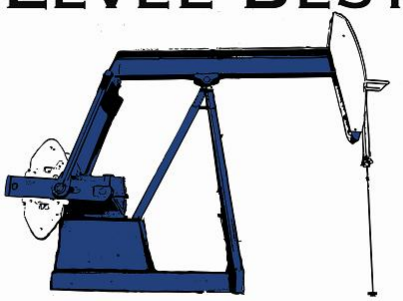
LEVEL BEST



TECHNOLOGIES LTD.

ANNULAR FLUID DEPRESSION TEST

SAMPLE COMPANY
SAMPLE et al SASKATCHEWAN 1-2-3-14
100/01-02-003-14W2/0
FIELD: SASKATCHEWAN
FORMATION: MIDALE

TEST DATE: JUNE 11, 2004
(Analysis provided by NR-Tec Ltd.)

DISTRIBUTION:	***BOB LOBLAW, Calgary, AB.***
PREPARED BY:	***NR-TEC ANALYST***
DATE:	***2004-06-12***

LEVEL BEST TECHNOLOGIES LTD.

ANNULAR FLUID DEPRESSION TEST

SAMPLE COMPANY
SAMPLE et al SASKATCHEWAN 1-2-3-14
100/01-02-003-14W2/0
Test Date: June 11, 2004

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

The results of the test indicate that the annular fluid column is comprised of multiple fluid gradients. The producing subsurface pressure at the mid-point of the producing interval was determined to be **3175 kPaa** from this test.

A summary sheet showing test results, calculations and a graph of pumping fluid level versus gas-liquid interface pressure is included with this report.

NR-TEC LTD.
ANNULAR FLUID DEPRESSION TEST

COMPANY: **SAMPLE COMPANY**
FIELD: **SASKATCHEWAN**
POOL NAME: **MIDALE**

WELL NAME: **SAMPLE et al SASKATCHEWAN 1-2-3-14**
LOCATION: **100/01-02-003-14W2/0**
LICENSE: **0123456**

ELEVATIONS

KELLY BUSHING (K.B.)	=	771.90	m
CASING FLANGE (C.F.)	=	767.55	m
K.B. TO C.F.	=	4.35	m

TUBING

TOTAL JOINTS	=	108.000	
TUBING BOTTOM	=	1021.5	m KB
PUMP DEPTH	=	1012.0	m KB

PRODUCING INTERVAL

TOP OF INTERVAL	=	1007.00	m KB
BOTTOM OF INTERVAL	=	1014.70	m KB
MID-POINT	=	1010.85	m KB

FLUID PROPERTIES

GAS GRAVITY	=	0.700	
OIL GRAVITY	=	40.000	°API
WATER GRAVITY	=	1.050	

PRODUCTION

OIL RATE	=	35.00	m³/d
WATER RATE	=	35.00	m³/d
GAS RATE	=	8.00	E³m³/d
G.O.R.	=	228.57	m³/m³

SURFACE UNIT

TUBING PRESSURE	=	587.0	kPaa
PUMPING SPEED	=	6.4	SPM
STROKE LENGTH	=	488.0	cm

ACOUSTIC TESTING COMMENCED ON 2004-JUN-11 AT 15:38:00

SHOT #	TEST TIME (hours)	JOINTS TO FLUID	FLUID LEVEL (m CF)	CASING PRESSURE (kPaa)	INTERFACE PRESSURE (kPaa)
001	0.000	41.10	387.1	587.0	607.1
002	0.533	49.64	467.5	865.3	901.4
003	1.033	57.66	543.0	1097.6	1151.2
004	1.533	65.81	619.8	1288.8	1361.0
005	2.033	72.31	681.0	1440.6	1529.8
006	2.533	77.61	730.9	1574.9	1680.0
007	3.033	80.36	756.8	1705.9	1824.4
008	3.533	82.55	777.4	1832.1	1963.4
009	4.033	85.58	805.9	1954.8	2100.7
010	4.533	87.96	828.4	2076.8	2236.8
011	5.033	89.97	847.3	2194.6	2368.3
012	5.533	94.27	887.8	2307.8	2499.9
013	6.033	95.37	898.1	2420.9	2625.7
014	6.533	98.02	923.1	2531.5	2752.5
015	7.033	100.49	946.4	2637.0	2873.9
016	7.533	102.78	967.9	2741.8	2994.7
017	8.033	106.90	1006.7	2844.3	3118.1

COLUMN		AVERAGE GRADIENT (kPa/m)	COLUMN LENGTH (m)	COLUMN PRESSURE (kPa)
1	Gas Column	0.046	387.1	18.0
2	Calculated	3.092	343.8	1063.2
3	Calculated	5.468	275.6	1507.0