



PRAIRIE PROVIDENT RESOURCES CANADA LTD.

**INSPECTION REPORT
JUNE 2022**

**CFOL FT LIARD L-68
LICENSE #: 1207**

Prepared by:

Clive Mountford, P. Eng.
Vertex Professional Services.

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1. Inspection Summary

- 1) The suspended well inspection was completed on June 16, 2022
- 2) Results were:
 - a. Vent Flow Test: Positive – Too many bubbles to count
 - b. Gas Migration Test: Negative
 - c. Wellhead Seals Test: 28 MPa for 10 minutes – Passed
 - d. Shut in Tubing Pressure: 22,999 KPa
 - e. Shut in Casing Pressure: 7991 KPa
 - f. Brush cleared in a 10 m radius around the wellhead
 - g. Wellhead greased and confirmed operation of all valves
 - h. New tapped bull plugs and gauges installed where necessary
 - i. Lock and chain re-installed
 - j. Pressure Tests:
 - i. Tubing: Not completed – Unable to bleed off pressure
 - ii. Annulus: 7.0 MPa pressure test for 10 minutes – Passed
- 3) Well issues: Surface casing vent flow and unable to pressure test casing
- 4) Inventory on location:
 - a. 42 swamp mats
 - b. 8 joints of casing
 - c. box of wellhead parts
- 5) Lease road and access
 - a. Completed a fly over of the lease road (video taken of fly over)
 - b. Minimal brush overgrowth evident
 - c. 3 bridges along route of the lease road (all appear in relatively good shape and are 100 Tonne bridges)
 - d. 10 km of road to location
 - e. Ditches cut in road to allow for drainage from one side of road to other (~30 ditches)

2. Well Data

License #: N1207

Elevations: KB: 737.0 m KB – GL: 14.0
 GL: 723.0 m
 PBTD: 4200 mKB
 T.D.: 4200 mKB

Conductor: 508.0 mm, 139.89 kg/m, S00-95 LT&C landed at 165.0 mKB
(Cemented to surface)

Surface Casing: 339.7 mm, 107.15 kg/m, S00-95 LT&C landed at 1424.0 mKB
(Cemented to surface)

Intermediate Csg: 244.5 mm, 64.7 kg/m, S00-95 LT&C landed at 3297.0 mKB
(ECP at 1358.0 mKB)

Liner: 177.8 mm, 38.69 kg/m, S00-95 LT&C landed at 4130.0 mKB.

Wellhead: 279.4 mm x 139.7 mm 69 MPa flowing style bonnet

Tubing: 114.3 mm, 20.1 kg/m, P-110 EUE tubing landed at 3899.25 mKB.
 10K WR plug set at 3339 m. Liner top packer set at 3235.0 mKB.

Perforations:

Exshaw	3351.0 – 3356.0 mKB (suspended)
Exshaw	3365.0 – 3370.0 mKB (suspended)
Upper Muskwa	3784.0 – 3789.0 mKB (suspended)
Upper Muskwa	3805.0 – 3810.0 mKB (suspended)
Lower Muskwa	3935.0 – 3940.0 mKB (suspended)
Lower Muskwa	3948.0 – 3953.0 mKB (suspended)
	4130.0 – 4580.0 mKB – open hole (suspended)
	4580.0 – 4726.0 mKB – open hole side-track (suspended)

Tubular Data:

	Surface Casing	Intermediate Casing	Liner	Tieback String
Size OD [mm]	339.7	244.5	177.8	139.7
Size ID [mm]	313.6	222.4	159.4	118.6
Weight [kg/m]	107.2	64.7	38.7	34.23
Grade	T-95	T-95	T-95	P-110
Drift [mm]	309.7	218.4	156.2	115.4
Capacity [m ³ /m]	0.0772	0.0388	0.0199	0.01105

Annular Capacity [m³/m]				
Collapse [MPa]	19.44	28.48	40.61	100.25
Burst [MPa]	44.06	541.1	59.29	100.18
Tension [1000 daN]	894.9	541.1	325.2	330.7

4.

OROGO

Inspection

Form

Version: February 9, 2017



WELL INSPECTION REPORT

INSTRUCTIONS:

1. Complete both pages.
2. Send one electronic copy of this form and supporting technical documentation by email to orogo@gov.nt.ca.
3. Send one signed hard copy of this form and supporting technical documentation by courier to:
 Chief Conservation Officer
 Office of the Regulator of Oil and Gas Operations
 4th floor Northwest Tower
 5201 50th Avenue
 Yellowknife NT X1A 3S9

WELL INFORMATION

Well Name: CFOL FT Liard L-68-60-20-123-45 2k-02

Coordinates: <i>(verify onsite)</i>	Lat: 60° 11' 34.7"	Long: 123° 31' 9.3"
	Datum: NAD83	

Well Operator: Prairie Provident Resources Status: Suspended
 Current Inspection Date: June 16 2022 WID: 1207
 Previous Inspection Date: August 31 2020 Completed in H₂S zone? No; % of H₂S:

EVALUATION

Site

Accessible for inspection and monitoring? Yes; Lease in good condition to land helicopter.
 Equipment or debris on site? Yes; Wellhead, 42 swamp mats, 8 joints of casing, box of wellhead equipment..
 Additional clean up required? No; Lease visually looks in good condition.
 Any environmental or safety concerns? (see Note 1) No; All appeared good.
 Number of photos attached? (required) 40 (wellhead, valves, signage and site area, other)

Wellhead

Wellhead accessible for inspection and monitoring? Yes; By helicopter in summer time.
 Brush cleared 10m around wellhead? Yes; No brush on location.
 Visible well marker in place? Yes; Hanging on wellhead and on matting at lease entrance.
 Wellhead chained and locked? Yes; With combination lock.
 Pumpjack secure? No; No pumpjack on location.
 Wellhead valves operate freely? Yes; Wellhead valves were greased.
 Surface casing vent open? No; In the closed position.
 Pressure test well head seal assembly? Yes; Pressure tested to 28 MPa.
 Pressure rating of all components: 69 MPa
 Wellhead schematic attached? (required) Yes; Attached with wellfile.



Version: February 9, 2017

SCVF / Gas Migration	
Evidence of SCVF? <i>Note 1</i>	Yes;
SCVF test conducted?	Yes; Too many bubbles to count.
Signs of gas migration outside surface casing? <i>Note 1</i>	No; Checked with IR soil gas monitor and had 0 ppm, no bubbles in water around wellhead.
Gas migration test conducted?	Yes; Conducted a IR soil gas monitor and had 0 ppm gas.
Well	
Does well contain tubing?	Yes; As per current schematic.
Does well contain pump and rods?	No; Flowing style wellhead.
Is there a packer/plug above the perfs?	Yes; 10K WR plug at 3339 mKB.
Are tapped bull plugs in place?	Yes; Tapped plug on tubing and casing inlets.
Shut in production casing pressure: <u>7991 kPa</u> <i>Note 2</i>	Shut in intermediate casing pressure: <u>0 kPa</u> <i>Note 2</i>
Shut in production tubing pressure: <u>23001 kPa</u> <i>Note 2</i>	
Include any other readings taken: (Use separate page(s) if needed) _____	
Note 1: As per Section 75 of the Oil and Gas Drilling and Production Regulations, it is the responsibility of the operator to notify OROGO of any pollution incident as soon as possible.	Note 2: Indicate any change in pressure since last inspection.

COMMENTS:

Well has a vent flow. Surface tanks are dry and piping reinstalled to them

"I certify on the basis of personal knowledge of operations undertaken at the above named well that the above information is accurate."

Name	<u>Dan Wentworth</u>	Phone	<u>(780) 872-1019 Ext</u>
Title	<u>Wellsite Supervisor</u>	E-Mail	<u>dan.went@wentworthoilfield.ca</u>
Operator	<u>Prairie Provident Resources</u>	Inspected by	<u>Dan Wentworth</u>
Signature	_____	Date	_____
	<i>Responsible Officer of Company</i>		

5. Surface Casing Vent Flow Test Report



Surface Casing Vent Flow/ Gas Migration Data Sheet

You must complete a separate form for each well and submit the form to the appropriate AER Area Office. The Well Abandonment Guide comes with a pad of additional data sheets; more copies are available from AER Information Services.

The licensee certifies that the information on this sheet is correct and that the vent flow or gas migration repair will be done according to regulatory requirements or as directed by the AER.

Day / Month / Year
16/06/2022

YOUR FILE NUMBER

1. GENERAL INFORMATION AND CERTIFICATION

LICENSEE	COMPANY NAME	Prairie Provident Resources Canada Ltd.		LICENSEE CODE	
AGENT	COMPANY NAME	N/A <input type="checkbox"/>		AGENT CODE	
CONSULTANT	COMPANY NAME	Vertex Professional Services		CONSULTANT CODE	
CONTACT PERSON	LAST NAME	Wentworth		FIRST NAME	Dan
	BUSINESS	FAX		EMAIL	gov@vertex.ca
TELEPHONE	403-206-9762				

2. WELL TEST INFORMATION

LICENSE NO.:	UNIQUE IDENTIFIER:					DATE TESTED
	LE	LSD	SEC	TWP	RGE	M
L-68						
						Day / Month / Year
						16/06/2022

3. SURFACE CASING VENT FLOW TEST DATA

3.1 Vent flow Exist YES NO 3.2 Test Type (e.g., bubble test, other):

If YES, complete the rest of this section.

3.3 Type of Flow: Gas Oil Salt Water Other (please specify): Conducted 10 min bubble test on SCV. Negative test - too many bubbles to count

The flow is: Sweet Sour

3.4 Casing Information:

Surface Casing	Depth: 1424.0 m	Size: 339.7 mm	Grade: P-110	Weight: 107.24 kg/m3
Production Casing	Depth: 3297.0 m	Size: 244.5 mm	Grade: S00-95	Weight: 64.7 kg/m3

3.5 Cementing Details:

Cement Top 0 m Logged: YES NO Estimated (from logs, tour reports) YES NO

Describe cementing detail (e.g., type, blend, specifications):

Surface Casing: Cemented to surface
Production Casing: ECP at 1358 mKB

3.6 Vent Flow Data:

Leak-off Pressure Gradient kPa/m Flow Rate: m3/d (if flow not measured, fill in TSM. [too small to measure])

Stabilized Build-up Pressure 3300 kPa/m Duration: hrs.

Source of Flow m (depth)

Determined by (log type, etc.)

3.6 Groundwater Information:

Depth of Usable Water Aquifers 600 m Nearest Water Well N/A km

Tested by Dan Wentworth 

PLEASE PRINT NAME SIGNATURE

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Copyright Alliance Borealis Canada Corp. Subscribers are free to customize and distribute this content for use only in their operations. Content must not be redistributed for a profit. Subscribers are responsible for verifying regulatory requirements.

6. Gas Migration Test Report

General Information and Certification

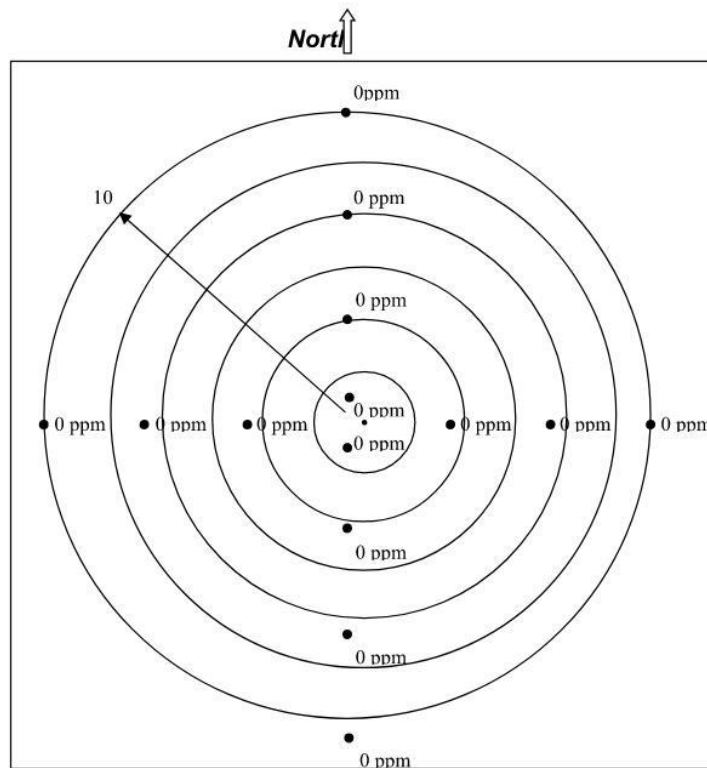
Licensee: **Prairie Provident Resources Canada Ltd.**
Agent: Vertex Professional Services
Consultant: Dan Wentworth
Contact Person: Clive Mountford
Phone Number: (403) 999-5606
Fax Number:


Well Test Information

License Number: Unique Identifier: Date Tested:

Soil Gas Survey Data

The center dot in the diagram represents the wellbore / casing. NOTE: samples were taken EVERY METER OUTWARDS to 10 m.



		VERTEX PROFESSIONAL SERVICES DAILY RECORD		Abandonment
WELL:	<u>CFOL FT Liard L-68-60-20-123-45</u>	DATE OF OPERATIONS:	<u>17-Jun-22</u>	
UWI:	<u>L-68-60-20-123-45</u>	AFE / JOB NO.:	<u>2288063</u>	
OBJECTIVE:	<u>Final Well Abandonment</u>	DAY NO.:	<u>3</u>	
FORMATION:	<u>Eckshaw</u>	PERFORATIONS:	<u>3351.0 - 3356.0 mKB, 3365.0 - 3370.0 mKB (suspended)</u>	
FORMATION:	<u>Upper Muskwa</u>	PERFORATIONS:	<u>3784.0 - 3789.0 mKB, 3805.0 - 3810.0 mKB (suspended)</u>	
FORMATION:	<u>Lower Muskwa</u>	PERFORATIONS:	<u>3935.0 - 3940.0 mKB, 3948.0 - 3953.0 mKB (suspended)</u>	
FORMATION:	<u>Open hole</u>	PERFORATIONS:	<u>4130.0 - 4580.0 mKB, side track 4580.0 - 4726.0 mKB (suspended)</u>	
DESCRIPTION OF OPERATIONS CONDUCTED				
Drove back to Grande Prairie Alberta to drop of gas migration tester and then onto Slave Lake Alberta.		COST SUMMARY		
		Description	Code	Amount
		Location		
		Service Rig		
		Coiled Tubing		
		Cementing		
		Stimulation		
		Snubbing		
		Fishing		
		Boiler / Steamer		
		Safety		
		Production Testing		
		Wellhead Equipment		
		Service Trucks		
		Fluids & Materials		
Wireline / Slickline				
Equipment Rental				
Downhole Equipment				
Artificial Lift				
Supervision & Engineering		1772		
Misc Services				
Safety Tracking	Today	Cumulative		
Workers Oriented				
Contractor Hours Worked			5	
Supervisor Hours Worked	8		24	
Kilometers Driven	510		1120	
OPERATION PLANNED FOR: <u>18-Jun-22</u>				
CONTRACTOR: _____ RIG NO: _____		WEATHER: _____ TEMP °C HI / LO: _____		
FORMATION		DAILY COST:	\$ 1,772	
FLUID TYPE:	Fresh H ₂ O Produced H ₂ O Produced oil	PREVIOUS COST:	\$ 4,867	
FLUID PUMPED TODAY (m ³):		TOTAL COST TO DATE:	\$ 6,639	
CUMMULATIVE FLUID PUMPED (m ³):		AFE ESTIMATE:	\$ -	
NON REC. ANNULAR FLUID (m ³):		WELLSITE SUPERVISOR	REPORT TAKEN BY	
FLUID RECOVERED TODAY (m ³):		Dan Wentworth	Clive Mountford	
FLUID LEFT TO RECOVER (m ³):		780-872-1019	cmountford@vertex.ca	

V3.02

6. Pictures



Flyover Pre-Inspection



Lease Sign



Wellhead



Pictures Facing Away From Wellhead In All 4 Directions





Pictures Facing Wellhead From Lease Edges



Picture Of Stored Spool



Picture Of Stored Matting