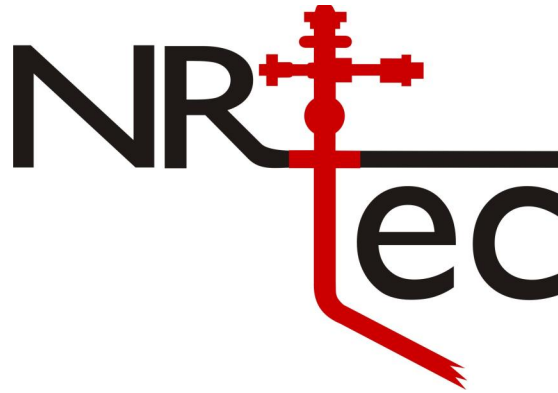


ACOUSTIC PRESSURE SURVEY  
ANNULAR FLUID DEPRESSION TEST



SAMPLE et al ALBERTA 1-2-30-4  
100/01-02-030-04W5/0  
License: 0123456  
Field: ALBERTA  
Formation: GLWD  
Pool: GILWOOD

2009-JUN-11

Analysis provided by NR-Tec Ltd.

Prepared by: NR-TEC ANALYST  
Date: 2009-Jun-12  
  
Prepared for: BOB LOBLAW  
SAMPLE COMPANY

## ANNULAR FLUID DEPRESSION TEST

SAMPLE COMPANY  
SAMPLE et al ALBERTA 1-2-30-4  
100/01-02-030-04W5/0  
Test Date: June 11, 2009

### INTRODUCTION

An annular fluid depression test was conducted on the subject well in order to determine an annular fluid gradient and producing subsurface pressure at the mid-point of the perforated interval.

### PROCEDURE

Pumping fluid levels and wellhead pressures were obtained using an automated acoustic fluid level instrument.

Backpressure was applied to the annulus by closing the casing valve on the "D" wing. The increasing gas/liquid interface pressure causes the fluid level to change. The fluid gradient is established by calculating the gas/liquid interface pressure and measuring the corresponding fluid level at various intervals after the backpressure is applied.

The fluid rates and properties were provided by SAMPLE COMPANY.

### RESULTS

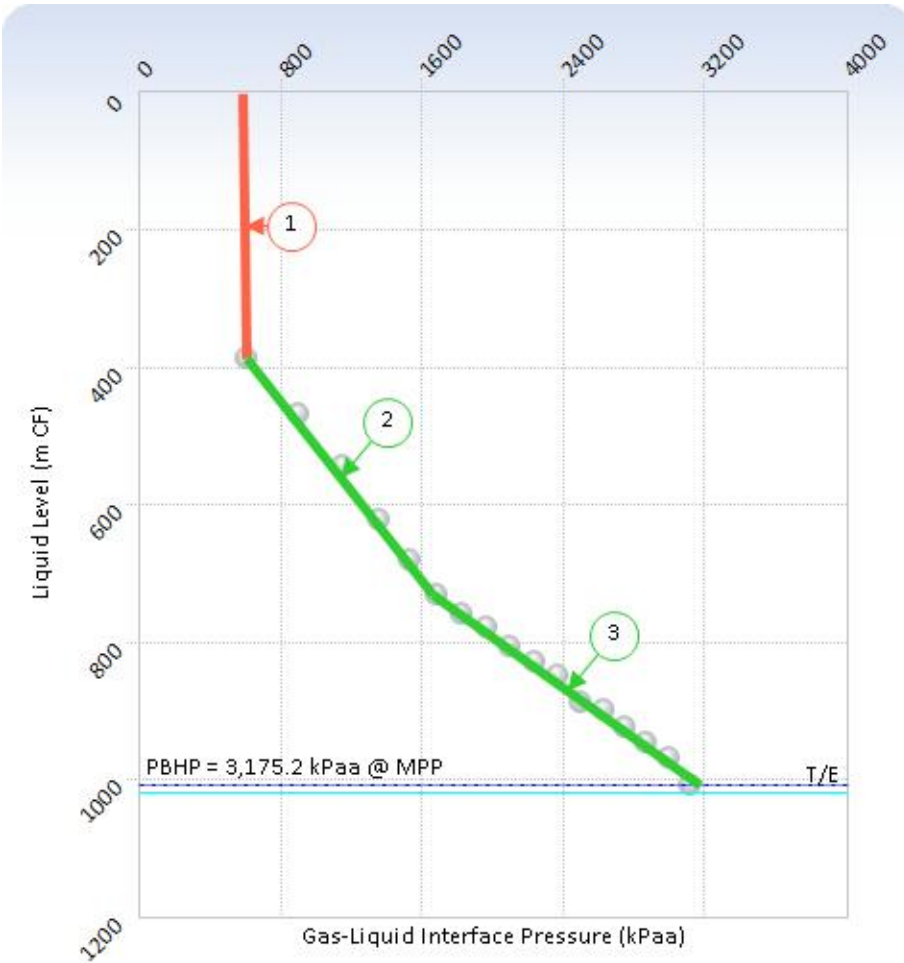
A producing pressure at the mid-point of the perforated interval of 3,175 kPa (absolute) was determined from the test points.

Summary sheets showing test results, calculations and graphs of the annular fluid depression test are included with this report.

## ANNULAR FLUID DEPRESSION TEST

COMPANY: SAMPLE COMPANY	POOL: GILWOOD	U.W.I.: 100/01-02-030-04W5/0
FIELD: ALBERTA	WELL STATUS: Pumping Oil	WELL NAME: SAMPLE et al ALBERTA 1-2-30-4
	LICENSE: 0123456	

<b>ELEVATIONS:</b> Kelly Bushing (KB): 771.90 m Casing Flange (CF): 767.55 m KB to CF: 4.35 m	<b>FLUID PROPERTIES:</b> Gas Gravity: 0.700 Oil Gravity: 40.000 °API Water Gravity: 1.050	<b>SURFACE UNIT:</b> Tubing Pressure: 494.0 kPa Pumping Speed: 6.4 SPM Stroke Length: 488.0/192.1 cm/inch
<b>PRODUCTION RATES:</b> Gas: 8.00 E³m³/d Oil: 35.00 m³/d Water: 35.00 m³/d	<b>TUBING:</b> Total Joints: 108.000 Tubing Bottom: 1021.43 m KB Average Joint Length: 9.417 m	<b>PRODUCING INTERVAL:</b> Top: 1,007.00 m KB Bottom: 1,014.70 m KB Mid-Point: 1,010.85 m KB



TEST START: 2009-JUN-11 @ 15:38:00					
No.	Elapsed Time (hours)	Joints To Fluid	Liquid Level (m CF)	Surface Pressure (kPaa)	Interface Pressure (kPaa)
1	0.000	41.10	387.06	587.0	607.1
2	0.533	49.64	467.48	865.3	901.4
3	1.033	57.66	543.01	1097.6	1151.2
4	1.533	65.81	619.76	1288.8	1361.0
5	2.033	72.31	680.97	1440.6	1529.8
6	2.533	77.61	730.89	1574.9	1680.0
7	3.033	80.36	756.78	1705.9	1824.4
8	3.533	82.55	777.41	1832.1	1963.4
9	4.033	85.58	805.94	1954.8	2100.7
10	4.533	87.96	828.36	2076.8	2236.8
11	5.033	89.97	847.28	2194.6	2368.3
12	5.533	94.27	887.78	2307.8	2499.9
13	6.033	95.37	898.14	2420.9	2625.7
14	6.533	98.02	923.09	2531.5	2752.5
15	7.033	100.49	946.36	2637.0	2873.9
16	7.533	102.78	967.92	2741.8	2994.7
17	8.033	106.90	1,006.72	2844.3	3118.1

NO.	Column Length (m)	Average Gradient (kPa/m)	Column Pressure (kPa)	Column Type
1	387.1	0.046	18.0	Gas Column
2	343.8	3.092	1,063.2	Calculated
3	275.6	5.468	1,507.0	Calculated