



SURFACE CASING VENT TEST

***EFFICIENT RESOURCES LTD.
EFFICIENT et al PROLIFIC 1-1-1-1
UWI: 100/01-01-001-01W1
FIELD: PROLIFIC***

***TEST DATE: AUGUST 22 - 23, 2006
(Data Supplied By: Favorite Field Data Company)***

DISTRIBUTION: BOB LOBLAW – Calgary, AB.

PREPARED BY: NR-Tec Analyst

DATE: 2006-08-24

NR-Tec Ltd.

EUB Requirements Production Optimization Technical Services AOF and Pressure Transient Analysis
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NR-Tec Ltd.

Surface Casing Vent Flow/
Gas Migration Data Sheet

GENERAL INFORMATION AND CERTIFICATION

LICENSEE	Efficient Resources Ltd.	
CONTACT PERSON	Bob Loblaw	
CONSULTANT	NR-Tec Ltd.	
CONTACT PERSON	NR-Tec Analyst	
TELEPHONE		Email

WELL TEST INFORMATION

LICENCE NO.	123456	UNIQUE IDENTIFIER	100/01-01-001-01W1	DATE TESTED	06 Aug 23
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SURFACE CASING VENT FLOW TEST DATA

Vent Flow Exists **Yes** Test Type PD Meter
 If YES please complete the rest of this section.

Non-Serious (based on rate and pressure only)

Type of Flow Gas The Flow is Sweet

Casing Information:
 Surface Casing Depth (mKB): 586.0 Size (mm): 244.5 Vent Position **OPEN**

Cementing Details (Casing String next to Surface Casing):
 Cement Top (m) N/A Logged Estimated (from logs, tour reports)

Vent Flow Data:
 Flow Rate (m³/d) **0.07** Stabilized Build-up Press (kPa) **707** Duration (hrs) 8.25
 • Note: Maximum flow allowable is < 300 m³/d.
 • Maximum pressure allowable is 11 kPa/m * SC depth (if groundwater is covered) and 9.8 kPa/m * SC depth (if groundwater is not covered).

Groundwater Information:
 Depth of Usable Water Aquifers (m) **370.0** Nearest Water Well **< 1 km**

Comments:

Although the rate and pressure recorded are below the acceptable limits given by the ERCB, the flow may be re-classified as serious if the base of groundwater is not protected by the cement of the production casing string.

Tested By Field Data Company.

NR-Tec Analyst
SIGNATURE

**FAVORITE FIELD DATA COMPANY
SURFACE CASING VENT TEST FIELD DATA**

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PROLIFIC
100/01-01-001-01W1

	ELAPSED TIME		SURFACE CASING PRESSURE (kPa-ga)	PD METER READING (cu. ft.)	AS MEASURED GAS FLOW RATE (m3/d)	CORRECTED GAS FLOW RATE (m3/d @ STP)				
	SHUT-IN (hrs)	FLOWING (hrs)								
Surface Casing Vent found OPEN. The production casing pressure was recorded at 450 kPag (CLOSED). The tubing pressure was recorded at 325 kPag (CLOSED). Type of flow recorded: SWEET GAS. Rig in positive displacement (PD) meter and open flow through meter.										
		0.00		110986						
		27.25		110989	0.07	0.07				
Rig out PD meter. Rig in pressure recorder. Shut-in vent for buildup.										
		0.00								
		8.25	707							
Days to stabilization: 1 Rig out pressure recorder. Terminate test. Surface Casing Vent left OPEN.										
				<table border="1"> <tr> <td>Wellhead Assumptions</td> <td>93 Atm. (kPa)</td> </tr> <tr> <td>For Corrected Volume</td> <td>15.6 Degrees C.</td> </tr> </table>		Wellhead Assumptions	93 Atm. (kPa)	For Corrected Volume	15.6 Degrees C.	
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