
4597.32	24.5819
4597.63	24.5861
4593.36	24.5902
4593.81	24.5944
4597.04	24.5986
4598.97	24.6027
4593.33	24.6069
4592.81	24.6111
4596.49	24.6152
4596.19	24.6194
4591.53	24.6236
4592.88	24.6277
4596.03	24.6319
4592.94	24.6361
4590.8	24.6402
4595.1	24.6444
4596.99	24.6486
4590.93	24.6527
4590.62	24.6569
4594.39	24.6611
4590.96	24.7194
4590.85	24.7277
4587.99	24.7319
4588.89	24.7402
4584.52	24.7444
4589.55	24.7486
4589.64	24.7569
4587.34	24.7611
4590.02	24.7652
4591.78	24.8944
4586.64	24.8986
4591.29	24.9027
4591.28	24.9069
4587.45	24.9111
4591.29	24.9152
4591.31	24.9194
4588.72	24.9236
4590.36	24.9277
4593.18	24.9319
4588.33	24.9361
4591.29	24.9402
4590.66	24.9652
4594.75	24.9694

Pressure psia	Time hr
4590.78	24.9736
4590.84	24.9777
4594.32	24.9819
4591.27	24.9861
4591.21	24.9902
4593.35	24.9944
4593.31	24.9986
4589.49	25.0027
4593.86	25.0069
4593.4	25.0111
4590.19	25.0152
4593.75	25.0194
4593.52	25.0236
4590.73	25.0277
4592.98	25.0319
4595.49	25.0361
4614.46	25.0402
4651.82	25.0444
4649.76	25.0736
4647.53	25.0819
4647.75	25.1319
4645.47	25.1361
4643.42	25.1777
4643.66	25.1902
4641.03	25.1944
4644.05	25.2069
4641.68	25.2111
4641.78	25.2444
4639.57	25.2486
4642.31	25.2611
4639.12	25.2652
4641.19	25.2777
4639.29	25.2819
4634.43	25.2861
4634.77	25.2902
4473.03	25.2944
4411.52	25.2986
4381.25	25.3027
4361.11	25.3069
4341.14	25.3111
4318.28	25.3152
4292.79	25.3194
4265.55	25.3236
4235.98	25.3277
4201.25	25.3319
4187.36	25.3336
4159.84	25.3361
4113.97	25.3402
4062.47	25.3444
4003.6	25.3486
3934.68	25.3527
3852.72	25.3569

Pressure psia	Time hr
3756	25.3611
3644.18	25.3652
3521.49	25.3694
3395.72	25.3736
3274.87	25.3777
3169.5	25.3819
3077.47	25.3861
2994.82	25.3902
2919.94	25.3944
2856.08	25.3986
2800.99	25.4027
2751.68	25.4069
2707.51	25.4111
2667.08	25.4152
2629.74	25.4194
2595.16	25.4236
2563.18	25.4277
2532.68	25.4319
2503.97	25.4361
2476.8	25.4402
2451	25.4444
2426.58	25.4486
2403.26	25.4527
2381.17	25.4569
2360.26	25.4611
2340.05	25.4652
2320.94	25.4694
2302.62	25.4736
2285.16	25.4777
2268.33	25.4819
2252.21	25.4861
2236.74	25.4902
2221.77	25.4944
2207.28	25.4986
2193.38	25.5027
2179.86	25.5069
2166.8	25.5111
2153.99	25.5152
2141.39	25.5194
2128.9	25.5236
2116.09	25.5277
2103.25	25.5319
2089.83	25.5361
2076.1	25.5402
2062.61	25.5444
2050.38	25.5486
2039.57	25.5527
2029.86	25.5569
2021.16	25.5611
2013.14	25.5652
2005.66	25.5694
1998.55	25.5736



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
1991.52	25.5777	1803.46	25.7944	1675.04	26.6652	1560.66	27.8486
1984.26	25.5819	1801.41	25.7986	1672.83	26.6819	1558.55	27.8819
1977	25.5861	1797.52	25.8069	1670.64	26.6986	1556.48	27.9152
1970.07	25.5902	1793.8	25.8152	1668.45	26.7152	1554.44	27.9486
1963.54	25.5944	1790.26	25.8236	1666.29	26.7319	1552.3	27.9819
1957.3	25.5986	1786.67	25.8319	1664.14	26.7486	1550.18	28.0194
1951.23	25.6027	1782.81	25.8402	1661.84	26.7652	1548.15	28.0569
1945.48	25.6069	1779.96	25.8527	1659.73	26.7819	1546.07	28.0944
1940	25.6111	1777.53	25.8652	1657.27	26.8027	1544.04	28.1319
1934.79	25.6152	1776.46	25.8986	1655.19	26.8194	1541.84	28.1736
1929.77	25.6194	1771.62	25.9027	1653.13	26.8361	1539.69	28.2152
1925.24	25.6236	1768.5	25.9069	1651.09	26.8527	1537.6	28.2569
1920.94	25.6277	1766.36	25.9486	1649.06	26.8694	1535.57	28.2986
1916.69	25.6319	1764.19	25.9777	1647.06	26.8861	1533.39	28.3444
1912.45	25.6361	1762.1	26.0027	1644.58	26.9069	1531.28	28.3902
1908.45	25.6402	1759.77	26.0277	1642.14	26.9277	1529.22	28.4361
1904.51	25.6444	1757.67	26.0486	1639.72	26.9486	1527.22	28.4819
1900.63	25.6486	1755.44	26.0694	1637.34	26.9694	1525.08	28.5319
1896.9	25.6527	1753.11	26.0902	1634.97	26.9902	1523.01	28.5819
1893.2	25.6569	1750.68	26.1111	1632.63	27.0111	1520.99	28.6319
1889.62	25.6611	1748.67	26.1277	1630.32	27.0319	1518.85	28.6861
1886.12	25.6652	1746.49	26.1486	1628.04	27.0527	1516.76	28.7402
1882.72	25.6694	1744	26.1652	1625.79	27.0736	1514.74	28.7944
1879.39	25.6736	1741.81	26.1819	1623.57	27.0944	1512.62	28.8527
1876.24	25.6777	1739.63	26.1986	1621.37	27.1152	1510.56	28.9111
1873.04	25.6819	1737.42	26.2152	1619.21	27.1361	1508.56	28.9694
1869.87	25.6861	1735.17	26.2319	1617.08	27.1569	1506.49	29.0319
1866.77	25.6902	1732.9	26.2486	1614.97	27.1777	1504.47	29.0944
1863.71	25.6944	1730.61	26.2652	1612.9	27.1986	1502.39	29.1611
1860.73	25.6986	1728.31	26.2819	1610.86	27.2194	1500.37	29.2277
1857.77	25.7027	1725.99	26.2986	1608.85	27.2402	1498.31	29.2944
1854.87	25.7069	1723.67	26.3152	1606.46	27.2652	1496.23	29.3652
1852.04	25.7111	1721.32	26.3319	1604.11	27.2902	1494.12	29.4486
1849.27	25.7152	1718.97	26.3486	1601.8	27.3152	1492.02	29.5277
1846.47	25.7194	1716.63	26.3652	1599.53	27.3402	1489.99	29.6069
1843.75	25.7236	1714.28	26.3819	1597.3	27.3652	1487.92	29.6902
1841.08	25.7277	1711.93	26.3986	1595.09	27.3902	1485.83	29.7777
1838.43	25.7319	1709.57	26.4152	1592.93	27.4152	1483.81	29.8652
1835.84	25.7361	1707.22	26.4319	1590.81	27.4402	1481.77	29.9569
1833.3	25.7402	1704.87	26.4486	1588.72	27.4652	1479.71	30.0527
1830.77	25.7444	1702.52	26.4652	1586.65	27.4902	1477.64	30.1527
1828.31	25.7486	1700.17	26.4819	1584.63	27.5152	1475.57	30.2569
1825.87	25.7527	1697.83	26.4986	1582.31	27.5444	1473.49	30.3652
1823.47	25.7569	1695.5	26.5152	1580.03	27.5736	1471.43	30.4777
1821.12	25.7611	1693.18	26.5319	1577.8	27.6027	1469.37	30.5944
1818.75	25.7652	1690.87	26.5486	1575.61	27.6319	1467.32	30.7152
1816.47	25.7694	1688.57	26.5652	1573.48	27.6611	1465.29	30.8402
1814.22	25.7736	1686.29	26.5819	1571.37	27.6902	1463.27	30.9694
1811.99	25.7777	1684.01	26.5986	1569.31	27.7194	1461.22	31.1027
1809.81	25.7819	1681.75	26.6152	1567.29	27.7486	1459.18	31.2277
1807.65	25.7861	1679.51	26.6319	1565.03	27.7819	1457.16	31.3986
1805.53	25.7902	1677.28	26.6486	1562.82	27.8152	1455.15	31.5527



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
1453.13	31.7152	2342.16	42.4889	2761.75	42.7097	3012.64	42.9305
1451.11	31.8861	2471.77	42.493	2765.57	42.7139	3001.18	42.9347
1449.1	32.0652	2538.76	42.4972	2771.72	42.718	3014.45	42.9389
1447.09	32.2527	2569.11	42.5014	2776.06	42.7222	3005.93	42.943
1445.06	32.4527	2602.99	42.5055	2763.08	42.7264	3017.34	42.9472
1443.04	32.6652	2620.52	42.5097	2772.81	42.7305	3017.4	42.9514
1441.01	32.8902	2631.14	42.5139	2777.93	42.7347	3010.29	42.9555
1438.99	33.1277	2628.2	42.518	2778.21	42.7389	3017.91	42.9597
1436.96	33.3819	2646.52	42.5222	2767.33	42.743	3005.53	42.9639
1434.96	33.6486	2656.48	42.5264	2779.53	42.7472	3020.65	42.968
1432.94	33.9361	2652.35	42.5305	2784.94	42.7514	3016.34	42.9722
1430.92	34.2444	2656.96	42.5347	2818.45	42.7555	3018.69	42.9764
1428.9	34.5736	2666.47	42.5389	2882.91	42.7597	3021.82	42.9805
1426.89	34.9277	2674.4	42.543	2924.98	42.7639	3016.43	42.9847
1424.88	35.3069	2664.54	42.5472	2931.03	42.768	3033.88	42.9889
1422.88	35.7152	2680.79	42.5514	2953.13	42.7722	3028.48	42.993
1420.87	36.1611	2689.28	42.5555	2950.93	42.7764	3039.22	42.9972
1418.86	36.6444	2688.67	42.5639	2969.72	42.7805	3039.51	43.0014
1416.85	37.1694	2701.38	42.568	2971.31	42.7847	3030.97	43.0055
1414.85	37.7444	2709.28	42.5722	2965.09	42.7889	3042.75	43.0097
1412.84	38.3777	2693.3	42.5764	2976.64	42.793	3034.97	43.0139
1410.83	39.0777	2708.98	42.5805	2968.22	42.7972	3046.26	43.018
1408.99	39.7861	2715.86	42.5847	2985.08	42.8014	3046.28	43.0222
1408.98	39.7889	2710.65	42.5889	2985.12	42.8055	3037.82	43.0264
1406.97	40.643	2710.42	42.593	2979.18	42.8097	3049.28	43.0305
1404.97	41.5972	2721	42.5972	2986.9	42.8139	3041.59	43.0347
1404.27	42.3764	2727.46	42.6014	2976.97	42.818	3052.98	43.0389
1407.63	42.3805	2713.99	42.6055	2992.46	42.8222	3053.14	43.043
1476.06	42.3847	2727.1	42.6097	2992.87	42.8264	3044.82	43.0472
1573.39	42.3889	2732.69	42.6139	2988.99	42.8305	3056.95	43.0514
1599.49	42.393	2727.8	42.618	2998.32	42.8347	3049.19	43.0555
1651.22	42.3972	2724.29	42.6222	2989.8	42.8389	3059.69	43.0597
1743.03	42.4014	2733.7	42.6264	3006.16	42.843	3061.33	43.0639
2161.49	42.4055	2740.49	42.6305	3006.29	42.8472	3051.72	43.068
1976.25	42.4097	2728.19	42.6347	2998.6	42.8514	3066.07	43.0722
1789.17	42.4139	2740.16	42.6389	3010	42.8555	3059.89	43.0764
1748.93	42.418	2745.64	42.643	3002.22	42.8597	3065.5	43.0805
1760.46	42.4222	2745.5	42.6472	3015.79	42.8639	3063.73	43.0847
1760.29	42.4264	2738.05	42.6514	3018.04	42.868	3050.72	43.0889
1757.44	42.4305	2750.55	42.6555	3008.44	42.8722	3065.93	43.093
1754.75	42.4347	2757.21	42.6597	3021.2	42.8764	3060.09	43.0972
1751.93	42.4389	2744.99	42.6639	3013.6	42.8805	3061.69	43.1014
1749.16	42.443	2752.09	42.668	3021.51	42.8847	3064.03	43.1055
1746.39	42.4472	2757.87	42.6722	3021.93	42.8889	3053.1	43.1097
1743.63	42.4514	2759.86	42.6764	3010.39	42.893	3068.9	43.1139
1740.83	42.4555	2747.35	42.6805	3025.48	42.8972	3064.05	43.118
1771.03	42.4597	2760.14	42.6847	3020.67	42.9014	3067.38	43.1222
1779.77	42.4639	2765.95	42.6889	3023.21	42.9055	3070.49	43.1264
1780.42	42.4764	2760.65	42.693	3023.09	42.9097	3060.13	43.1305
1780.55	42.4801	2755.71	42.6972	3005.81	42.9139	3076.31	43.1347
1805.04	42.4805	2766.29	42.7014	3018.48	42.918	3072.12	43.1389
2059.42	42.4847	2773.12	42.7055	3011.54	42.9222	3077	43.143



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3081.06	43.1472	3151.27	43.3722	3147.3	43.5889	3141.63	43.8055
3072.25	43.1514	3141.18	43.3764	3142.5	43.593	3134.62	43.8097
3089.94	43.1555	3152.93	43.3805	3141.41	43.5972	3139.05	43.8139
3089.69	43.1639	3151.99	43.3847	3148.54	43.6014	3142.75	43.818
3094.34	43.168	3140.35	43.3889	3145.03	43.6055	3136.51	43.8222
3084.69	43.1722	3152.78	43.393	3138.58	43.6097	3139.31	43.8264
3100.15	43.1764	3151.38	43.3972	3148.86	43.6139	3141.91	43.8305
3100.18	43.1805	3140.84	43.4014	3146.43	43.618	3134.97	43.8347
3093.45	43.1847	3152.92	43.4055	3137.46	43.6222	3139.53	43.8389
3104.54	43.1889	3148.82	43.4097	3150.12	43.6264	3144.79	43.843
3098.59	43.193	3144.81	43.4139	3146.7	43.6305	3137.58	43.8472
3108.73	43.1972	3150.3	43.418	3134.36	43.6347	3137.71	43.8514
3109.11	43.2014	3142.59	43.4222	3149.61	43.6389	3143.74	43.8555
3098.43	43.2055	3146.99	43.4264	3147.02	43.643	3138.7	43.8597
3116.53	43.2097	3148.82	43.4305	3133.88	43.6472	3138.84	43.8639
3115.04	43.2139	3140.42	43.4347	3149.13	43.6514	3144.75	43.868
3112.13	43.218	3150.76	43.4389	3147.32	43.6555	3139.28	43.8722
3121.36	43.2222	3148.8	43.443	3135.96	43.6597	3139.58	43.8764
3113.24	43.2264	3137.94	43.4472	3146.47	43.6639	3145.78	43.8805
3125.07	43.2305	3150.92	43.4514	3146.33	43.668	3140.65	43.8847
3127.79	43.2347	3148.64	43.4555	3136.57	43.6722	3140.49	43.8889
3117.88	43.2389	3140.24	43.4597	3140.79	43.6764	3147.28	43.893
3134.2	43.243	3150.92	43.4639	3142.26	43.6805	3142.23	43.8972
3130.42	43.2472	3146.8	43.468	3133.45	43.6847	3142.01	43.9014
3120.28	43.2514	3146.06	43.4722	3139.27	43.6889	3147.42	43.9055
3131.11	43.2555	3150.71	43.4764	3141.35	43.693	3143.1	43.9097
3125.31	43.2597	3146.19	43.4805	3132.52	43.6972	3143.24	43.9139
3127.54	43.2639	3146.47	43.4847	3138.79	43.7014	3148.41	43.918
3130.52	43.268	3151.37	43.4889	3139.34	43.7055	3143.18	43.9222
3121.45	43.2722	3145.62	43.493	3130.91	43.7097	3143.81	43.9264
3134.83	43.2764	3146.49	43.4972	3138.93	43.7139	3149.4	43.9305
3131.8	43.2805	3151.13	43.5014	3139.38	43.718	3143.44	43.9347
3123.76	43.2847	3144.26	43.5055	3129.5	43.7222	3146.72	43.9389
3142.22	43.2889	3147.09	43.5097	3138.77	43.7264	3149.99	43.943
3142.34	43.2972	3150.57	43.5139	3139.12	43.7305	3142.12	43.9472
3151.64	43.3014	3143.09	43.518	3131.17	43.7347	3148.63	43.9514
3148.97	43.3055	3146.83	43.5222	3139	43.7389	3151.13	43.9555
3155.52	43.3097	3150.55	43.5264	3139.17	43.743	3144.3	43.9597
3152.21	43.3139	3143.78	43.5305	3131.47	43.7472	3142.87	43.9639
3140.5	43.318	3146.93	43.5347	3139.49	43.7514	3150.62	43.968
3150.44	43.3222	3151.41	43.5389	3139.3	43.7555	3145.16	43.9722
3148.83	43.3264	3142.06	43.543	3130.89	43.7597	3128.52	43.9764
3137.64	43.3305	3142.45	43.5472	3140.44	43.7639	3122.56	43.9805
3153.18	43.3347	3145.11	43.5514	3140.27	43.768	3129.29	43.9847
3150.51	43.3389	3137.54	43.5555	3131.66	43.7722	3133.58	43.9889
3140.06	43.343	3141.2	43.5597	3139.14	43.7764	3129.76	43.993
3151.36	43.3472	3145.65	43.5639	3139.41	43.7805	3129.66	43.9972
3145.9	43.3514	3138.97	43.568	3132.06	43.7847	3125.17	44.0014
3145.97	43.3555	3141.66	43.5722	3139.65	43.7889	3115.91	44.0055
3150.28	43.3597	3146.3	43.5764	3139.98	43.793	3115.71	44.0097
3140.77	43.3639	3141.35	43.5805	3131.77	43.7972	3125.89	44.0139
3153.16	43.368	3141.76	43.5847	3138.77	43.8014	3131.56	44.018



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3128.55	44.0222	3188.43	44.3847	3085.35	44.6055	3155.44	44.8889
3128.77	44.0264	3183.98	44.3889	3070.87	44.6097	3146.39	44.893
3121.89	44.0305	3189.48	44.393	3089.39	44.6139	3153.72	44.8972
3129.58	44.0347	3180.49	44.3972	3094.14	44.618	3156.44	44.9014
3143.31	44.0389	3160.52	44.4014	3074.82	44.6222	3152.9	44.9055
3139.19	44.043	3170.66	44.4055	3086.11	44.6264	3146.91	44.9097
3147.11	44.0472	3165.91	44.4097	3088.55	44.6305	3158.66	44.9139
3150.67	44.0514	3155.14	44.4139	3088.24	44.6347	3156.33	44.918
3141.7	44.0555	3159.98	44.418	3072.18	44.6389	3143.65	44.9222
3153.63	44.0597	3164.08	44.4222	3089.88	44.643	3157.83	44.9264
3153.29	44.0639	3160.46	44.4264	3094.75	44.6472	3157.78	44.9305
3141.65	44.068	3154.03	44.4305	3074.22	44.6514	3151.64	44.9347
3134.87	44.0722	3156.4	44.4347	3086.86	44.6555	3151.4	44.9389
3110.29	44.0764	3148.49	44.4389	3089.47	44.6597	3159.13	44.943
3104.72	44.0805	3138.57	44.443	3086.4	44.6639	3157.22	44.9472
3102.23	44.0847	3108.24	44.4472	3075.39	44.668	3145.44	44.9514
3098.68	44.0889	3104.45	44.4514	3091.35	44.6722	3159.32	44.9555
3099.68	44.143	3107.9	44.4555	3100.56	44.6764	3157.15	44.9597
3102.07	44.1472	3107.74	44.4597	3104.88	44.6805	3148.2	44.9639
3104.27	44.1555	3104.15	44.4639	3108.17	44.6847	3154.1	44.968
3106.38	44.1597	3087.45	44.468	3111.13	44.6889	3158.06	44.9722
3106.56	44.1639	3091.82	44.4722	3111.89	44.6972	3155.85	44.9764
3108.73	44.168	3101.69	44.4764	3115.32	44.7014	3145.87	44.9805
3110.33	44.2264	3103.49	44.4847	3117.2	44.7055	3160.02	44.9847
3112.39	44.2305	3088.2	44.4889	3119.66	44.7097	3157.82	44.9889
3112.84	44.2347	3086.41	44.493	3123.42	44.7139	3146.54	44.993
3114.88	44.2389	3099.97	44.4972	3126.83	44.718	3154.96	44.9972
3113.42	44.2597	3099.98	44.5014	3129.82	44.7222	3158.66	45.0014
3111.22	44.2639	3104.14	44.5055	3132.46	44.7264	3156.35	45.0055
3108.64	44.268	3091.73	44.5097	3135.18	44.7305	3149.32	45.0097
3106.18	44.2722	3083.96	44.5139	3132.96	44.7764	3165.57	45.0139
3103.19	44.2764	3098.44	44.518	3131.88	44.7805	3163.85	45.018
3137.93	44.2805	3099.83	44.5222	3129.58	44.7847	3152.39	45.0222
3147.96	44.2847	3104.12	44.5264	3126.85	44.7889	3156.75	45.0264
3164.08	44.2889	3097.38	44.5305	3123.21	44.793	3162.42	45.0305
3165.66	44.293	3082.76	44.5347	3118.71	44.7972	3162.25	45.0347
3173.58	44.2972	3094.27	44.5389	3119.29	44.8139	3148.89	45.0389
3173.48	44.3014	3100.89	44.543	3122.25	44.818	3163.21	45.043
3179.56	44.3055	3100.87	44.5472	3124.75	44.8222	3160.93	45.0472
3178.13	44.3097	3075.81	44.5514	3127.51	44.8264	3153.38	45.0514
3182.49	44.3139	3075.61	44.5555	3130.01	44.8305	3155.06	45.0555
3179.53	44.318	3070.75	44.5597	3127.41	44.843	3163.28	45.0597
3183.16	44.3222	3057.45	44.5639	3131.84	44.8472	3163.07	45.0639
3179.92	44.3264	3063.47	44.568	3130.35	44.8514	3150.21	45.068
3183.99	44.3305	3046.06	44.5722	3145.23	44.8555	3164.13	45.0722
3180.33	44.3347	3058.07	44.5764	3149.83	44.8597	3164	45.0764
3184.14	44.3389	3037.67	44.5805	3146.54	44.8639	3159.29	45.0805
3180.26	44.343	3065.47	44.5847	3146.37	44.868	3156.57	45.0847
3184.61	44.3472	3079.43	44.5889	3155.29	44.8722	3168.88	45.0889
3184.47	44.3722	3063.96	44.593	3155	44.8764	3166.4	45.093
3186.81	44.3764	3082.03	44.5972	3144.25	44.8805	3154.49	45.0972
3184.35	44.3805	3085.51	44.6014	3158.23	44.8847	3163.92	45.1014



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3167.03	45.1055	3166.32	45.3305	3166.14	45.568	3167.62	45.7889
3164.44	45.1097	3154.55	45.3347	3164.65	45.5722	3167.84	45.7972
3153.46	45.1139	3162.74	45.3389	3152.89	45.5764	3160.48	45.8014
3167.94	45.118	3165.18	45.343	3164.97	45.5805	3172.15	45.8055
3164.46	45.1222	3163.18	45.3472	3163.6	45.5847	3168.87	45.8097
3158.85	45.1264	3154.06	45.3514	3158.46	45.5889	3161.56	45.8139
3159.27	45.1305	3167.44	45.3555	3158.45	45.593	3163.9	45.818
3165.77	45.1347	3164.27	45.3597	3164.73	45.5972	3171.71	45.8222
3165.98	45.1389	3156.41	45.3639	3164.78	45.6014	3170.06	45.8264
3154.81	45.143	3160.63	45.368	3153.86	45.6055	3157.44	45.8305
3165.58	45.1472	3166.42	45.3722	3164.84	45.6097	3169.87	45.8347
3164.34	45.1514	3164.78	45.3764	3164.09	45.6139	3169.82	45.8389
3159.72	45.1555	3152.74	45.3805	3159.69	45.618	3165.85	45.843
3159.04	45.1597	3166.13	45.3847	3157.85	45.6222	3159.7	45.8472
3166.52	45.1639	3164.26	45.3889	3166.86	45.6264	3173.03	45.8514
3165.46	45.168	3158.35	45.393	3165.7	45.6305	3170.23	45.8555
3154.66	45.1722	3156.52	45.3972	3154.55	45.6347	3160.13	45.8597
3165.5	45.1764	3167.09	45.4014	3163.23	45.6389	3164.87	45.8639
3164.81	45.1805	3164.89	45.4055	3162.49	45.6472	3170.24	45.868
3160.39	45.1847	3152.46	45.4097	3154.8	45.6514	3170.01	45.8722
3157.45	45.1889	3162.55	45.4139	3168.2	45.6555	3156.28	45.8764
3166.82	45.193	3164.86	45.418	3165.28	45.6597	3169.51	45.8805
3165.89	45.1972	3162.85	45.4222	3155.77	45.6639	3169.17	45.8847
3154.55	45.2014	3149.15	45.4264	3161.61	45.668	3164.52	45.8889
3164.53	45.2055	3140.09	45.4305	3165.74	45.6722	3160.49	45.893
3162.61	45.2139	3133.08	45.4347	3165.42	45.6764	3166.77	45.8972
3156.8	45.218	3128.23	45.4389	3153.92	45.6805	3134.55	45.9014
3167.17	45.2222	3128.64	45.443	3167.6	45.6847	3117.72	45.9055
3166.32	45.2264	3133.32	45.4472	3164.92	45.6889	3120.42	45.9097
3156.62	45.2305	3138.62	45.4514	3158.43	45.693	3119.99	45.9139
3162.99	45.2347	3141.36	45.4555	3158.37	45.6972	3105.44	45.918
3163.7	45.243	3140.17	45.4805	3167.48	45.7014	3095.27	45.9222
3155.98	45.2472	3137.11	45.4847	3165.4	45.7055	3109.6	45.9264
3167.48	45.2514	3151.61	45.4889	3153.63	45.7097	3107.96	45.9347
3165.01	45.2555	3159.26	45.493	3165.79	45.7139	3088.96	45.9389
3157.92	45.2597	3159.27	45.4972	3165.62	45.718	3103.8	45.943
3161.64	45.2639	3151.76	45.5014	3161.91	45.7222	3105.33	45.9472
3165.57	45.268	3166.57	45.5055	3157.14	45.7264	3111.35	45.9514
3165.33	45.2722	3164.4	45.5097	3169.51	45.7305	3095.62	45.9555
3154.82	45.2764	3156.52	45.5139	3167.34	45.7347	3095.26	45.9597
3167.05	45.2805	3160.06	45.518	3156.86	45.7389	3107.84	45.9639
3165.33	45.2847	3167.32	45.5222	3164.55	45.743	3109.49	45.968
3159.53	45.2889	3166.96	45.5264	3169.05	45.7472	3104.3	45.9722
3159.15	45.293	3153.33	45.5305	3168.84	45.7514	3089.14	45.9764
3166.8	45.2972	3165.89	45.5347	3157.12	45.7555	3106.33	45.9805
3166.61	45.3014	3165.77	45.5389	3170.71	45.7597	3106.32	45.9847
3154.39	45.3055	3161.81	45.543	3168.72	45.7639	3110.86	45.9889
3165.29	45.3097	3156.73	45.5472	3162.29	45.768	3093.82	45.993
3165.33	45.3139	3168.65	45.5514	3161.92	45.7722	3097.39	45.9972
3161.77	45.318	3165.99	45.5555	3171.39	45.7764	3107.34	46.0014
3156.2	45.3222	3157.02	45.5597	3169.68	45.7805	3109.42	46.0055
3168.64	45.3264	3161.88	45.5639	3157.78	45.7847	3100.93	46.0097



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3091.95	46.0139	3088.38	46.2347	3068.31	46.4514	3081.12	46.668
3107.89	46.018	3078.7	46.2389	3070.56	46.4555	3069.95	46.6722
3107.85	46.0264	3090.43	46.243	3051.35	46.4597	3072.68	46.6764
3090.37	46.0305	3063.88	46.2472	3065.4	46.4639	3073.39	46.6805
3103.29	46.0347	3083	46.2514	3042.83	46.468	3054.87	46.6847
3105.67	46.0389	3067.11	46.2555	3075.37	46.4722	3073.52	46.6889
3111.79	46.043	3083.04	46.2597	3060.11	46.4764	3054.02	46.693
3096.93	46.0472	3079.49	46.2639	3069.02	46.4805	3081.84	46.6972
3093.74	46.0514	3082.14	46.268	3069.17	46.4847	3074.83	46.7014
3108.8	46.0555	3089.63	46.2722	3052.43	46.4889	3069.21	46.7055
3109.18	46.0597	3067.31	46.2764	3064.98	46.493	3072.57	46.7097
3113.87	46.0639	3085.61	46.2805	3044	46.4972	3052.94	46.7139
3100.01	46.068	3055.55	46.2847	3076.23	46.5014	3074.84	46.718
3096.01	46.0722	3083.22	46.2889	3061.32	46.5055	3055.21	46.7222
3111.33	46.0764	3067.56	46.293	3074.58	46.5097	3081.32	46.7264
3110.98	46.0805	3071.03	46.2972	3074.71	46.5139	3074.21	46.7305
3116.28	46.0847	3071.29	46.3014	3057.4	46.518	3068.3	46.7347
3107.93	46.0889	3052.79	46.3055	3069.06	46.5222	3071.22	46.7389
3095.53	46.093	3065.82	46.3097	3047.52	46.5264	3052.61	46.743
3107.43	46.0972	3043.76	46.3139	3081.05	46.5305	3075.47	46.7472
3112.31	46.1014	3075.57	46.318	3067.91	46.5347	3057.61	46.7514
3114.52	46.1055	3060.56	46.3222	3074.58	46.5389	3080.84	46.7555
3114.44	46.1097	3071.91	46.3264	3076.81	46.543	3075.83	46.7597
3099.99	46.1139	3071.89	46.3305	3056.61	46.5472	3067.51	46.7639
3100.64	46.118	3056.08	46.3347	3071.74	46.5514	3071.86	46.768
3111.85	46.1222	3064.76	46.3389	3049.01	46.5555	3052.62	46.7722
3112.2	46.1264	3042.87	46.343	3082.16	46.5597	3076.12	46.7764
3115.65	46.1305	3072.38	46.3472	3070.79	46.5639	3058.01	46.7805
3105.57	46.1347	3054.27	46.3514	3071.18	46.568	3079.7	46.7847
3096.57	46.1389	3074.89	46.3555	3073.35	46.5722	3077.09	46.7889
3109.78	46.143	3071.17	46.3597	3051.73	46.5764	3065.38	46.793
3112.17	46.1472	3058.7	46.3639	3073.37	46.5805	3071.21	46.7972
3115.85	46.1514	3065.8	46.368	3053.79	46.5847	3049.03	46.8014
3111.48	46.1555	3043.94	46.3722	3081.71	46.5889	3078.17	46.8055
3097.5	46.1597	3070.37	46.3764	3075.33	46.593	3059.65	46.8097
3102.76	46.1639	3049.51	46.3805	3067.91	46.5972	3081.42	46.8139
3113.51	46.168	3075.04	46.3847	3071.09	46.6014	3076.89	46.818
3113.3	46.1722	3069.48	46.3889	3051.6	46.6055	3065.17	46.8222
3116.42	46.1764	3060.89	46.393	3076.55	46.6097	3071.4	46.8264
3103.32	46.1805	3065.19	46.3972	3059.32	46.6139	3051.1	46.8305
3097.14	46.1847	3046.38	46.4014	3079.33	46.618	3076.37	46.8347
3112.52	46.1889	3068.48	46.4055	3077.23	46.6222	3057.46	46.8389
3112.36	46.193	3049.37	46.4097	3063.61	46.6264	3082.41	46.843
3117.61	46.1972	3075.21	46.4139	3071.06	46.6305	3076.38	46.8472
3107.88	46.2014	3067.33	46.418	3049.7	46.6347	3066.18	46.8514
3096.35	46.2055	3064.33	46.4222	3079.13	46.6389	3071.43	46.8555
3109.45	46.2097	3066.75	46.4264	3063.2	46.643	3050.36	46.8597
3106.32	46.2139	3048.64	46.4305	3076.11	46.6472	3074.08	46.8639
3076.07	46.218	3066.32	46.4347	3076.1	46.6514	3053.32	46.868
3089.53	46.2222	3045.56	46.4389	3060.25	46.6555	3081.55	46.8722
3078.26	46.2264	3076.78	46.443	3070.4	46.6597	3073.27	46.8764
3088.72	46.2305	3064.59	46.4472	3050.46	46.6639	3066.82	46.8805



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3068.23	46.8847	3049.1	47.1014	3056.1	47.3222	3071.09	47.5389
3047.18	46.8889	3069.36	47.1055	3078.05	47.3264	3053.27	47.543
3068.54	46.893	3069.23	47.1097	3072.75	47.3305	3070.78	47.5472
3046.6	46.8972	3060.3	47.1139	3065.78	47.3347	3068.2	47.5514
3078.01	46.9014	3067.13	47.118	3069.86	47.3389	3056.84	47.5555
3065.85	46.9055	3048.59	47.1222	3051.65	47.343	3062.13	47.5597
3024.61	46.9097	3069.62	47.1264	3071.77	47.3472	3044.24	47.5639
3048.35	46.9139	3048.69	47.1305	3051.16	47.3514	3065.81	47.568
3054.58	46.918	3079.24	47.1347	3079.42	47.3555	3046.61	47.5722
3058.1	46.9222	3068.49	47.1389	3069.38	47.3597	3072.84	47.5764
3041.58	46.9264	3070.05	47.143	3069.94	47.3639	3063.34	47.5805
3058.08	46.9305	3073.03	47.1472	3071.99	47.368	3063.74	47.5847
3040.16	46.9347	3054.22	47.1514	3055.52	47.3722	3066.09	47.5889
3073.62	46.9389	3069.16	47.1555	3069.03	47.3764	3049.96	47.593
3058.39	46.943	3046.31	47.1597	3049.27	47.3805	3062.48	47.5972
3072.7	46.9472	3077.91	47.1639	3078.59	47.3847	3041.56	47.6014
3072.61	46.9514	3061.64	47.168	3066.45	47.3889	3070.44	47.6055
3059.69	46.9555	3074.4	47.1722	3072.71	47.393	3055.03	47.6097
3066.63	46.9597	3074.09	47.1764	3073.26	47.3972	3066.75	47.6139
3046.45	46.9639	3060.24	47.1805	3055.7	47.4014	3067.06	47.618
3073.29	46.968	3067.79	47.1847	3068.36	47.4055	3054.54	47.6222
3060.04	46.9722	3047.74	47.1889	3046.74	47.4097	3062.02	47.6264
3069.09	46.9764	3074.68	47.193	3078.46	47.4139	3042.47	47.6305
3069.49	46.9805	3057.54	47.1972	3062.39	47.418	3067.14	47.6347
3045.06	46.9847	3078.03	47.2014	3075.88	47.4222	3047.59	47.6389
3068.68	46.9889	3073.86	47.2055	3075.69	47.4264	3071.9	47.643
3052.3	46.993	3063.32	47.2097	3059.69	47.4305	3064.22	47.6472
3076.87	46.9972	3069.02	47.2139	3068.68	47.4347	3061.64	47.6514
3070.84	47.0014	3050.23	47.218	3046.43	47.4389	3064.24	47.6555
3063.84	47.0055	3071.9	47.2222	3076.83	47.443	3047.28	47.6597
3069.58	47.0097	3052.6	47.2264	3059.15	47.4472	3062.73	47.6639
3049.12	47.0139	3078.74	47.2305	3078.1	47.4514	3042.71	47.668
3069.44	47.018	3070.36	47.2347	3074.87	47.4555	3072.09	47.6722
3047.2	47.0222	3072.18	47.243	3062.96	47.4597	3058.54	47.6764
3078.83	47.0264	3053.98	47.2472	3069.09	47.4639	3067.2	47.6805
3065.71	47.0305	3070.34	47.2514	3046.75	47.468	3067.48	47.6847
3070.77	47.0347	3049.2	47.2555	3071.13	47.4722	3054.46	47.6889
3072.39	47.0389	3079.28	47.2597	3051.13	47.4764	3061.63	47.693
3055.98	47.043	3066.94	47.2639	3074.53	47.4805	3041.3	47.6972
3066.45	47.0472	3072.27	47.268	3067.17	47.4847	3067.67	47.7014
3066.1	47.0514	3072.96	47.2722	3060.3	47.4889	3047.29	47.7055
3031.24	47.0555	3058.41	47.2764	3064.76	47.493	3073.29	47.7097
3062.14	47.0597	3068.38	47.2805	3045.06	47.4972	3065.66	47.7139
3048.22	47.0639	3048.7	47.2847	3063.98	47.5014	3061.87	47.718
3054.77	47.068	3076.8	47.2889	3043.16	47.5055	3063.91	47.7222
3017.65	47.0722	3060.4	47.293	3073.5	47.5097	3044.31	47.7264
3049.6	47.0764	3073.98	47.2972	3062.51	47.5139	3062.05	47.7305
3049.21	47.0805	3074.16	47.3014	3065.17	47.518	3038.95	47.7347
3055.08	47.0847	3061.41	47.3055	3067.85	47.5222	3069.37	47.7389
3018.4	47.0889	3068.23	47.3097	3049.71	47.5264	3050.31	47.743
3039.97	47.093	3048.81	47.3139	3062.51	47.5305	3068.23	47.7472
3054.29	47.0972	3074.5	47.318	3039.77	47.5347	3064.38	47.7514



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3057.13	47.7555	3068.03	47.9722	3043.8	48.1889	2582.53	48.4055
3061.22	47.7597	3048.62	47.9764	3060.34	48.193	2574.43	48.4097
3044.48	47.7639	3069.21	47.9805	3058.35	48.1972	2567.36	48.4139
3061.43	47.768	3046.24	47.9847	3051.95	48.2014	2568.53	48.4222
3040.7	47.7722	3075.37	47.9889	3045.77	48.2055	2580.97	48.4264
3069.82	47.7764	3054.07	47.993	3063.23	48.2097	2573.31	48.4305
3053.31	47.7805	3079.96	47.9972	3063.36	48.2139	2567.66	48.4347
3067.45	47.7847	3066.55	48.0014	3038.32	48.218	2562.69	48.4389
3065.61	47.7889	3074.6	48.0055	3069.19	48.2222	2568.82	48.443
3056.68	47.793	3074.38	48.0097	3065.74	48.2264	2545.94	48.4472
3061.39	47.7972	3064	48.0139	3032.05	48.2305	2568.13	48.4514
3043.94	47.8014	3071.63	48.018	3071.54	48.2347	2545.98	48.4555
3062.29	47.8055	3056.31	48.0222	3061.89	48.2389	2559.77	48.4597
3040.08	47.8097	3070.71	48.0264	3031.81	48.243	2543.06	48.4639
3071.12	47.8139	3050.37	48.0305	3061.18	48.2472	2564.59	48.468
3054.98	47.818	3076.49	48.0347	3007.96	48.2514	2545.8	48.4722
3068.23	47.8222	3055.01	48.0389	2947.67	48.2555	2555.68	48.4764
3067.88	47.8264	3082.42	48.043	2926.4	48.2597	2547.97	48.4805
3055.23	47.8305	3069.36	48.0472	2914.38	48.2639	2559.2	48.4847
3061.09	47.8347	3079.35	48.0514	2907.68	48.268	2558.49	48.493
3041.05	47.8389	3077.98	48.0555	2886.29	48.2722	2555.89	48.4972
3064.46	47.843	3070.61	48.0597	2811.33	48.2764	2555.3	48.5014
3042.47	47.8472	3076.27	48.0639	2737.02	48.2805	2570.61	48.5055
3072.8	47.8514	3060.61	48.068	2674.7	48.2847	2567.45	48.5097
3058.89	47.8555	3072.1	48.0722	2659.2	48.2889	2567.45	48.5139
3066.47	47.8597	3050.63	48.0764	2624.16	48.293	2557.84	48.518
3066.09	47.8639	3077.18	48.0805	2608.07	48.2972	2554.4	48.5222
3054.54	47.868	3055.11	48.0847	2618.44	48.3014	2568.7	48.5264
3062.78	47.8722	3083.97	48.0889	2606.42	48.3055	2565.61	48.5305
3045.81	47.8764	3066.45	48.093	2595.5	48.3097	2568.58	48.5347
3063.25	47.8805	3082.97	48.0972	2591.67	48.3139	2558.73	48.5389
3041.89	47.8847	3078.01	48.1014	2592.15	48.318	2554.44	48.543
3069.08	47.8889	3076.76	48.1055	2599.57	48.3222	2564.81	48.5472
3047.65	47.893	3080.19	48.1097	2588.36	48.3264	2566.8	48.5555
3074.21	47.8972	3066.34	48.1139	2578.64	48.3305	2558.79	48.5597
3059.06	47.9014	3076.41	48.118	2587.82	48.3347	2553.03	48.5639
3068.64	47.9055	3056.65	48.1222	2587.7	48.3389	2564.67	48.568
3068.61	47.9097	3077.4	48.1264	2592.55	48.343	2564.26	48.5722
3060.1	47.9139	3054.27	48.1305	2582.83	48.3472	2568.81	48.5764
3066.76	47.918	3082.7	48.1347	2574.07	48.3514	2559.68	48.5805
3051.34	47.9222	3060.74	48.1389	2581.6	48.3555	2552.95	48.5847
3062.94	47.9264	3087.11	48.143	2581.38	48.3597	2561.63	48.5889
3043.75	47.9305	3071.35	48.1472	2587.57	48.3639	2561.64	48.593
3067.21	47.9347	3080.38	48.1514	2577.68	48.368	2568.44	48.5972
3044.55	47.9389	3080.07	48.1555	2570.61	48.3722	2560.39	48.6014
3075.02	47.943	3067.85	48.1597	2576.98	48.3764	2553.08	48.6055
3057.93	47.9472	3074.24	48.1639	2577.28	48.3805	2558.52	48.6097
3075.29	47.9514	3055.57	48.168	2584.6	48.3847	2560.06	48.6139
3068.89	47.9555	3075.5	48.1722	2576.02	48.3889	2569.12	48.618
3068.93	47.9597	3053.75	48.1764	2567.71	48.393	2560.32	48.6222
3073.2	47.9639	3077.2	48.1805	2571.33	48.3972	2550.69	48.6264
3060.01	47.968	3062.58	48.1847	2573.3	48.4014	2557.55	48.6305



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
2559.36	48.6347	2551.89	48.8514	2545.71	49.0764	2541.24	49.2972
2565.88	48.6389	2545.11	48.8555	2549.2	49.0847	2552.63	49.3014
2557.05	48.643	2555.64	48.8597	2558.13	49.0889	2550.85	49.3097
2550.67	48.6472	2555.74	48.8639	2550.72	49.093	2542.59	49.3139
2558.44	48.6514	2560.4	48.868	2545.41	49.0972	2541.35	49.318
2558.59	48.6555	2550.95	48.8722	2547.36	49.1014	2556.24	49.3222
2566.01	48.6597	2543.68	48.8764	2549.6	49.1055	2551.76	49.3264
2557.63	48.6639	2556.3	48.8805	2557.27	49.1097	2547.63	49.3305
2551.14	48.668	2556.22	48.8847	2550.6	49.1139	2542.76	49.3347
2556.35	48.6722	2559.47	48.8889	2544.73	49.118	2543.99	49.3389
2558.2	48.6764	2549.07	48.893	2548.74	49.1222	2556.55	49.343
2566.01	48.6805	2543.88	48.8972	2548.94	49.1264	2550.16	49.3472
2557.83	48.6847	2558.06	48.9014	2557.02	49.1305	2543.82	49.3514
2549.16	48.6889	2555.67	48.9055	2550.4	49.1347	2544.31	49.3555
2556.39	48.693	2557.08	48.9097	2544.75	49.1389	2546.54	49.3597
2557.95	48.6972	2547.18	48.9139	2547.99	49.143	2555.93	49.3639
2565.84	48.7014	2544.32	48.918	2548.78	49.1472	2549.41	49.368
2557.23	48.7055	2558.72	48.9222	2558	49.1514	2543.6	49.3722
2549.96	48.7097	2555.85	48.9264	2550.84	49.1555	2546.38	49.3805
2555.33	48.7139	2556.02	48.9305	2544.34	49.1597	2555.73	49.3847
2555.72	48.718	2546.19	48.9347	2547.16	49.1639	2549.22	49.3889
2565.3	48.7222	2542.1	48.9389	2549.04	49.168	2542.94	49.393
2557.25	48.7264	2560.03	48.943	2557.66	49.1722	2546.03	49.3972
2549.2	48.7305	2555.61	48.9472	2551.1	49.1764	2547.92	49.4014
2553.99	48.7347	2552.86	48.9514	2544.84	49.1805	2554.73	49.4055
2556.01	48.7389	2544.84	48.9555	2547.84	49.1847	2545.85	49.4097
2564.57	48.743	2544.75	48.9597	2548.17	49.1889	2539.72	49.4139
2556.47	48.7472	2560.86	48.9639	2558.55	49.193	2550.88	49.418
2547.8	48.7514	2554.84	48.968	2550.09	49.1972	2551.33	49.4264
2553.97	48.7555	2550.4	48.9722	2541.13	49.2014	2542.54	49.4305
2556.47	48.7597	2544.43	48.9764	2550.41	49.2055	2540.62	49.4347
2564.47	48.7639	2545.86	48.9805	2550.79	49.2097	2555.05	49.4389
2555.35	48.768	2560.37	48.9847	2555.18	49.2139	2550.57	49.443
2547.85	48.7722	2554.42	48.9889	2543.91	49.218	2548.42	49.4472
2554.66	48.7764	2548.3	48.993	2539.2	49.2222	2542.02	49.4514
2554.97	48.7805	2545.61	48.9972	2556.28	49.2264	2542.34	49.4555
2563.28	48.7847	2545.81	49.0014	2552.81	49.2305	2555.39	49.4597
2554.45	48.7889	2558.99	49.0055	2550.8	49.2347	2550.27	49.4639
2548.18	48.793	2553.18	49.0097	2541.96	49.2389	2546.01	49.468
2554.59	48.7972	2548.16	49.0139	2542.33	49.243	2543.26	49.4722
2554.96	48.8014	2547.53	49.0222	2557.32	49.2472	2542.93	49.4764
2563.21	48.8055	2559.23	49.0264	2551.6	49.2514	2555.72	49.4805
2553.84	48.8097	2552.19	49.0305	2544.24	49.2555	2550.01	49.4847
2545.72	48.8139	2545.66	49.0347	2544.62	49.2597	2544.64	49.4889
2554.43	48.818	2546.53	49.0389	2548.04	49.2639	2544.99	49.4972
2555.98	48.8222	2548.85	49.043	2555.6	49.268	2556.35	49.5014
2562.61	48.8264	2558.31	49.0472	2548.46	49.2722	2548.96	49.5055
2553.37	48.8305	2551.75	49.0514	2542.14	49.2764	2542.54	49.5097
2545.54	48.8347	2546.42	49.0555	2549.24	49.2805	2545.32	49.5139
2555.2	48.8389	2548.36	49.0639	2549.52	49.2847	2547.73	49.518
2555.23	48.843	2557.85	49.068	2553.61	49.2889	2553.49	49.5222
2561.17	48.8472	2551.58	49.0722	2545.14	49.293	2545.39	49.5264



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
2540.14	49.5305	2548.16	49.7597	2541.83	49.9847	2542.68	50.2139
2549.54	49.5347	2551.54	49.7639	2547.79	49.9889	2544.13	50.218
2549.38	49.5389	2542.74	49.768	2549.43	49.993	2556.63	50.2222
2552.3	49.543	2539.81	49.7722	2553.82	49.9972	2551.09	50.2264
2544.16	49.5472	2551.48	49.7764	2546.16	50.0014	2544.76	50.2305
2540.6	49.5514	2549.77	49.7847	2541.19	50.0055	2546	50.2389
2550.89	49.5555	2541.46	49.7889	2551.5	50.0097	2556.18	50.243
2550.51	49.5639	2539.56	49.793	2552.16	50.018	2549.34	50.2472
2542.05	49.568	2553.69	49.7972	2543.68	50.0222	2542.09	50.2514
2539.5	49.5722	2550.17	49.8014	2541.56	50.0264	2548.58	50.2555
2553.46	49.5764	2548.2	49.8055	2554.2	50.0305	2549.38	50.2597
2550.67	49.5805	2541.24	49.8097	2551.6	50.0347	2553.46	50.2639
2549.5	49.5847	2540.68	49.8139	2550.32	50.0389	2543.87	50.268
2541.42	49.5889	2554.91	49.818	2542.97	50.043	2539.75	50.2722
2540.79	49.593	2549.41	49.8222	2542.25	50.0472	2554.38	50.2764
2554.5	49.5972	2546.41	49.8264	2556.88	50.0514	2551.53	50.2805
2550.05	49.6014	2541.87	49.8305	2551.82	50.0555	2550.42	50.2847
2548.62	49.6055	2541.9	49.8347	2546.24	50.0597	2542.74	50.2889
2541.65	49.6097	2554.81	49.8389	2543.6	50.0639	2542.33	50.293
2541.14	49.6139	2549.55	49.843	2545.18	50.068	2556.35	50.2972
2554.08	49.618	2545.37	49.8472	2557.16	50.0722	2551.1	50.3014
2550.15	49.6222	2542.25	49.8514	2550.58	50.0764	2545.49	50.3055
2548.04	49.6264	2542.07	49.8555	2543.63	50.0805	2545.75	50.3139
2541.38	49.6305	2555.08	49.8597	2546.13	50.0847	2555.9	50.318
2540.94	49.6347	2550.02	49.8639	2548.91	50.0889	2549.65	50.3222
2555.09	49.6389	2545.14	49.868	2554.65	50.093	2541.73	50.3264
2549.51	49.643	2542.96	49.8722	2546.72	50.0972	2548.57	50.3305
2545.96	49.6472	2544.11	49.8764	2541	50.1014	2548.87	50.3347
2541.58	49.6514	2554.77	49.8805	2551.29	50.1055	2553.22	50.3389
2542.6	49.6555	2547.85	49.8847	2552.79	50.1139	2544.8	50.343
2555.28	49.6597	2540.14	49.8889	2543.94	50.118	2540.92	50.3472
2549.4	49.6639	2547.21	49.893	2541.6	50.1222	2553.1	50.3514
2543.45	49.668	2549.18	49.8972	2553.96	50.1264	2550.99	50.3555
2544.1	49.6764	2554.04	49.9014	2551.94	50.1305	2549.69	50.3597
2554.78	49.6805	2544.21	49.9055	2551.57	50.1347	2542.51	50.3639
2548.73	49.6847	2538.25	49.9097	2542.57	50.1389	2542	50.368
2543.23	49.6889	2553.19	49.9139	2542.03	50.143	2556.28	50.3722
2544	49.6972	2551	49.918	2556.58	50.1472	2551.37	50.3764
2554.73	49.7014	2551.19	49.9222	2550.89	50.1514	2545.54	50.3805
2548.29	49.7055	2542.03	49.9264	2544.8	50.1555	2545.87	50.3889
2542.86	49.7097	2540.29	49.9305	2545.44	50.1597	2556.24	50.393
2543.21	49.7139	2555.89	49.9347	2548	50.1639	2548.94	50.3972
2545.35	49.718	2551.85	49.9389	2555.72	50.168	2541.44	50.4014
2555.08	49.7222	2547.96	49.943	2547.49	50.1722	2548.14	50.4055
2547.88	49.7264	2542.18	49.9472	2540.08	50.1764	2549.88	50.4097
2540.88	49.7305	2542.27	49.9514	2551.53	50.1805	2552.79	50.4139
2544.93	49.7347	2556.32	49.9555	2552.08	50.1889	2543.35	50.418
2546.61	49.7389	2550.68	49.9597	2542.86	50.193	2540.77	50.4222
2553.48	49.743	2544.62	49.9639	2541.65	50.1972	2556.41	50.4264
2546.58	49.7472	2546.36	49.9722	2556.1	50.2014	2551.29	50.4305
2539.68	49.7514	2556.63	49.9764	2551.21	50.2055	2545.03	50.4347
2548.08	49.7555	2549.61	49.9805	2547.69	50.2097	2542.06	50.4389



Pressure listings

Analysis 5 - 2-phi



Company Altamont Oil & Gas
Well Wallewein #22-1

Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
2546.56	50.443	1710.98	50.7514	1587.05	51.3055	1474	53.4055
2557.52	50.4472	1708.43	50.7597	1584.58	51.3222	1471.95	53.518
2547.88	50.4514	1705.89	50.768	1582.16	51.3389	1469.88	53.6389
2539.83	50.4555	1703.39	50.7764	1579.79	51.3555	1467.87	53.7639
2550.78	50.4597	1700.91	50.7847	1577.49	51.3722	1465.86	53.893
2551.39	50.468	1698.44	50.793	1575.24	51.3889	1463.82	54.018
2541.23	50.4722	1696	50.8014	1573.04	51.4055	1461.78	54.193
2540.94	50.4764	1693.58	50.8097	1570.59	51.4222	1459.74	54.3555
2557.01	50.4805	1691.18	50.818	1568.27	51.443	1457.73	54.5264
2551.97	50.4847	1688.82	50.8264	1566.26	51.4597	1455.7	54.7097
2546.48	50.4889	1686.47	50.8347	1563.79	51.4805	1453.67	54.9055
2542.22	50.493	1684.15	50.843	1561.39	51.5014	1451.65	55.1139
2544.64	50.4972	1681.85	50.8514	1559.06	51.5222	1449.64	55.3347
2557.66	50.5014	1679.56	50.8597	1556.79	51.543	1447.62	55.5722
2548.47	50.5055	1677.29	50.868	1554.59	51.5639	1445.6	55.8264
2540.38	50.5097	1675.05	50.8764	1552.45	51.5847	1443.6	56.0972
2549.22	50.5139	1672.83	50.8847	1550.37	51.6055	1441.58	56.3889
2550.83	50.518	1670.62	50.893	1548.34	51.6264	1439.57	56.7014
2553.6	50.5222	1668.45	50.9014	1545.99	51.6514	1437.55	57.0389
2542.78	50.5264	1666.29	50.9097	1543.71	51.6764	1435.53	57.4014
2539.16	50.5305	1664.16	50.918	1541.52	51.7014	1433.53	57.7889
2556.66	50.5347	1662.05	50.9264	1539.39	51.7264	1431.52	58.2097
2552.37	50.5389	1659.96	50.9347	1537.34	51.7514	1429.51	58.6639
2547.17	50.543	1657.89	50.943	1535.02	51.7805	1427.51	59.1555
2543.26	50.5462	1655.84	50.9514	1532.8	51.8097	1425.5	59.6889
2426.94	50.5472	1653.81	50.9597	1530.65	51.8389	1423.5	60.268
1957.27	50.5514	1651.8	50.968	1528.58	51.868	1421.49	60.9014
1806.96	50.5555	1648.83	50.9805	1526.3	51.9014	1419.49	61.593
1775.08	50.5597	1645.92	50.993	1524.12	51.9347	1417.48	62.3514
1770.52	50.5639	1643.07	51.0055	1522.02	51.968	1415.48	63.1597
1768.27	50.568	1640.25	51.018	1519.84	52.0014	1413.48	64.0722
1766.26	50.5764	1637.48	51.0305	1517.72	52.0389	1411.48	65.0805
1763.77	50.5847	1634.75	51.043	1515.52	52.0805	1409.47	66.1972
1761.25	50.593	1632.06	51.0555	1513.31	52.1222	1411.1	66.6222
1758.69	50.6014	1629.42	51.068	1511.19	52.1639	1426.08	66.6264
1756.08	50.6097	1626.82	51.0805	1509.17	52.2055	1459.45	66.6305
1753.44	50.618	1624.26	51.093	1507.05	52.2514	1466.02	66.6347
1750.78	50.6264	1621.75	51.1055	1505.03	52.2972	1471.24	66.6389
1748.09	50.6347	1619.28	51.118	1502.93	52.3472	1473.44	66.643
1745.4	50.643	1616.87	51.1305	1500.78	52.4014	1474.92	66.6597
1742.7	50.6514	1614.49	51.143	1498.73	52.4555	1487.24	66.6639
1740	50.6597	1612.14	51.1555	1496.63	52.5139	1528.26	66.668
1737.31	50.668	1609.85	51.168	1494.5	52.5764	1544.58	66.6722
1734.62	50.6764	1607.6	51.1805	1492.49	52.6389	1560.99	66.6764
1731.94	50.6847	1605.38	51.193	1490.41	52.7055	1577.72	66.6805
1729.27	50.693	1603.21	51.2055	1488.3	52.768	1593.75	66.6847
1726.6	50.7014	1601.06	51.218	1486.23	52.8555	1612.22	66.6889
1723.95	50.7097	1598.95	51.2305	1484.19	52.9347	1630.11	66.693
1721.31	50.718	1596.88	51.243	1482.16	53.018	1647.73	66.6972
1718.7	50.7264	1594.85	51.2555	1480.14	53.1055	1665.5	66.7014
1716.1	50.7347	1592.19	51.2722	1478.06	53.2014	1683.31	66.7055
1713.53	50.743	1589.6	51.2889	1476.01	53.3014	1702.26	66.7097



Pressure listings

Analysis 5 - 2-phi



Company Altamont Oil & Gas
Well Wallewein #22-1

Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
1718.2	66.7139	1830.71	67.1389	3400.46	67.3764	3480.14	67.6597
1733.41	66.718	2215.28	67.143	3404.64	67.3805	3482.77	67.6639
1748.97	66.7222	2565.51	67.1472	3406.57	67.3889	3487.36	67.668
1762.07	66.7264	2827.24	67.1514	3409.59	67.393	3493.86	67.6722
1766.71	66.7305	2971.19	67.1555	3409.42	67.3972	3492.81	67.6847
1764.67	66.9389	3061.74	67.1597	3412.37	67.4014	3490.75	67.6889
1766.22	66.9472	3118.29	67.1639	3415.68	67.4055	3490.6	67.693
1775	66.9514	3153.08	67.168	3415.97	67.4097	3484.85	67.6972
1798.57	66.9555	3181.44	67.1722	3420.61	67.4139	3452.65	67.7014
1873.81	66.9597	3198.01	67.1764	3422.45	67.418	3436.46	67.7055
1964.28	66.9639	3213.76	67.1805	3418.39	67.4222	3430.52	67.7097
2018.42	66.968	3228.33	67.1847	3419.79	67.4347	3427.06	67.7139
2045.74	66.9722	3241.27	67.1889	3424.07	67.4389	3422.24	67.718
2061.73	66.9764	3252.11	67.193	3425.04	67.4472	3423.92	67.7389
1799.26	66.9805	3259.7	67.1972	3428.21	67.4514	3428.2	67.743
1775.08	66.9847	3270.43	67.2014	3429.43	67.4597	3431.02	67.7472
1768.84	66.9889	3277.41	67.2055	3432.82	67.4639	3432.05	67.7514
1765.9	66.993	3287.14	67.2097	3432.96	67.468	3439.65	67.7555
1763.64	66.9972	3292.29	67.2139	3436.31	67.4722	3446.96	67.7597
1770.14	67.0014	3299.16	67.218	3439.42	67.4764	3451.46	67.7639
1777.96	67.0055	3301.98	67.2222	3439.52	67.4805	3452.7	67.7722
1784.37	67.0089	3309.32	67.2264	3442.77	67.4847	3455.37	67.7764
1800.15	67.0097	3309.7	67.2305	3444.86	67.4889	3454.08	67.7847
1886.86	67.0139	3314.09	67.2347	3444.74	67.493	3451.42	67.7889
1977.13	67.018	3317.14	67.2389	3448.47	67.4972	3454.83	67.8055
2026.74	67.0222	3323.44	67.243	3451.78	67.5014	3458.78	67.8097
2053.71	67.0264	3326.01	67.2472	3455.14	67.5097	3459.21	67.8139
2070.69	67.0305	3331.44	67.2514	3451.9	67.518	3461.57	67.818
2082.71	67.0347	3333.57	67.2555	3453.69	67.5305	3463.7	67.8222
2090.31	67.0389	3338.54	67.2597	3456.09	67.5347	3466.21	67.8264
2095.15	67.043	3341.43	67.2639	3456.15	67.543	3467.47	67.8347
2101.25	67.0472	3346.05	67.268	3460.14	67.5472	3470.59	67.8389
2105.58	67.0514	3350.25	67.2722	3463.91	67.5555	3473.24	67.843
2108.1	67.0555	3353.35	67.2764	3468.45	67.5597	3473.35	67.8472
2111.88	67.0597	3357.55	67.2805	3468.67	67.5639	3475.98	67.8514
2114.88	67.0639	3359.08	67.2847	3470.94	67.568	3477.13	67.8597
2116.64	67.068	3363.83	67.2889	3474.16	67.5722	3481.13	67.8639
2119.12	67.0722	3363.88	67.293	3475.88	67.5805	3483.55	67.868
2122.56	67.0805	3368.24	67.2972	3478.78	67.5847	3483.36	67.8847
2126.2	67.0889	3371.58	67.3097	3475.88	67.5889	3481.32	67.8889
2126.64	67.093	3373.17	67.3139	3473.46	67.593	3484.79	67.893
2128.69	67.0972	3377.34	67.318	3470.97	67.5972	3492.01	67.8972
2128.84	67.0975	3377.47	67.3222	3468.09	67.6014	3491.09	67.9055
2129.81	67.1055	3381.34	67.3264	3468.18	67.6055	3497.26	67.9097
1981.19	67.1097	3382.02	67.3347	3465.22	67.6097	3498.42	67.918
2010.65	67.1139	3385.77	67.3389	3460.67	67.6139	3503.67	67.9222
1818.62	67.118	3386	67.343	3463.2	67.6305	3503.58	67.9305
1775.04	67.1222	3390.5	67.3472	3466.9	67.6347	3508.68	67.9347
1769.72	67.1264	3393.61	67.3555	3468.44	67.643	3508.22	67.9472
1769.48	67.1305	3397.67	67.3597	3472.68	67.6472	3505.8	67.9514
1775.63	67.1347	3397.63	67.3639	3472.91	67.6514	3506.25	67.968
1780.98	67.1383	3400.27	67.368	3475	67.6555	3522.24	67.9722



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3530.17	67.9764	3588.52	68.2847	3546.34	68.793	3603.02	69.6472
3536.4	67.9805	3592.3	68.2889	3548.54	68.7972	3605.93	69.6514
3542.84	67.9847	3592.64	68.293	3547.51	68.8305	3609.62	69.6555
3545.64	67.9889	3597.36	68.2972	3550.96	68.8347	3613.94	69.6597
3550.42	67.993	3597.37	68.3014	3548.57	68.8389	3616.5	69.6639
3554.56	67.9972	3599.42	68.3055	3548.35	68.843	3630.74	69.668
3554.03	68.0097	3607.52	68.3097	3546.28	68.8472	3634.78	69.6722
3548.82	68.0139	3611.84	68.3139	3546.84	68.9514	3638.85	69.6764
3540.3	68.018	3614.62	68.318	3543.15	68.9555	3636.94	69.6805
3532.16	68.0222	3617.98	68.3222	3539.76	68.9597	3634.11	69.6847
3530.03	68.0264	3618.82	68.3347	3533.9	68.9639	3626.57	69.6889
3532.4	68.043	3620.96	68.3389	3533.52	68.968	3608.32	69.693
3532.19	68.0472	3618.88	68.368	3530.35	68.9722	3597.18	69.6972
3535.72	68.0514	3609.99	68.3722	3532.39	68.9764	3599.75	69.7014
3536.06	68.0597	3602.02	68.3764	3529.63	69.0097	3602.85	69.7055
3539.88	68.0639	3595.39	68.3805	3531.62	69.0847	3603.5	69.7097
3540.33	68.0722	3593.3	68.3847	3534.28	69.0889	3607.42	69.7139
3543.25	68.0764	3593.85	68.393	3536.59	69.0972	3605.24	69.7222
3541.16	68.0805	3587.23	68.3972	3536.82	69.1097	3604.79	69.7472
3541.01	68.0889	3583.77	68.4014	3540.13	69.1139	3601.27	69.7514
3538.66	68.093	3584.64	68.4264	3537.52	69.1264	3600.83	69.7639
3539.74	68.1055	3586.74	68.4305	3539.65	69.1597	3603.29	69.768
3542.58	68.1097	3588.58	68.4389	3542.24	69.1889	3601.06	69.7805
3545.48	68.1305	3590.91	68.443	3539.87	69.193	3598.32	69.7847
3545.12	68.1472	3590.66	68.4972	3542.81	69.2055	3601.15	69.7889
3550.31	68.1514	3593.03	68.5014	3545.24	69.2347	3599.98	69.8055
3555.37	68.1555	3594.55	68.5514	3542.81	69.2389	3603.94	69.8097
3555.52	68.1597	3597.67	68.5555	3543.06	69.268	3604.23	69.818
3558.66	68.1639	3599.68	68.5597	3545.35	69.2722	3606.91	69.8222
3560.82	68.1722	3598.63	68.5805	3548.34	69.3472	3607.15	69.8264
3565.97	68.1764	3595.31	68.5847	3545.93	69.3514	3610.59	69.8305
3566.04	68.1805	3592.9	68.6014	3548.1	69.368	3613.31	69.8514
3575.28	68.1847	3593.29	68.6097	3551.36	69.4139	3613.78	69.9055
3575.67	68.193	3595.34	68.6139	3537.98	69.418	3615.83	69.9097
3579.83	68.1972	3595.47	68.6264	3529.06	69.4222	3618.86	69.9722
3579.91	68.2014	3597.95	68.6305	3524.95	69.4264	3620.81	69.993
3583.08	68.2055	3599.09	68.6472	3521.12	69.4305	3623.79	69.9972
3584.73	68.2139	3601.52	68.6514	3518.55	69.443	3623.32	70.0472
3587.02	68.218	3604.05	68.6805	3518.47	69.4639	3625.93	70.0514
3584.52	68.2222	3605.5	68.7014	3523.53	69.468	3628.52	70.0764
3573.33	68.2264	3589.32	68.7055	3535.58	69.4722	3631.35	70.1097
3564.55	68.2305	3580.81	68.7097	3541.1	69.4764	3633.61	70.1347
3559.1	68.2347	3572.36	68.7139	3543.63	69.4805	3636.15	70.168
3556.75	68.2389	3568.91	68.718	3544.94	69.4889	3635.72	70.1889
3554.07	68.2472	3565.4	68.7222	3549.79	69.493	3632.68	70.193
3554.44	68.2597	3561.89	68.7347	3552.93	69.5139	3627.93	70.1972
3556.96	68.2639	3561.85	68.7389	3553.63	69.6222	3626.91	70.2389
3557.69	68.2651	3556.27	68.743	3555.95	69.6264	3624.37	70.243
3560.89	68.268	3552.75	68.7472	3555.61	69.6305	3627.66	70.3055
3565.42	68.2722	3550.73	68.7514	3558.02	69.6347	3630.03	70.3264
3580.08	68.2764	3549.15	68.7597	3570.51	69.6389	3632.35	70.3305
3584.57	68.2805	3546.49	68.7639	3592.47	69.643	3633.46	70.3389



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3635.96	70.343	3663.18	70.6514	3688.52	71.5097	3561.58	72.768
3635.73	70.3597	3663.63	70.668	3683.69	71.5139	3562.35	72.7847
3637.97	70.3639	3654.37	70.6722	3681.43	71.568	3565.39	72.7889
3636.48	70.3764	3647.25	70.6764	3681.44	71.5722	3567.53	72.818
3633.07	70.3805	3644	70.6805	3684.25	71.5764	3567.08	72.8389
3631.18	70.3889	3644.78	70.718	3687.75	71.593	3564.93	72.843
3628.26	70.393	3654.3	70.7222	3690.79	71.6139	3567.01	72.8597
3628.87	70.418	3664.82	70.7264	3693.32	71.618	3569.2	72.9472
3636.15	70.4222	3670.36	70.7305	3695.95	71.7555	3571.73	72.968
3639.41	70.4264	3676	70.7347	3693.71	71.768	3571.92	72.9889
3637.17	70.4305	3679.72	70.7389	3693.23	71.8222	3569.55	72.993
3634.83	70.4389	3681.8	70.7472	3695.75	71.8264	3571.62	73.0014
3634.36	70.443	3682.69	70.7639	3695.57	71.868	3572.16	73.0847
3640.21	70.4472	3679.51	70.768	3693.36	71.8722	3574.24	73.0889
3643.57	70.4555	3681.21	70.7889	3691.2	71.8889	3565.47	73.093
3648.48	70.4597	3673.62	70.793	3680.34	71.893	3553.24	73.0972
3648.85	70.4722	3668.27	70.7972	3625.47	71.8972	3547.54	73.1014
3642.4	70.4764	3666.18	70.8014	3594.03	71.9014	3544.6	73.1055
3639.66	70.4805	3662.74	70.8097	3577.89	71.9055	3541.18	73.1097
3639.33	70.4889	3662.93	70.8139	3564.67	71.9097	3539.65	73.1222
3642.57	70.493	3665.01	70.818	3559.32	71.9139	3537.07	73.1264
3630.52	70.4972	3666.92	70.8264	3555.22	71.918	3536.1	73.143
3621.08	70.5014	3669.34	70.8305	3551.94	71.9222	3541.75	73.1472
3612.69	70.5055	3671.38	70.8972	3551.77	71.9264	3552.04	73.1514
3607.54	70.5097	3671.44	70.9014	3548.98	71.9305	3559.55	73.1555
3603.94	70.5139	3673.86	70.9055	3549.15	72.0014	3559.99	73.1597
3604.21	70.518	3671.82	70.9389	3542.98	72.0055	3564.64	73.1639
3601.34	70.5222	3673.85	71.0347	3532.31	72.0097	3565.1	73.168
3604.44	70.5264	3675.24	71.0597	3527.1	72.0139	3567.48	73.1722
3609.59	70.5305	3677.24	71.0639	3522.33	72.018	3569.58	73.2055
3611.3	70.5347	3678.73	71.0805	3519.01	72.0222	3569.38	73.2097
3614.92	70.5389	3682.61	71.0847	3516.31	72.0472	3571.8	73.2139
3616.34	70.5472	3687.52	71.0889	3516.86	72.0555	3573.7	73.2805
3618.63	70.5514	3689.73	71.093	3523.75	72.0597	3576.03	73.2847
3618.69	70.5555	3691.9	71.1764	3532.86	72.0639	3578.29	73.3264
3625.74	70.5597	3690.13	71.1889	3540.17	72.068	3579.32	73.3805
3638.6	70.5639	3687.77	71.193	3542.65	72.0722	3581.91	73.3847
3651.31	70.568	3689.78	71.218	3547.72	72.0764	3581.91	73.5264
3659.68	70.5722	3688.22	71.2597	3547.59	72.0805	3584.65	73.5305
3670.56	70.5764	3681.69	71.2639	3550.04	72.0847	3584.63	73.5889
3672.86	70.5805	3678.55	71.268	3549.77	72.118	3586.77	73.593
3664.39	70.5847	3676.06	71.2722	3552.36	72.1222	3588.81	73.6722
3664.01	70.5889	3672.75	71.2764	3555.58	72.243	3591.69	73.6764
3658.76	70.593	3673.08	71.318	3553	72.2472	3591.72	73.7347
3655.19	70.5972	3675.3	71.3222	3555.3	72.2597	3593.85	73.7389
3655.18	70.6014	3678.09	71.3347	3557.32	72.4222	3596.04	73.8222
3651.28	70.6055	3678.31	71.368	3555.22	72.4264	3597.14	73.9014
3651.43	70.6097	3680.54	71.3722	3556.44	72.4555	3599.27	73.9055
3655.08	70.6139	3683.14	71.3764	3558.84	72.4597	3601.4	73.9889
3657.96	70.6347	3685.45	71.3972	3558.75	72.5222	3604.01	74.0097
3660.28	70.6389	3687.47	71.443	3561.16	72.5264	3606.78	74.0555
3659.79	70.6472	3689.5	71.4847	3559.03	72.7639	3604.7	74.0597



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
3607.02	74.0764	1718.5	75.6722	1594.43	76.4639	1485.08	79.3514
3606.06	74.3347	1716.47	75.7014	1592.34	76.4847	1483.05	79.4805
3602.68	74.3389	1713.56	75.7139	1590.29	76.5055	1481.03	79.6222
3602.46	74.343	1710.69	75.7264	1588.29	76.5264	1479.01	79.7847
3600.21	74.3472	1707.86	75.7389	1585.95	76.5514	1476.99	79.943
3603.39	74.3972	1705.06	75.7514	1583.67	76.5764	1474.97	80.1097
3605.66	74.5639	1702.3	75.7639	1581.45	76.6014	1472.96	80.2847
3603.54	74.9305	1699.58	75.7764	1579.29	76.6264	1470.95	80.468
3600.93	74.9847	1696.89	75.7889	1577.19	76.6514	1468.92	80.6639
3602.19	75.1889	1694.23	75.8014	1575.15	76.6764	1466.91	80.868
3606.05	75.193	1691.61	75.8139	1572.84	76.7055	1464.9	81.0847
3606.33	75.2097	1689.02	75.8264	1570.59	76.7347	1462.87	81.3139
3608.97	75.2139	1686.46	75.8389	1568.41	76.7639	1460.86	81.5555
3609.42	75.3264	1683.94	75.8514	1566.29	76.793	1458.85	81.8097
3609.46	75.329	1681.45	75.8639	1564.23	76.8222	1456.83	82.0805
3308.67	75.3305	1678.99	75.8764	1561.96	76.8555	1454.81	82.368
2497.64	75.3347	1676.55	75.8889	1559.76	76.8889	1452.8	82.6722
2121.89	75.3389	1674.15	75.9014	1557.62	76.9222	1450.79	82.993
1986.56	75.343	1671.78	75.9139	1555.55	76.9555	1448.79	83.3347
1930.02	75.3472	1669.45	75.9264	1553.39	76.9889	1446.77	83.7014
1896.25	75.3514	1667.14	75.9389	1551.27	77.0264	1444.77	84.0889
1872.02	75.3555	1664.87	75.9514	1549.04	77.068	1442.77	84.5014
1853.18	75.3597	1662.62	75.9639	1547.01	77.1055	1440.76	84.943
1837.75	75.3639	1660.41	75.9764	1544.84	77.1472	1438.74	85.418
1824.65	75.368	1658.22	75.9889	1542.74	77.1889	1437.41	85.7514
1813.4	75.3722	1656.06	76.0014	1540.71	77.2305	1437.38	85.7586
1803.51	75.3764	1653.94	76.0139	1538.56	77.2764	1435.38	86.2877
1794.74	75.3805	1651.84	76.0264	1536.5	77.3222	1433.37	86.8586
1786.98	75.3847	1649.78	76.0389	1534.32	77.3722	1431.37	87.4711
1780.29	75.3889	1647.75	76.0514	1532.23	77.4222	1429.37	88.1294
1775.19	75.393	1645.74	76.0639	1530.22	77.4722	1427.36	88.8419
1772.09	75.3972	1643.11	76.0805	1528.12	77.5264	1425.36	89.6127
1769.52	75.4139	1640.54	76.0972	1526.1	77.5805	1423.36	90.4461
1767.27	75.4305	1638	76.1139	1524.01	77.6389	1421.36	91.3502
1764.72	75.4472	1635.51	76.1305	1522	77.6972	1419.35	92.3336
1762.63	75.4597	1633.06	76.1472	1519.93	77.7597	1417.35	93.4086
1760.39	75.4722	1630.65	76.1639	1517.81	77.8264	1415.35	94.5836
1758.04	75.4847	1628.3	76.1805	1515.76	77.893	1413.34	95.8752
1755.6	75.4972	1625.98	76.1972	1513.73	77.9555	1411.34	97.3127
1753.09	75.5097	1623.71	76.2139	1511.66	78.0347	1409.34	98.9086
1750.52	75.5222	1621.48	76.2305	1509.59	78.1139	1407.33	100.704
1747.9	75.5347	1619.3	76.2472	1507.56	78.193	1405.35	102.709
1745.27	75.5472	1616.86	76.2639	1505.51	78.2764	1403.57	104.713
1742.6	75.5597	1614.53	76.2847	1503.45	78.3639	1401.98	106.717
1739.91	75.5722	1612.51	76.3014	1501.39	78.4555	1400.54	108.721
1737.2	75.5847	1610.5	76.318	1499.33	78.5514	1399.24	110.725
1734.47	75.5972	1608.04	76.3389	1497.27	78.6514	1398.07	112.729
1731.74	75.6097	1605.64	76.3597	1495.23	78.7555	1396.99	114.734
1729	75.6222	1603.3	76.3805	1493.2	78.8639	1396.01	116.738
1726.26	75.6347	1601	76.4014	1491.18	78.9764	1395.09	118.742
1723.51	75.6472	1598.76	76.4222	1489.12	79.0972	1394.25	120.746
1720.76	75.6597	1596.57	76.443	1487.09	79.2222	1393.48	122.75



Pressure listings

Analysis 5 - 2-phi

Company Altamont Oil & Gas
Well Wallewein #22-1Field
Test Name / # Step Rate Test & Buildup

Pressure psia	Time hr	Pressure psia	Time hr	Pressure psia	Time hr
1392.78	124.754	1394.05	210.721	453.957	211.529
1392.14	126.759	1396.37	210.759	453.489	211.613
1391.53	128.763	1398.49	210.779	453.48	211.613
1390.95	130.767	1387.19	210.784	413.881	211.617
1390.42	132.771	1392.28	210.788	365.489	211.621
1389.91	134.775	1387.6	210.792	320.243	211.625
1389.44	136.779	1387.26	210.8	320.201	211.701
1389	138.784	1374.99	210.804	320.009	211.709
1388.58	140.788	1360.04	210.809	285.272	211.713
1388.18	142.792	1344.97	210.813	241.808	211.717
1387.8	144.796	1340.19	210.817	197.048	211.721
1387.44	146.8	1339.37	210.919	187.675	211.725
1387.12	148.804	1339.21	210.929	187.182	211.804
1386.81	150.809	1328.62	210.934	187.163	211.807
1386.52	152.813	1303.65	210.938	164.762	211.809
1386.24	154.817	1269.08	210.942	117.019	211.813
1385.97	156.821	1249	210.946	66.5822	211.817
1385.72	158.825	1248.41	211.025	55.9047	211.821
1385.47	160.829	1248.39	211.029	55.3664	211.9
1385.24	162.834	1245.25	211.029	55.3479	211.902
1385.02	164.838	1202.98	211.034	36.9672	211.904
1384.79	166.842	1157.43	211.038	0.24246	211.909
1384.57	168.846	1110.83	211.042	0.24812	212.638
1384.37	170.85	1113.69	211.046		
1384.18	172.854	1113	211.121		
1384.01	174.859	1112.94	211.125		
1383.84	176.863	1084.59	211.129		
1383.68	178.867	1042.32	211.134		
1383.52	180.871	998.781	211.138		
1383.36	182.875	969.852	211.142		
1383.22	184.879	969.448	211.221		
1383.08	186.884	969.448	211.225		
1382.94	188.888	962.969	211.225		
1382.8	190.892	922.183	211.229		
1382.66	192.896	884.307	211.234		
1382.53	194.9	851.132	211.238		
1382.41	196.904	850.706	211.321		
1382.3	198.909	850.702	211.322		
1382.19	200.913	809.509	211.325		
1382.09	202.917	761.915	211.329		
1381.99	204.921	717.38	211.334		
1381.89	206.925	718.448	211.409		
1381.8	208.929	718.314	211.417		
1381.42	210.421	684.277	211.421		
1388.68	210.425	640.213	211.425		
1393.64	210.429	593.445	211.429		
1393.69	210.429	585.322	211.434		
1391.6	210.479	584.937	211.513		
1389.55	210.559	584.915	211.515		
1387.51	210.679	565.5	211.517		
1387.34	210.688	521.604	211.521		
1391.68	210.692	482.733	211.525		

BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. WALLBTM

INSTRUMENT NO. 90367 btm

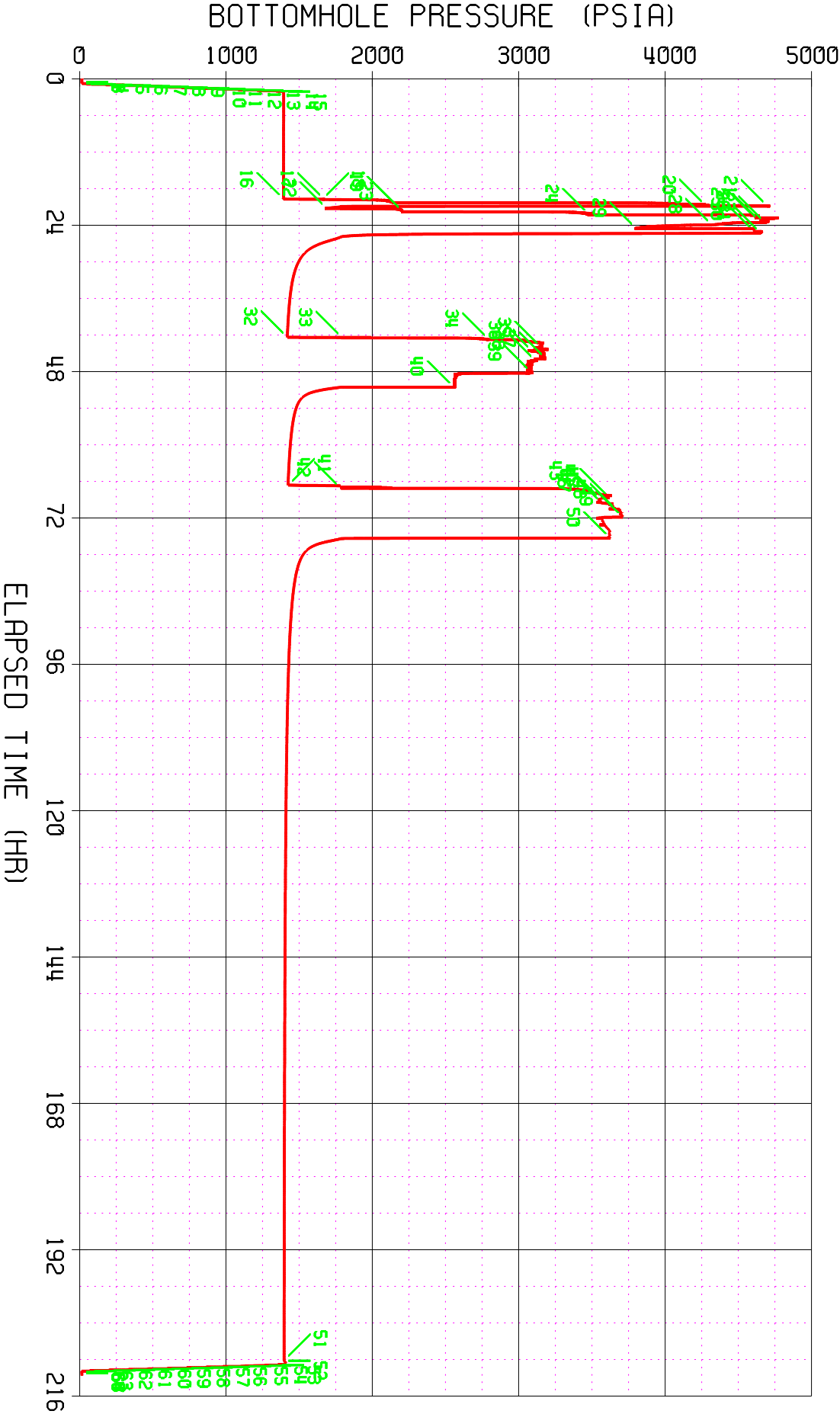
DEPTH : 4019 FT

CAPACITY : 16000 PSI

PORT OPENING : OUTSIDE

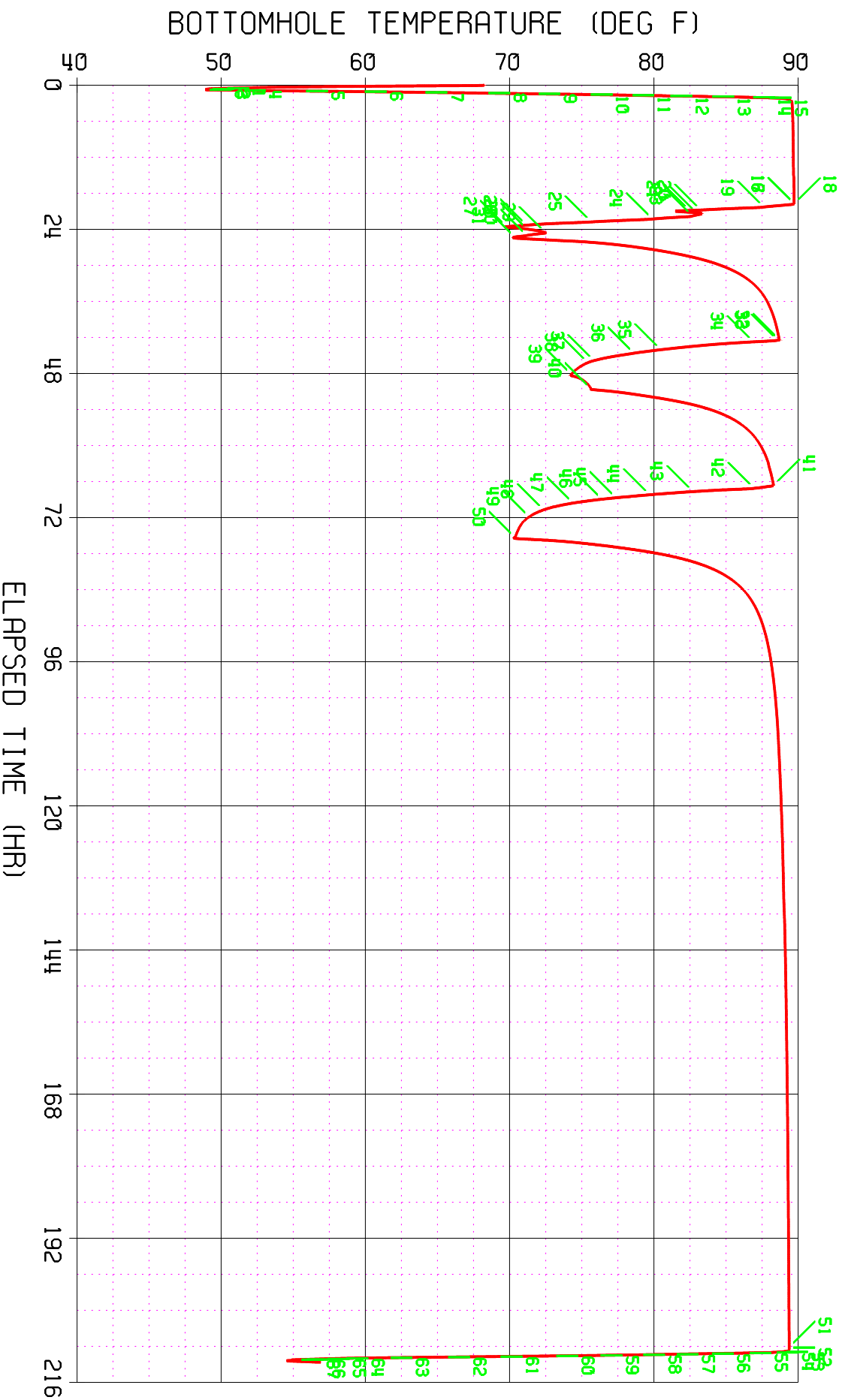
COMPANY : ALTAMONT OIL & GAS

WELL : WALLEWEIN 22-1



BOTTOMHOLE TEMPERATURE LOG

FIELD REPORT NO. WALLBTM COMPANY : ALTAMONT OIL & GAS
INSTRUMENT NO. 90367 btm WELL : WALLEMEIN 22-1
DEPTH : 4019 FT



BOTTOMHOLE PRESSURE LOG

FIELD REPORT NO. WALLBTM

INSTRUMENT NO. 90367 btm

DEPTH : 4019 FT

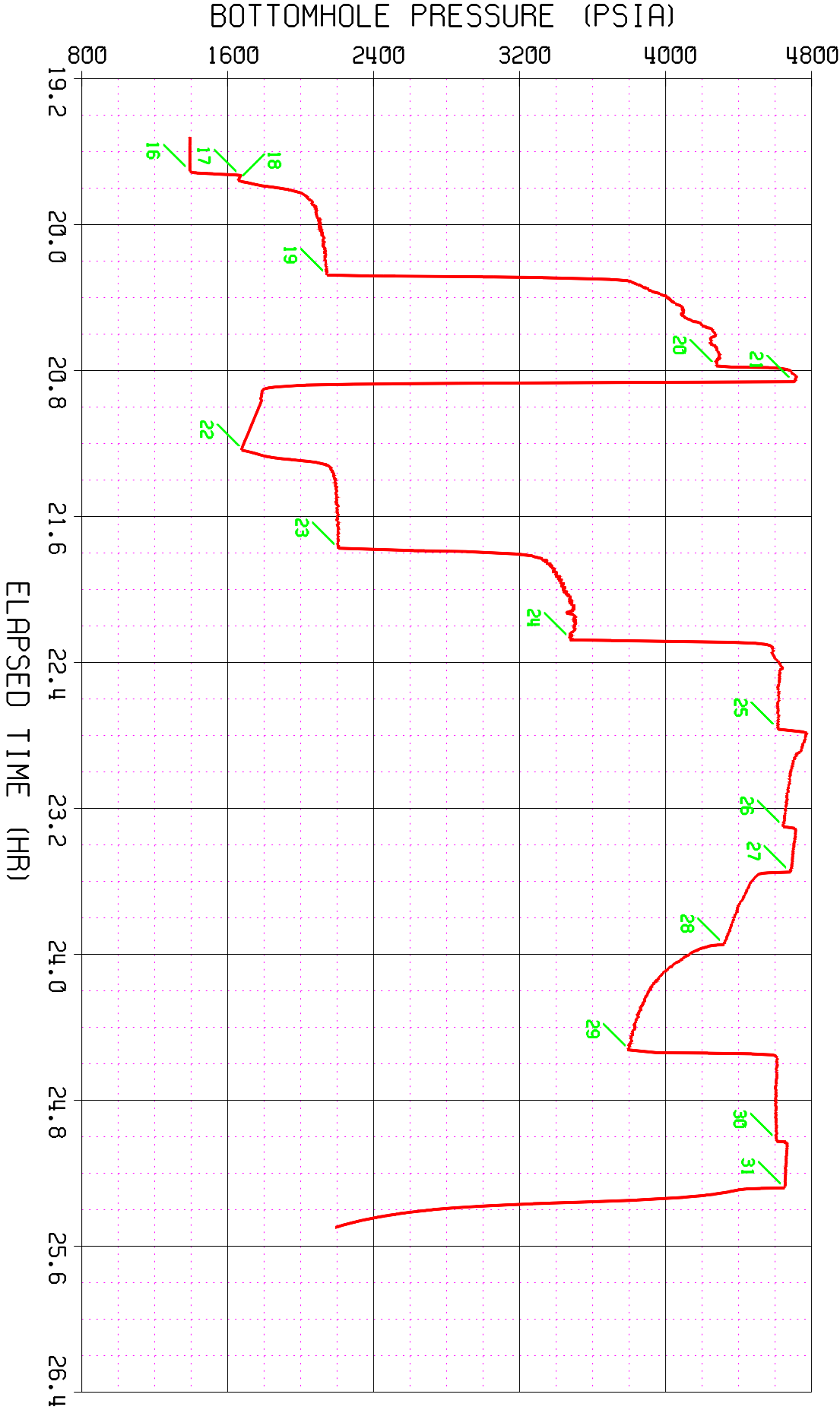
CAPACITY : 16000 PSI

PORT OPENING : OUTSIDE

COMPANY : ALTAMONT OIL & GAS

WELL : WALLEMEIN 22-1

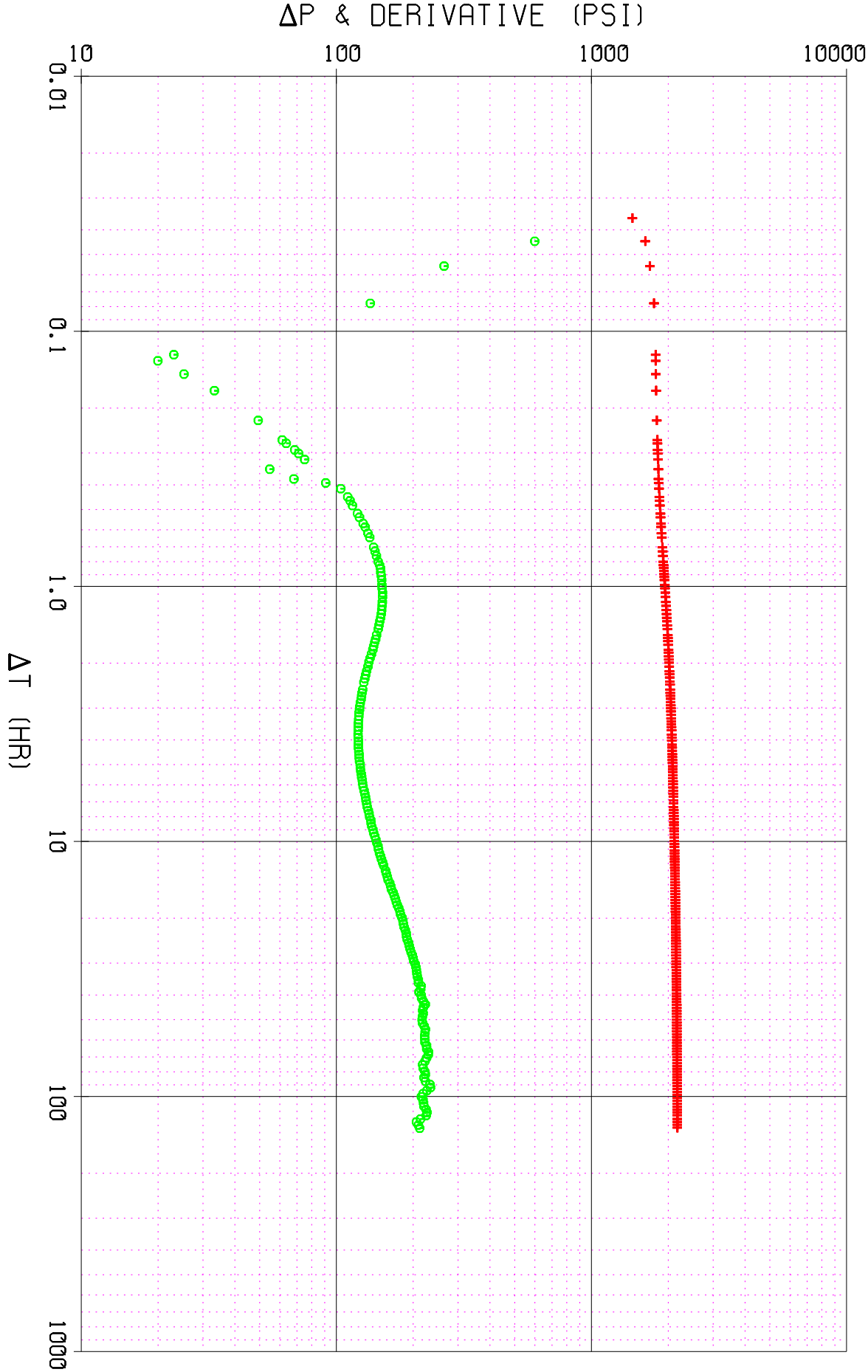
EXPANDED PLOT OF STEP-RATE TEST



LOG LOG PLOT

COMPANY : ALTAMONT OIL & GAS
WELL : WALLEWEIN 22-1
FIELD REPORT NO. WALLBITM
INSTRUMENT NO. 90367 btm

SHUTIN #3 : PRODUCING TIME (TP) : 4.11 HR
FINRL FLOW PRESSURE (Pwf) : 3566 PSIA
PLOT ELAPSED TIME RANGE: 75.33 TO 210.15 HR
ΔT TIME RANGE: 0.04 TO 134.86 HR



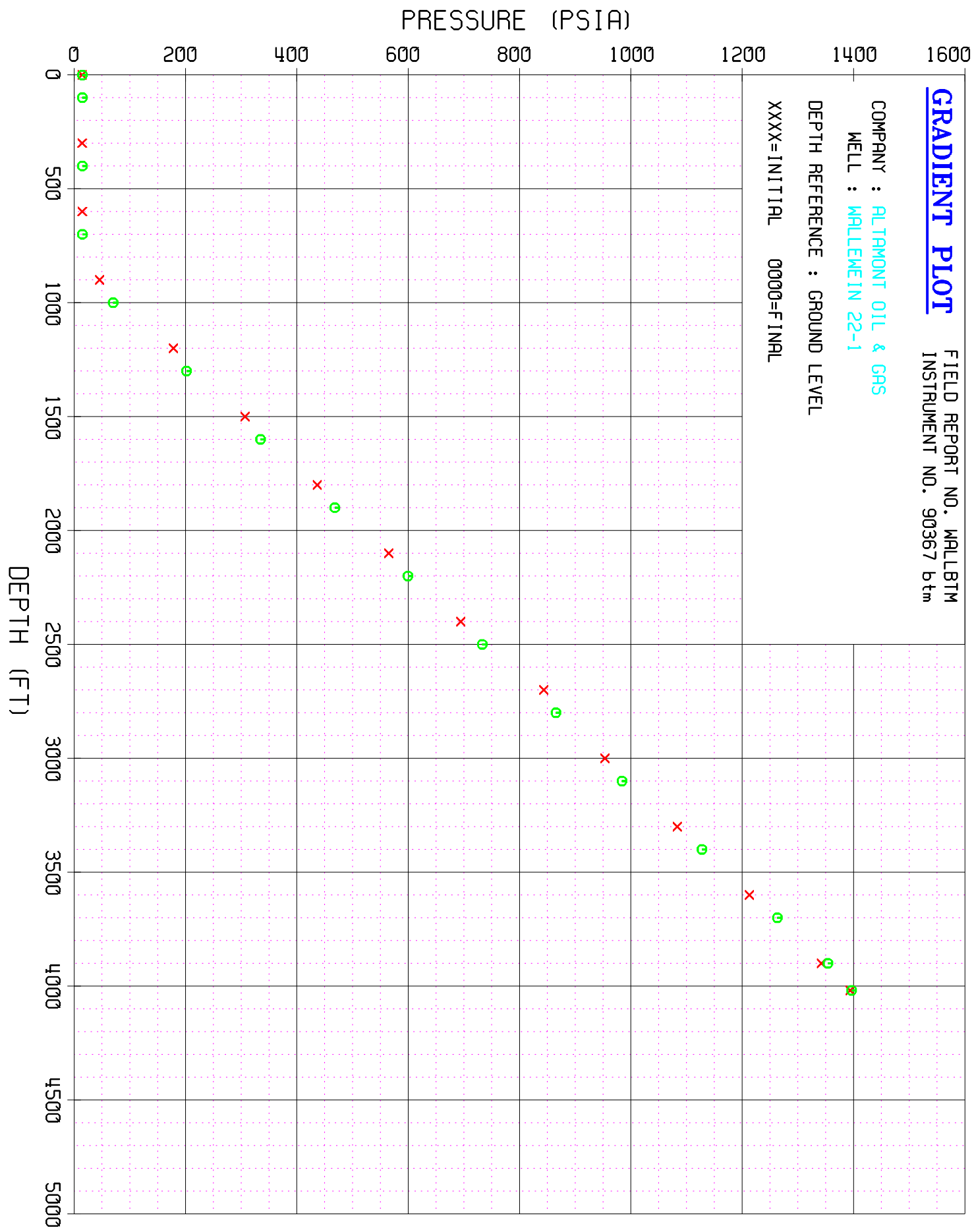
GRADIENT PLOT

FIELD REPORT NO. WLLBTM
INSTRUMENT NO. 90367 btm

COMPANY : ALTAMONT OIL & GAS
WELL : WALLEMEIN 22-1

DEPTH REFERENCE : GROUND LEVEL

XXXX=INITIAL 0000=FINAL

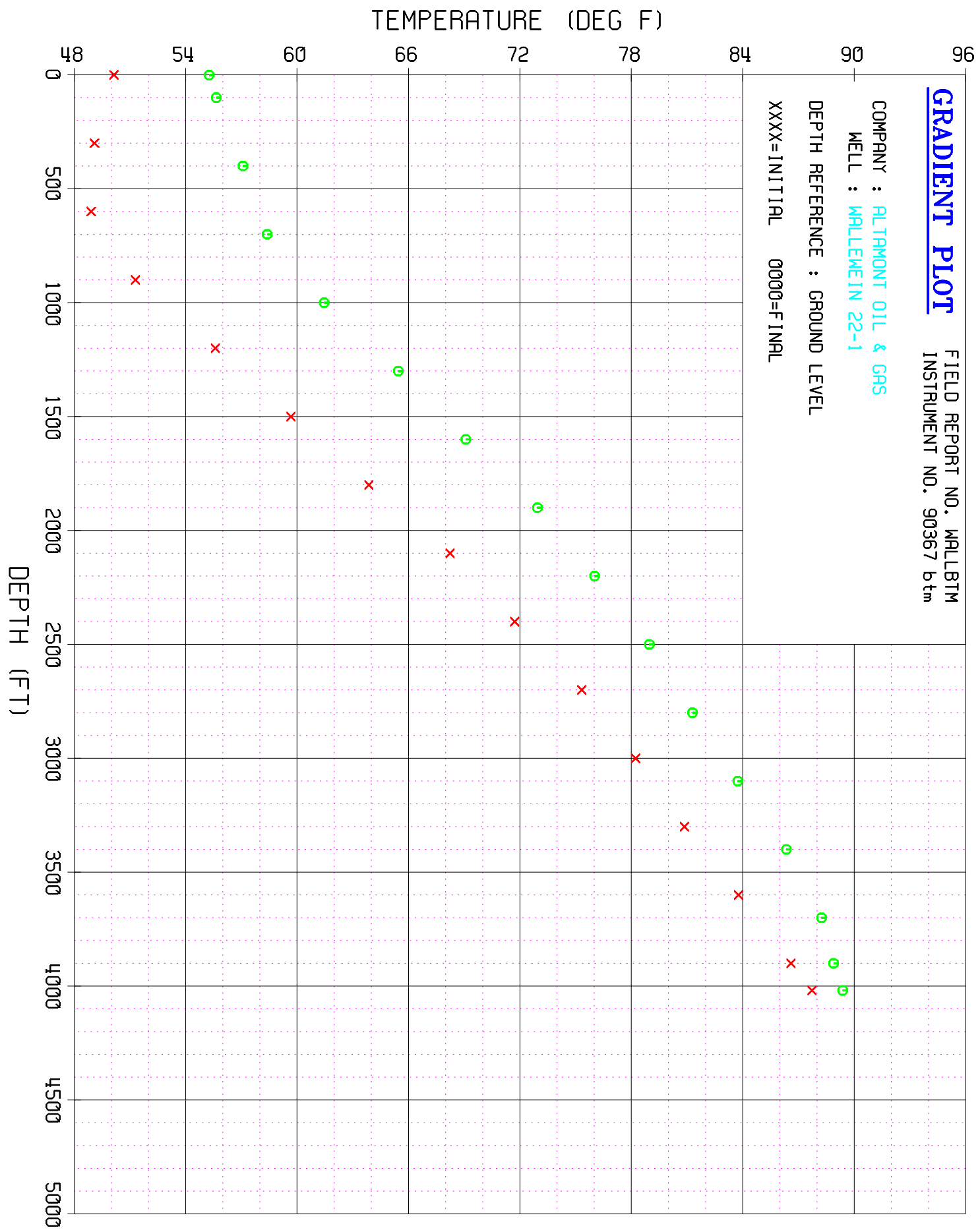


GRADIENT PLOT

FIELD REPORT NO. WLLBTM
INSTRUMENT NO. 90367 btm

COMPANY : ALTAMONT OIL & GAS
WELL : WALLEMEIN 22-1

DEPTH REFERENCE : GROUND LEVEL
XXXX=INITIAL 0000=FINAL



 ** WELL TEST DATA PRINTOUT **

COMPANY: ALTAMONT OIL & GAS
 WELL: WALLEWEIN 22-1

FIELD REPORT NO. WALLBTM
 INSTRUMENT NO. 90367 btm

RECORDER CAPACITY: 16000 PSI PORT OPENING: OUTSIDE DEPTH: 4019 FT

LABEL POINT INFORMATION

	TIME OF DAY	DATE		ELAPSED	BOT HOLE PRESSURE	BOT HOLE TEMP.	DEPTH
#	HH:MM:SS	DD-MMM	EXPLANATION	TIME, HR	PSIA	DEG F	FT
1	14:45:32	18-MAR	GRADIENT STOP	0.511	14	50.1	0.0
2	14:52:32	18-MAR	GRADIENT STOP	0.628	14	49.1	300.0
3	14:58:52	18-MAR	GRADIENT STOP	0.734	15	48.9	600.0
4	15:05:17	18-MAR	GRADIENT STOP	0.840	46	51.3	900.0
5	15:12:12	18-MAR	GRADIENT STOP	0.956	178	55.6	1200.0
6	15:18:32	18-MAR	GRADIENT STOP	1.061	307	59.7	1500.0
7	15:25:32	18-MAR	GRADIENT STOP	1.178	437	63.9	1800.0
8	15:33:02	18-MAR	GRADIENT STOP	1.303	565	68.2	2100.0
9	15:40:02	18-MAR	GRADIENT STOP	1.420	694	71.7	2400.0
10	15:46:57	18-MAR	GRADIENT STOP	1.535	844	75.3	2700.0
11	15:53:57	18-MAR	GRADIENT STOP	1.652	953	78.2	3000.0
12	16:00:47	18-MAR	GRADIENT STOP	1.765	1083	80.9	3300.0
13	16:07:52	18-MAR	GRADIENT STOP	1.884	1213	83.8	3600.0
14	16:15:02	18-MAR	GRADIENT STOP	2.003	1342	86.6	3900.0
15	16:18:52	18-MAR	GRADIENT STOP	2.067	1394	87.7	4019.0
16	9:57:08	19-MAR	START FLOW	19.705	1393	89.7	
17	9:58:48	19-MAR	END FLOW & START SHUT-IN	19.733	1670	89.7	
18	10:00:17	19-MAR	END SHUT-IN & START FLOW	19.757	1657	89.7	
19	10:31:25	19-MAR	END FLOW & START FLOW	20.276	2145	87.6	
20	11:01:19	19-MAR	END FLOW & START FLOW	20.774	4278	83.2	
21	11:06:28	19-MAR	END FLOW & START SHUT-IN	20.860	4700	82.5	
22	11:29:08	19-MAR	END FLOW & START FLOW	21.238	1687	82.9	
23	12:01:21	19-MAR	END FLOW & START FLOW	21.775	2208	82.7	
24	12:31:07	19-MAR	END FLOW & START FLOW	22.271	3480	79.9	
25	13:00:33	19-MAR	END FLOW & START FLOW	22.762	4613	75.7	
26	13:32:51	19-MAR	END FLOW & START FLOW	23.300	4647	71.2	
27	13:47:46	19-MAR	END FLOW & START FLOW	23.549	4684	69.8	
28	14:11:35	19-MAR	FLOW POINT	23.945	4320	71.2	
29	14:46:16	19-MAR	END FLOW & START FLOW	24.524	3803	72.5	
30	15:15:49	19-MAR	END FLOW & START FLOW	25.016	4609	71.2	
31	15:31:42	19-MAR	END FLOW & START SHUT-IN	25.281	4653	70.4	
32	8:36:52	20-MAR	END SHUT-IN & START FLOW	42.367	1420	88.7	
33	8:42:49	20-MAR	END FLOW & START FLOW	42.466	1795	88.6	
34	8:58:35	20-MAR	END FLOW & START FLOW	42.729	2796	86.9	
35	10:17:00	20-MAR	END FLOW & START FLOW	44.036	3154	80.5	
36	10:51:38	20-MAR	END FLOW & START FLOW	44.613	3092	78.6	
37	12:06:29	20-MAR	END FLOW & START FLOW	45.860	3186	75.8	
38	12:27:29	20-MAR	END FLOW & START FLOW	46.210	3114	75.4	
39	14:21:53	20-MAR	END FLOW & START FLOW	48.117	3087	74.3	
40	16:46:55	20-MAR	END FLOW & START SHUT-IN	50.535	2556	75.6	
41	8:51:07	21-MAR	END SHUT-IN & START FLOW	66.604	1424	88.3	
42	9:22:02	21-MAR	END FLOW & START FLOW	67.120	1784	86.9	
43	9:54:52	21-MAR	END FLOW & START FLOW	67.667	3507	82.7	

#	TIME OF DAY		DATE	EXPLANATION	ELAPSED TIME, HR	BOT HOLE		DEPTH FT
	HH:MM:SS	DD-MMM				PRESSURE PSIA	TEMP. DEG F	
44	10:26:37	21-MAR	END FLOW & START FLOW		68.196	3599	79.7	
45	10:56:17	21-MAR	END FLOW & START FLOW		68.691	3620	77.4	
46	11:11:02	21-MAR	END FLOW & START FLOW		68.936	3561	76.4	
47	11:49:42	21-MAR	END FLOW & START FLOW		69.581	3566	74.4	
48	12:57:32	21-MAR	END FLOW & START FLOW		70.711	3670	72.3	
49	14:07:37	21-MAR	END FLOW & START FLOW		71.880	3711	71.4	
50	17:32:22	21-MAR	END FLOW & START SHUT-IN		75.292	3624	70.4	
51	8:23:57	27-MAR	END SHUT-IN		210.152	1396	89.4	
52	8:26:22	27-MAR	GRADIENT STOP		210.192	1396	89.4	4019.0
53	9:10:02	27-MAR	GRADIENT STOP		210.920	1354	88.9	3900.0
54	9:15:17	27-MAR	GRADIENT STOP		211.007	1263	88.2	3700.0
55	9:21:17	27-MAR	GRADIENT STOP		211.107	1128	86.3	3400.0
56	9:27:27	27-MAR	GRADIENT STOP		211.210	984	83.7	3100.0
57	9:33:17	27-MAR	GRADIENT STOP		211.307	865	81.3	2800.0
58	9:39:02	27-MAR	GRADIENT STOP		211.403	733	79.0	2500.0
59	9:44:52	27-MAR	GRADIENT STOP		211.500	600	76.0	2200.0
60	9:50:12	27-MAR	GRADIENT STOP		211.589	468	72.9	1900.0
61	9:56:27	27-MAR	GRADIENT STOP		211.693	335	69.1	1600.0
62	10:02:12	27-MAR	GRADIENT STOP		211.789	202	65.4	1300.0
63	10:08:02	27-MAR	GRADIENT STOP		211.886	70	61.5	1000.0
64	10:14:37	27-MAR	GRADIENT STOP		211.996	15	58.4	700.0
65	10:19:37	27-MAR	GRADIENT STOP		212.079	15	57.1	400.0
66	10:25:47	27-MAR	GRADIENT STOP		212.182	15	55.7	100.0
67	10:27:27	27-MAR	GRADIENT STOP		212.210	15	55.3	1.0

SUMMARY OF FLOW PERIODS

PERIOD	START		DURATION	START		INITIAL
	ELAPSED TIME, HR	END ELAPSED TIME, HR		PRESSURE PSIA	END PRESSURE PSIA	PRESSURE PSIA
1	19.705	19.733	0.028	1393	1670	1393
2	19.757	20.276	0.519	1657	2145	1657
3	20.276	20.774	0.498	2145	4278	2145
4	20.774	20.860	0.086	4278	4700	4278
5	42.367	42.466	0.099	1420	1795	1420
6	42.466	42.729	0.263	1795	2796	1795
7	42.729	44.036	1.307	2796	3154	2796
8	44.036	44.613	0.577	3154	3092	3154
9	44.613	45.860	1.247	3092	3186	3092
10	45.860	46.210	0.350	3186	3114	3186

SUMMARY OF SHUTIN PERIODS

PERIOD	START ELAPSED TIME, HR	END ELAPSED TIME, HR	DURATION HR	START PRESSURE PSIA	END PRESSURE PSIA	FINAL FLOW PRESSURE PSIA	PRODUCING TIME, HR
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1	19.733	19.757	0.025	1670	1657	1670	0.028
2	20.860	42.367	21.507	4700	1420	4700	1.131
3	50.535	66.604	16.070	2556	1424	3114	4.974
4	75.292	210.152	134.860	3624	1396	3114	4.974

TEST PHASE: FLOW PERIOD # 1

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
9:57:08	19-MAR	19.705	0.000	89.7	1393
9:58:48	19-MAR	19.733	0.028	89.7	1670

TEST PHASE: SHUTIN PERIOD # 1

FINAL FLOW PRESSURE = 1670 PSIA
PRODUCING TIME = 0.028 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
9:58:48	19-MAR	19.733	0.000	89.7	1670	0	
9:59:35	19-MAR	19.746	0.013	89.7	1664	7	0.4970
10:00:11	19-MAR	19.755	0.023	89.7	1658	13	0.3444
10:00:17	19-MAR	19.757	0.025	89.7	1657	13	0.3280

TEST PHASE: FLOW PERIOD # 2

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
10:00:17	19-MAR	19.757	0.000	89.7	1657
10:15:21	19-MAR	20.008	0.251	88.8	2102
10:30:24	19-MAR	20.259	0.502	87.7	2144
10:31:25	19-MAR	20.276	0.519	87.6	2145

TEST PHASE: FLOW PERIOD # 3

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
10:31:25	19-MAR	20.276	0.000	87.6	2145
10:46:33	19-MAR	20.528	0.252	85.4	4147
11:01:19	19-MAR	20.774	0.498	83.2	4278

TEST PHASE: FLOW PERIOD # 4

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
11:01:19	19-MAR	20.774	0.000	83.2	4278
11:06:28	19-MAR	20.860	0.086	82.5	4700

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 4700 PSIA

PRODUCING TIME = 1.131 HR

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
11:06:28	19-MAR	20.860	0.000	82.5	4700	0	
11:07:12	19-MAR	20.872	0.012	82.2	2497	2202	1.9729
11:08:17	19-MAR	20.891	0.030	82.0	1858	2842	1.5854
11:09:02	19-MAR	20.903	0.043	81.9	1795	2905	1.4394
11:10:00	19-MAR	20.919	0.059	81.7	1788	2912	1.3059
11:10:48	19-MAR	20.932	0.072	81.6	1786	2913	1.2220
11:11:26	19-MAR	20.943	0.083	81.5	1785	2914	1.1668
11:12:44	19-MAR	20.965	0.104	81.5	1786	2914	1.0734
11:13:57	19-MAR	20.985	0.125	81.5	1778	2922	1.0031
11:15:14	19-MAR	21.006	0.146	81.6	1769	2931	0.9418
11:16:48	19-MAR	21.032	0.172	81.7	1758	2942	0.8791
11:18:01	19-MAR	21.053	0.193	81.9	1750	2950	0.8373
11:19:19	19-MAR	21.074	0.214	82.0	1741	2959	0.7980
11:20:49	19-MAR	21.099	0.239	82.2	1730	2969	0.7581
11:22:03	19-MAR	21.120	0.260	82.3	1722	2978	0.7288
11:23:19	19-MAR	21.141	0.281	82.4	1713	2986	0.7013
11:24:32	19-MAR	21.161	0.301	82.6	1705	2995	0.6774
11:26:06	19-MAR	21.187	0.327	82.7	1693	3006	0.6490
11:27:28	19-MAR	21.210	0.350	82.8	1684	3016	0.6265
11:28:46	19-MAR	21.232	0.372	82.9	1676	3024	0.6067
11:30:34	19-MAR	21.262	0.402	83.1	1779	2921	0.5816
11:31:46	19-MAR	21.282	0.422	83.1	1888	2812	0.5661
11:33:03	19-MAR	21.303	0.443	83.2	2086	2613	0.5506
11:34:23	19-MAR	21.326	0.465	83.3	2158	2541	0.5355
11:35:45	19-MAR	21.348	0.488	83.3	2171	2529	0.5208
11:37:00	19-MAR	21.369	0.509	83.4	2187	2513	0.5082
11:43:11	19-MAR	21.472	0.612	83.2	2189	2511	0.4546
11:49:12	19-MAR	21.573	0.712	83.1	2197	2503	0.4130
11:55:15	19-MAR	21.673	0.813	82.8	2207	2492	0.3786
12:01:17	19-MAR	21.774	0.914	82.7	2207	2492	0.3499
12:07:22	19-MAR	21.875	1.015	82.4	3383	1317	0.3252
12:13:24	19-MAR	21.976	1.116	81.7	3432	1268	0.3040
12:19:35	19-MAR	22.079	1.218	81.0	3486	1213	0.2851
12:25:35	19-MAR	22.179	1.318	80.4	3508	1192	0.2690
12:31:38	19-MAR	22.280	1.419	79.9	3703	996	0.2545
12:37:39	19-MAR	22.380	1.520	79.2	4602	98	0.2416
12:43:55	19-MAR	22.484	1.624	78.1	4623	77	0.2295
12:50:00	19-MAR	22.586	1.726	77.1	4622	77	0.2189
12:56:06	19-MAR	22.687	1.827	76.2	4621	79	0.2092
13:02:06	19-MAR	22.788	1.927	75.5	4776	-76	0.2005
13:08:17	19-MAR	22.891	2.030	74.4	4739	-40	0.1923
13:14:22	19-MAR	22.992	2.132	73.3	4689	11	0.1849
13:20:24	19-MAR	23.093	2.232	72.4	4673	27	0.1780
13:26:32	19-MAR	23.195	2.334	71.7	4662	37	0.1716
13:32:50	19-MAR	23.300	2.439	71.2	4644	56	0.1654
13:39:26	19-MAR	23.410	2.549	70.5	4704	-4	0.1595
13:45:27	19-MAR	23.510	2.650	69.9	4691	9	0.1544
13:51:45	19-MAR	23.615	2.755	69.7	4463	236	0.1494
13:57:45	19-MAR	23.715	2.855	70.2	4406	293	0.1449
14:03:53	19-MAR	23.817	2.957	70.7	4370	330	0.1407

TEST PHASE: SHUTIN PERIOD # 2

FINAL FLOW PRESSURE = 4700 PSIA

PRODUCING TIME = 1.131 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
14:10:04	19-MAR	23.920	3.060	71.1	4332	367	0.1366
14:40:04	19-MAR	24.420	3.560	72.3	3817	883	0.1198
15:10:05	19-MAR	24.920	4.060	71.4	4604	95	0.1067
15:40:09	19-MAR	25.422	4.561	70.3	2542	2158	0.0962
16:10:34	19-MAR	25.929	5.068	74.1	1782	2918	0.0875
16:40:42	19-MAR	26.431	5.570	76.9	1720	2979	0.0803
17:10:42	19-MAR	26.931	6.070	78.7	1655	3044	0.0742
17:40:52	19-MAR	27.434	6.573	80.1	1605	3094	0.0689
18:11:08	19-MAR	27.938	7.078	81.3	1569	3130	0.0644
18:41:27	19-MAR	28.443	7.583	82.3	1543	3156	0.0604
19:11:45	19-MAR	28.948	8.088	83.2	1524	3176	0.0568
19:41:46	19-MAR	29.449	8.588	84.0	1509	3191	0.0537
20:11:48	19-MAR	29.949	9.089	84.6	1496	3203	0.0509
20:41:50	19-MAR	30.450	9.589	85.1	1486	3213	0.0484
21:12:24	19-MAR	30.959	10.099	85.6	1478	3222	0.0461
21:42:40	19-MAR	31.464	10.603	86.0	1471	3229	0.0440
22:12:56	19-MAR	31.968	11.108	86.3	1465	3235	0.0421
22:43:15	19-MAR	32.473	11.613	86.6	1459	3240	0.0404
23:14:30	19-MAR	32.994	12.134	86.9	1455	3245	0.0387
23:44:52	19-MAR	33.500	12.640	87.1	1451	3249	0.0372
0:15:15	20-MAR	34.007	13.146	87.3	1447	3252	0.0358
0:45:18	20-MAR	34.507	13.647	87.4	1444	3256	0.0346
1:15:27	20-MAR	35.010	14.150	87.6	1441	3258	0.0334
1:45:47	20-MAR	35.515	14.655	87.7	1438	3261	0.0323
2:15:50	20-MAR	36.016	15.156	87.8	1436	3263	0.0313
2:46:02	20-MAR	36.520	15.659	88.0	1434	3266	0.0303
3:16:45	20-MAR	37.032	16.171	88.1	1432	3268	0.0294
3:46:49	20-MAR	37.533	16.672	88.1	1430	3269	0.0285
4:16:49	20-MAR	38.033	17.172	88.2	1429	3271	0.0277
4:46:49	20-MAR	38.533	17.672	88.3	1427	3273	0.0269
5:17:05	20-MAR	39.037	18.177	88.4	1426	3274	0.0262
5:47:08	20-MAR	39.538	18.678	88.4	1424	3275	0.0255
6:17:39	20-MAR	40.047	19.186	88.5	1423	3277	0.0249
6:48:08	20-MAR	40.555	19.694	88.5	1422	3278	0.0243
7:18:08	20-MAR	41.055	20.194	88.6	1421	3279	0.0237
7:48:46	20-MAR	41.565	20.705	88.6	1420	3280	0.0231
8:19:25	20-MAR	42.076	21.216	88.7	1419	3281	0.0226
8:36:52	20-MAR	42.367	21.507	88.7	1420	3280	0.0223

TEST PHASE: FLOW PERIOD # 5

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
8:36:52	20-MAR	42.367	0.000	88.7	1420
8:42:49	20-MAR	42.466	0.099	88.6	1795

TEST PHASE: FLOW PERIOD # 6

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
8:42:49	20-MAR	42.466	0.000	88.6	1795
8:57:59	20-MAR	42.719	0.253	87.0	2789
8:58:35	20-MAR	42.729	0.263	86.9	2796

TEST PHASE: FLOW PERIOD # 7

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
8:58:35	20-MAR	42.729	0.000	86.9	2796
9:13:39	20-MAR	42.980	0.251	85.2	3049
9:28:49	20-MAR	43.233	0.504	83.8	3139
9:43:57	20-MAR	43.485	0.756	82.7	3166
9:58:58	20-MAR	43.735	1.007	81.6	3157
10:14:16	20-MAR	43.990	1.261	80.7	3140
10:17:00	20-MAR	44.036	1.307	80.5	3154

TEST PHASE: FLOW PERIOD # 8

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
10:17:00	20-MAR	44.036	0.000	80.5	3154
10:32:17	20-MAR	44.291	0.255	79.6	3194
10:47:19	20-MAR	44.541	0.505	78.8	3077
10:51:38	20-MAR	44.613	0.577	78.6	3092

TEST PHASE: FLOW PERIOD # 9

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
10:51:38	20-MAR	44.613	0.000	78.6	3092
11:06:41	20-MAR	44.864	0.251	78.0	3157
11:21:50	20-MAR	45.116	0.503	77.3	3180
11:37:15	20-MAR	45.373	0.760	76.7	3172
11:52:20	20-MAR	45.625	1.012	76.2	3180
12:06:29	20-MAR	45.860	1.247	75.8	3186

TEST PHASE: FLOW PERIOD #10

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA
HH:MM:SS	DD-MMM				
12:06:29	20-MAR	45.860	0.000	75.8	3186
12:21:40	20-MAR	46.114	0.253	75.5	3124
12:27:29	20-MAR	46.210	0.350	75.4	3114

TEST PHASE: SHUTIN PERIOD # 3

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
16:46:55	20-MAR	50.535	0.000	75.6	2556	558	
16:47:33	20-MAR	50.545	0.010	75.6	1813	1301	2.6766
16:48:10	20-MAR	50.555	0.021	75.6	1784	1330	2.3798
16:48:51	20-MAR	50.567	0.032	75.6	1781	1334	2.1922
16:49:35	20-MAR	50.579	0.044	75.6	1777	1337	2.0539
16:50:24	20-MAR	50.593	0.058	75.6	1773	1341	1.9384
16:51:20	20-MAR	50.608	0.073	75.6	1768	1346	1.8368
16:52:02	20-MAR	50.620	0.085	75.6	1764	1350	1.7739
16:52:50	20-MAR	50.633	0.098	75.6	1760	1354	1.7118
16:54:36	20-MAR	50.662	0.128	75.7	1750	1364	1.6006
16:55:51	20-MAR	50.683	0.149	75.8	1744	1371	1.5369
16:57:07	20-MAR	50.705	0.170	75.9	1737	1377	1.4809
16:58:19	20-MAR	50.724	0.190	76.0	1731	1384	1.4343
16:59:32	20-MAR	50.745	0.210	76.1	1724	1390	1.3922
17:00:55	20-MAR	50.768	0.233	76.2	1717	1397	1.3487
17:02:18	20-MAR	50.791	0.256	76.3	1711	1404	1.3098
17:03:45	20-MAR	50.815	0.280	76.4	1704	1410	1.2726
17:05:02	20-MAR	50.836	0.302	76.5	1698	1416	1.2426
17:06:15	20-MAR	50.857	0.322	76.6	1692	1422	1.2159
17:07:39	20-MAR	50.880	0.345	76.7	1686	1428	1.1875
17:08:57	20-MAR	50.902	0.367	76.8	1680	1434	1.1628
17:10:13	20-MAR	50.923	0.388	76.9	1675	1439	1.1402
17:11:48	20-MAR	50.949	0.415	77.0	1668	1446	1.1138
17:13:13	20-MAR	50.973	0.438	77.1	1663	1451	1.0916
17:14:49	20-MAR	51.000	0.465	77.2	1657	1457	1.0681
17:16:28	20-MAR	51.027	0.493	77.3	1651	1464	1.0453
17:17:41	20-MAR	51.047	0.513	77.3	1646	1468	1.0295
17:23:43	20-MAR	51.148	0.613	77.7	1626	1488	0.9595
17:29:45	20-MAR	51.248	0.714	78.0	1609	1505	0.9014
17:35:51	20-MAR	51.350	0.815	78.3	1594	1520	0.8513
17:42:06	20-MAR	51.454	0.920	78.6	1580	1534	0.8068
17:48:11	20-MAR	51.556	1.021	78.9	1569	1545	0.7688
17:54:17	20-MAR	51.657	1.123	79.2	1559	1555	0.7349
18:00:25	20-MAR	51.760	1.225	79.5	1551	1564	0.7042
18:06:26	20-MAR	51.860	1.325	79.7	1543	1571	0.6770
18:12:26	20-MAR	51.960	1.425	80.0	1537	1578	0.6523
18:18:31	20-MAR	52.061	1.527	80.3	1531	1583	0.6292
18:24:34	20-MAR	52.162	1.627	80.5	1525	1589	0.6082
18:30:45	20-MAR	52.265	1.730	80.8	1521	1593	0.5882
18:36:49	20-MAR	52.366	1.832	81.0	1516	1598	0.5701
18:42:54	20-MAR	52.468	1.933	81.3	1513	1601	0.5531
18:48:55	20-MAR	52.568	2.033	81.5	1509	1605	0.5374
18:54:57	20-MAR	52.668	2.134	81.7	1506	1608	0.5226
19:00:58	20-MAR	52.769	2.234	81.9	1503	1611	0.5087
19:07:03	20-MAR	52.870	2.335	82.1	1500	1614	0.4955
19:13:16	20-MAR	52.974	2.439	82.3	1498	1616	0.4828
19:19:22	20-MAR	53.075	2.541	82.5	1495	1619	0.4710
19:25:25	20-MAR	53.176	2.642	82.7	1493	1621	0.4599
19:31:52	20-MAR	53.284	2.749	82.9	1491	1623	0.4486
19:38:13	20-MAR	53.390	2.855	83.0	1489	1625	0.4381

TEST PHASE: SHUTIN PERIOD # 3

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
19:44:24	20-MAR	53.493	2.958	83.2	1487	1627	0.4284
19:50:45	20-MAR	53.598	3.064	83.3	1485	1629	0.4189
20:21:15	20-MAR	54.107	3.572	84.0	1477	1637	0.3789
20:51:16	20-MAR	54.607	4.072	84.6	1471	1643	0.3466
21:21:16	20-MAR	55.107	4.572	85.1	1466	1648	0.3197
21:51:22	20-MAR	55.609	5.074	85.5	1462	1652	0.2967
22:21:34	20-MAR	56.112	5.577	85.8	1458	1656	0.2769
22:51:34	20-MAR	56.612	6.077	86.1	1455	1659	0.2597
23:21:37	20-MAR	57.113	6.578	86.4	1452	1662	0.2446
23:51:49	20-MAR	57.616	7.082	86.6	1449	1665	0.2311
0:22:06	21-MAR	58.121	7.586	86.8	1447	1667	0.2190
0:52:42	21-MAR	58.631	8.096	87.0	1444	1670	0.2080
1:23:04	21-MAR	59.137	8.602	87.2	1442	1672	0.1982
1:53:10	21-MAR	59.639	9.104	87.3	1440	1674	0.1893
2:23:10	21-MAR	60.139	9.604	87.4	1439	1675	0.1813
2:54:12	21-MAR	60.656	10.121	87.5	1437	1677	0.1736
3:24:19	21-MAR	61.158	10.623	87.6	1435	1679	0.1668
3:54:26	21-MAR	61.660	11.125	87.7	1434	1680	0.1605
4:24:43	21-MAR	62.165	11.630	87.8	1433	1681	0.1546
4:54:43	21-MAR	62.665	12.130	87.9	1431	1683	0.1492
5:25:02	21-MAR	63.170	12.635	87.9	1430	1684	0.1442
5:55:37	21-MAR	63.680	13.145	88.0	1429	1685	0.1394
6:25:37	21-MAR	64.179	13.645	88.1	1428	1686	0.1350
6:59:17	21-MAR	64.741	14.206	88.1	1427	1687	0.1304
7:30:17	21-MAR	65.257	14.723	88.2	1426	1688	0.1264
8:00:42	21-MAR	65.764	15.230	88.2	1425	1689	0.1228
8:31:47	21-MAR	66.282	15.748	88.3	1424	1690	0.1192
8:51:07	21-MAR	66.604	16.070	88.3	1424	1690	0.1171

TEST PHASE: SHUTIN PERIOD # 4

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
17:32:22	21-MAR	75.292	0.000	70.4	3624	-510	
17:34:32	21-MAR	75.328	0.036	70.3	2120	994	2.1435
17:35:42	21-MAR	75.348	0.056	70.3	1873	1242	1.9573
17:37:02	21-MAR	75.370	0.078	70.3	1809	1305	1.8132
17:39:47	21-MAR	75.416	0.124	70.3	1783	1332	1.6157
17:41:12	21-MAR	75.439	0.147	70.3	1779	1335	1.5416
17:42:37	21-MAR	75.463	0.171	70.4	1775	1339	1.4788
17:45:47	21-MAR	75.516	0.224	70.7	1764	1350	1.3666
17:48:22	21-MAR	75.559	0.267	71.0	1755	1359	1.2935
17:49:52	21-MAR	75.584	0.292	71.2	1750	1364	1.2566
17:51:27	21-MAR	75.610	0.318	71.4	1744	1370	1.2212
17:53:12	21-MAR	75.639	0.347	71.7	1738	1376	1.1855
17:55:07	21-MAR	75.671	0.379	71.9	1735	1379	1.1498
17:57:12	21-MAR	75.706	0.414	72.2	1728	1387	1.1146

TEST PHASE: SHUTIN PERIOD # 4

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
17:59:07	21-MAR	75.738	0.446	72.4	1720	1394	1.0849
18:01:17	21-MAR	75.774	0.482	72.7	1712	1402	1.0540
18:03:27	21-MAR	75.810	0.518	72.9	1705	1409	1.0254
18:09:32	21-MAR	75.911	0.619	73.5	1685	1429	0.9558
18:16:07	21-MAR	76.021	0.729	74.0	1666	1448	0.8933
18:23:12	21-MAR	76.139	0.847	74.6	1647	1467	0.8371
18:29:47	21-MAR	76.249	0.957	75.0	1632	1482	0.7923
18:35:52	21-MAR	76.350	1.058	75.4	1620	1494	0.7559
18:42:32	21-MAR	76.461	1.169	75.8	1608	1506	0.7205
18:48:32	21-MAR	76.561	1.269	76.2	1599	1515	0.6919
18:54:32	21-MAR	76.661	1.369	76.5	1590	1524	0.6658
19:00:32	21-MAR	76.761	1.469	76.9	1582	1532	0.6420
19:07:02	21-MAR	76.870	1.578	77.2	1575	1539	0.6184
19:13:57	21-MAR	76.985	1.693	77.6	1568	1546	0.5953
19:21:22	21-MAR	77.109	1.817	78.0	1561	1553	0.5727
19:27:47	21-MAR	77.215	1.924	78.3	1556	1558	0.5546
19:36:07	21-MAR	77.354	2.062	78.7	1549	1565	0.5330
19:42:37	21-MAR	77.463	2.171	79.0	1545	1569	0.5174
19:48:52	21-MAR	77.567	2.275	79.3	1541	1573	0.5033
19:55:07	21-MAR	77.671	2.379	79.6	1537	1577	0.4901
20:04:42	21-MAR	77.831	2.539	79.9	1532	1582	0.4712
20:12:27	21-MAR	77.960	2.668	80.2	1528	1586	0.4570
20:18:32	21-MAR	78.061	2.769	80.5	1525	1589	0.4466
20:25:12	21-MAR	78.173	2.881	80.7	1522	1592	0.4357
20:32:17	21-MAR	78.291	2.999	80.9	1520	1594	0.4247
20:38:22	21-MAR	78.392	3.100	81.1	1517	1597	0.4158
21:08:37	21-MAR	78.896	3.604	82.0	1507	1607	0.3766
21:38:37	21-MAR	79.396	4.104	82.8	1499	1615	0.3448
22:09:32	21-MAR	79.911	4.619	83.4	1492	1622	0.3174
22:40:37	21-MAR	80.429	5.137	84.0	1486	1628	0.2941
23:11:02	21-MAR	80.936	5.644	84.4	1481	1633	0.2745
23:41:32	21-MAR	81.445	6.153	84.8	1476	1638	0.2573
0:12:27	22-MAR	81.960	6.668	85.2	1472	1642	0.2421
0:43:17	22-MAR	82.474	7.182	85.5	1469	1645	0.2286
1:14:32	22-MAR	82.995	7.703	85.7	1465	1649	0.2164
1:45:22	22-MAR	83.509	8.217	86.0	1462	1652	0.2056
2:15:52	22-MAR	84.017	8.725	86.2	1460	1654	0.1959
2:48:27	22-MAR	84.560	9.268	86.4	1457	1657	0.1866
3:19:02	22-MAR	85.070	9.778	86.6	1455	1659	0.1786
3:49:07	22-MAR	85.571	10.279	86.7	1453	1661	0.1714
4:22:47	22-MAR	86.132	10.840	86.8	1451	1663	0.1640
4:56:17	22-MAR	86.691	11.399	87.0	1449	1665	0.1573
5:32:07	22-MAR	87.288	11.996	87.1	1447	1667	0.1507
6:02:27	22-MAR	87.793	12.501	87.2	1445	1669	0.1455
6:32:42	22-MAR	88.298	13.006	87.3	1444	1671	0.1407
7:02:47	22-MAR	88.799	13.507	87.4	1442	1672	0.1362
7:35:22	22-MAR	89.342	14.050	87.5	1441	1673	0.1316
8:05:57	22-MAR	89.852	14.560	87.5	1439	1675	0.1276
8:36:07	22-MAR	90.354	15.062	87.6	1438	1676	0.1239
9:06:17	22-MAR	90.857	15.565	87.7	1437	1677	0.1204

TEST PHASE: SHUTIN PERIOD # 4

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
9:36:47	22-MAR	91.366	16.074	87.7	1436	1678	0.1171
10:07:07	22-MAR	91.871	16.579	87.8	1435	1679	0.1140
10:38:52	22-MAR	92.400	17.108	87.8	1434	1680	0.1108
11:09:42	22-MAR	92.914	17.622	87.9	1433	1681	0.1080
11:40:17	22-MAR	93.424	18.132	87.9	1432	1682	0.1053
12:11:02	22-MAR	93.936	18.644	88.0	1431	1683	0.1027
12:41:32	22-MAR	94.445	19.153	88.0	1430	1684	0.1003
13:12:17	22-MAR	94.957	19.665	88.1	1429	1685	0.0979
13:42:52	22-MAR	95.467	20.175	88.1	1429	1685	0.0957
14:14:07	22-MAR	95.988	20.696	88.1	1428	1686	0.0935
14:44:57	22-MAR	96.502	21.210	88.2	1427	1687	0.0915
15:14:57	22-MAR	97.002	21.710	88.2	1426	1688	0.0896
15:44:57	22-MAR	97.502	22.210	88.2	1426	1688	0.0878
16:15:27	22-MAR	98.010	22.718	88.2	1425	1689	0.0860
16:46:07	22-MAR	98.521	23.229	88.3	1424	1690	0.0843
17:16:42	22-MAR	99.031	23.739	88.3	1424	1690	0.0826
17:47:22	22-MAR	99.542	24.250	88.3	1423	1691	0.0810
18:19:32	22-MAR	100.078	24.786	88.3	1423	1691	0.0794
18:49:52	22-MAR	100.584	25.292	88.4	1422	1692	0.0780
19:20:17	22-MAR	101.091	25.799	88.4	1422	1692	0.0766
19:50:27	22-MAR	101.593	26.301	88.4	1421	1693	0.0752
20:21:12	22-MAR	102.106	26.814	88.4	1421	1693	0.0739
20:51:42	22-MAR	102.614	27.322	88.4	1420	1694	0.0726
21:22:32	22-MAR	103.128	27.836	88.5	1420	1694	0.0714
21:54:57	22-MAR	103.668	28.376	88.5	1419	1695	0.0702
22:27:12	22-MAR	104.206	28.914	88.5	1419	1695	0.0689
22:57:27	22-MAR	104.710	29.418	88.5	1418	1696	0.0679
23:30:57	22-MAR	105.268	29.976	88.5	1418	1696	0.0667
0:00:57	23-MAR	105.768	30.476	88.6	1417	1697	0.0657
0:32:12	23-MAR	106.289	30.997	88.6	1417	1697	0.0646
1:03:07	23-MAR	106.804	31.512	88.6	1417	1697	0.0637
1:33:12	23-MAR	107.306	32.014	88.6	1416	1698	0.0627
2:03:12	23-MAR	107.806	32.514	88.6	1416	1698	0.0618
2:33:37	23-MAR	108.313	33.021	88.6	1416	1699	0.0609
3:05:57	23-MAR	108.852	33.560	88.6	1415	1699	0.0600
3:36:27	23-MAR	109.360	34.068	88.6	1415	1699	0.0592
4:07:17	23-MAR	109.874	34.582	88.7	1414	1700	0.0584
4:37:22	23-MAR	110.375	35.083	88.7	1414	1700	0.0576
5:07:57	23-MAR	110.885	35.593	88.7	1414	1700	0.0568
5:38:07	23-MAR	111.388	36.096	88.7	1414	1701	0.0561
6:08:17	23-MAR	111.891	36.599	88.7	1413	1701	0.0553
6:39:47	23-MAR	112.416	37.124	88.7	1413	1701	0.0546
7:10:47	23-MAR	112.932	37.640	88.7	1413	1701	0.0539
7:41:12	23-MAR	113.439	38.147	88.7	1412	1702	0.0532
8:11:22	23-MAR	113.942	38.650	88.7	1412	1702	0.0526
8:42:47	23-MAR	114.466	39.174	88.7	1412	1702	0.0519
9:13:27	23-MAR	114.977	39.685	88.7	1412	1703	0.0513
9:51:57	23-MAR	115.618	40.326	88.8	1411	1703	0.0505
10:22:37	23-MAR	116.129	40.837	88.8	1411	1703	0.0499
10:52:47	23-MAR	116.632	41.340	88.8	1411	1703	0.0493

TEST PHASE: SHUTIN PERIOD # 4

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
11:23:57	23-MAR	117.152	41.860	88.8	1411	1704	0.0488
11:58:27	23-MAR	117.727	42.435	88.8	1410	1704	0.0481
12:28:47	23-MAR	118.232	42.940	88.8	1410	1704	0.0476
13:04:12	23-MAR	118.823	43.531	88.8	1410	1704	0.0470
13:36:42	23-MAR	119.364	44.072	88.8	1410	1705	0.0464
14:06:57	23-MAR	119.868	44.576	88.8	1409	1705	0.0459
14:37:22	23-MAR	120.375	45.083	88.8	1409	1705	0.0455
15:08:32	23-MAR	120.895	45.603	88.8	1409	1705	0.0450
15:42:22	23-MAR	121.459	46.167	88.8	1409	1705	0.0444
16:12:37	23-MAR	121.963	46.671	88.9	1408	1706	0.0440
16:42:47	23-MAR	122.466	47.174	88.9	1408	1706	0.0435
17:13:42	23-MAR	122.981	47.689	88.9	1408	1706	0.0431
17:45:42	23-MAR	123.514	48.222	88.9	1408	1706	0.0426
18:15:42	23-MAR	124.014	48.722	88.9	1408	1706	0.0422
18:45:42	23-MAR	124.514	49.222	88.9	1408	1707	0.0418
19:15:42	23-MAR	125.014	49.722	88.9	1407	1707	0.0414
19:46:32	23-MAR	125.528	50.236	88.9	1407	1707	0.0410
20:18:07	23-MAR	126.054	50.762	88.9	1407	1707	0.0406
20:50:37	23-MAR	126.596	51.304	88.9	1407	1707	0.0402
21:22:32	23-MAR	127.128	51.836	88.9	1407	1707	0.0398
21:52:37	23-MAR	127.629	52.337	88.9	1407	1708	0.0394
22:22:37	23-MAR	128.129	52.837	88.9	1406	1708	0.0391
22:52:37	23-MAR	128.629	53.337	88.9	1406	1708	0.0387
23:22:52	23-MAR	129.134	53.842	88.9	1406	1708	0.0384
0:04:07	24-MAR	129.821	54.529	88.9	1406	1708	0.0379
0:36:17	24-MAR	130.357	55.065	89.0	1406	1708	0.0376
1:08:42	24-MAR	130.898	55.606	89.0	1406	1708	0.0372
1:40:52	24-MAR	131.434	56.142	89.0	1405	1709	0.0369
2:10:57	24-MAR	131.935	56.643	89.0	1405	1709	0.0366
2:44:37	24-MAR	132.496	57.204	89.0	1405	1709	0.0362
3:19:42	24-MAR	133.081	57.789	89.0	1405	1709	0.0359
3:59:12	24-MAR	133.739	58.447	89.0	1405	1709	0.0355
4:30:27	24-MAR	134.260	58.968	89.0	1405	1709	0.0352
5:07:47	24-MAR	134.882	59.590	89.0	1405	1709	0.0348
5:38:12	24-MAR	135.389	60.097	89.0	1404	1710	0.0345
6:10:42	24-MAR	135.931	60.639	89.0	1404	1710	0.0342
6:49:07	24-MAR	136.571	61.279	89.0	1404	1710	0.0339
7:21:52	24-MAR	137.117	61.825	89.0	1404	1710	0.0336
7:52:17	24-MAR	137.624	62.332	89.0	1404	1710	0.0333
8:22:47	24-MAR	138.132	62.840	89.0	1404	1710	0.0331
8:53:37	24-MAR	138.646	63.354	89.1	1404	1710	0.0328
9:37:12	24-MAR	139.372	64.080	89.1	1404	1710	0.0325
10:17:27	24-MAR	140.043	64.751	89.1	1403	1711	0.0321
10:57:42	24-MAR	140.714	65.422	89.1	1403	1711	0.0318
11:27:57	24-MAR	141.218	65.926	89.1	1403	1711	0.0316
11:58:17	24-MAR	141.724	66.432	89.1	1403	1711	0.0314
12:28:17	24-MAR	142.224	66.932	89.1	1403	1711	0.0311
13:18:22	24-MAR	143.059	67.767	89.1	1403	1711	0.0308
13:49:57	24-MAR	143.585	68.293	89.1	1403	1711	0.0305
14:23:07	24-MAR	144.138	68.846	89.1	1403	1711	0.0303

TEST PHASE: SHUTIN PERIOD # 4

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY	DATE	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
HH:MM:SS	DD-MMM						
14:56:22	24-MAR	144.692	69.400	89.1	1403	1712	0.0301
15:29:07	24-MAR	145.238	69.946	89.1	1402	1712	0.0298
15:59:07	24-MAR	145.738	70.446	89.1	1402	1712	0.0296
16:29:07	24-MAR	146.238	70.946	89.1	1402	1712	0.0294
17:02:27	24-MAR	146.793	71.501	89.1	1402	1712	0.0292
17:32:47	24-MAR	147.299	72.007	89.1	1402	1712	0.0290
18:18:22	24-MAR	148.059	72.767	89.1	1402	1712	0.0287
18:51:12	24-MAR	148.606	73.314	89.1	1402	1712	0.0285
19:21:17	24-MAR	149.107	73.815	89.1	1402	1712	0.0283
19:51:27	24-MAR	149.610	74.318	89.2	1402	1712	0.0281
20:34:27	24-MAR	150.327	75.035	89.2	1402	1712	0.0279
21:07:02	24-MAR	150.870	75.578	89.2	1402	1713	0.0277
21:38:02	24-MAR	151.386	76.094	89.2	1401	1713	0.0275
22:13:32	24-MAR	151.978	76.686	89.2	1401	1713	0.0273
22:57:52	24-MAR	152.717	77.425	89.2	1401	1713	0.0270
23:30:32	24-MAR	153.261	77.969	89.2	1401	1713	0.0269
0:00:37	25-MAR	153.763	78.471	89.2	1401	1713	0.0267
0:35:17	25-MAR	154.341	79.049	89.2	1401	1713	0.0265
1:12:17	25-MAR	154.957	79.665	89.2	1401	1713	0.0263
1:42:47	25-MAR	155.466	80.174	89.2	1401	1713	0.0261
2:15:07	25-MAR	156.004	80.712	89.2	1401	1713	0.0260
2:45:27	25-MAR	156.510	81.218	89.2	1401	1713	0.0258
3:22:37	25-MAR	157.129	81.837	89.2	1401	1713	0.0256
3:58:52	25-MAR	157.734	82.442	89.2	1401	1714	0.0254
4:28:57	25-MAR	158.235	82.943	89.2	1400	1714	0.0253
5:06:12	25-MAR	158.856	83.564	89.2	1400	1714	0.0251
5:39:52	25-MAR	159.417	84.125	89.2	1400	1714	0.0250
6:09:52	25-MAR	159.917	84.625	89.2	1400	1714	0.0248
6:39:52	25-MAR	160.417	85.125	89.2	1400	1714	0.0247
7:10:07	25-MAR	160.921	85.629	89.2	1400	1714	0.0245
7:41:47	25-MAR	161.449	86.157	89.2	1400	1714	0.0244
8:38:47	25-MAR	162.399	87.107	89.2	1400	1714	0.0241
9:10:12	25-MAR	162.923	87.630	89.2	1400	1714	0.0240
9:40:22	25-MAR	163.425	88.133	89.2	1400	1714	0.0238
10:11:37	25-MAR	163.946	88.654	89.2	1400	1714	0.0237
10:59:22	25-MAR	164.742	89.450	89.2	1400	1714	0.0235
11:32:47	25-MAR	165.299	90.007	89.2	1400	1714	0.0234
12:05:32	25-MAR	165.845	90.553	89.2	1400	1714	0.0232
12:36:37	25-MAR	166.363	91.071	89.2	1400	1715	0.0231
13:14:32	25-MAR	166.995	91.703	89.2	1399	1715	0.0229
13:45:12	25-MAR	167.506	92.214	89.2	1399	1715	0.0228
14:19:47	25-MAR	168.082	92.790	89.2	1399	1715	0.0227
14:53:37	25-MAR	168.646	93.354	89.2	1399	1715	0.0225
15:58:12	25-MAR	169.722	94.430	89.3	1399	1715	0.0223
16:32:22	25-MAR	170.292	95.000	89.3	1399	1715	0.0222
17:03:02	25-MAR	170.803	95.511	89.3	1399	1715	0.0220
17:35:27	25-MAR	171.343	96.051	89.3	1399	1715	0.0219
18:05:27	25-MAR	171.843	96.551	89.3	1399	1715	0.0218
18:45:42	25-MAR	172.514	97.222	89.3	1399	1715	0.0217
19:15:52	25-MAR	173.017	97.725	89.3	1399	1715	0.0216

TEST PHASE: SHUTIN PERIOD # 4

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
19:52:27	25-MAR	173.627	98.335	89.3	1399	1715	0.0214
20:22:27	25-MAR	174.127	98.835	89.3	1399	1715	0.0213
20:54:17	25-MAR	174.657	99.365	89.3	1399	1715	0.0212
21:28:57	25-MAR	175.235	99.943	89.3	1399	1715	0.0211
22:46:47	25-MAR	176.532	101.240	89.3	1399	1716	0.0208
23:19:32	25-MAR	177.078	101.786	89.3	1399	1716	0.0207
23:49:47	25-MAR	177.582	102.290	89.3	1398	1716	0.0206
0:20:02	26-MAR	178.086	102.794	89.3	1398	1716	0.0205
0:50:27	26-MAR	178.593	103.301	89.3	1398	1716	0.0204
1:20:32	26-MAR	179.095	103.803	89.3	1398	1716	0.0203
1:50:47	26-MAR	179.599	104.307	89.3	1398	1716	0.0202
2:20:57	26-MAR	180.102	104.810	89.3	1398	1716	0.0201
2:52:12	26-MAR	180.622	105.330	89.3	1398	1716	0.0200
3:41:02	26-MAR	181.436	106.144	89.3	1398	1716	0.0199
4:13:37	26-MAR	181.979	106.687	89.3	1398	1716	0.0198
4:44:57	26-MAR	182.502	107.210	89.3	1398	1716	0.0197
5:15:52	26-MAR	183.017	107.725	89.3	1398	1716	0.0196
5:47:57	26-MAR	183.552	108.260	89.3	1398	1716	0.0195
6:19:47	26-MAR	184.082	108.790	89.3	1398	1716	0.0194
6:52:57	26-MAR	184.635	109.343	89.3	1398	1716	0.0193
7:29:22	26-MAR	185.242	109.950	89.3	1398	1716	0.0192
8:04:22	26-MAR	185.825	110.533	89.3	1398	1716	0.0191
9:15:57	26-MAR	187.018	111.726	89.3	1398	1716	0.0189
9:50:47	26-MAR	187.599	112.307	89.3	1398	1716	0.0188
10:26:42	26-MAR	188.197	112.905	89.3	1398	1716	0.0187
11:02:42	26-MAR	188.798	113.505	89.3	1398	1716	0.0186
11:36:32	26-MAR	189.361	114.069	89.3	1398	1716	0.0185
12:11:12	26-MAR	189.939	114.647	89.3	1398	1717	0.0184
12:45:07	26-MAR	190.504	115.212	89.3	1398	1717	0.0184
13:25:02	26-MAR	191.170	115.878	89.3	1397	1717	0.0183
14:22:47	26-MAR	192.132	116.840	89.3	1397	1717	0.0181
14:56:22	26-MAR	192.692	117.400	89.3	1397	1717	0.0180
15:35:27	26-MAR	193.343	118.051	89.3	1397	1717	0.0179
16:08:52	26-MAR	193.900	118.608	89.3	1397	1717	0.0178
16:39:12	26-MAR	194.406	119.114	89.3	1397	1717	0.0178
17:09:12	26-MAR	194.906	119.614	89.3	1397	1717	0.0177
17:44:32	26-MAR	195.495	120.203	89.3	1397	1717	0.0176
18:30:42	26-MAR	196.264	120.972	89.3	1397	1717	0.0175
19:59:17	26-MAR	197.741	122.449	89.3	1397	1717	0.0173
20:41:32	26-MAR	198.445	123.153	89.3	1397	1717	0.0172
21:11:32	26-MAR	198.945	123.653	89.3	1397	1717	0.0171
21:49:57	26-MAR	199.585	124.293	89.4	1397	1717	0.0170
22:20:02	26-MAR	200.086	124.794	89.4	1397	1717	0.0170
22:56:12	26-MAR	200.689	125.397	89.4	1397	1717	0.0169
23:26:12	26-MAR	201.189	125.897	89.4	1397	1717	0.0168
0:04:02	27-MAR	201.820	126.528	89.4	1397	1717	0.0167
0:34:02	27-MAR	202.320	127.028	89.4	1397	1717	0.0167
1:04:17	27-MAR	202.824	127.532	89.4	1397	1717	0.0166
1:45:17	27-MAR	203.507	128.215	89.4	1397	1717	0.0165
2:15:17	27-MAR	204.007	128.715	89.4	1397	1717	0.0165

TEST PHASE: SHUTIN PERIOD # 4

FINAL FLOW PRESSURE = 3114 PSIA

PRODUCING TIME = 4.974 HR

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DELTA TIME, HR	BOT HOLE TEMP. DEG F	BOT HOLE PRESSURE PSIA	DELTA P PSI	LOG HORNER TIME
2:46:32	27-MAR	204.528	129.236	89.4	1397	1717	0.0164
3:17:42	27-MAR	205.048	129.755	89.4	1397	1717	0.0163
3:47:47	27-MAR	205.549	130.257	89.4	1397	1717	0.0163
4:17:47	27-MAR	206.049	130.757	89.4	1397	1717	0.0162
4:56:57	27-MAR	206.702	131.410	89.4	1397	1717	0.0161
5:26:57	27-MAR	207.202	131.910	89.4	1397	1717	0.0161
5:57:02	27-MAR	207.703	132.411	89.4	1397	1718	0.0160
6:37:37	27-MAR	208.379	133.087	89.4	1397	1718	0.0159
7:08:17	27-MAR	208.891	133.599	89.4	1397	1718	0.0159
7:53:47	27-MAR	209.649	134.357	89.4	1396	1718	0.0158
8:23:57	27-MAR	210.152	134.860	89.4	1396	1718	0.0157

 ** WELL TEST DATA PRINTOUT **

COMPANY: ALTAMONT OIL & GAS
 WELL: WALLEWEIN 22-1

FIELD REPORT NO. WALLBTM
 INSTRUMENT NO. 90367 btm

RECORDER CAPACITY: 16000 PSI
 DEPTH REFERENCE: GROUND LEVEL

GRADIENT INFORMATION

TIME OF DAY HH:MM:SS	DATE DD-MMM	ELAPSED TIME, HR	DEPTH FROM REF. FT	PRESSURE AT DEPTH PSIA	PRES. GRADIENT PSI/FT	TEMPERATURE AT DEPTH DEG F	TEMP. GRADIENT DEG F/FT
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14:45:32	18-MAR	0.511	0.0	14		50.1	
14:52:32	18-MAR	0.628	300.0	14	0.00020	49.1	-0.00350
14:58:52	18-MAR	0.734	600.0	15	0.00040	48.9	-0.00060
15:05:17	18-MAR	0.840	900.0	46	0.104	51.3	0.00797
15:12:12	18-MAR	0.956	1200.0	178	0.442	55.6	0.0143
15:18:32	18-MAR	1.061	1500.0	307	0.429	59.7	0.0136
15:25:32	18-MAR	1.178	1800.0	437	0.432	63.9	0.0140
15:33:02	18-MAR	1.303	2100.0	565	0.428	68.2	0.0146
15:40:02	18-MAR	1.420	2400.0	694	0.431	71.7	0.0116
15:46:57	18-MAR	1.535	2700.0	844	0.497	75.3	0.0120
15:53:57	18-MAR	1.652	3000.0	953	0.366	78.2	0.00967
16:00:47	18-MAR	1.765	3300.0	1083	0.433	80.9	0.00877
16:07:52	18-MAR	1.884	3600.0	1213	0.432	83.8	0.00970
16:15:02	18-MAR	2.003	3900.0	1342	0.431	86.6	0.00943
16:18:52	18-MAR	2.067	4019.0	1394	0.436	87.7	0.00950
8:26:22	27-MAR	210.192	4019.0	1396		89.4	
9:10:02	27-MAR	210.920	3900.0	1354	0.358	88.9	0.00412
9:15:17	27-MAR	211.007	3700.0	1263	0.454	88.2	0.00325
9:21:17	27-MAR	211.107	3400.0	1128	0.451	86.3	0.00630
9:27:27	27-MAR	211.210	3100.0	984	0.479	83.7	0.00873
9:33:17	27-MAR	211.307	2800.0	865	0.395	81.3	0.00813
9:39:02	27-MAR	211.403	2500.0	733	0.441	79.0	0.00773
9:44:52	27-MAR	211.500	2200.0	600	0.445	76.0	0.00983
9:50:12	27-MAR	211.589	1900.0	468	0.438	72.9	0.0103
9:56:27	27-MAR	211.693	1600.0	335	0.445	69.1	0.0128
10:02:12	27-MAR	211.789	1300.0	202	0.443	65.4	0.0121
10:08:02	27-MAR	211.886	1000.0	70	0.439	61.5	0.0133
10:14:37	27-MAR	211.996	700.0	15	0.184	58.4	0.0102
10:19:37	27-MAR	212.079	400.0	15	-0.00007	57.1	0.00433
10:25:47	27-MAR	212.182	100.0	15	0.00027	55.7	0.00480
10:27:27	27-MAR	212.210	1.0	15	0.00020	55.3	0.00384