



The summary and detailed reports of above three tests on a well are included below. The certificates of the pressure test validation and submission are provided following the reports.

	<b>BU &amp; PTA</b>		<b>BU</b>	<b>Static</b>	
	<b>Sure-shot™ Acoustic System</b>		<b>Sure-Shot™ Acoustic System</b>	<b>Sure-Shot™ Acoustic System</b>	<b>Downhole Gauge (if utilized)</b>
Shut-in time required	<b>167 hrs 7 days</b>		<b>222 hrs 9 days</b>	<b>336 hrs 14 days (minimum)</b>	<b>336 hrs 14 days (minimum)</b>
kPa/hr	N/A		< 2.5*	N/A	N/A
<b>Additional revenue</b> due to shorter shut-in time	<b>\$1,540**</b>		<b>\$1100**</b>	<b>\$0</b>	<b>\$0</b>
Reservoir pressure	13,061 kPa (extrapolated to infinite shut-in)		11,536 kPa (static at end of shut-in)	11,626 kPa (static at end of shut-in)	(static at end of shut-in)
Skin Conditions, reservoir size & shape	Yes		No	No	No
Removal of damaged skin resulting in <b>incremental production / revenue</b>	1 month	12 months	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	4.8 m3 OPD / <b>\$2,107**</b>	2.4 m3 OPD / <b>\$1,050**</b>			

\* ERCB Directive 40/Section 5.1:  $\leq 2.5$  kPa/hr over 6 hours or 14 day shut-in time.

\*\* an average crude oil price of \$70/barrel is used.

**ACOUSTIC PRESSURE BUILDUP TEST REPORT**  
**Golden Company Ltd.**  
**100/00-00-000-00 WOM/00**  
**Red Deer**  
**October 30 - November 6, xxxx**

Prepared for  
**GOLDEN COMPANY LTD.**

Prepared by  
**NELGAR OILFIELD SERVICES**

Analyzed by;  
**JOHN SLIVA**

NOVEMBER 10, xxxx



## 1. INTRODUCTION

A pressure buildup test was performed on the Red Deer formation at a well in Black Gold 100/00-00-000-00 WOM/00 from October 30, xxxx to November 6, xxxx. The test data was regularly submitted to Golden Company personnel for review. It was concluded when sufficient data was collected.

The results of this test are as follows:

### SUMMARY OF RESULTS

Reservoir Pressure @ 167 hours shut-in	11,397.36	kPa (absolute) @ MPP
Average Reservoir Pressure (PR)	13,060.6	kPa (absolute) @ MPP
Flow Capacity (Kh) <sub>o</sub>	1.32	md.m
Effective Permeability (K) <sub>o</sub>	0.19	md
<b>Skin Factor (S) After PP Effects</b>	<b>+7.8</b>	
Approximate Radius of Investigation	13	meters
<b>Present Production Rate</b>	0.5 m <sup>3</sup> OPD	<b>(\$ 220/day*)</b>
<b>1 Month Rate Forecast @ skin = -4</b>	5.285 m <sup>3</sup> OPD	<b>(\$ 2,327/day*)</b>
<b>12 Month Rate Forecast @ skin = -4</b>	2.884 m <sup>3</sup> OPD	<b>(\$ 1,270/day*)</b>

\* an average crude oil price of \$70/barrel is used.

NOTE: SEE DISCUSSION.

## **2. DISCUSSION**

### **A. Data Validation**

Fluid levels and surface pressures were obtained by Nelgar Oilfield Services Ltd. utilizing Nelgar's **Sure-Shot™ Acoustic Pressure Survey Fluid Level System** and tandem **N-Gauge™ Electronic Pressure Recorders**. Gas column pressure was determined by the Cullender and Smith method. The resulting bottomhole pressures have been calculated by the Nelgar Oilfield Services Ltd. As a quality check, each time an update is performed, the surface pressure is compared to an **N-Gauge™ Electronic Hand-Held Deadweight**. If a difference of greater than 5 kPa is found, further work is performed to verify the accuracy.

All bottomhole pressures have been corrected to MPP.

Production rates and fluid properties were reported by Golden Company Ltd. and accepted as presented. Cumulative production of 542 m<sup>3</sup> of oil was used to obtain an assumed effective producing time of 26,016 hours.

This is a deviated wellbore. The stated perforations were 1579.0-1588.0 mKBMD which equates to 1504.56-1512.93 mKBTVD.

All bottomhole pressures were corrected to absolute values by assuming a barometric pressure of 93.01 kPa.

## **B. Pressure Buildup**

A log-log diagnostic plot of the buildup data suggests early time wellbore storage as indicated by a unit slope on the derivative. The late time data indicates possible radial flow as identified by the near zero slope of the derivative. As such, an analysis of the late time data utilizing semi-log techniques is possible exercising caution.

Analysis of the late time buildup data was performed utilizing both type curve and semi-log techniques. The late time data of the Horner plot shows a possible well established semi-log straight line.

The results of the type curve and semi-log analysis of the late time data yielded the following results:

	<u>Type Curve</u>	<u>Semi-log Analysis</u>
Effective Permeability (md)	0.18	0.18
Skin Factor, S	+7.4	+7.4

The results find a reasonable match between the type curve and semi-log techniques. This further confirms that the right model was chosen for the late time data. It is worth mentioning that the above mentioned skins are prior to taking into account partial penetration effects. This will be handled in more detail in the Synthesis portion of this report.

### C. Synthesis

In order to confirm and fine tune the results found in the type curve and semi-log analysis, a pressure history match of the buildup data was performed. Emphasis was placed on the late time data of the buildup.

The results of the semi-log analysis were used as a starting point in the pressure history match. Variables were allowed to float with minimum and maximum values used on each of the variables to ensure reasonable results.

A reasonable match of the buildup data was found utilizing a partial penetration effects model with the following variables:

#### Summary of Simulation Results

$C_D$	18
$K_o$	0.188 md
Skin Factor (S) After PP Effects	+7.8

The positive skin indicates a damaged wellbore. Removal of this damage may increase productivity.

# Acoustic Buildup

Golden Company

Surface: 00-00-000-00 WOM

Downhole: 100/00-00-000-00 WOM/00



<b>Wellname:</b> Black Tea	<b>Formation:</b> Red Deer	<b>Status:</b> Oil Well
<b>Field name:</b> Black Gold	<b>License #:</b> 123456	

<b>KB (m):</b> 851.66	<b>KB to CF (m):</b> 4.30	<b>Oil Rate (m3pd):</b> 0.50	<b>Gas Gravity:</b> 0.72
<b>Tubing bottom (mKB):</b> 1615.10	<b>Surface Temp (C):</b> 2.20	<b>Water Rate (m3pd):</b> 0.00	<b>Oil Gravity (API):</b> 38.00
<b>Number of Joints:</b> 170	<b>Reservoir Temp (C):</b> 50.00	<b>Gas Rate (M m3pd):</b> 0.10	<b>Water Gravity:</b> 1.05

<b>Perforations Measured Depths:</b>	<b>Top of Perfs (mKB):</b> 1579.00	<b>Bottom of Perfs (mKB):</b> 1588.00	<b>Mid-Point of Perfs (mKB):</b> 1583.50
<b>True Vertical Depths:</b>	1504.56	1512.93	1508.75

Date	Time	Shut-in Time (hrs)	Joints to Fluid	Column Heights (mCF TVD)			Gradients (kPa/m)			Pressure (kPa(a))				
				Gas	Oil	Inflow	Gas	Oil	Inflow	Surface	Interface	Oil	Inflow	MPP
xxxx-10-30	13:32:56	0.0000	165.0	1490.1	14.6	0.0	0.037	7.880	7.880	416.80	55.39	115.22	0.00	587.40
xxxx-10-30	13:37:13	0.0714	164.0	1481.1	14.6	9.0	0.037	7.882	7.875	419.40	55.40	115.25	70.90	660.95
xxxx-10-30	13:40:23	0.1242	163.8	1479.7	14.6	10.4	0.038	7.883	7.875	421.14	55.59	115.25	81.80	673.78
xxxx-10-30	13:42:06	0.1528	163.7	1479.0	14.6	11.1	0.038	7.883	7.875	422.19	55.70	115.25	87.26	680.40
xxxx-10-30	13:43:14	0.1717	163.7	1478.4	14.6	11.8	0.038	7.883	7.874	423.00	55.78	115.25	92.71	686.75
xxxx-10-30	13:44:22	0.1906	163.4	1476.3	14.6	13.9	0.038	7.883	7.874	423.64	55.79	115.26	109.06	703.76
xxxx-10-30	13:45:30	0.2094	163.3	1474.9	14.6	15.2	0.038	7.884	7.874	424.37	55.84	115.27	119.97	715.44
xxxx-10-30	13:46:38	0.2283	163.2	1474.2	14.6	15.9	0.038	7.884	7.874	424.96	55.89	115.27	125.42	721.54
xxxx-10-30	13:47:47	0.2475	162.9	1472.1	14.6	18.0	0.038	7.884	7.874	425.57	55.90	115.27	141.77	738.51
xxxx-10-30	13:48:55	0.2664	162.8	1470.7	14.6	19.4	0.038	7.885	7.874	426.48	55.96	115.28	152.68	750.40
xxxx-10-30	13:50:22	0.2906	162.7	1470.0	14.6	20.1	0.038	7.885	7.874	427.44	56.07	115.28	158.12	756.91
xxxx-10-30	13:51:30	0.3094	162.6	1469.3	14.6	20.8	0.038	7.885	7.873	428.05	56.12	115.28	163.58	763.03
xxxx-10-30	13:53:10	0.3372	162.4	1467.3	14.6	22.9	0.038	7.885	7.873	429.04	56.17	115.29	179.93	780.43
xxxx-10-30	13:54:18	0.3561	162.2	1465.9	14.6	24.2	0.038	7.885	7.873	429.65	56.20	115.29	190.83	791.98
xxxx-10-30	13:55:26	0.3750	162.2	1465.2	14.6	24.9	0.038	7.886	7.873	430.34	56.27	115.29	196.28	798.19
xxxx-10-30	13:56:41	0.3958	161.9	1463.1	14.6	27.0	0.039	7.886	7.873	431.43	56.33	115.30	212.63	815.70
xxxx-10-30	13:58:03	0.4186	161.8	1462.4	14.6	27.7	0.039	7.886	7.873	432.17	56.41	115.30	218.08	821.96
xxxx-10-30	13:59:31	0.4431	161.6	1460.3	14.6	29.8	0.039	7.887	7.872	433.31	56.48	115.31	234.42	839.52
xxxx-10-30	14:01:07	0.4697	161.4	1458.3	14.6	31.9	0.039	7.887	7.872	433.72	56.45	115.32	250.76	856.25
xxxx-10-30	14:02:50	0.4983	161.3	1457.6	14.6	32.5	0.039	7.887	7.872	435.01	56.60	115.32	256.21	863.13
xxxx-10-30	14:04:40	0.5289	161.0	1454.8	14.6	35.3	0.039	7.888	7.872	436.08	56.63	115.33	278.00	886.04
xxxx-10-30	14:06:40	0.5622	160.6	1451.3	14.6	38.8	0.039	7.889	7.871	437.27	56.66	115.34	305.22	914.49
xxxx-10-30	14:08:50	0.5983	160.4	1450.0	14.6	40.2	0.039	7.889	7.871	438.49	56.76	115.34	316.12	926.71
xxxx-10-30	14:11:11	0.6375	160.2	1447.9	14.6	42.2	0.039	7.889	7.871	440.16	56.90	115.35	332.45	944.86
xxxx-10-30	14:13:42	0.6794	159.9	1445.1	14.6	45.0	0.039	7.890	7.870	441.68	56.99	115.36	354.23	968.26
xxxx-10-30	14:16:26	0.7250	159.6	1442.3	14.6	47.8	0.040	7.890	7.870	443.00	57.06	115.36	376.01	991.43
xxxx-10-30	14:19:23	0.7742	159.2	1438.9	14.6	51.2	0.040	7.891	7.870	445.01	57.19	115.37	403.23	1020.80
xxxx-10-30	14:22:33	0.8269	158.8	1435.4	14.6	54.7	0.040	7.892	7.869	446.79	57.28	115.38	430.44	1049.90
xxxx-10-30	14:25:58	0.8839	158.3	1431.3	14.6	58.9	0.040	7.893	7.869	448.47	57.34	115.40	463.09	1084.30
xxxx-10-30	14:29:40	0.9456	157.9	1427.8	14.6	62.3	0.040	7.893	7.868	450.76	57.50	115.41	490.30	1113.97
xxxx-10-30	14:33:40	1.0122	157.4	1423.7	14.6	66.5	0.040	7.894	7.868	453.04	57.63	115.42	522.94	1149.03
xxxx-10-30	14:37:58	1.0839	156.9	1418.8	14.6	71.3	0.041	7.895	7.867	455.36	57.73	115.44	561.02	1189.55
xxxx-10-30	14:42:38	1.1617	156.3	1414.0	14.6	76.2	0.041	7.896	7.866	457.92	57.87	115.45	599.10	1230.34
xxxx-10-30	14:47:41	1.2458	155.8	1409.1	14.6	81.0	0.041	7.897	7.866	460.99	58.06	115.47	637.17	1271.69
xxxx-10-30	14:53:07	1.3364	155.1	1403.6	14.6	86.5	0.041	7.898	7.865	464.07	58.23	115.48	680.66	1318.45
xxxx-10-30	14:58:58	1.4339	154.5	1398.0	14.6	92.1	0.042	7.900	7.864	467.35	58.42	115.50	724.15	1365.42
xxxx-10-30	15:05:18	1.5394	153.8	1391.8	14.6	98.3	0.042	7.901	7.863	470.79	58.60	115.52	773.05	1417.96
xxxx-10-30	15:12:09	1.6536	153.1	1385.6	14.6	104.5	0.042	7.902	7.862	474.74	58.84	115.54	821.95	1471.07
xxxx-10-30	15:19:34	1.7772	152.2	1378.0	14.6	112.2	0.043	7.904	7.861	479.02	59.06	115.56	881.70	1535.33
xxxx-10-30	15:27:30	1.9094	151.4	1371.0	14.6	119.1	0.043	7.905	7.860	483.33	59.30	115.58	935.99	1594.20
xxxx-10-30	15:36:06	2.0528	150.5	1362.7	14.6	127.4	0.044	7.907	7.859	488.10	59.54	115.60	1001.13	1664.38
xxxx-10-30	15:45:23	2.2075	149.5	1354.4	14.6	135.7	0.044	7.909	7.858	493.30	59.82	115.63	1066.25	1735.00
xxxx-10-30	15:55:29	2.3758	148.4	1344.7	14.6	145.4	0.045	7.911	7.856	499.17	60.12	115.66	1142.19	1817.14
xxxx-10-30	16:06:19	2.5564	147.4	1335.7	14.6	154.4	0.045	7.912	7.855	505.28	60.47	115.68	1212.67	1894.10
xxxx-10-30	16:17:59	2.7508	146.1	1324.7	14.6	165.5	0.046	7.915	7.853	511.91	60.77	115.72	1299.39	1987.79
xxxx-10-30	16:30:42	2.9628	144.8	1312.9	14.6	177.2	0.047	7.917	7.851	519.23	61.12	115.75	1391.48	2087.58

# Acoustic Buildup

Golden Company

Surface: 00-00-000-00 WOM

Downhole: 100/00-00-000-00 WOM/00

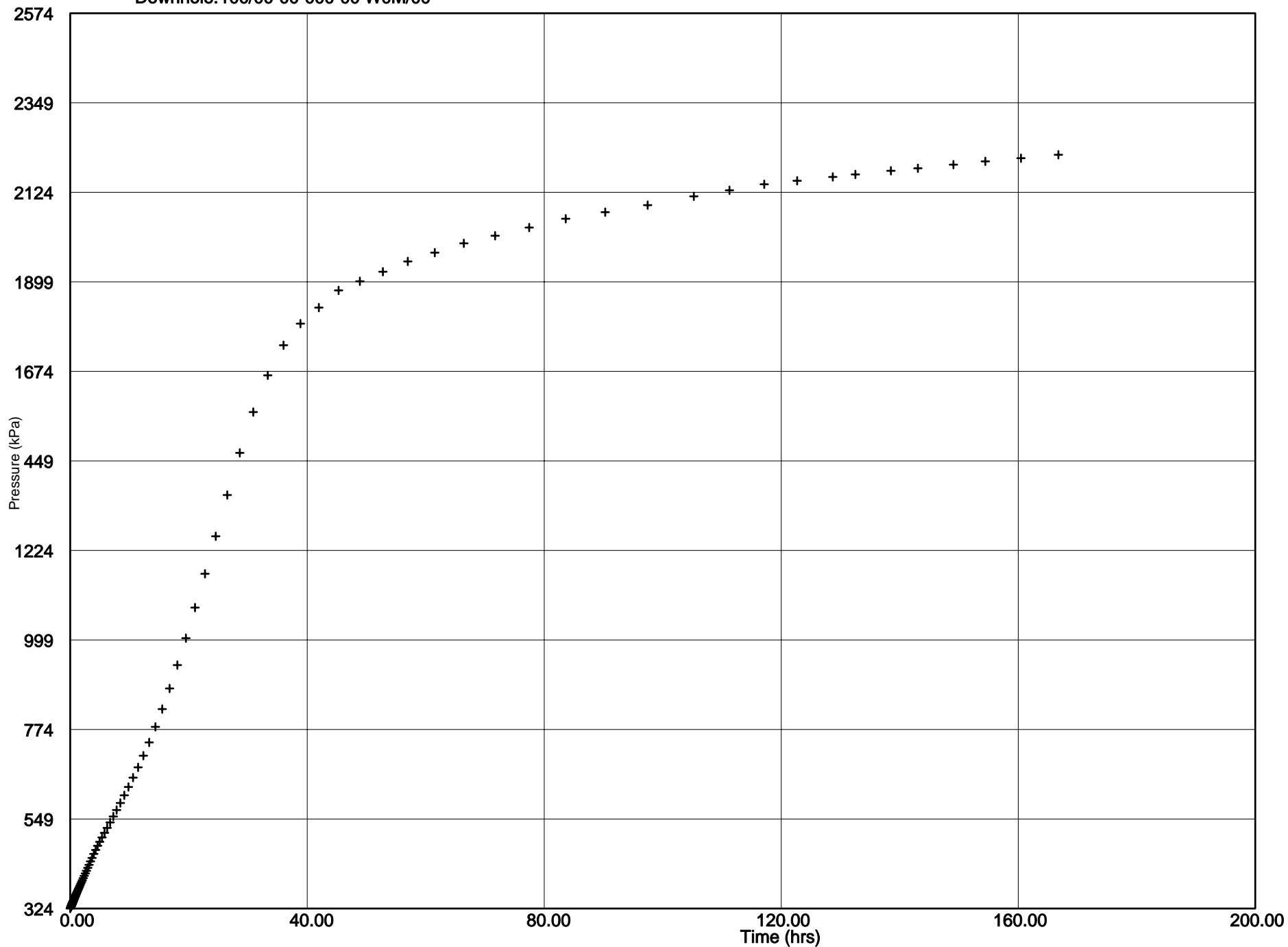


Date	Time	Shut-in Time (hrs)	Joints to Fluid	Column Heights (mCF TVD)			Gradients (kPa/m)			Pressure (kPa(a))		MPP		
				Gas	Oil	Inflow	Gas	Oil	Inflow	Surface	Interface			
xxxx-10-30	16:44:13	3.1881	143.5	1301.1	14.6	189.0	0.047	7.919	7.849	526.79	61.48	115.79	1483.51	2187.57
xxxx-10-30	16:58:54	3.4328	142.0	1288.7	14.6	201.5	0.048	7.922	7.847	535.37	61.91	115.82	1580.91	2294.01
xxxx-10-30	17:14:49	3.6981	140.4	1274.1	14.6	216.0	0.049	7.925	7.845	544.10	62.24	115.87	1694.47	2416.67
xxxx-10-30	17:32:03	3.9853	138.7	1258.9	14.6	231.2	0.050	7.928	7.842	554.14	62.66	115.91	1813.35	2546.06
xxxx-10-30	17:50:36	4.2944	136.8	1243.0	14.6	247.1	0.051	7.931	7.840	564.07	63.01	115.96	1937.56	2680.60
xxxx-10-30	18:10:35	4.6275	135.0	1227.1	14.6	263.0	0.052	7.934	7.837	574.59	63.40	116.01	2061.40	2815.39
xxxx-10-30	18:32:19	4.9897	133.0	1209.1	14.6	281.0	0.053	7.938	7.834	584.50	63.58	116.06	2201.26	2965.40
xxxx-10-30	18:55:40	5.3789	130.8	1190.5	14.6	299.6	0.054	7.942	7.831	595.49	63.81	116.12	2346.37	3121.79
xxxx-10-30	19:20:50	5.7983	128.6	1171.2	14.6	319.0	0.055	7.946	7.827	607.11	64.04	116.17	2496.70	3284.03
xxxx-10-30	19:48:08	6.2533	126.2	1149.7	14.6	340.4	0.056	7.950	7.824	619.49	64.20	116.24	2662.98	3462.91
xxxx-10-30	20:17:31	6.7431	123.5	1126.3	14.6	363.9	0.057	7.955	7.819	633.27	64.33	116.31	2845.14	3659.06
xxxx-10-30	20:49:25	7.2747	120.8	1102.8	14.6	387.3	0.059	7.960	7.815	648.33	64.54	116.38	3027.06	3856.31
xxxx-10-30	21:23:41	7.8458	118.1	1078.6	14.6	411.5	0.060	7.965	7.810	664.65	64.77	116.45	3214.06	4059.93
xxxx-10-30	22:00:38	8.4617	115.1	1052.4	14.6	437.7	0.062	7.970	7.805	682.18	64.92	116.53	3416.81	4280.44
xxxx-10-30	22:40:34	9.1272	111.9	1024.8	14.6	465.4	0.064	7.975	7.800	701.51	65.08	116.61	3629.90	4513.09
xxxx-10-30	23:23:40	9.8456	108.5	995.3	14.6	494.9	0.065	7.981	7.794	722.46	65.16	116.69	3857.07	4761.38
xxxx-10-31	00:10:14	10.6217	105.1	965.8	14.6	524.3	0.068	7.987	7.788	745.84	65.36	116.77	4083.53	5011.50
xxxx-10-31	01:00:28	11.4589	101.5	934.3	14.6	555.9	0.070	7.993	7.781	771.70	65.50	116.86	4325.32	5279.38
xxxx-10-31	01:54:33	12.3603	97.6	900.0	14.6	590.1	0.073	7.999	7.774	801.07	65.60	116.95	4587.56	5571.18
xxxx-10-31	02:53:29	13.3425	93.5	864.4	14.6	625.7	0.076	8.005	7.766	834.53	65.74	117.05	4859.23	5876.55
xxxx-10-31	03:56:48	14.3978	89.0	825.4	14.6	664.7	0.080	8.012	7.757	873.44	65.83	117.15	5156.04	6212.46
xxxx-10-31	05:05:03	15.5353	84.2	784.4	14.6	705.7	0.084	8.019	7.747	918.18	65.90	117.25	5467.47	6568.80
xxxx-10-31	06:19:32	16.7767	79.3	740.8	14.6	749.4	0.089	8.026	7.736	970.20	65.93	117.35	5797.33	6950.81
xxxx-10-31	07:38:59	18.1008	74.4	697.0	14.6	793.1	0.095	8.033	7.725	1028.84	65.97	117.45	6126.74	7338.99
xxxx-10-31	09:04:59	19.5342	69.2	651.1	14.6	839.0	0.101	8.039	7.712	1096.33	65.88	117.54	6470.54	7750.29
xxxx-10-31	10:37:50	21.0817	64.2	605.3	14.6	884.9	0.109	8.045	7.699	1173.16	65.76	117.62	6812.66	8169.20
xxxx-10-31	12:18:44	22.7633	59.3	559.6	14.6	930.5	0.117	8.049	7.685	1258.10	65.46	117.69	7151.10	8592.35
xxxx-10-31	14:07:24	24.5744	54.7	516.9	14.6	973.2	0.126	8.053	7.671	1352.56	65.29	117.74	7465.43	9001.01
xxxx-10-31	16:04:25	26.5247	50.5	477.2	14.6	1013.0	0.137	8.054	7.657	1456.31	65.19	117.76	7756.00	9395.27
xxxx-10-31	18:10:39	28.6286	46.7	441.8	14.6	1048.3	0.147	8.054	7.643	1562.19	65.06	117.76	8012.07	9757.08
xxxx-10-31	20:27:02	30.9017	43.6	413.1	14.6	1077.0	0.158	8.053	7.630	1664.70	65.12	117.74	8218.35	10065.91
xxxx-10-31	22:54:10	33.3539	41.2	389.9	14.6	1100.2	0.167	8.051	7.620	1757.06	65.15	117.72	8383.22	10323.15
xxxx-11-01	01:33:09	36.0036	39.4	373.5	14.6	1116.6	0.175	8.049	7.611	1832.64	65.31	117.68	8499.11	10514.74
xxxx-11-01	04:24:39	38.8619	38.2	362.3	14.6	1127.8	0.180	8.047	7.605	1887.02	65.39	117.66	8577.74	10647.81
xxxx-11-01	07:31:09	41.9703	37.3	353.3	14.6	1136.8	0.185	8.046	7.601	1927.22	65.25	117.64	8640.81	10750.92
xxxx-11-01	10:51:17	45.3058	36.8	348.8	14.6	1141.3	0.189	8.044	7.597	1970.36	65.99	117.61	8670.39	10824.34
xxxx-11-01	14:26:47	48.8975	36.4	344.4	14.6	1145.8	0.192	8.043	7.595	1993.45	65.97	117.59	8701.61	10878.63
xxxx-11-01	18:20:02	52.7850	36.1	341.6	14.6	1148.5	0.194	8.041	7.592	2017.43	66.30	117.57	8720.01	10921.31
xxxx-11-01	22:31:47	56.9808	35.8	339.5	14.6	1150.6	0.197	8.040	7.590	2043.32	66.81	117.55	8733.44	10961.12
xxxx-11-02	03:05:32	61.5433	35.6	337.2	14.6	1152.9	0.199	8.039	7.588	2065.23	67.13	117.53	8748.60	10998.49
xxxx-11-02	07:59:02	66.4350	35.5	336.2	14.6	1154.0	0.202	8.037	7.586	2088.72	67.76	117.51	8754.17	11028.15
xxxx-11-02	13:16:17	71.7225	35.4	335.3	14.6	1154.8	0.204	8.035	7.585	2107.75	68.27	117.49	8758.58	11052.08
xxxx-11-02	19:01:38	77.4783	35.3	334.7	14.6	1155.5	0.206	8.034	7.583	2128.47	68.86	117.46	8761.79	11076.58
xxxx-11-03	01:11:24	83.6411	35.2	333.9	14.6	1156.3	0.208	8.032	7.581	2150.61	69.48	117.44	8765.85	11103.38
xxxx-11-03	07:50:38	90.2950	35.1	332.5	14.6	1157.6	0.210	8.031	7.580	2167.00	69.78	117.42	8774.32	11128.52
xxxx-11-03	15:00:23	97.4575	35.0	331.1	14.6	1159.0	0.212	8.030	7.578	2184.64	70.09	117.41	8783.52	11155.65
xxxx-11-03	22:48:53	105.2658	34.8	329.3	14.6	1160.8	0.214	8.029	7.576	2206.60	70.49	117.38	8794.44	11188.91
xxxx-11-04	04:49:36	111.2778	34.6	327.9	14.6	1162.2	0.216	8.028	7.575	2221.99	70.72	117.37	8803.67	11213.76
xxxx-11-04	10:41:33	117.1436	34.5	326.5	14.6	1163.7	0.217	8.027	7.574	2237.00	70.93	117.36	8813.15	11238.44
xxxx-11-04	16:14:23	122.6908	34.3	325.0	14.6	1165.1	0.218	8.026	7.573	2245.92	70.94	117.35	8822.80	11257.00
xxxx-11-04	22:15:06	128.7028	34.2	323.5	14.6	1166.6	0.219	8.026	7.572	2255.56	70.93	117.34	8833.49	11277.33
xxxx-11-05	02:03:53	132.5158	34.0	322.5	14.6	1167.6	0.220	8.026	7.571	2261.79	70.93	117.34	8840.29	11290.35
xxxx-11-05	08:04:36	138.5278	33.9	320.7	14.6	1169.5	0.221	8.025	7.570	2270.86	70.84	117.34	8852.92	11311.95
xxxx-11-05	12:36:53	143.0658	33.8	319.7	14.6	1170.4	0.222	8.025	7.570	2277.27	70.85	117.33	8859.35	11324.80
xxxx-11-05	18:37:34	149.0772	33.6	318.3	14.6	1171.8	0.223	8.024	7.569	2286.51	70.86	117.32	8868.82	11343.51
xxxx-11-06	00:00:22	154.4572	33.5	317.0	14.6	1173.1	0.223	8.024	7.568	2294.77	70.85	117.32	8877.81	11360.74
xxxx-11-06	06:01:04	160.4689	33.3	315.5	14.6	1174.6	0.224	8.024	7.567	2302.79	70.78	117.31	8888.28	11379.16
xxxx-11-06	12:20:22	166.7906	33.2	314.1	14.6	1176.1	0.225	8.023	7.566	2311.22	70.75	117.31	8898.09	11397.36

# Casing Pressure vs Time

Company: Golden Company  
Surface: 00-00-000-00 WOM  
Downhole: 100/00-00-000-00 WOM/00

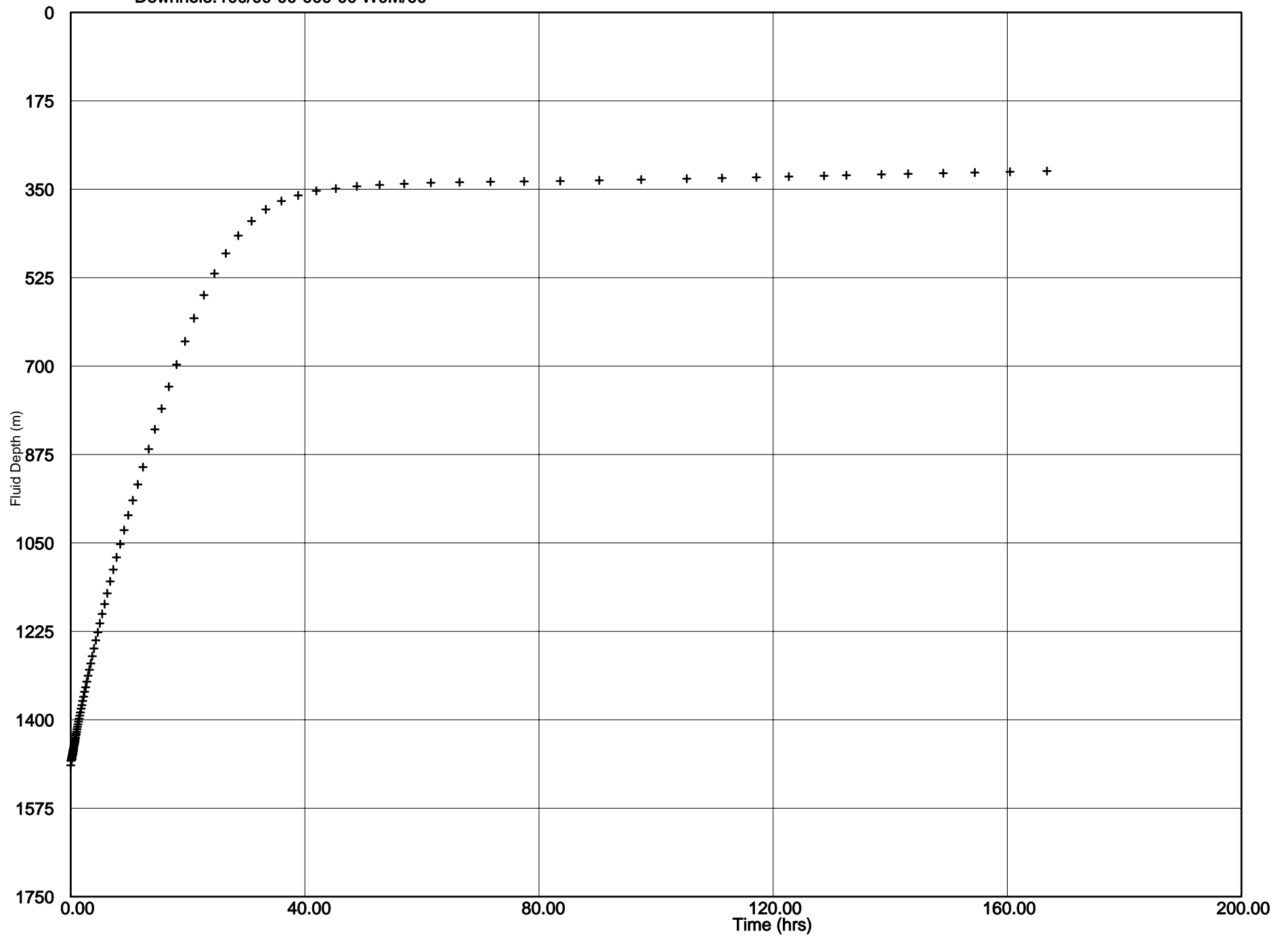
Start of Test: xxxx-10-30 13:32:56  
Last Shot: xxxx-11-06 12:20:22



# Fluid Level vs Time

Company: Golden Company  
Surface: 00-00-000-00 WOM  
Downhole: 100/00-00-000-00 WOM/00

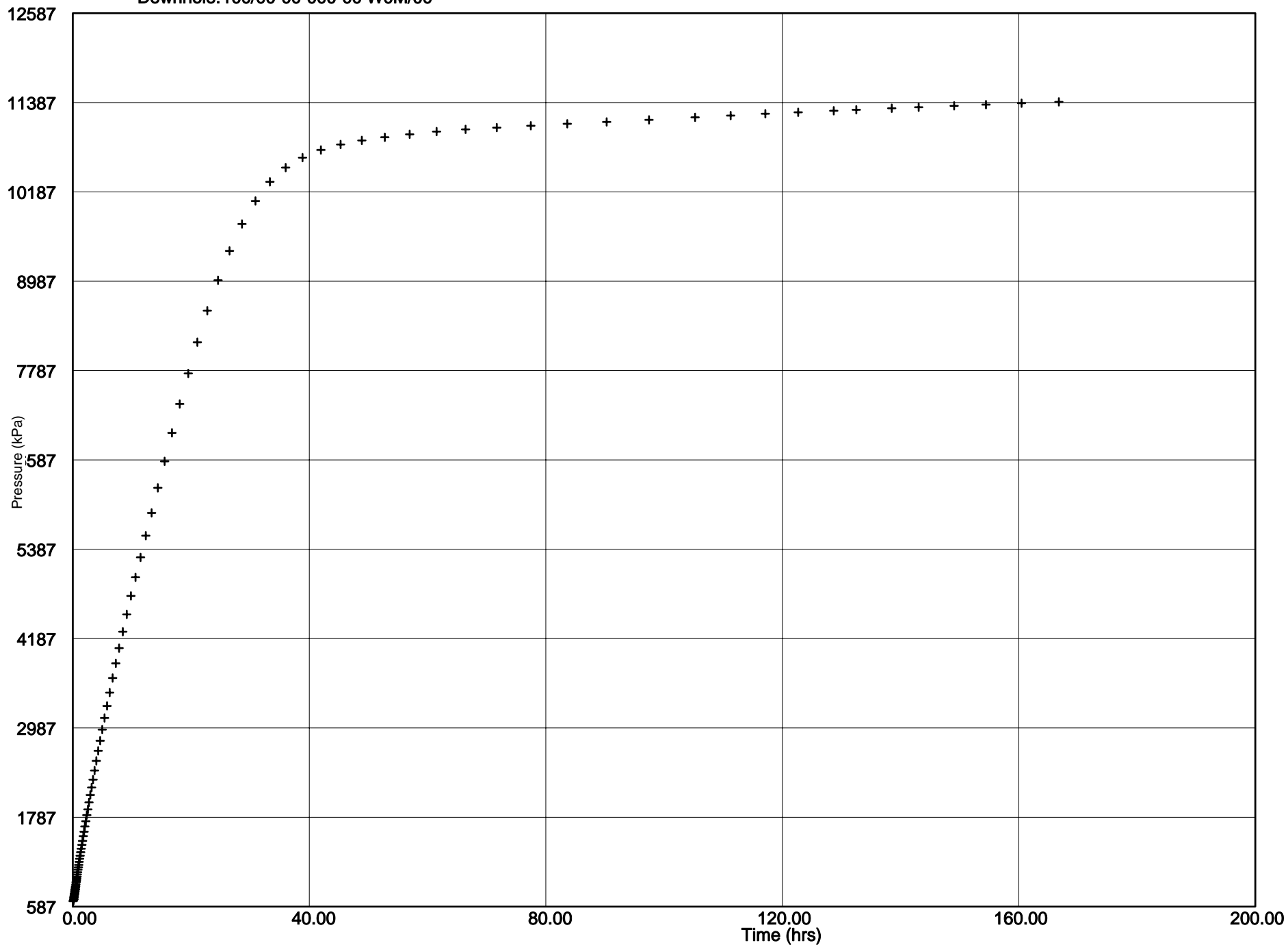
Start of Test: xxxx-10-30 13:32:56  
Last Shot: xxxx-11-06 12:20:22



# Bottom Hole Pressure vs Time

Company: Golden Company  
Surface: 00-00-000-00 WOM  
Downhole: 100/00-00-000-00 WOM/00

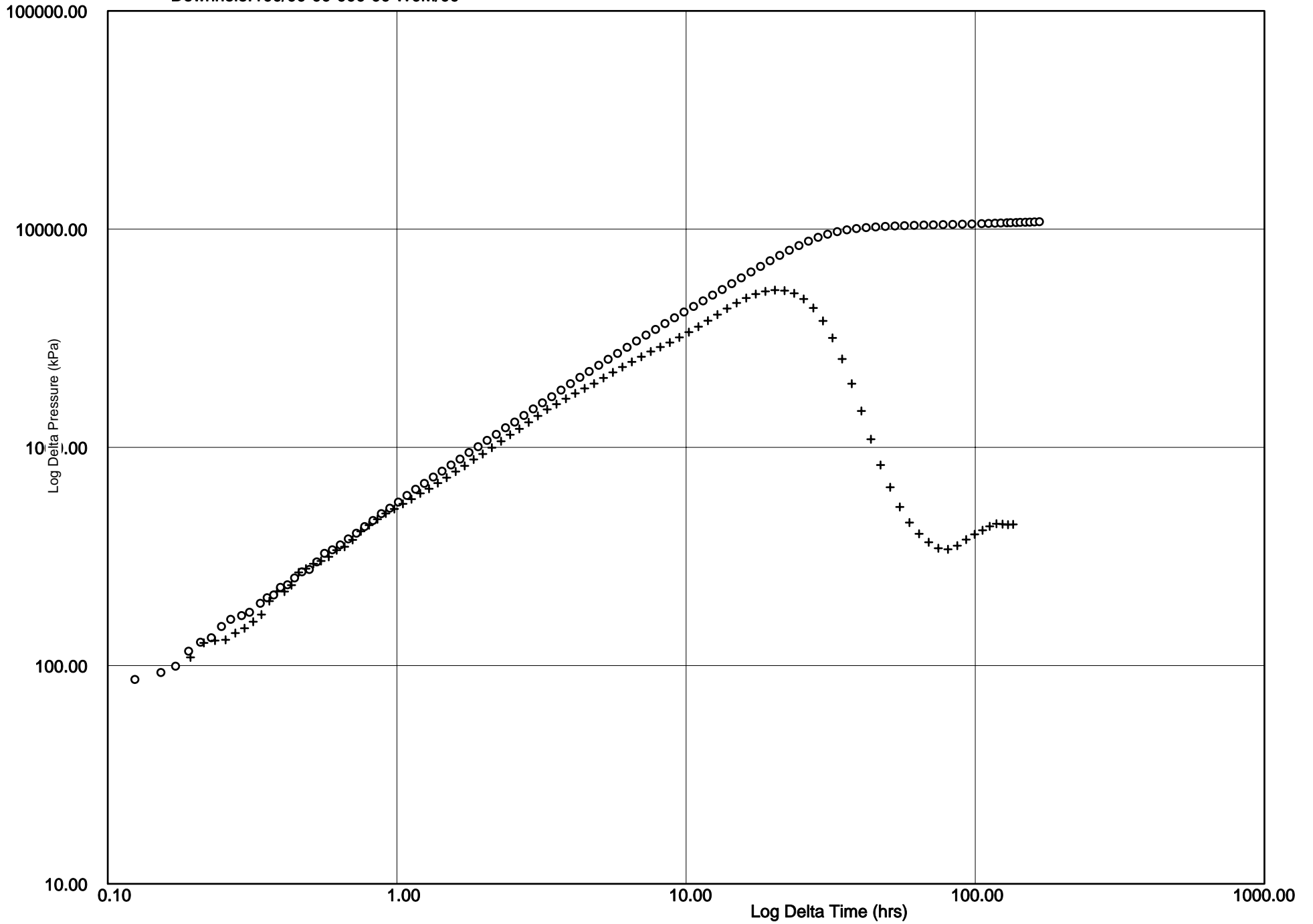
Start of Test: xxxx-10-30 13:32:56  
Last Shot: xxxx-11-06 12:20:22



# Type Curve Plot

Company: Golden Company  
Surface: 00-00-000-00 WOM  
Downhole: 100/00-00-000-00 WOM/00

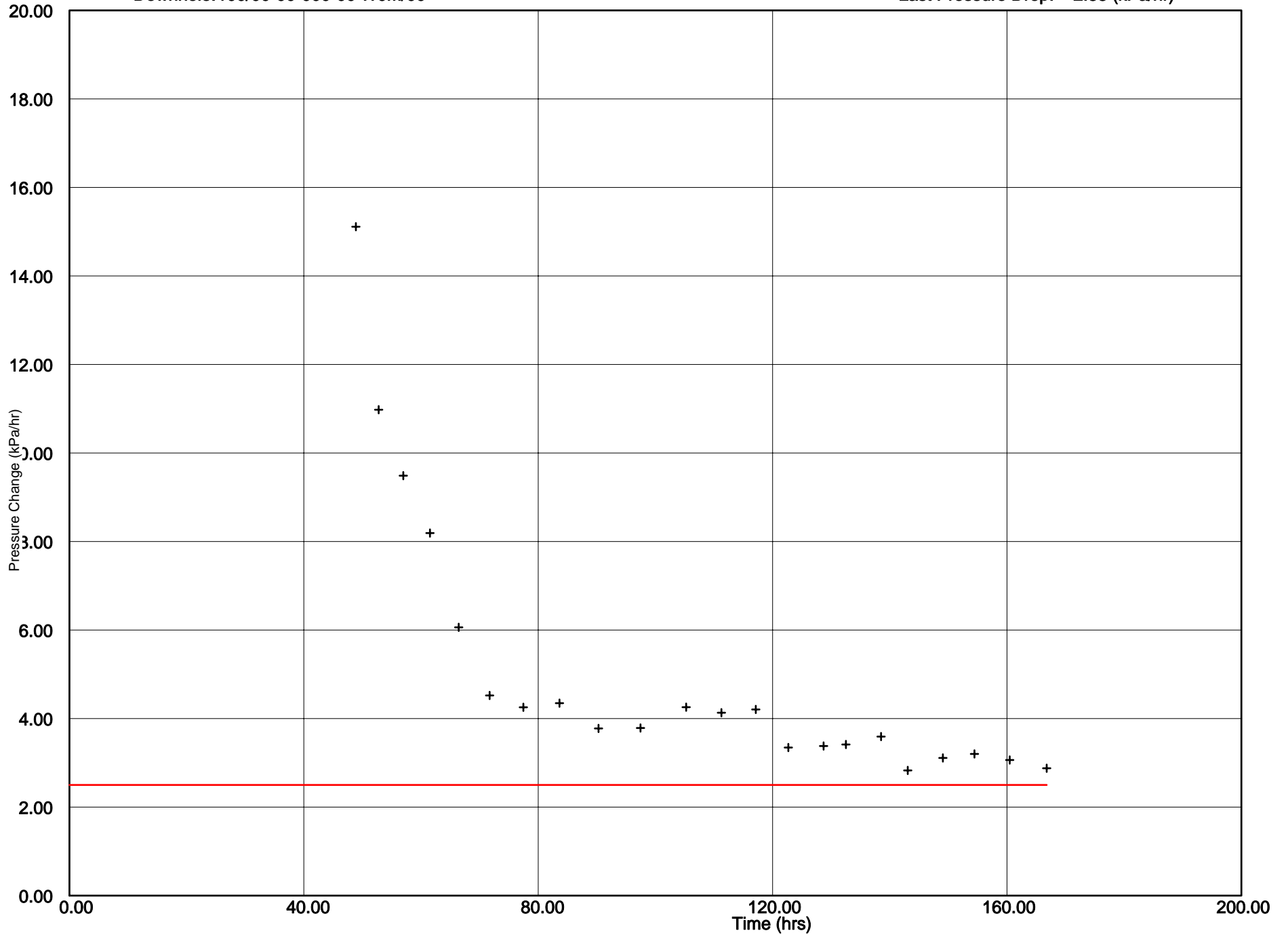
Start of Test: xxxx-10-30 13:32:56  
Last Shot: xxxx-11-06 12:20:22



# kPa/hr vs Time

Company: Golden Company  
Surface: 00-00-000-00 WOM  
Downhole: 100/00-00-000-00 WOM/00

Start of Test: xxxx-10-30 13:32:56  
Last Shot: xxxx-11-06 12:20:22  
Last Pressure Drop: 2.88 (kPa/hr)



# Acoustic Buildup

Golden Company Ltd.

Surface: 00-00-000-00 WOM

Downhole: 100/00-00-000-00 WOM/00



**Wellname:** Black Tea  
**Field name:** Black Gold

**Formation:** Red Deer  
**License #:** 123456

**Status:** Oil Well

**KB (m):** 851.66      **KB to CF (m):** 4.30  
**Tubing bottom (mKB):** 1615.10      **Surface Temp (C):** 2.20  
**Number of Joints:** 170      **Reservoir Temp (C):** 50.00

**Oil Rate (m3pd):** 0.50      **Gas Gravity:** 0.72  
**Water Rate (m3pd):** 0.00      **Oil Gravity (API):** 38.00  
**Gas Rate (M m3pd):** 0.10      **Water Gravity:** 1.05

**Perforations Measured Depths:**      **Top of Perfs (mKB):** 1579.00      **Bottom of Perfs (mKB):** 1588.00      **Mid-Point of Perfs (mKB):** 1583.50  
**True Vertical Depths:**      1504.56      1512.93      1508.75

Date	Time	Shut-in Time (hrs)	Joints to Fluid	Column Heights (mCF TVD)			Gradients (kPa/m)			Pressure (kPa(a))				
				Gas	Oil	Inflow	Gas	Oil	Inflow	Surface	Interface	Oil	Inflow	MPP
xxxx-10-30	13:32:56	0.0000	165.0	1490.1	14.6	0.0	0.037	7.880	7.880	416.80	55.39	115.22	0.00	587.40
xxxx-10-30	13:37:13	0.0714	164.0	1481.1	14.6	9.0	0.037	7.882	7.875	419.40	55.40	115.25	70.90	660.95
xxxx-10-30	13:40:23	0.1242	163.8	1479.7	14.6	10.4	0.038	7.883	7.875	421.14	55.59	115.25	81.80	673.78
xxxx-10-30	13:42:06	0.1528	163.7	1479.0	14.6	11.1	0.038	7.883	7.875	422.19	55.70	115.25	87.26	680.40
xxxx-10-30	13:43:14	0.1717	163.7	1478.4	14.6	11.8	0.038	7.883	7.874	423.00	55.78	115.25	92.71	686.75
xxxx-10-30	13:44:22	0.1906	163.4	1476.3	14.6	13.9	0.038	7.883	7.874	423.64	55.79	115.26	109.06	703.76
xxxx-10-30	13:45:30	0.2094	163.3	1474.9	14.6	15.2	0.038	7.884	7.874	424.37	55.84	115.27	119.97	715.44
xxxx-10-30	13:46:38	0.2283	163.2	1474.2	14.6	15.9	0.038	7.884	7.874	424.96	55.89	115.27	125.42	721.54
xxxx-10-30	13:47:47	0.2475	162.9	1472.1	14.6	18.0	0.038	7.884	7.874	425.57	55.90	115.27	141.77	738.51
xxxx-10-30	13:48:55	0.2664	162.8	1470.7	14.6	19.4	0.038	7.885	7.874	426.48	55.96	115.28	152.68	750.40
xxxx-10-30	13:50:22	0.2906	162.7	1470.0	14.6	20.1	0.038	7.885	7.874	427.44	56.07	115.28	158.12	756.91
xxxx-10-30	13:51:30	0.3094	162.6	1469.3	14.6	20.8	0.038	7.885	7.873	428.05	56.12	115.28	163.58	763.03
xxxx-10-30	13:53:10	0.3372	162.4	1467.3	14.6	22.9	0.038	7.885	7.873	429.04	56.17	115.29	179.93	780.43
xxxx-10-30	13:54:18	0.3561	162.2	1465.9	14.6	24.2	0.038	7.885	7.873	429.65	56.20	115.29	190.83	791.98
xxxx-10-30	13:55:26	0.3750	162.2	1465.2	14.6	24.9	0.038	7.886	7.873	430.34	56.27	115.29	196.28	798.19
xxxx-10-30	13:56:41	0.3958	161.9	1463.1	14.6	27.0	0.039	7.886	7.873	431.43	56.33	115.30	212.63	815.70
xxxx-10-30	13:58:03	0.4186	161.8	1462.4	14.6	27.7	0.039	7.886	7.873	432.17	56.41	115.30	218.08	821.96
xxxx-10-30	13:59:31	0.4431	161.6	1460.3	14.6	29.8	0.039	7.887	7.872	433.31	56.48	115.31	234.42	839.52
xxxx-10-30	14:01:07	0.4697	161.4	1458.3	14.6	31.9	0.039	7.887	7.872	433.72	56.45	115.32	250.76	856.25
xxxx-10-30	14:02:50	0.4983	161.3	1457.6	14.6	32.5	0.039	7.887	7.872	435.01	56.60	115.32	256.21	863.13
xxxx-10-30	14:04:40	0.5289	161.0	1454.8	14.6	35.3	0.039	7.888	7.872	436.08	56.63	115.33	278.00	886.04
xxxx-10-30	14:06:40	0.5622	160.6	1451.3	14.6	38.8	0.039	7.889	7.871	437.27	56.66	115.34	305.22	914.49
xxxx-10-30	14:08:50	0.5983	160.4	1450.0	14.6	40.2	0.039	7.889	7.871	438.49	56.76	115.34	316.12	926.71
xxxx-10-30	14:11:11	0.6375	160.2	1447.9	14.6	42.2	0.039	7.889	7.871	440.16	56.90	115.35	332.45	944.86
xxxx-10-30	14:13:42	0.6794	159.9	1445.1	14.6	45.0	0.039	7.890	7.870	441.68	56.99	115.36	354.23	968.26
xxxx-10-30	14:16:26	0.7250	159.6	1442.3	14.6	47.8	0.040	7.890	7.870	443.00	57.06	115.36	376.01	991.43
xxxx-10-30	14:19:23	0.7742	159.2	1438.9	14.6	51.2	0.040	7.891	7.870	445.01	57.19	115.37	403.23	1020.80
xxxx-10-30	14:22:33	0.8269	158.8	1435.4	14.6	54.7	0.040	7.892	7.869	446.79	57.28	115.38	430.44	1049.90
xxxx-10-30	14:25:58	0.8839	158.3	1431.3	14.6	58.9	0.040	7.893	7.869	448.47	57.34	115.40	463.09	1084.30
xxxx-10-30	14:29:40	0.9456	157.9	1427.8	14.6	62.3	0.040	7.893	7.868	450.76	57.50	115.41	490.30	1113.97
xxxx-10-30	14:33:40	1.0122	157.4	1423.7	14.6	66.5	0.040	7.894	7.868	453.04	57.63	115.42	522.94	1149.03
xxxx-10-30	14:37:58	1.0839	156.9	1418.8	14.6	71.3	0.041	7.895	7.867	455.36	57.73	115.44	561.02	1189.55
xxxx-10-30	14:42:38	1.1617	156.3	1414.0	14.6	76.2	0.041	7.896	7.866	457.92	57.87	115.45	599.10	1230.34
xxxx-10-30	14:47:41	1.2458	155.8	1409.1	14.6	81.0	0.041	7.897	7.866	460.99	58.06	115.47	637.17	1271.69
xxxx-10-30	14:53:07	1.3364	155.1	1403.6	14.6	86.5	0.041	7.898	7.865	464.07	58.23	115.48	680.66	1318.45
xxxx-10-30	14:58:58	1.4339	154.5	1398.0	14.6	92.1	0.042	7.900	7.864	467.35	58.42	115.50	724.15	1365.42
xxxx-10-30	15:05:18	1.5394	153.8	1391.8	14.6	98.3	0.042	7.901	7.863	470.79	58.60	115.52	773.05	1417.96
xxxx-10-30	15:12:09	1.6536	153.1	1385.6	14.6	104.5	0.042	7.902	7.862	474.74	58.84	115.54	821.95	1471.07
xxxx-10-30	15:19:34	1.7772	152.2	1378.0	14.6	112.2	0.043	7.904	7.861	479.02	59.06	115.56	881.70	1535.33
xxxx-10-30	15:27:30	1.9094	151.4	1371.0	14.6	119.1	0.043	7.905	7.860	483.33	59.30	115.58	935.99	1594.20
xxxx-10-30	15:36:06	2.0528	150.5	1362.7	14.6	127.4	0.044	7.907	7.859	488.10	59.54	115.60	1001.13	1664.38
xxxx-10-30	15:45:23	2.2075	149.5	1354.4	14.6	135.7	0.044	7.909	7.858	493.30	59.82	115.63	1066.25	1735.00
xxxx-10-30	15:55:29	2.3758	148.4	1344.7	14.6	145.4	0.045	7.911	7.856	499.17	60.12	115.66	1142.19	1817.14
xxxx-10-30	16:06:19	2.5564	147.4	1335.7	14.6	154.4	0.045	7.912	7.855	505.28	60.47	115.68	1212.67	1894.10
xxxx-10-30	16:17:59	2.7508	146.1	1324.7	14.6	165.5	0.046	7.915	7.853	511.91	60.77	115.72	1299.39	1987.79
xxxx-10-30	16:30:42	2.9628	144.8	1312.9	14.6	177.2	0.047	7.917	7.851	519.23	61.12	115.75	1391.48	2087.58

# Acoustic Buildup

Golden Company Ltd.

Surface: 00-00-000-00 WOM

Downhole: 100/00-00-000-00 WOM/00



Date	Time	Shut-in Time (hrs)	Joints to Fluid	Column Heights (mCF TVD)			Gradients (kPa/m)			Pressure (kPa(a))		Inflow	MPP	
				Gas	Oil	Inflow	Gas	Oil	Inflow	Surface	Interface			
xxxx-10-30	16:44:13	3.1881	143.5	1301.1	14.6	189.0	0.047	7.919	7.849	526.79	61.48	115.79	1483.51	2187.57
xxxx-10-30	16:58:54	3.4328	142.0	1288.7	14.6	201.5	0.048	7.922	7.847	535.37	61.91	115.82	1580.91	2294.01
xxxx-10-30	17:14:49	3.6981	140.4	1274.1	14.6	216.0	0.049	7.925	7.845	544.10	62.24	115.87	1694.47	2416.67
xxxx-10-30	17:32:03	3.9853	138.7	1258.9	14.6	231.2	0.050	7.928	7.842	554.14	62.66	115.91	1813.35	2546.06
xxxx-10-30	17:50:36	4.2944	136.8	1243.0	14.6	247.1	0.051	7.931	7.840	564.07	63.01	115.96	1937.56	2680.60
xxxx-10-30	18:10:35	4.6275	135.0	1227.1	14.6	263.0	0.052	7.934	7.837	574.59	63.40	116.01	2061.40	2815.39
xxxx-10-30	18:32:19	4.9897	133.0	1209.1	14.6	281.0	0.053	7.938	7.834	584.50	63.58	116.06	2201.26	2965.40
xxxx-10-30	18:55:40	5.3789	130.8	1190.5	14.6	299.6	0.054	7.942	7.831	595.49	63.81	116.12	2346.37	3121.79
xxxx-10-30	19:20:50	5.7983	128.6	1171.2	14.6	319.0	0.055	7.946	7.827	607.11	64.04	116.17	2496.70	3284.03
xxxx-10-30	19:48:08	6.2533	126.2	1149.7	14.6	340.4	0.056	7.950	7.824	619.49	64.20	116.24	2662.98	3462.91
xxxx-10-30	20:17:31	6.7431	123.5	1126.3	14.6	363.9	0.057	7.955	7.819	633.27	64.33	116.31	2845.14	3659.06
xxxx-10-30	20:49:25	7.2747	120.8	1102.8	14.6	387.3	0.059	7.960	7.815	648.33	64.54	116.38	3027.06	3856.31
xxxx-10-30	21:23:41	7.8458	118.1	1078.6	14.6	411.5	0.060	7.965	7.810	664.65	64.77	116.45	3214.06	4059.93
xxxx-10-30	22:00:38	8.4617	115.1	1052.4	14.6	437.7	0.062	7.970	7.805	682.18	64.92	116.53	3416.81	4280.44
xxxx-10-30	22:40:34	9.1272	111.9	1024.8	14.6	465.4	0.064	7.975	7.800	701.51	65.08	116.61	3629.90	4513.09
xxxx-10-30	23:23:40	9.8456	108.5	995.3	14.6	494.9	0.065	7.981	7.794	722.46	65.16	116.69	3857.07	4761.38
xxxx-10-31	00:10:14	10.6217	105.1	965.8	14.6	524.3	0.068	7.987	7.788	745.84	65.36	116.77	4083.53	5011.50
xxxx-10-31	01:00:28	11.4589	101.5	934.3	14.6	555.9	0.070	7.993	7.781	771.70	65.50	116.86	4325.32	5279.38
xxxx-10-31	01:54:33	12.3603	97.6	900.0	14.6	590.1	0.073	7.999	7.774	801.07	65.60	116.95	4587.56	5571.18
xxxx-10-31	02:53:29	13.3425	93.5	864.4	14.6	625.7	0.076	8.005	7.766	834.53	65.74	117.05	4859.23	5876.55
xxxx-10-31	03:56:48	14.3978	89.0	825.4	14.6	664.7	0.080	8.012	7.757	873.44	65.83	117.15	5156.04	6212.46
xxxx-10-31	05:05:03	15.5353	84.2	784.4	14.6	705.7	0.084	8.019	7.747	918.18	65.90	117.25	5467.47	6568.80
xxxx-10-31	06:19:32	16.7767	79.3	740.8	14.6	749.4	0.089	8.026	7.736	970.20	65.93	117.35	5797.33	6950.81
xxxx-10-31	07:38:59	18.1008	74.4	697.0	14.6	793.1	0.095	8.033	7.725	1028.84	65.97	117.45	6126.74	7338.99
xxxx-10-31	09:04:59	19.5342	69.2	651.1	14.6	839.0	0.101	8.039	7.712	1096.33	65.88	117.54	6470.54	7750.29
xxxx-10-31	10:37:50	21.0817	64.2	605.3	14.6	884.9	0.109	8.045	7.699	1173.16	65.76	117.62	6812.66	8169.20
xxxx-10-31	12:18:44	22.7633	59.3	559.6	14.6	930.5	0.117	8.049	7.685	1258.10	65.46	117.69	7151.10	8592.35
xxxx-10-31	14:07:24	24.5744	54.7	516.9	14.6	973.2	0.126	8.053	7.671	1352.56	65.29	117.74	7465.43	9001.01
xxxx-10-31	16:04:25	26.5247	50.5	477.2	14.6	1013.0	0.137	8.054	7.657	1456.31	65.19	117.76	7756.00	9395.27
xxxx-10-31	18:10:39	28.6286	46.7	441.8	14.6	1048.3	0.147	8.054	7.643	1562.19	65.06	117.76	8012.07	9757.08
xxxx-10-31	20:27:02	30.9017	43.6	413.1	14.6	1077.0	0.158	8.053	7.630	1664.70	65.12	117.74	8218.35	10065.91
xxxx-10-31	22:54:10	33.3539	41.2	389.9	14.6	1100.2	0.167	8.051	7.620	1757.06	65.15	117.72	8383.22	10323.15
xxxx-11-01	01:33:09	36.0036	39.4	373.5	14.6	1116.6	0.175	8.049	7.611	1832.64	65.31	117.68	8499.11	10514.74
xxxx-11-01	04:24:39	38.8619	38.2	362.3	14.6	1127.8	0.180	8.047	7.605	1887.02	65.39	117.66	8577.74	10647.81
xxxx-11-01	07:31:09	41.9703	37.3	353.3	14.6	1136.8	0.185	8.046	7.601	1927.22	65.25	117.64	8640.81	10750.92
xxxx-11-01	10:51:17	45.3058	36.8	348.8	14.6	1141.3	0.189	8.044	7.597	1970.36	65.99	117.61	8670.39	10824.34
xxxx-11-01	14:26:47	48.8975	36.4	344.4	14.6	1145.8	0.192	8.043	7.595	1993.45	65.97	117.59	8701.61	10878.63
xxxx-11-01	18:20:02	52.7850	36.1	341.6	14.6	1148.5	0.194	8.041	7.592	2017.43	66.30	117.57	8720.01	10921.31
xxxx-11-01	22:31:47	56.9808	35.8	339.5	14.6	1150.6	0.197	8.040	7.590	2043.32	66.81	117.55	8733.44	10961.12
xxxx-11-02	03:05:32	61.5433	35.6	337.2	14.6	1152.9	0.199	8.039	7.588	2065.23	67.13	117.53	8748.60	10998.49
xxxx-11-02	07:59:02	66.4350	35.5	336.2	14.6	1154.0	0.202	8.037	7.586	2088.72	67.76	117.51	8754.17	11028.15
xxxx-11-02	13:16:17	71.7225	35.4	335.3	14.6	1154.8	0.204	8.035	7.585	2107.75	68.27	117.49	8758.58	11052.08
xxxx-11-02	19:01:38	77.4783	35.3	334.7	14.6	1155.5	0.206	8.034	7.583	2128.47	68.86	117.46	8761.79	11076.58
xxxx-11-03	01:11:24	83.6411	35.2	333.9	14.6	1156.3	0.208	8.032	7.581	2150.61	69.48	117.44	8765.85	11103.38
xxxx-11-03	07:50:38	90.2950	35.1	332.5	14.6	1157.6	0.210	8.031	7.580	2167.00	69.78	117.42	8774.32	11128.52
xxxx-11-03	15:00:23	97.4575	35.0	331.1	14.6	1159.0	0.212	8.030	7.578	2184.64	70.09	117.41	8783.52	11155.65
xxxx-11-03	22:48:53	105.2658	34.8	329.3	14.6	1160.8	0.214	8.029	7.576	2204.72	70.43	117.39	8794.60	11187.13
xxxx-11-04	04:49:36	111.2778	34.6	327.9	14.6	1162.2	0.215	8.028	7.575	2220.19	70.66	117.37	8803.83	11212.05
xxxx-11-04	10:41:33	117.1436	34.5	326.5	14.6	1163.7	0.217	8.027	7.574	2234.29	70.84	117.36	8813.38	11235.87
xxxx-11-04	16:14:23	122.6908	34.3	325.0	14.6	1165.1	0.218	8.026	7.573	2245.92	70.94	117.35	8822.80	11257.00
xxxx-11-04	22:15:06	128.7028	34.2	323.5	14.6	1166.6	0.219	8.026	7.572	2255.56	70.93	117.34	8833.49	11277.33
xxxx-11-05	02:03:53	132.5158	34.0	322.5	14.6	1167.6	0.220	8.026	7.571	2261.79	70.93	117.34	8840.29	11290.35
xxxx-11-05	08:04:36	138.5278	33.9	320.7	14.6	1169.5	0.221	8.025	7.570	2270.61	70.83	117.34	8852.94	11311.72
xxxx-11-05	12:36:53	143.0658	33.8	319.7	14.6	1170.4	0.222	8.025	7.570	2277.27	70.85	117.33	8859.35	11324.80
xxxx-11-05	18:37:34	149.0772	33.6	318.3	14.6	1171.8	0.223	8.024	7.569	2286.51	70.86	117.32	8868.82	11343.51
xxxx-11-06	00:00:22	154.4572	33.5	317.0	14.6	1173.1	0.223	8.024	7.568	2294.77	70.85	117.32	8877.81	11360.74
xxxx-11-06	06:01:04	160.4689	33.3	315.5	14.6	1174.6	0.224	8.024	7.567	2302.79	70.78	117.31	8888.28	11379.16
xxxx-11-06	12:20:22	166.7906	33.2	314.1	14.6	1176.1	0.225	8.023	7.566	2311.22	70.75	117.31	8898.09	11397.36
xxxx-11-06	18:21:04	172.8022	33.0	312.6	14.6	1177.6	0.226	8.023	7.565	2319.09	70.67	117.30	8908.50	11415.56
xxxx-11-07	01:29:22	179.9406	32.8	310.7	14.6	1179.5	0.227	8.023	7.564	2328.15	70.55	117.30	8921.66	11437.66



# Casing Pressure vs Time

Company: Golden Company Ltd.  
Surface: 00-00-000-00 WOM  
Downhole: 100/00-00-000-00 WOM/00

Start of Test: xxxx-10-30 13:32:56  
Last Shot: xxxx-11-08 19:15:44

