



SURE-SHOT™ ACOUSTIC PRESSURE BUILDUP SURVEY (BU)

Pressure buildup is a reflection of permeability of the reservoir rock around a well and is a function of shut-in time. The lower the permeability, the longer the time required for the pressure in a well to equalize at the prevailing reservoir pressure. The shut-in time is critical in obtaining an accurate pressure.

Buildup can be conducted utilizing either surface acoustic systems or downhole pressure recorders. The benefits of acoustic systems are as follows.

- no service rigs/wireline required on pumping wells
- better flow data acquisitions
- shorter shut-in times (well back on production sooner)
- reliable data collection (surface acoustic systems can be monitored frequently. Downhole recorder monitoring is expensive and the recorder failures usually result in total loss of test data)
- better data accuracy (ensured through data comparison of tandem surface recorders and hand-held deadweights. Permanent downhole recorders are not easily calibrated)
- knowledge of liquid level depth at all times
- one system can be effectively used to test multiple wells

Survey results can be used to evaluate efficiency of well completions, local and average reservoir pressures, original hydrocarbon in place, requirements for well treatments, success of stimulation treatments, connectivity to other wells, and exploitation modes.

Through extensive research and comprehensive field testing, Nelgar Oilfield Services Ltd. has developed technologically advanced **Sure-Shot™ Acoustic Fluid Level Systems** and **N-Gauge™ Electronic Deadweights**. They are used in all pressure survey applications and tests.

The following pages are the results of acoustic pressure buildup on three different wells. All wells are back on production sooner due to shorter shut-in time required by utilizing **Sure-Shot™ Acoustic Fluid Level Systems**.

	Sure-Shot™ Acoustic Fluid Level Systems			Downhole Pressure Recorders (if utilized)
	Well #1	Well #2	Well #3	
Shut-in time required	120 hrs 5 days	72 hrs 3 days	139 hrs 5.8 days	336 hrs 14 days* (minimum)
kPa/hr	< 2.5*	< 2.5*	< 2.5*	N/A
Savings	\$1,981**	\$18,410**	\$3,045**	\$0

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

** an average price of \$70/barrel crude oil and \$7/1000 cubic feet natural gas are used.

Acoustic Buildup

Golden Company Ltd.

Surface: 00-00-000-00 WOM

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



BU on oil well

Wellname: Black Tea
Field name: Black Gold

Formation: Red Deer
License #: 123456

Status: Oil Well

KB (m): 829.16 KB to CF (m): 4.95
Tubing bottom (mKB): 1605.28 Surface Temp (C): 2.20
Number of Joints: 168 Reservoir Temp (C): 56.00

Oil Rate (m3pd): 0.50 Gas Gravity: 0.70
Water Rate (m3pd): 0.00 Oil Gravity (API): 37.00
Gas Rate (M m3pd): 0.00 Water Gravity: 1.00

Perforations Measured Depths: True Vertical Depths: Top of Perfs (mKB): 1585.00 1472.00 Bottom of Perfs (mKB): 1591.00 1478.00 Mid-Point of Perfs (mKB): 1588.00 1475.00

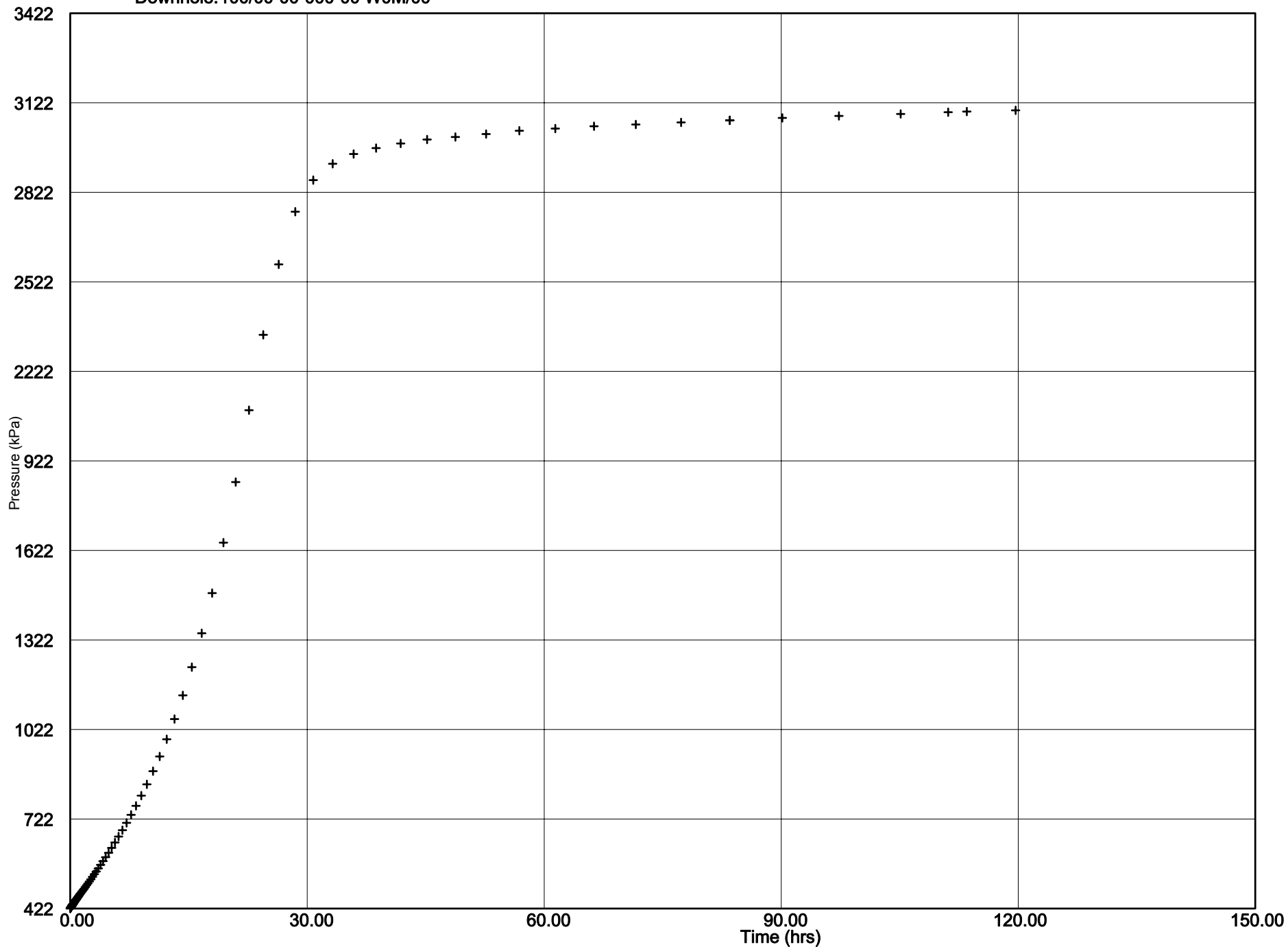
Date	Time	Shut-in Time (hrs)	Joints to Fluid	Column Heights (mCF TVD)			Gradients (kPa/m)			Pressure (kPa(a))				
				Gas	Oil	Inflow	Gas	Oil	Inflow	Surface	Interface	Oil	Inflow	MPP
xxxx-10-30	11:41:45	0.0000	165.4	1463.1	7.0	0.0	0.044	7.877	7.877	514.96	64.97	55.51	0.00	635.44
xxxx-10-30	11:42:53	0.0189	165.3	1462.0	7.0	1.2	0.044	7.877	7.875	515.75	65.02	55.51	9.11	645.39
xxxx-10-30	11:44:01	0.0378	165.1	1460.8	7.0	2.3	0.045	7.878	7.875	516.66	65.09	55.51	18.29	655.54
xxxx-10-30	11:45:09	0.0567	165.0	1459.6	7.0	3.5	0.045	7.878	7.875	517.22	65.11	55.51	27.39	665.23
xxxx-10-30	11:46:17	0.0756	164.9	1458.5	7.0	4.6	0.045	7.878	7.874	518.06	65.16	55.51	36.50	675.24
xxxx-10-30	11:47:24	0.0942	164.8	1457.3	7.0	5.8	0.045	7.878	7.874	519.17	65.26	55.52	45.53	685.48
xxxx-10-30	11:48:32	0.1131	164.6	1456.2	7.0	6.9	0.045	7.879	7.874	519.91	65.30	55.52	54.64	695.37
xxxx-10-30	11:49:49	0.1344	164.4	1455.9	7.0	9.3	0.045	7.879	7.874	520.71	65.30	55.52	72.84	714.37
xxxx-10-30	11:50:56	0.1531	164.1	1451.6	7.0	11.6	0.045	7.880	7.874	521.60	65.31	55.53	91.05	733.49
xxxx-10-30	11:52:13	0.1744	163.9	1450.0	7.0	13.1	0.045	7.880	7.874	522.70	65.39	55.53	103.19	746.80
xxxx-10-30	11:53:21	0.1933	163.9	1450.0	7.0	13.1	0.045	7.880	7.874	523.35	65.47	55.53	103.19	747.54
xxxx-10-30	11:54:28	0.2119	163.7	1447.7	7.0	15.4	0.045	7.881	7.874	523.90	65.44	55.53	121.39	766.26
xxxx-10-30	11:55:35	0.2306	163.6	1446.9	7.0	16.2	0.045	7.881	7.873	524.72	65.51	55.53	127.46	773.22
xxxx-10-30	11:56:43	0.2494	163.3	1444.6	7.0	18.5	0.045	7.881	7.873	525.90	65.55	55.54	145.66	792.65
xxxx-10-30	11:57:51	0.2683	163.3	1443.8	7.0	19.3	0.045	7.882	7.873	526.53	65.60	55.54	151.73	799.40
xxxx-10-30	11:59:02	0.2881	163.1	1442.3	7.0	20.8	0.045	7.882	7.873	527.25	65.62	55.54	163.87	812.28
xxxx-10-30	12:00:30	0.3125	162.9	1440.8	7.0	22.4	0.046	7.882	7.873	528.11	65.66	55.54	176.01	825.32
xxxx-10-30	12:02:05	0.3389	162.6	1438.4	7.0	24.7	0.046	7.883	7.873	529.27	65.71	55.55	194.21	844.73
xxxx-10-30	12:03:48	0.3675	162.5	1436.9	7.0	26.2	0.046	7.883	7.873	530.28	65.77	55.55	206.34	857.94
xxxx-10-30	12:05:39	0.3983	162.2	1434.6	7.0	28.5	0.046	7.884	7.872	531.48	65.81	55.55	224.55	877.39
xxxx-10-30	12:07:39	0.4317	162.0	1432.3	7.0	30.8	0.046	7.884	7.872	532.66	65.86	55.56	242.74	896.82
xxxx-10-30	12:09:49	0.4678	161.5	1428.4	7.0	34.7	0.046	7.885	7.872	534.46	65.91	55.56	273.07	929.01
xxxx-10-30	12:12:10	0.5069	161.3	1426.1	7.0	37.0	0.046	7.886	7.872	535.93	65.99	55.57	291.27	948.76
xxxx-10-30	12:14:41	0.5489	161.0	1423.8	7.0	39.3	0.046	7.886	7.871	537.54	66.09	55.57	309.47	968.67
xxxx-10-30	12:17:25	0.5944	160.6	1420.0	7.0	43.2	0.047	7.887	7.871	539.22	66.12	55.58	339.77	1000.69
xxxx-10-30	12:20:21	0.6433	160.2	1416.9	7.0	46.2	0.047	7.888	7.871	541.12	66.22	55.58	364.01	1026.93
xxxx-10-30	12:23:31	0.6961	159.8	1413.0	7.0	50.1	0.047	7.889	7.870	543.02	66.28	55.59	394.30	1059.19
xxxx-10-30	12:26:57	0.7533	159.2	1407.6	7.0	55.5	0.047	7.890	7.870	544.83	66.26	55.60	436.71	1103.40
xxxx-10-30	12:30:39	0.8150	158.8	1403.8	7.0	59.3	0.047	7.891	7.869	547.09	66.36	55.61	467.01	1136.06
xxxx-10-30	12:34:39	0.8817	158.1	1397.6	7.0	65.5	0.048	7.893	7.869	549.62	66.39	55.62	515.47	1187.09
xxxx-10-30	12:38:57	0.9533	157.6	1393.0	7.0	70.1	0.048	7.894	7.868	552.24	66.49	55.62	551.80	1226.16
xxxx-10-30	12:43:37	1.0311	156.9	1386.8	7.0	76.3	0.048	7.895	7.868	555.12	66.56	55.63	600.24	1277.55
xxxx-10-30	12:48:39	1.1150	156.3	1381.4	7.0	81.7	0.048	7.897	7.867	558.14	66.67	55.64	642.62	1323.08
xxxx-10-30	12:54:05	1.2056	155.7	1376.0	7.0	87.1	0.049	7.898	7.867	561.66	66.85	55.65	684.99	1369.15
xxxx-10-30	12:59:57	1.3033	154.7	1367.6	7.0	95.5	0.049	7.900	7.866	564.99	66.84	55.67	751.58	1439.08
xxxx-10-30	13:06:17	1.4089	154.1	1362.2	7.0	100.9	0.049	7.901	7.865	568.72	67.03	55.68	793.93	1485.36
xxxx-10-30	13:13:07	1.5228	153.0	1352.2	7.0	111.0	0.050	7.904	7.864	572.76	67.04	55.69	872.58	1568.07
xxxx-10-30	13:20:33	1.6467	152.2	1344.5	7.0	118.6	0.050	7.905	7.863	577.37	67.21	55.71	932.96	1633.24
xxxx-10-30	13:28:28	1.7786	151.1	1335.4	7.0	127.7	0.050	7.908	7.862	581.84	67.29	55.72	1004.00	1708.86
xxxx-10-30	13:37:04	1.9219	150.1	1326.4	7.0	136.7	0.051	7.910	7.861	587.03	67.46	55.74	1075.01	1785.23
xxxx-10-30	13:46:21	2.0767	149.1	1317.3	7.0	145.8	0.051	7.912	7.860	592.98	67.70	55.75	1145.99	1862.42
xxxx-10-30	13:56:28	2.2453	147.6	1304.5	7.0	158.6	0.052	7.915	7.859	598.97	67.75	55.77	1246.53	1969.02
xxxx-10-30	14:07:17	2.4256	146.3	1293.2	7.0	169.9	0.053	7.918	7.857	605.65	67.94	55.79	1335.19	2064.57
xxxx-10-30	14:18:58	2.6203	144.8	1279.6	7.0	183.5	0.053	7.921	7.856	612.98	68.07	55.81	1441.56	2178.42
xxxx-10-30	14:31:40	2.8319	143.2	1266.0	7.0	197.1	0.054	7.924	7.854	621.21	68.29	55.84	1547.85	2293.18
xxxx-10-30	14:45:11	3.0572	141.8	1253.2	7.0	209.9	0.055	7.927	7.852	630.04	68.59	55.86	1648.18	2402.67

Casing Pressure vs Time

BU on oil well

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

Start of Test: xxxx-10-30 11:41:45
Last Shot: xxxx-11-04 11:22:14

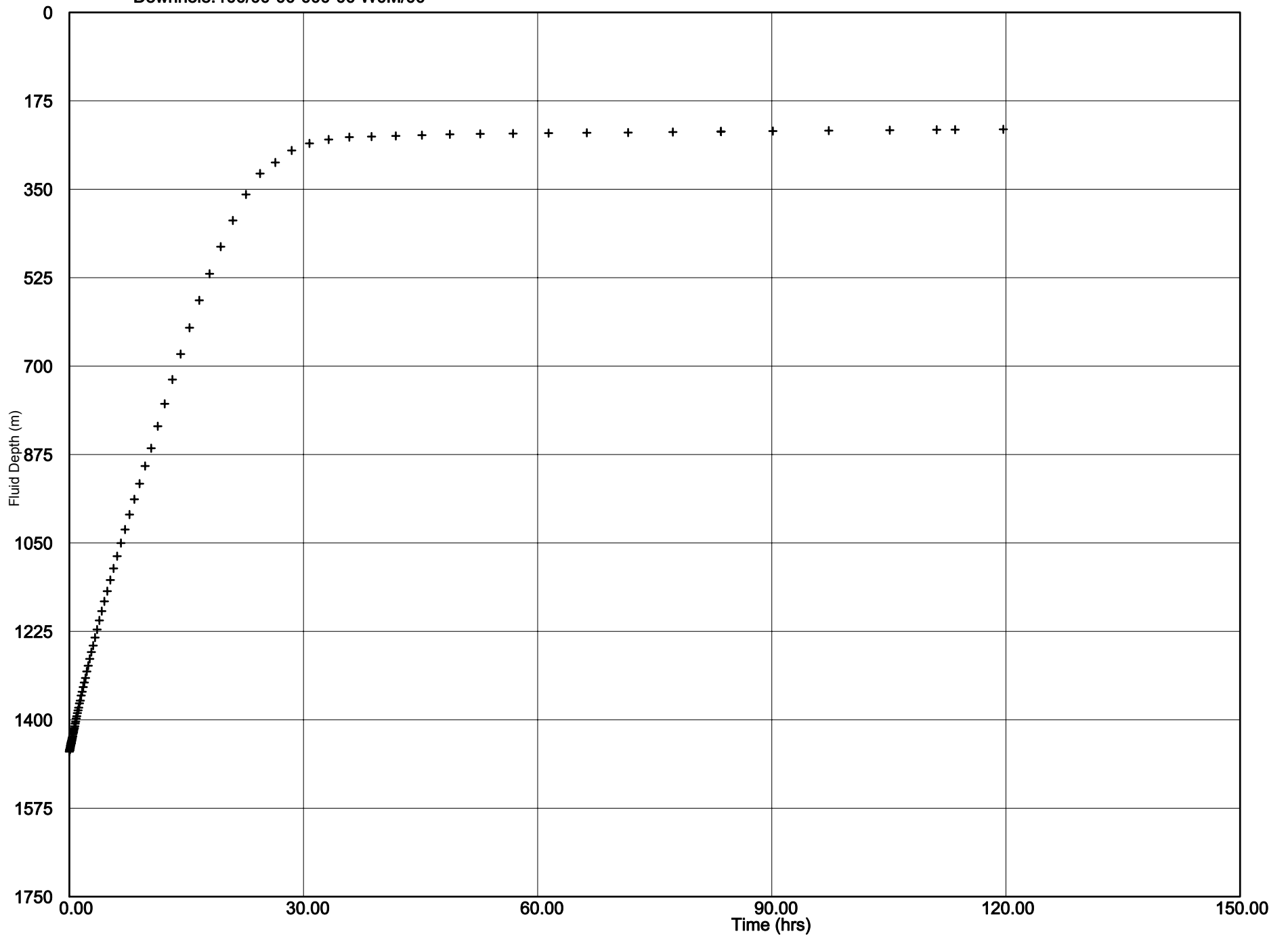


Fluid Level vs Time

BU on oil well

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

Start of Test: xxxx-10-30 11:41:45
Last Shot: xxxx-11-04 11:22:14

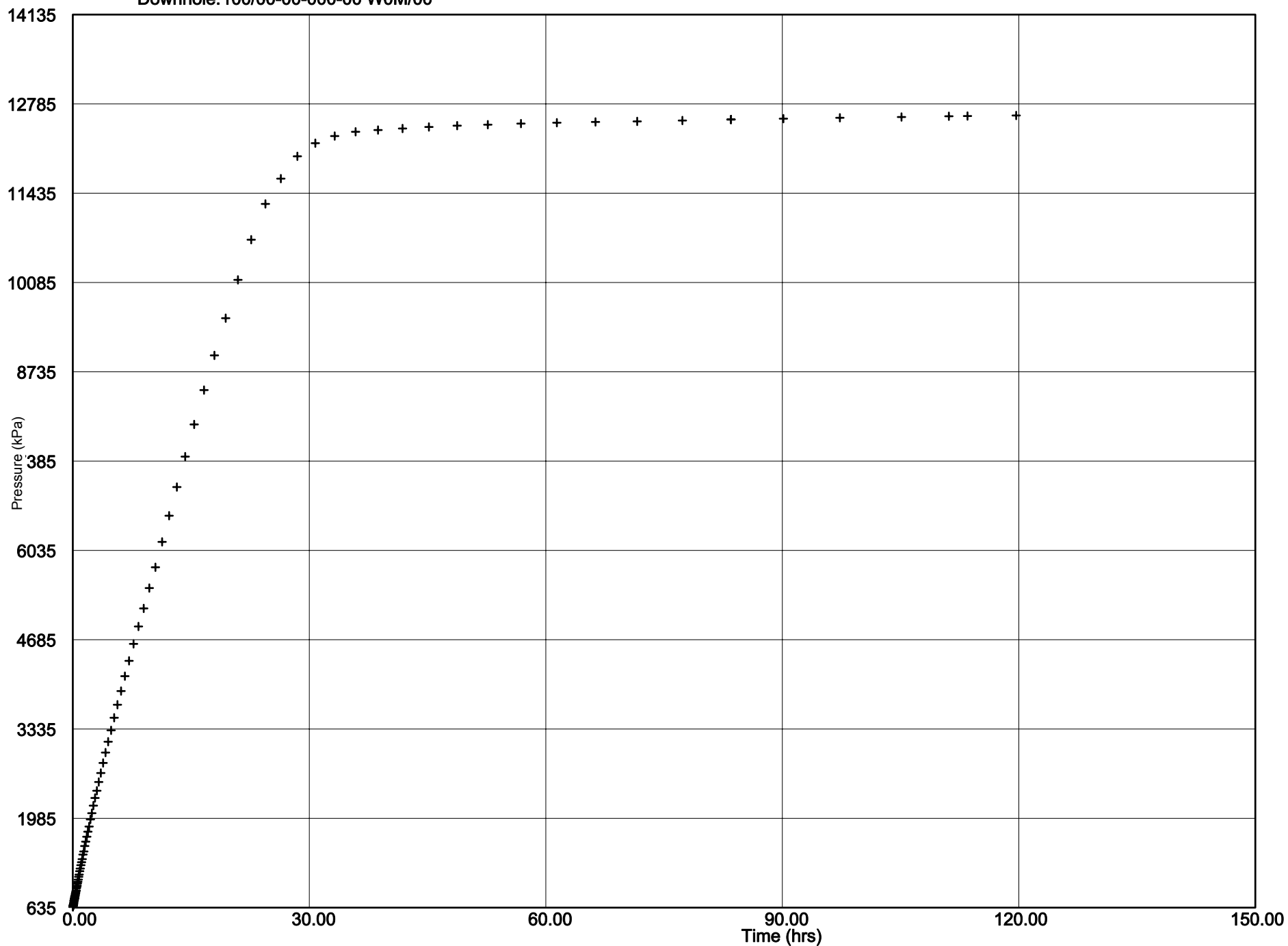


Bottom Hole Pressure vs Time

BU on oil well

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

Start of Test: xxxx-10-30 11:41:45
Last Shot: xxxx-11-04 11:22:14

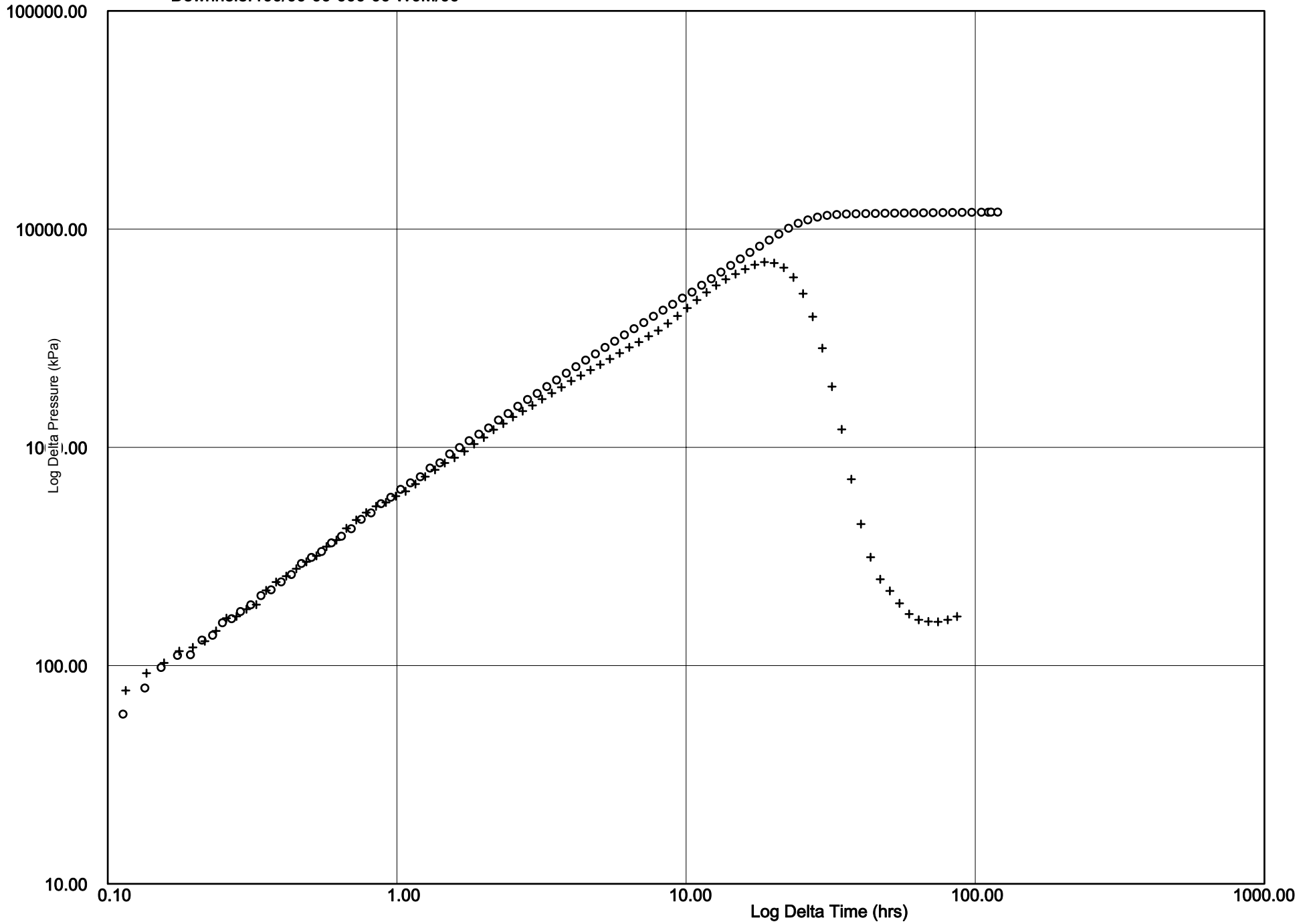


Type Curve Plot

BU on oil well

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

Start of Test: xxxx-10-30 11:41:45
Last Shot: xxxx-11-04 11:22:14

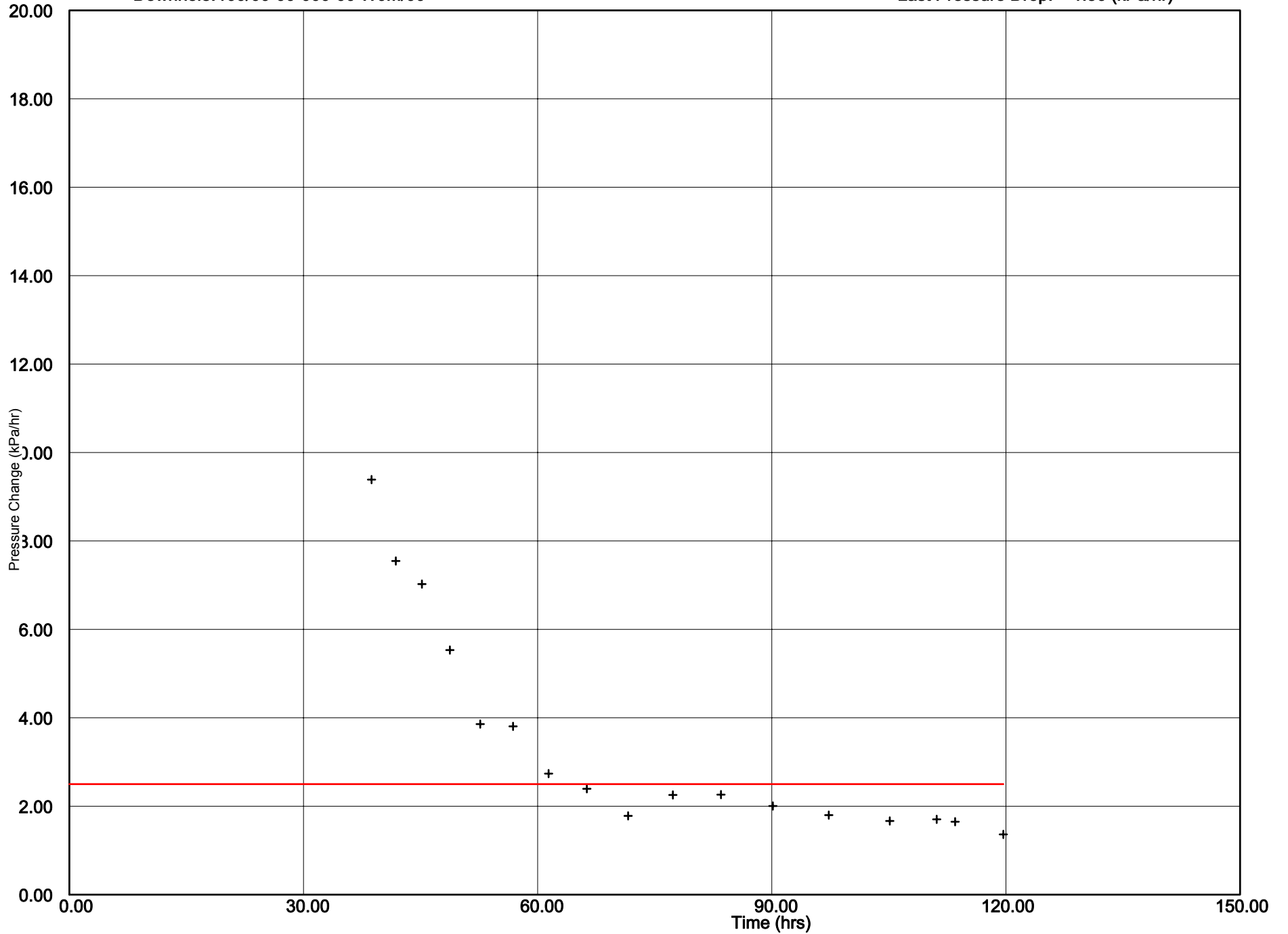


kPa/hr vs Time

BU on oil well

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

Start of Test: xxxx-10-30 11:41:45
Last Shot: xxxx-11-04 11:22:14
Last Pressure Drop: 1.36 (kPa/hr)



Acoustic Buildup

Golden Company Ltd.

Surface: 00-00-000-00 WOM

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



Flow & BU
on oil well

Wellname: Black Tea
Field name: Black Gold

Formation: Red Deer
License #: 123456

Status: Producing oil

KB (m): 676.10 KB to CF (m): 4.40
Tubing bottom (mKB): 614.10 Surface Temp (C): 2.20
Number of Joints: 65 Reservoir Temp (C): 27.00

Oil Rate (m3pd): 3.80 Gas Gravity: 0.58
Water Rate (m3pd): 11.60 Oil Gravity (API): 35.75
Gas Rate (M m3pd): 0.50 Water Gravity: 1.03

Perforations
Measured Depths:
True Vertical Depths:

Top of Perfs (mKB):
860.00
755.11

Bottom of Perfs (mKB):
1465.00
759.37

Mid-Point of Perfs (mKB):
1162.50
758.67

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-10-21	15:23:27		37.0	347.1	262.2	149.5					163.68				
xxxx-10-21	16:23:54		37.1	347.7	261.6	149.5					165.72				
xxxx-10-21	17:24:20		36.9	346.2	263.0	149.5					164.15				
xxxx-10-21	18:24:47		36.8	345.4	263.8	149.5					163.13				
xxxx-10-21	19:25:13		36.8	345.0	264.2	149.5					162.63				
xxxx-10-21	20:25:40		36.9	346.0	263.2	149.5					164.05				
xxxx-10-21	21:26:06		37.4	351.1	258.1	149.5					163.58				
xxxx-10-21	22:26:33		37.5	352.2	257.1	149.5					162.64				
xxxx-10-21	23:26:59		37.4	351.1	258.1	149.5					163.33				
xxxx-10-22	00:27:25		37.2	349.1	260.1	149.5					163.97				
xxxx-10-22	01:27:52		37.2	349.1	260.1	149.5					164.38				
xxxx-10-22	02:28:18		37.2	349.1	260.1	149.5					163.98				
xxxx-10-22	03:28:44		37.3	350.1	259.1	149.5					164.64				
xxxx-10-22	04:29:11		37.2	349.1	260.1	149.5					164.21				
xxxx-10-22	05:29:37		37.5	352.2	257.1	149.5					164.72				
xxxx-10-22	06:30:03		37.2	349.1	260.1	149.5					163.57				
xxxx-10-22	07:30:28		37.2	348.6	260.6	149.5					163.77				
xxxx-10-22	08:30:54		37.1	348.1	261.1	149.5					164.22				
xxxx-10-22	09:08:51		37.2	349.1	260.1	149.5					163.89				
xxxx-10-22	10:37:40	0.0000	37.0	347.1	262.2	149.5	0.012	8.177	9.589	164.71	4.13	2143.67	1433.42	3745.93	
xxxx-10-22	10:38:48	0.0189	36.8	345.6	262.2	151.0	0.012	8.177	9.589	165.25	4.13	2143.74	1447.62	3760.74	
xxxx-10-22	10:39:56	0.0378	36.7	344.5	262.2	152.1	0.012	8.177	9.589	165.73	4.13	2143.79	1458.04	3771.69	
xxxx-10-22	10:41:04	0.0567	36.6	343.4	262.2	153.1	0.012	8.177	9.589	166.22	4.13	2143.84	1468.38	3782.56	
xxxx-10-22	10:42:12	0.0756	36.5	342.4	262.2	154.2	0.012	8.178	9.589	166.72	4.13	2143.89	1478.44	3793.17	
xxxx-10-22	10:43:20	0.0944	36.4	341.3	262.2	155.2	0.012	8.178	9.589	167.61	4.14	2143.93	1488.32	3804.00	
xxxx-10-22	10:44:28	0.1133	36.3	340.3	262.2	156.2	0.012	8.178	9.589	168.47	4.14	2143.97	1498.11	3814.70	
xxxx-10-22	10:45:36	0.1322	36.2	339.3	262.2	157.3	0.012	8.178	9.589	169.24	4.15	2144.01	1507.82	3825.22	
xxxx-10-22	10:46:44	0.1511	36.1	338.3	262.2	158.2	0.012	8.178	9.589	170.21	4.16	2144.05	1517.25	3835.67	
xxxx-10-22	10:48:00	0.1722	36.0	337.2	262.2	159.3	0.012	8.178	9.588	171.63	4.18	2144.08	1527.67	3847.57	
xxxx-10-22	10:49:08	0.1911	35.8	336.3	262.2	160.3	0.012	8.178	9.588	172.56	4.19	2144.12	1536.83	3857.71	
xxxx-10-22	10:50:16	0.2100	35.7	335.3	262.2	161.2	0.013	8.179	9.588	173.84	4.21	2144.15	1545.82	3868.02	
xxxx-10-22	10:51:24	0.2289	35.7	334.4	262.2	162.1	0.013	8.179	9.588	175.31	4.24	2144.17	1554.62	3878.34	
xxxx-10-22	10:52:32	0.2478	35.6	333.5	262.2	163.0	0.013	8.179	9.588	176.33	4.25	2144.21	1563.33	3888.12	
xxxx-10-22	10:53:40	0.2667	35.5	332.6	262.2	163.9	0.013	8.179	9.588	177.35	4.26	2144.24	1571.96	3897.81	
xxxx-10-22	10:54:48	0.2856	35.4	331.7	262.2	164.8	0.013	8.179	9.588	178.84	4.29	2144.26	1580.31	3907.70	
xxxx-10-22	10:56:17	0.3103	35.2	330.6	262.2	166.0	0.013	8.179	9.588	179.60	4.29	2144.31	1591.18	3919.38	
xxxx-10-22	10:57:53	0.3369	35.1	329.4	262.2	167.1	0.013	8.179	9.588	181.11	4.31	2144.35	1602.49	3932.27	
xxxx-10-22	10:59:36	0.3656	35.0	328.2	262.2	168.4	0.013	8.179	9.588	182.42	4.33	2144.39	1614.44	3945.58	
xxxx-10-22	11:01:26	0.3961	34.8	326.9	262.2	169.7	0.013	8.180	9.588	183.84	4.35	2144.44	1626.84	3959.46	
xxxx-10-22	11:03:27	0.4297	34.7	325.5	262.2	171.1	0.013	8.180	9.588	185.04	4.36	2144.50	1640.13	3974.02	
xxxx-10-22	11:05:37	0.4658	34.5	324.0	262.2	172.5	0.013	8.180	9.588	186.41	4.37	2144.55	1653.96	3989.29	
xxxx-10-22	11:07:58	0.5050	34.4	322.5	262.2	174.0	0.014	8.180	9.587	187.70	4.38	2144.61	1668.51	4005.20	
xxxx-10-22	11:10:29	0.5469	34.2	320.9	262.2	175.6	0.014	8.181	9.587	189.56	4.40	2144.66	1683.51	4022.14	
xxxx-10-22	11:13:13	0.5925	34.0	319.3	262.2	177.2	0.014	8.181	9.587	190.85	4.41	2144.73	1699.14	4039.13	
xxxx-10-22	11:16:08	0.6411	33.9	317.6	262.2	178.9	0.014	8.181	9.587	192.02	4.41	2144.80	1715.22	4056.45	
xxxx-10-22	11:19:18	0.6939	33.7	315.9	262.2	180.7	0.014	8.181	9.587	193.71	4.43	2144.87	1731.92	4074.92	

Acoustic Buildup

Golden Company Ltd.

Surface: 00-00-000-00 WOM

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



Flow & BU
on oil well

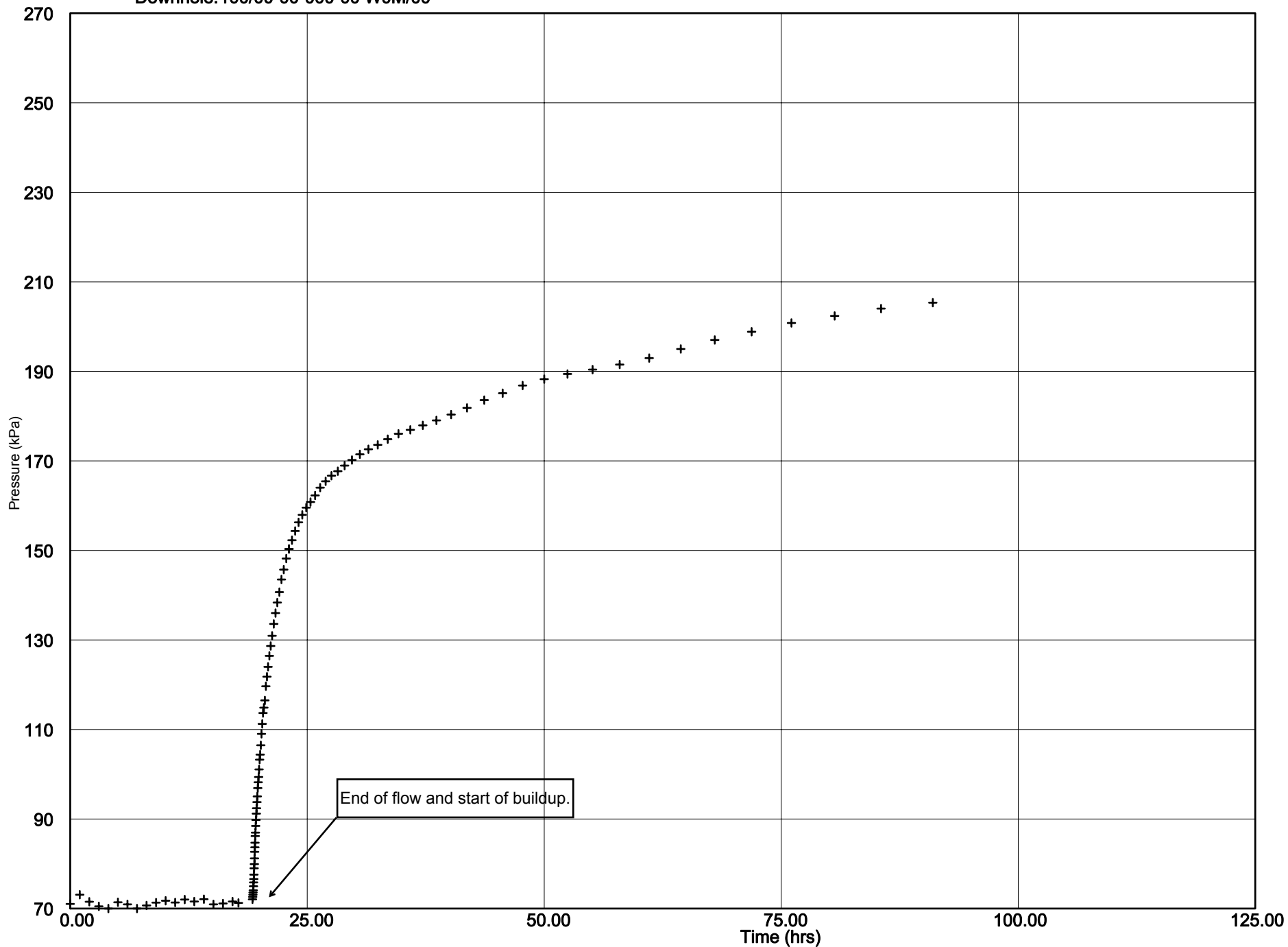
Date	Time	Shut-in Time (hrs)	Joints to Fluid	Column Heights (mCF TVD)			Gradients (kPa/m)			Pressure (kPa(a))		MPP		
				Gas	Oil	Inflow	Gas	Oil	Inflow	Surface	Interface			
xxxx-10-22	11:22:44	0.7511	33.5	314.1	262.2	182.5	0.014	8.182	9.587	195.89	4.45	2144.93	1749.25	4094.52
xxxx-10-22	11:26:20	0.8111	33.3	312.3	262.2	184.3	0.014	8.182	9.587	197.03	4.45	2145.01	1766.50	4112.98
xxxx-10-22	11:30:20	0.8778	33.1	310.4	262.2	186.2	0.014	8.182	9.587	199.11	4.47	2145.07	1784.82	4133.47
xxxx-10-22	11:34:32	0.9478	32.9	308.5	262.2	188.1	0.015	8.182	9.586	201.67	4.50	2145.13	1803.04	4154.35
xxxx-10-22	11:39:12	1.0256	32.7	306.4	262.2	190.1	0.015	8.183	9.586	203.90	4.52	2145.21	1822.35	4175.98
xxxx-10-22	11:44:15	1.1097	32.5	304.4	262.2	192.2	0.015	8.183	9.586	206.32	4.54	2145.28	1842.10	4198.24
xxxx-10-22	11:49:41	1.2003	32.2	302.3	262.2	194.3	0.015	8.183	9.586	207.52	4.54	2145.37	1862.40	4219.83
xxxx-10-22	11:55:32	1.2978	32.0	300.1	262.2	196.5	0.015	8.184	9.586	209.13	4.54	2145.46	1883.41	4242.54
xxxx-10-22	12:01:52	1.4033	31.7	297.8	262.2	198.8	0.015	8.184	9.586	212.30	4.57	2145.53	1905.40	4267.81
xxxx-10-22	12:08:43	1.5175	31.5	295.3	262.2	201.2	0.016	8.184	9.585	214.42	4.58	2145.63	1928.84	4293.47
xxxx-10-22	12:16:08	1.6411	31.2	292.7	262.2	203.9	0.016	8.185	9.585	216.63	4.59	2145.74	1954.24	4321.20
xxxx-10-22	12:24:04	1.7733	31.2	292.4	262.2	204.1	0.016	8.185	9.585	219.09	4.64	2145.71	1956.44	4325.87
xxxx-10-22	12:32:40	1.9167	30.8	289.3	262.2	207.2	0.016	8.185	9.585	221.30	4.64	2145.84	1986.03	4357.80
xxxx-10-22	12:41:57	2.0714	30.7	288.1	262.2	208.5	0.016	8.185	9.585	223.57	4.66	2145.87	1998.40	4372.51
xxxx-10-22	12:52:02	2.2394	30.5	285.9	262.2	210.6	0.016	8.185	9.585	226.22	4.68	2145.94	2018.87	4395.71
xxxx-10-22	13:02:53	2.4203	30.3	283.8	262.2	212.8	0.017	8.186	9.585	228.65	4.70	2146.02	2039.51	4418.88
xxxx-10-22	13:14:34	2.6150	30.0	281.6	262.2	214.9	0.017	8.186	9.584	231.00	4.71	2146.09	2060.07	4441.87
xxxx-10-22	13:27:15	2.8264	29.8	279.5	262.2	217.1	0.017	8.186	9.584	233.33	4.72	2146.17	2080.53	4464.75
xxxx-10-22	13:40:47	3.0519	29.6	277.4	262.2	219.1	0.017	8.187	9.584	236.14	4.74	2146.24	2100.36	4487.48
xxxx-10-22	13:55:29	3.2969	29.4	275.4	262.2	221.2	0.017	8.187	9.584	238.36	4.75	2146.31	2119.66	4509.08
xxxx-10-22	14:11:23	3.5619	29.2	273.5	262.2	223.1	0.017	8.187	9.584	240.84	4.77	2146.37	2138.06	4530.04
xxxx-10-22	14:28:37	3.8492	29.0	271.7	262.2	224.9	0.018	8.187	9.584	242.95	4.78	2146.43	2155.29	4549.45
xxxx-10-22	14:47:10	4.1583	28.8	270.0	262.2	226.5	0.018	8.187	9.584	244.93	4.79	2146.49	2170.90	4567.11
xxxx-10-22	15:07:10	4.4917	28.6	268.6	262.2	227.9	0.018	8.188	9.583	246.98	4.81	2146.53	2184.54	4582.85
xxxx-10-22	15:28:54	4.8539	28.5	267.4	262.2	229.2	0.018	8.188	9.583	248.92	4.82	2146.56	2196.11	4596.42
xxxx-10-22	15:52:13	5.2425	28.4	266.9	262.2	229.7	0.018	8.188	9.583	250.58	4.84	2146.56	2201.22	4603.21
xxxx-10-22	16:17:24	5.6622	28.4	266.3	262.2	230.2	0.018	8.188	9.583	252.20	4.87	2146.57	2206.24	4609.88
xxxx-10-22	16:44:42	6.1172	28.3	265.8	262.2	230.8	0.018	8.188	9.583	253.46	4.88	2146.58	2211.63	4616.54
xxxx-10-22	17:14:06	6.6072	28.3	265.3	262.2	231.3	0.018	8.188	9.583	254.92	4.90	2146.58	2216.20	4622.60
xxxx-10-22	17:46:00	7.1389	28.2	264.9	262.2	231.7	0.019	8.188	9.583	256.67	4.93	2146.57	2220.32	4628.49
xxxx-10-22	18:20:15	7.7097	28.2	264.5	262.2	232.1	0.019	8.188	9.583	258.08	4.95	2146.57	2223.91	4633.50
xxxx-10-22	18:57:13	8.3258	28.2	264.2	262.2	232.4	0.019	8.188	9.583	259.33	4.96	2146.57	2226.95	4637.81
xxxx-10-22	19:37:09	8.9914	28.1	263.9	262.2	232.6	0.019	8.188	9.583	260.35	4.98	2146.56	2229.28	4641.18
xxxx-10-22	20:20:14	9.7094	28.1	263.8	262.2	232.8	0.019	8.188	9.583	261.59	5.00	2146.55	2230.72	4643.86
xxxx-10-22	21:06:48	10.4856	28.1	263.7	262.2	232.9	0.019	8.188	9.583	262.83	5.02	2146.54	2231.43	4645.82
xxxx-10-22	21:57:03	11.3231	28.1	263.7	262.2	232.9	0.019	8.188	9.583	264.11	5.05	2146.52	2231.78	4647.46
xxxx-10-22	22:51:07	12.2242	28.1	263.6	262.2	232.9	0.019	8.188	9.583	265.23	5.07	2146.50	2231.96	4648.76
xxxx-10-22	23:50:03	13.2064	28.1	263.6	262.2	232.9	0.019	8.187	9.583	266.22	5.09	2146.48	2232.04	4649.84
xxxx-10-23	00:53:22	14.2617	28.1	263.6	262.2	232.9	0.019	8.187	9.583	267.50	5.11	2146.46	2232.13	4651.20
xxxx-10-23	02:01:37	15.3992	28.1	263.6	262.2	232.9	0.019	8.187	9.583	268.70	5.13	2146.45	2232.30	4652.58
xxxx-10-23	03:16:07	16.6408	28.1	263.6	262.2	233.0	0.020	8.187	9.583	269.58	5.15	2146.43	2232.48	4653.64
xxxx-10-23	04:35:33	17.9647	28.1	263.5	262.2	233.0	0.020	8.187	9.583	270.59	5.17	2146.42	2232.75	4654.92
xxxx-10-23	06:01:33	19.3981	28.1	263.5	262.2	233.0	0.020	8.187	9.583	271.69	5.19	2146.40	2233.01	4656.29
xxxx-10-23	07:34:25	20.9458	28.1	263.5	262.2	233.1	0.020	8.187	9.583	272.99	5.21	2146.38	2233.45	4658.04
xxxx-10-23	09:15:18	22.6272	28.1	263.4	262.2	233.1	0.020	8.187	9.583	274.47	5.24	2146.36	2233.90	4659.97
xxxx-10-23	11:03:59	24.4386	28.1	263.4	262.2	233.2	0.020	8.187	9.583	276.21	5.27	2146.34	2234.52	4662.34
xxxx-10-23	13:00:59	26.3886	28.1	263.3	262.2	233.3	0.020	8.187	9.583	277.77	5.30	2146.32	2235.23	4664.62
xxxx-10-23	15:07:14	28.4928	28.1	263.2	262.2	233.3	0.020	8.187	9.583	279.47	5.33	2146.29	2235.94	4667.04
xxxx-10-23	17:23:37	30.7658	28.1	263.1	262.2	233.4	0.020	8.187	9.583	280.91	5.36	2146.28	2236.84	4669.38
xxxx-10-23	19:50:44	33.2178	28.0	263.0	262.2	233.5	0.020	8.187	9.583	282.06	5.38	2146.26	2237.73	4671.43
xxxx-10-23	22:29:44	35.8678	28.0	262.9	262.2	233.6	0.021	8.187	9.583	283.04	5.40	2146.25	2238.62	4673.31
xxxx-10-24	01:21:14	38.7261	28.0	262.8	262.2	233.7	0.021	8.187	9.583	284.16	5.42	2146.24	2239.43	4675.24
xxxx-10-24	04:27:44	41.8344	28.0	262.8	262.2	233.8	0.021	8.186	9.583	285.62	5.44	2146.22	2240.14	4677.42
xxxx-10-24	07:47:52	45.1700	28.0	262.7	262.2	233.8	0.021	8.186	9.583	287.64	5.48	2146.19	2240.58	4679.89
xxxx-10-24	11:23:22	48.7617	28.0	262.7	262.2	233.8	0.021	8.186	9.582	289.65	5.52	2146.16	2240.57	4681.90
xxxx-10-24	15:16:37	52.6492	28.0	262.7	262.2	233.8	0.021	8.186	9.582	291.48	5.55	2146.13	2240.56	4683.72
xxxx-10-24	19:28:22	56.8450	28.0	262.7	262.2	233.8	0.021	8.186	9.582	293.46	5.59	2146.09	2240.56	4685.70
xxxx-10-25	00:02:07	61.4075	28.0	262.7	262.2	233.8	0.021	8.186	9.582	295.01	5.62	2146.07	2240.55	4687.25
xxxx-10-25	04:55:37	66.2992	28.0	262.7	262.2	233.8	0.022	8.186	9.582	296.67	5.65	2146.04	2240.54	4688.91
xxxx-10-25	10:22:53	71.7536	28.0	262.7	262.2	233.8	0.022	8.186	9.582	297.98	5.68	2146.02	2240.54	4690.22

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-10-21 15:23:27
Last Shot: xxxx-10-25 10:22:53

Flow & BU
on oil well

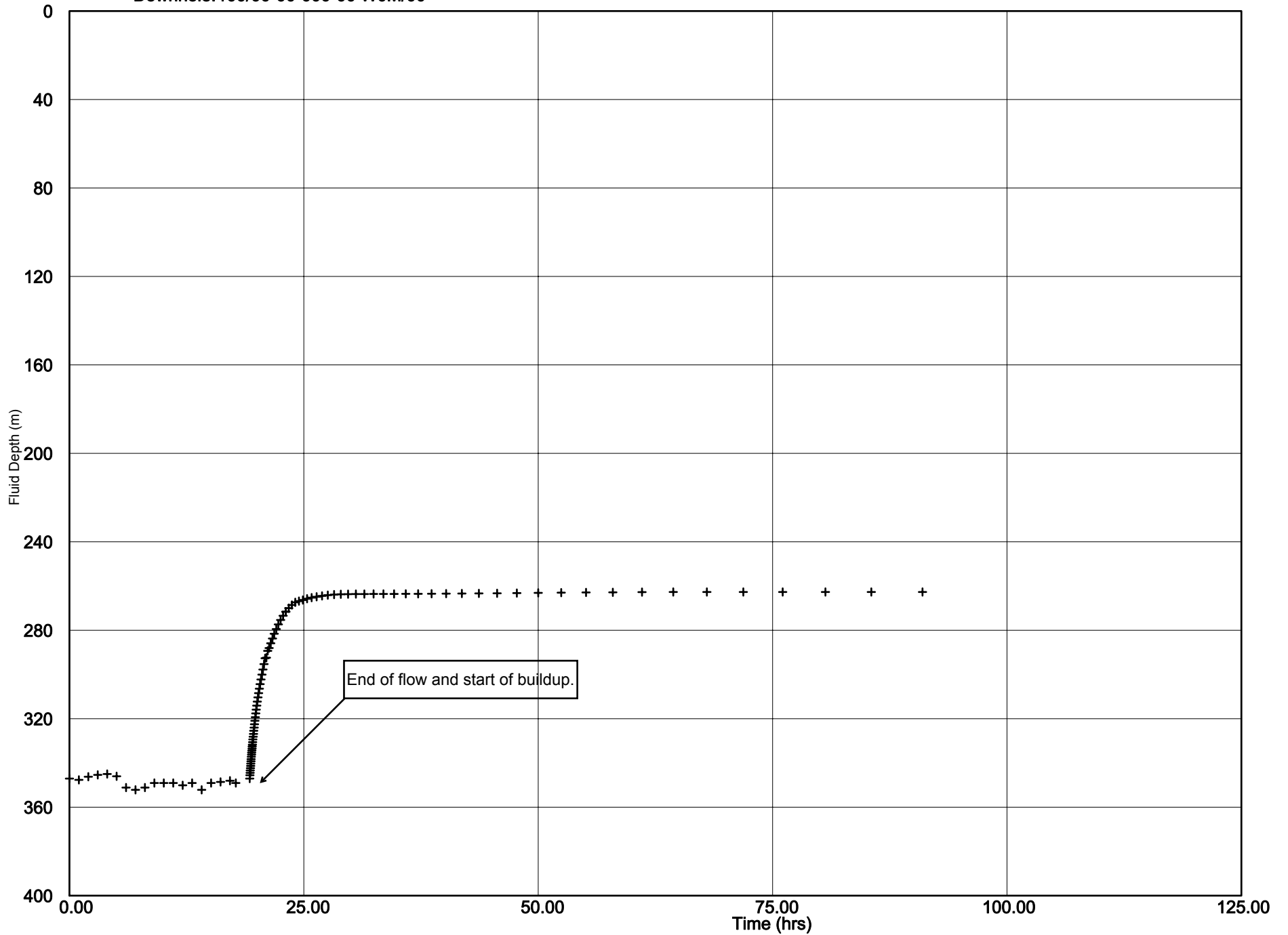


Fluid Level vs Time

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

Start of Test: xxxx-10-21 15:23:27
Last Shot: xxxx-10-25 10:22:53

Flow & BU
on oil well

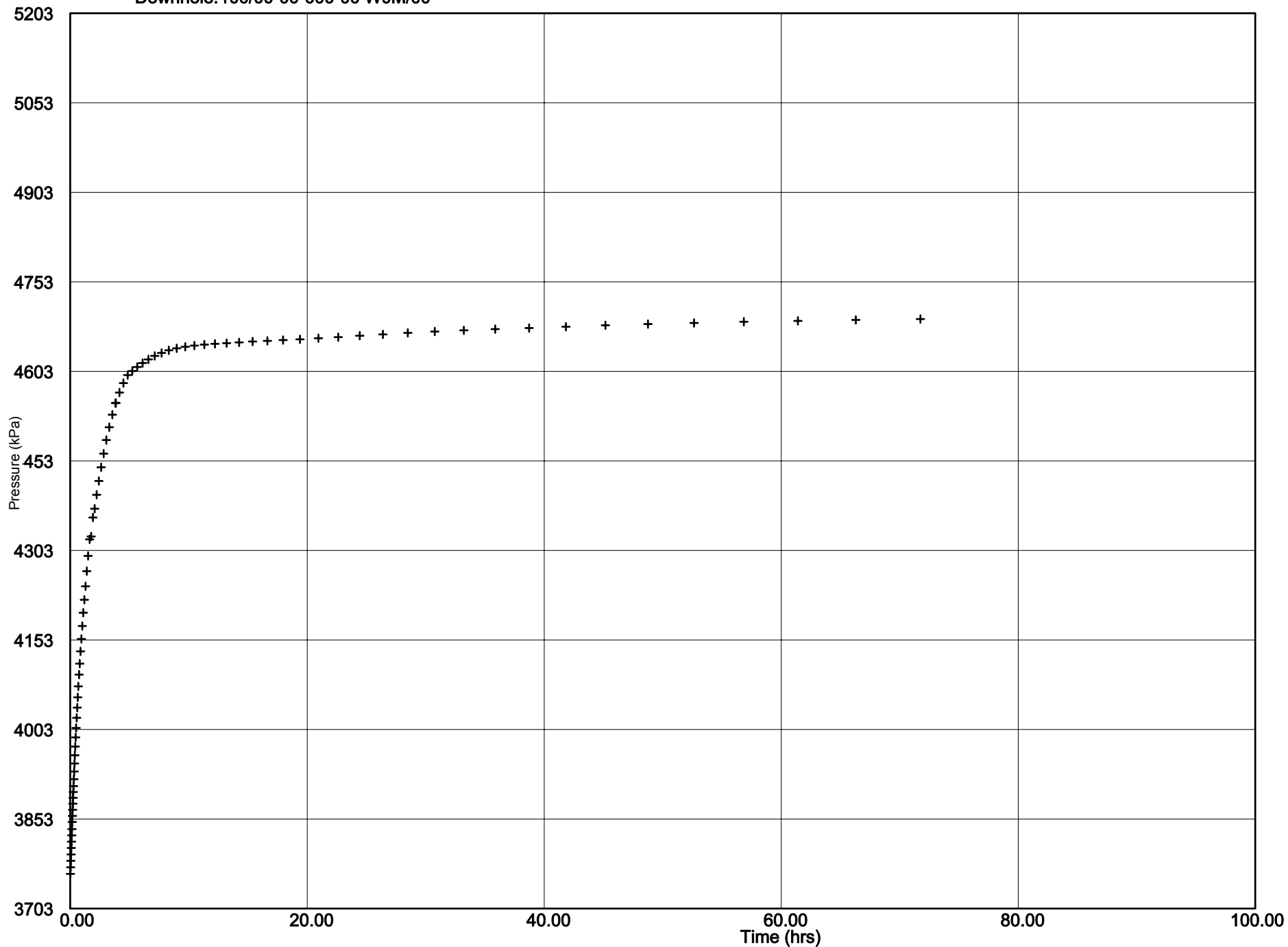


Bottom Hole Pressure vs Time

Company: Golden Company Ltd.
Surface: 00-00-000-00 W0M
Downhole: 100/00-00-000-00 W0M/00

Start of Test: xxxx-10-21 15:23:27
Last Shot: xxxx-10-25 10:22:53

Flow & BU
on oil well

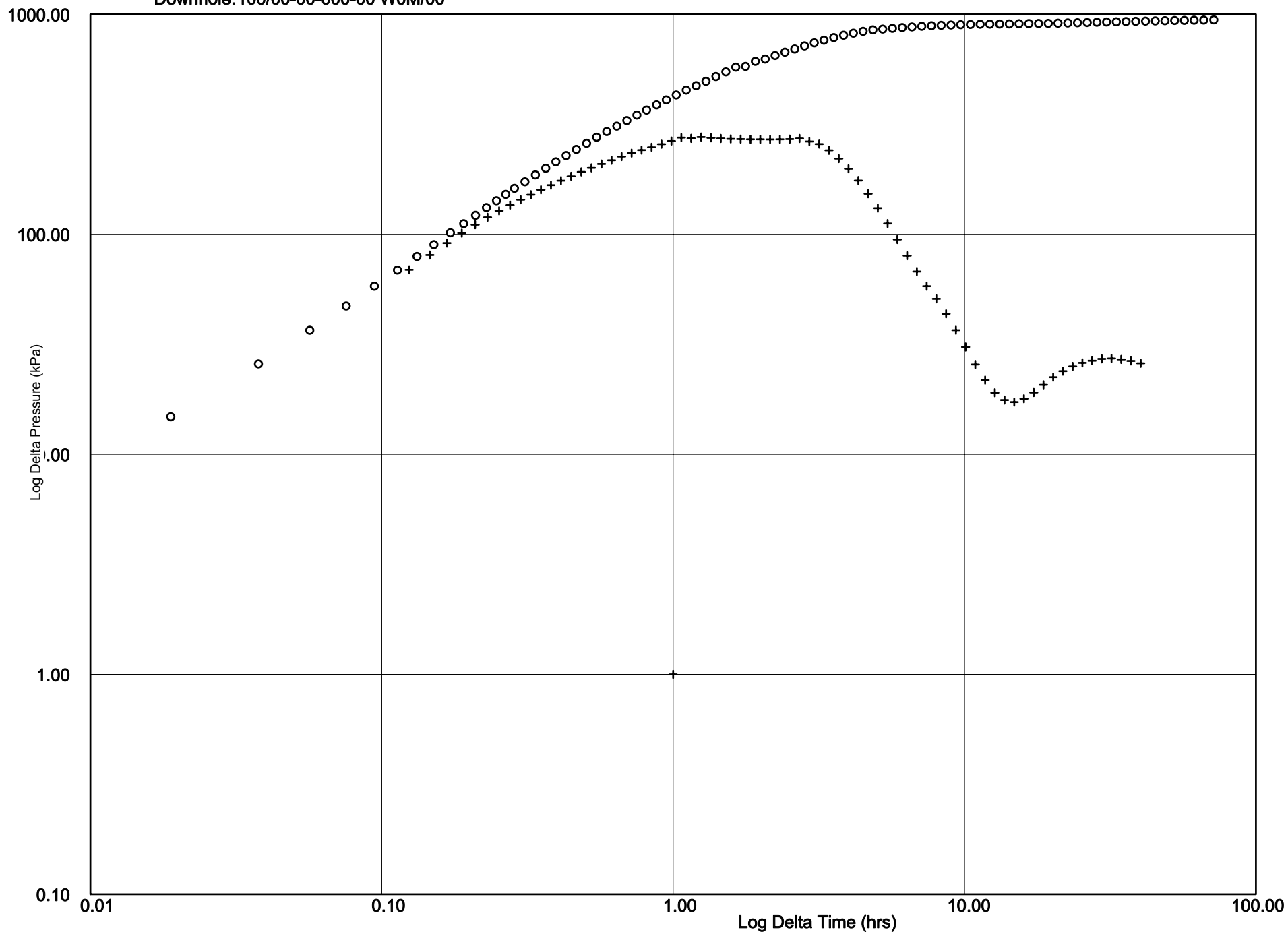


Type Curve Plot

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

Start of Test: xxx-10-21 15:23:27
Last Shot: xxx-10-25 10:22:53

Flow & BU
on oil well

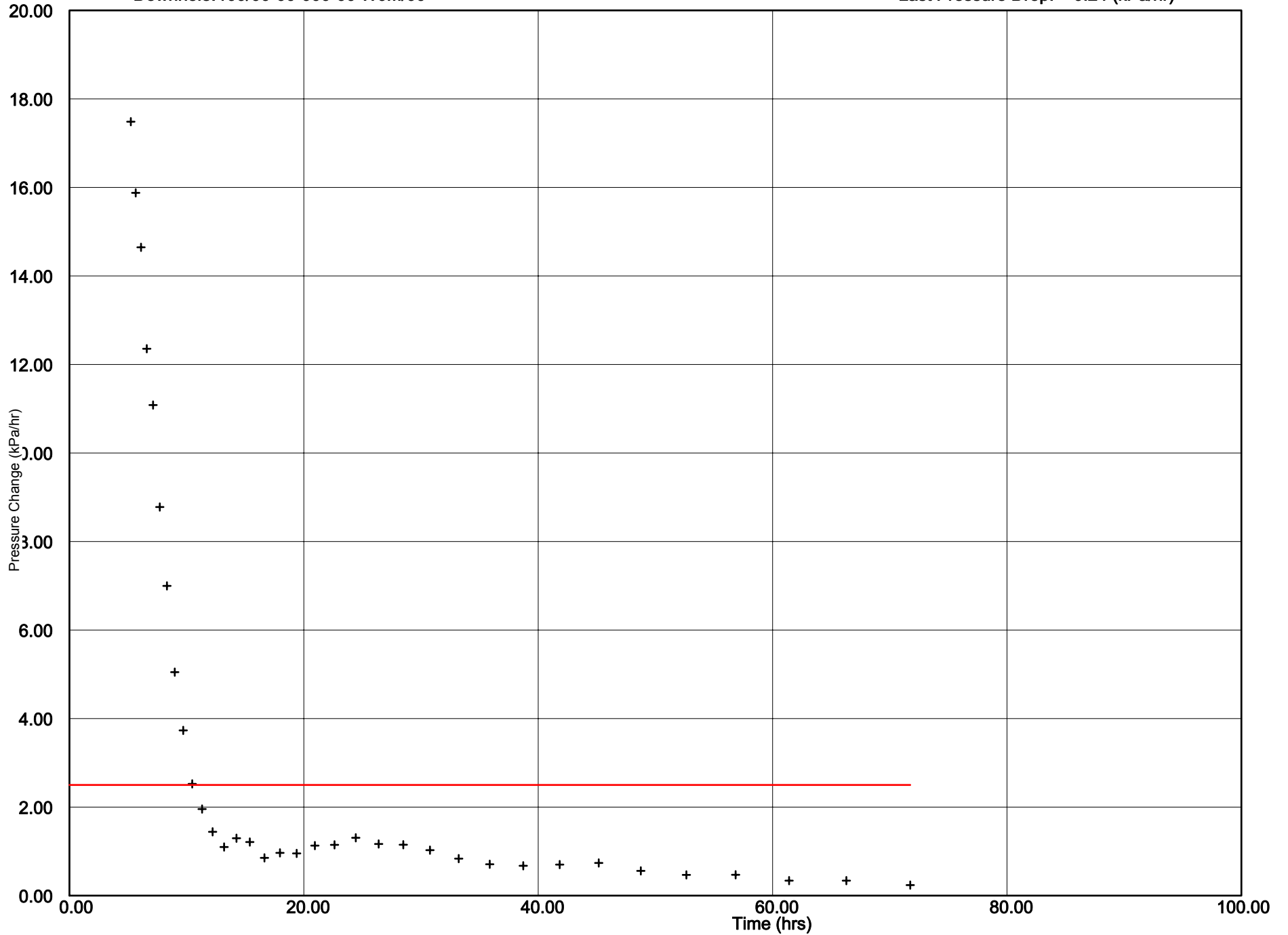


kPa/hr vs Time

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

Start of Test: xxxx-10-21 15:23:27
Last Shot: xxxx-10-25 10:22:53
Last Pressure Drop: 0.24 (kPa/hr)

Flow & BU
on oil well



Acoustic Buildup

BU on gas well

Golden Company Ltd.

Surface: 00-00-000-00 WOM

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



Wellname: Black Tea
Field name: Black Gold

Formation: Red Deer
License #: 123456

Status: Gas Well

KB (m): 717.10 KB to CF (m): 4.00
Tubing bottom (mKB): 734.40 Surface Temp (C): 2.20
Number of Joints: 77 Reservoir Temp (C): 25.00

Oil Rate (m3pd): 0.00 Gas Gravity: 0.75
Water Rate (m3pd): 0.30 Oil Gravity (API): 34.90
Gas Rate (M m3pd): 1.50 Water Gravity: 1.01

Perforations Measured Depths: True Vertical Depths: Top of Perfs (mKB): 717.50 Bottom of Perfs (mKB): 728.50 Mid-Point of Perfs (mKB): 723.00

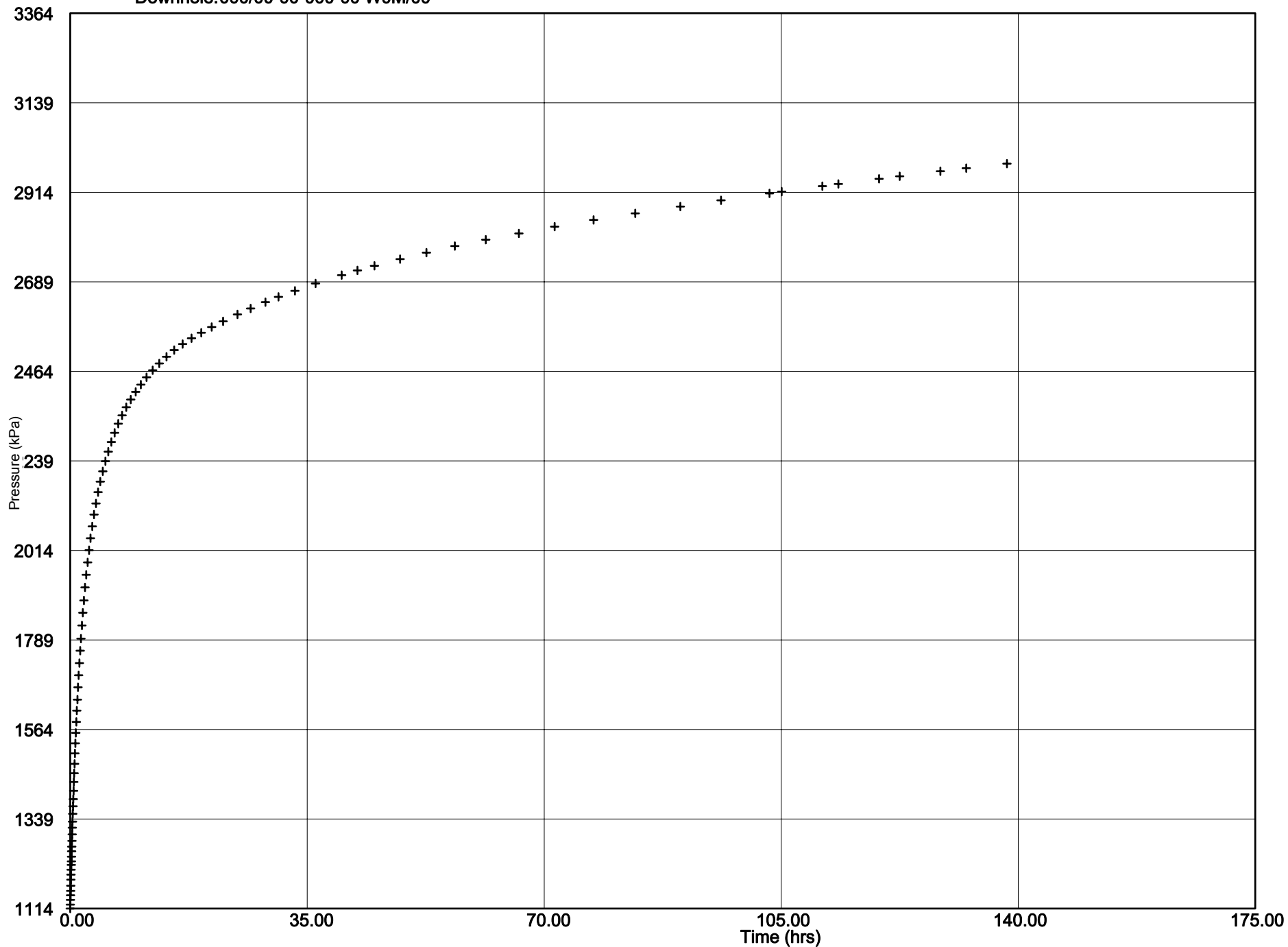
Date	Time	Shut-in Time (hrs)	Joints to Fluid	Column Heights (mCF)			Gradients (kPa/m)			Pressure (kPa(a))			MPP	
				Gas	Oil	Inflow	Gas	Oil	Inflow	Surface	Interface	Oil		Inflow
xxxx-08-07	14:43:03	0.0000	76.0	720.9	0.0	0.0	0.117	8.197	9.905	1206.64	84.21	0.00	0.00	1290.85
xxxx-08-07	14:44:05	0.0172	76.0	720.9	0.0	0.0	0.118	8.196	9.905	1216.79	84.96	0.00	0.00	1301.75
xxxx-08-07	14:45:06	0.0342	76.0	720.9	0.0	0.0	0.119	8.195	9.905	1228.60	85.82	0.00	0.00	1314.42
xxxx-08-07	14:46:07	0.0511	76.0	720.9	0.0	0.0	0.121	8.194	9.905	1240.12	86.67	0.00	0.00	1326.79
xxxx-08-07	14:47:08	0.0681	76.0	720.9	0.0	0.0	0.122	8.194	9.905	1251.27	87.49	0.00	0.00	1338.76
xxxx-08-07	14:48:16	0.0869	76.0	720.9	0.0	0.0	0.123	8.193	9.905	1264.25	88.45	0.00	0.00	1352.70
xxxx-08-07	14:49:24	0.1058	76.0	720.9	0.0	0.0	0.125	8.192	9.905	1279.23	89.55	0.00	0.00	1368.78
xxxx-08-07	14:50:32	0.1247	76.0	720.9	0.0	0.0	0.126	8.191	9.905	1291.95	90.49	0.00	0.00	1382.44
xxxx-08-07	14:51:44	0.1447	76.0	720.9	0.0	0.0	0.127	8.190	9.905	1304.36	91.41	0.00	0.00	1395.77
xxxx-08-07	14:52:51	0.1633	76.0	720.9	0.0	0.0	0.128	8.189	9.905	1316.54	92.31	0.00	0.00	1408.85
xxxx-08-07	14:53:59	0.1822	76.0	720.9	0.0	0.0	0.129	8.189	9.905	1325.32	92.96	0.00	0.00	1418.28
xxxx-08-07	14:55:06	0.2008	76.0	720.9	0.0	0.0	0.131	8.188	9.905	1337.30	93.85	0.00	0.00	1431.15
xxxx-08-07	14:56:15	0.2200	76.0	720.9	0.0	0.0	0.132	8.187	9.905	1350.68	94.84	0.00	0.00	1445.52
xxxx-08-07	14:57:36	0.2425	76.0	720.9	0.0	0.0	0.133	8.186	9.905	1362.37	95.71	0.00	0.00	1458.08
xxxx-08-07	14:59:05	0.2672	76.0	720.9	0.0	0.0	0.135	8.185	9.905	1376.91	96.79	0.00	0.00	1473.70
xxxx-08-07	15:00:40	0.2936	76.0	720.9	0.0	0.0	0.136	8.184	9.905	1393.07	98.00	0.00	0.00	1491.07
xxxx-08-07	15:02:24	0.3225	76.0	720.9	0.0	0.0	0.138	8.183	9.905	1409.94	99.26	0.00	0.00	1509.20
xxxx-08-07	15:04:15	0.3533	76.0	720.9	0.0	0.0	0.140	8.182	9.905	1425.14	100.39	0.00	0.00	1525.53
xxxx-08-07	15:06:14	0.3864	76.0	720.9	0.0	0.0	0.142	8.180	9.905	1444.78	101.85	0.00	0.00	1546.63
xxxx-08-07	15:08:25	0.4228	76.0	720.9	0.0	0.0	0.144	8.179	9.905	1463.69	103.27	0.00	0.00	1566.96
xxxx-08-07	15:10:46	0.4619	76.0	720.9	0.0	0.0	0.146	8.178	9.905	1481.73	104.62	0.00	0.00	1586.35
xxxx-08-07	15:13:16	0.5036	76.0	720.9	0.0	0.0	0.148	8.176	9.905	1502.62	106.19	0.00	0.00	1608.81
xxxx-08-07	15:16:00	0.5492	76.0	720.9	0.0	0.0	0.150	8.175	9.905	1525.00	107.88	0.00	0.00	1632.88
xxxx-08-07	15:18:57	0.5983	76.0	720.9	0.0	0.0	0.152	8.173	9.905	1546.75	109.52	0.00	0.00	1656.27
xxxx-08-07	15:22:07	0.6511	76.0	720.9	0.0	0.0	0.155	8.171	9.905	1570.36	111.30	0.00	0.00	1681.66
xxxx-08-07	15:25:33	0.7083	76.0	720.9	0.0	0.0	0.158	8.170	9.905	1596.79	113.31	0.00	0.00	1710.10
xxxx-08-07	15:29:14	0.7697	76.0	720.9	0.0	0.0	0.160	8.168	9.905	1622.07	115.23	0.00	0.00	1737.30
xxxx-08-07	15:33:14	0.8364	76.0	720.9	0.0	0.0	0.163	8.166	9.905	1648.34	117.23	0.00	0.00	1765.57
xxxx-08-07	15:37:32	0.9081	76.0	720.9	0.0	0.0	0.166	8.164	9.905	1675.89	119.33	0.00	0.00	1795.22
xxxx-08-07	15:42:12	0.9858	76.0	720.9	0.0	0.0	0.169	8.162	9.905	1704.19	121.50	0.00	0.00	1825.69
xxxx-08-07	15:47:16	1.0703	76.0	720.9	0.0	0.0	0.172	8.160	9.905	1731.68	123.61	0.00	0.00	1855.29
xxxx-08-07	15:52:42	1.1608	76.0	720.9	0.0	0.0	0.175	8.158	9.905	1762.82	126.00	0.00	0.00	1888.82
xxxx-08-07	15:58:33	1.2583	76.0	720.9	0.0	0.0	0.178	8.156	9.905	1793.03	128.33	0.00	0.00	1921.36
xxxx-08-07	16:04:53	1.3639	76.0	720.9	0.0	0.0	0.182	8.153	9.905	1823.66	130.70	0.00	0.00	1954.36
xxxx-08-07	16:11:44	1.4781	76.0	720.9	0.0	0.0	0.185	8.151	9.905	1854.76	133.12	0.00	0.00	1987.88
xxxx-08-07	16:19:03	1.6017	76.0	720.9	0.0	0.0	0.188	8.149	9.905	1885.22	135.48	0.00	0.00	2020.70
xxxx-08-07	16:27:04	1.7336	76.0	720.9	0.0	0.0	0.192	8.146	9.905	1918.05	138.05	0.00	0.00	2056.10
xxxx-08-07	16:35:41	1.8772	76.0	720.9	0.0	0.0	0.195	8.144	9.905	1950.18	140.56	0.00	0.00	2090.74
xxxx-08-07	16:44:58	2.0319	76.0	720.9	0.0	0.0	0.199	8.142	9.905	1980.92	142.97	0.00	0.00	2123.89
xxxx-08-07	16:55:04	2.2003	76.0	720.9	0.0	0.0	0.202	8.139	9.905	2013.85	145.56	0.00	0.00	2159.41
xxxx-08-07	17:05:54	2.3808	76.0	720.9	0.0	0.0	0.206	8.137	9.905	2045.60	148.07	0.00	0.00	2193.67
xxxx-08-07	17:17:35	2.5756	76.0	720.9	0.0	0.0	0.209	8.135	9.905	2076.74	150.53	0.00	0.00	2227.27
xxxx-08-07	17:30:16	2.7869	76.0	720.9	0.0	0.0	0.213	8.133	9.905	2107.41	152.97	0.00	0.00	2260.38
xxxx-08-07	17:43:47	3.0122	76.0	720.9	0.0	0.0	0.216	8.130	9.905	2137.41	155.36	0.00	0.00	2292.77
xxxx-08-07	17:58:29	3.2572	76.0	720.9	0.0	0.0	0.219	8.128	9.905	2167.08	157.73	0.00	0.00	2324.81
xxxx-08-07	18:14:23	3.5222	76.0	720.9	0.0	0.0	0.223	8.126	9.905	2196.83	160.11	0.00	0.00	2356.94

Casing Pressure vs Time

BU on gas well

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

Start of Test: xxxx-08-07 14:43:03
Last Shot: xxxx-08-13 09:03:07

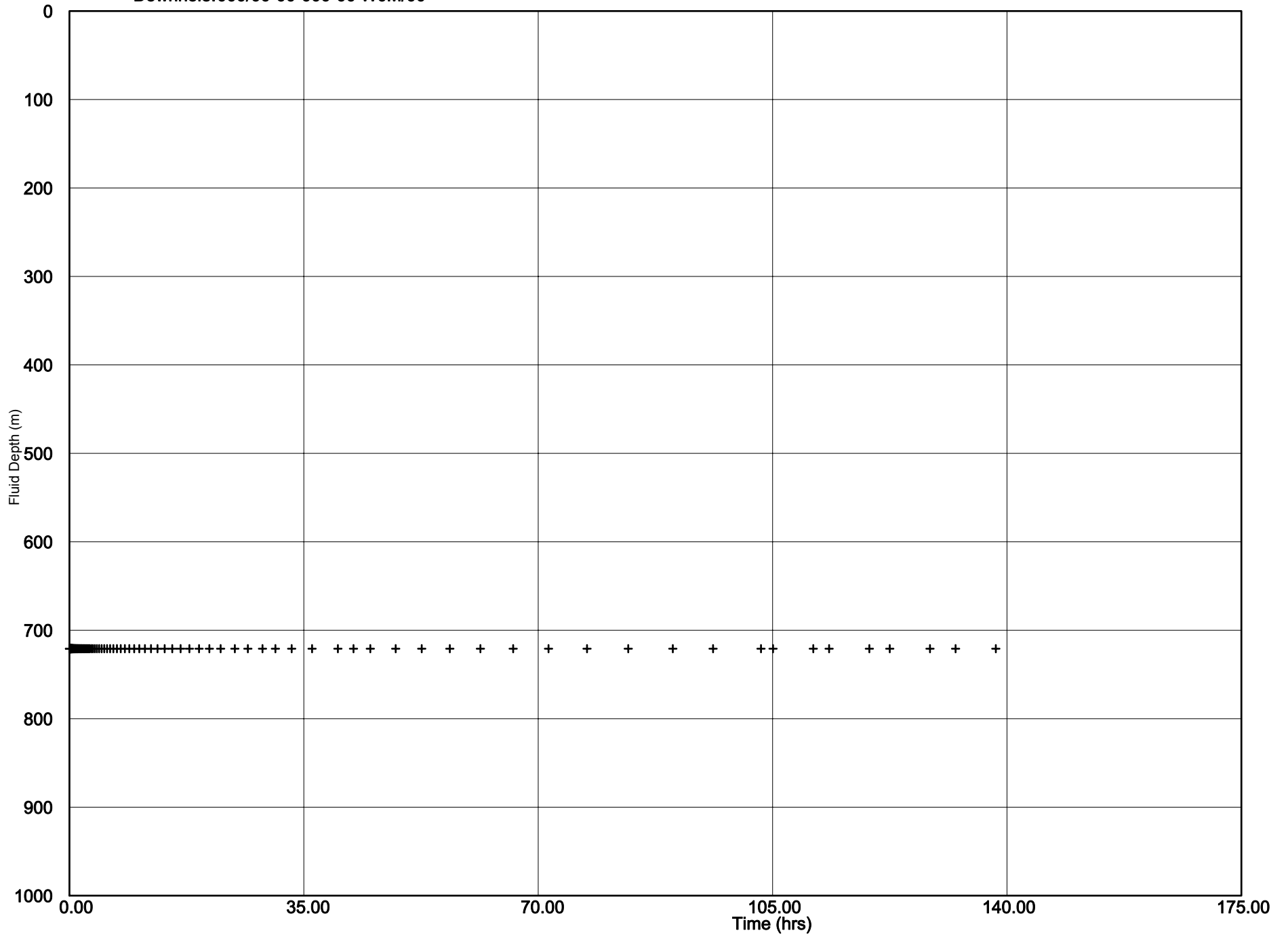


Fluid Level vs Time

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

Start of Test: xxxx-08-07 14:43:03
Last Shot: xxxx-08-13 09:03:07

BU on gas well

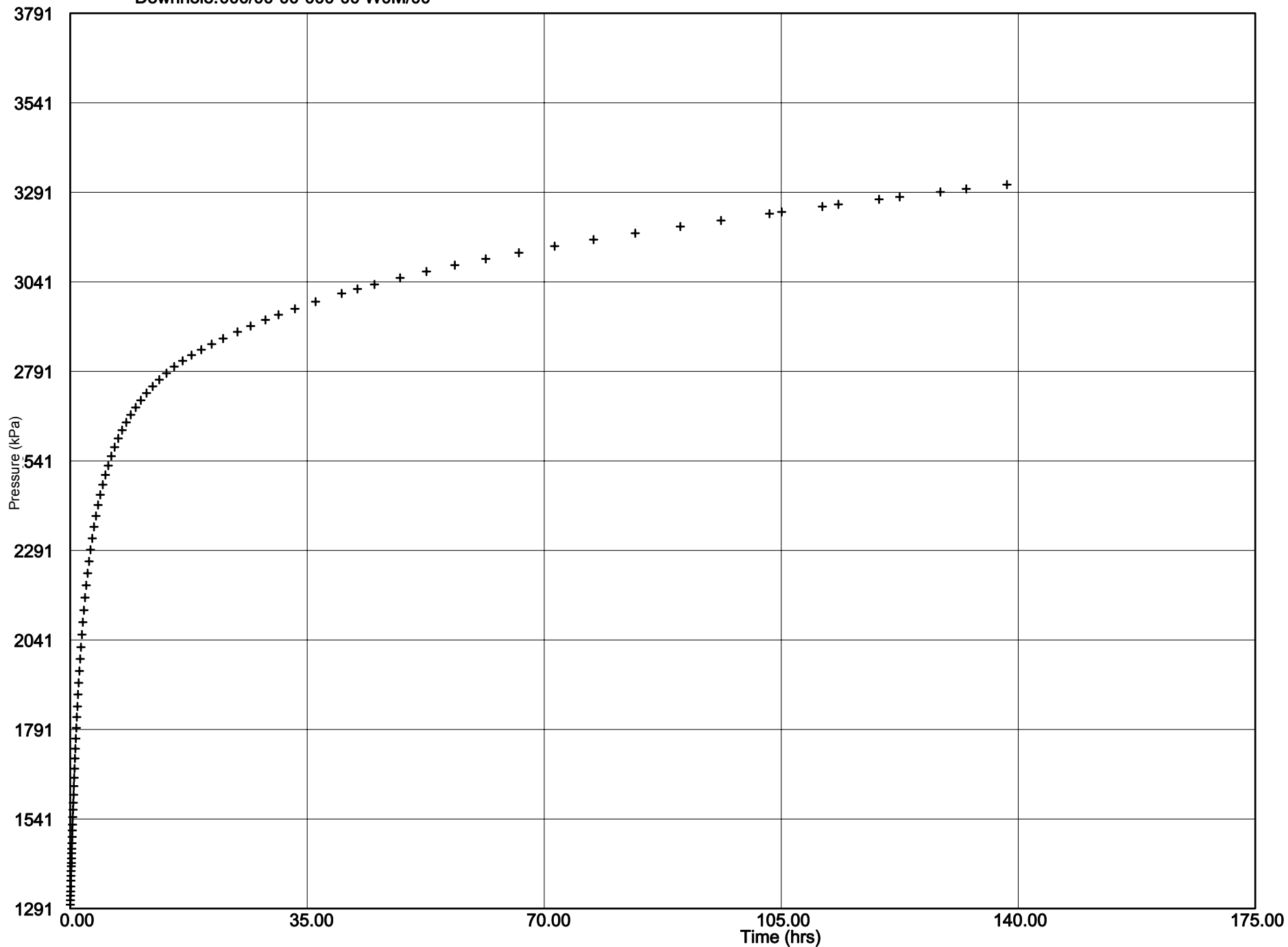


Bottom Hole Pressure vs Time

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

Start of Test: xxxx-08-07 14:43:03
Last Shot: xxxx-08-13 09:03:07

BU on gas well

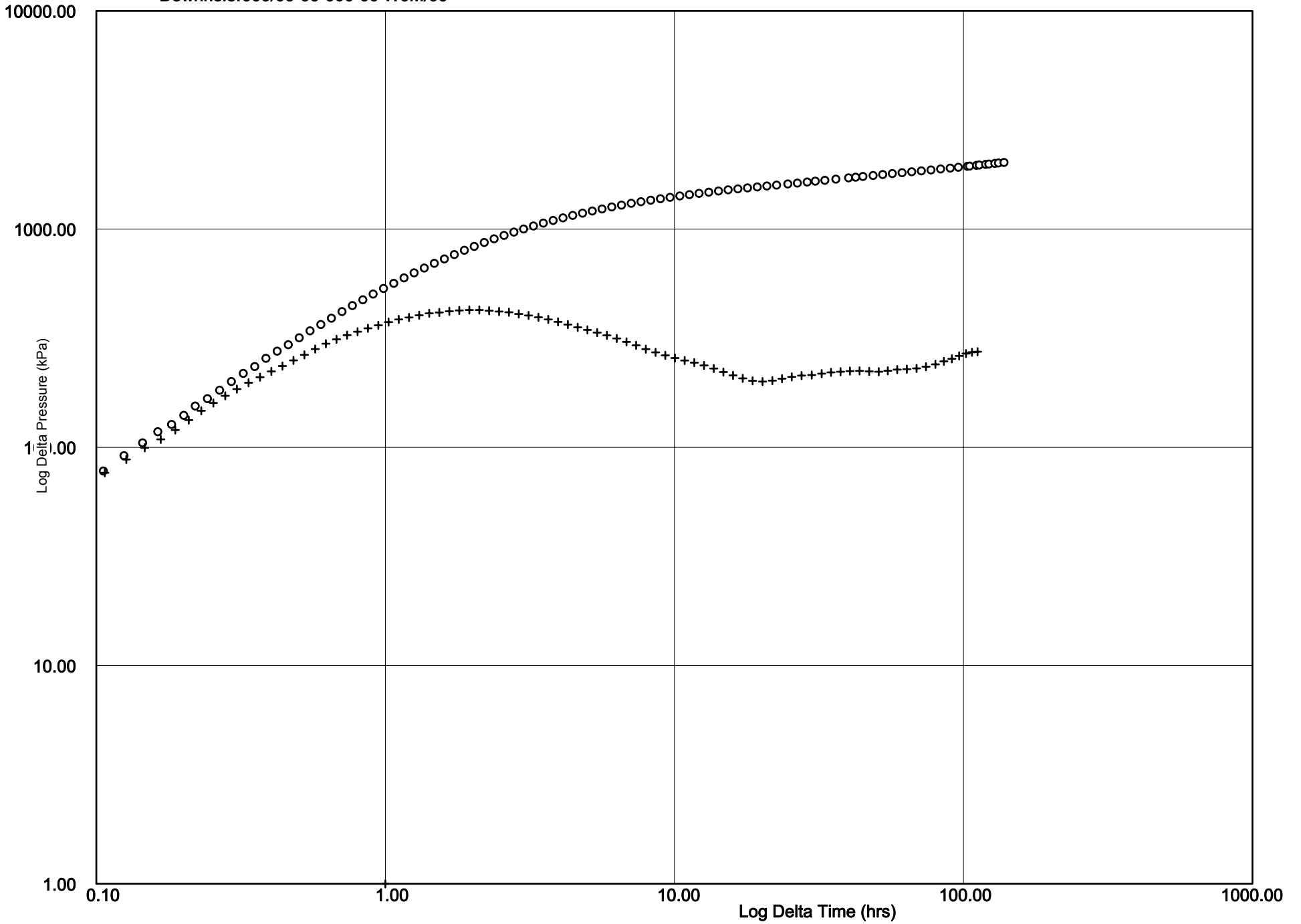


Type Curve Plot

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

Start of Test: xxxx-08-07 14:43:03
Last Shot: xxxx-08-13 09:03:07

BU on gas well



kPa/hr vs Time

BU on gas well

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

Start of Test: xxxx-08-07 14:43:03
Last Shot: xxxx-08-13 09:03:07
Last Pressure Drop: 2.01 (kPa/hr)

