

Pauline de Jong  
Regulator  
Office of the Regulator of Oil and Gas Operations  
PO Box 1320, Yellowknife, NWT X1A 2L9

February 27, 2026

Dear Pauline de Jong:

**Re: Information Request No. 8, South Pointed Mountain L-68 Well Abandonment (ACW-2021-PPR-L-68-WID1207) – Prairie Provident Resources**

In response to your request, please refer to the pages below which will help to explain your question of “Any data Prairie Provident Resources Canada Ltd (PPR) may have to identify whether the gas encountered at the surface casing vent is a surface casing vent flow or an intermediate casing vent flow”.

Page 3 refers shows the original drilling operations summary report. On 82-04-09 it states the 508 mm surface casing was cemented with 100% returns at 165 m. On 82-06-07, at 1424 m, the 339.7mm Intermediate casing was run to depth and cemented with full returns.

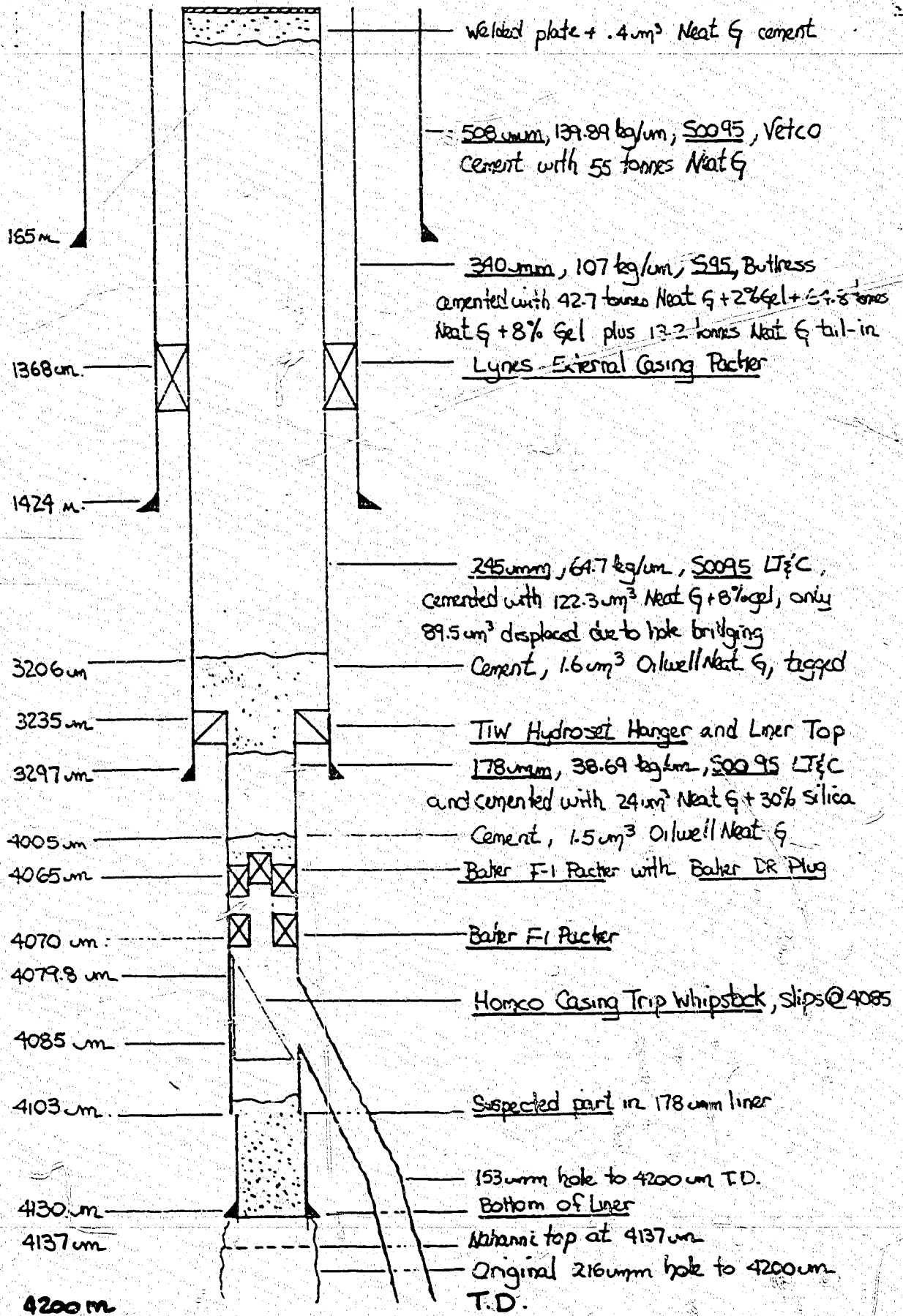
Skipping ahead to Pg 7, this is the daily operations report from the Re-entry in 2011. The report date is 08/25/2011 and it states at 07:30 during operations to remove the cap from the previous cut and cap operation that the 339mm was at surface with cement to surface. It also states that the 244 mm casing was not found. A 339 mm casing extension was then welded onto the existing 339 mm stump and then the casing bowl was attached to that casing stick up. Attached to the casing bowl is the vent, that is commonly called the surface casing vent. In this case, it is part of the casing bowl attached to the 339.7 mm Intermediate casing, making the annulus between the 339.7 mm Intermediate and the 244.5 Production casing ‘the surface casing vent’.

Referring to the last page is a Gas Analysis that OROGO has seen before. This Carbon Isotope Analysis states that surface casing gas that was collected in 2021, is a ‘deep overmature thermogenic gas, typical of the Nahani’. During Noise Log operations on 2/26/2026 stops were conducted over 70 stations from just above the Liner Top Packer at 3217 m to 50 m. There was noise detected at every station consistent with a clear gas path to surface. A gas pathway from so deep in the wellbore to surface is high unusual, however it has occurred in the past.

All of the information above proves that the gas from the ‘surface casing vent’ is coming from deep in the wellbore. The current casing bowl and casing head set-up is unorthodox, but changes like this can arise when the well has been dug up and re-entered as in this case.

Jeremy Sadleir, P.L. (Eng)

III General Well Data : Ramoco Pointed Mountain D-1 Status as of 82/04/11



IV Arioco Pointed D-1; Drilling Operation Summary and Highlights, 1982

- 82-02-06: Construction of lease and road begins.
- 82-03-09: Rig move to lease.
- 82-03-25: Spud well at 0930 hours. Drilling 445 mm pilot hole.
- 82-03-31: Finish drilling 445 mm pilot hole to 189 m. Open hole to 660 mm.
- 82-04-09: 660 mm hole opened to 165 m. Run 508 mm casing to 165 m. Cement with 55 tonnes Oilwell Neat G cement. 100% returns.
- 82-04-12: Rig up diverter, test to 3 500 kPa x 15 minutes. Drill out cement and begin drilling 445 mm hole.
- 82-04-21: Encountered drilling break at 577 m. Fresh water kick from formation. Controlled with 1 184 kg/m<sup>3</sup> mud, drilling resumes with 1 200 kg/m<sup>3</sup> mud.
- 82-05-14: Convert mud system to fresh formation water. Depth 1 065 m.
- 82-05-20: Sour gas bubbling to surface, convert mud system back to gel-benex mud, density 1 200 kg/m<sup>3</sup>. Depth 1 227 m.
- 82-06-07: Depth 1 424 m. Run 340 mm casing, 107 kg/m. Cement with 42.7 tonnes Class "G" + 2% gel, 64.8 tonnes Class "G" +8% gel and 13.2 tonnes Class "G" tail in. Full returns.
- 82-06-13: Nipple up BOP's. Test to 31 000 kPa for 15 minutes. Drill out cement for 311 mm hole. Perform leakoff test, surface pressure 12 400 kPa with 1 150 kg/m<sup>3</sup> mud at 1 434 m. Frac Gradient of 19.9 kPa/m. Resume drilling 311 mm hole.

- 82-06-15: Encountering slight deviation problems at 1 519 m. Inclination of  $5\ 1/4^\circ$ . Add stabilizers to BHA and reduce WOB to combat angle building.
- 82-07-05: Depth 2 373 m. Encountering severe gas cutting in mud. Combat by increasing mud weight to 1 150 kg/m<sup>3</sup> diverting mud through poorboy degasser and drilling with a 1.5 m flare.
- 82-07-11: Gas kick at 2 679 m with 1 125 kg/m<sup>3</sup> mud, 7.5 m<sup>3</sup>/45min pit gain. SICP 3 800 kPa, SIDP 1 000 kPa. Circulate out kick with 1 140 kg/m<sup>3</sup> mud.
- 82-07-24: Deviation off scale on recording device, greater than  $8^\circ$  inclination. RIH with strong dropping BHA.
- 82-07-29: Reach casing point of 3 297 mKB. Hole suffering from severely sloughing shales. Try and condition hole for logging.
- 82-08-08: Logging program waived by government due to hole problems. Run 245 mm, 64.7 kg/m, S0095 casing to 3 297 m, with a Lynes External Casing Packer at 1 367.82 m. Cement with 122.3 m<sup>3</sup> neat G +8% gel, hole bridged off after 89.5 m<sup>3</sup> displaced. ECP is set and 32.8 m<sup>3</sup> cement left in casing.
- 82-08-10: Cement top at 2 434 m, drill out cement to 3 285 m. Run gyro-survey and cased hole logs.
- 82-08-14: Drill out shoe and drill 216 mm hole.
- 82-09-05: Drill to T.D. of 4 200 m, run multishot survey. Log.
- 82-09-13: Run 177.8 mm liner, hang at 3 234.88 m and land at 4 130 mKB. Cement with 24 m<sup>3</sup> Class "G" cement plus 30% Silica flour. Received 2.3 m<sup>3</sup> cement returns at surface.

82-09-16: While drilling out cement, could not get by 4 103 mKB.  
Parted liner suspected. Attempt milling through.

82-10-01: Whipstocking tool set at 4 083.6 m. Window cut in liner at  
4 078.89 m.

82-10-12: Reach T.D. of 4 200 m with 153 mm bit.



# Daily Report

Report # 2, Report Date: 8/25/2011  
Job Type: Re-Entry

Well Name: CFOL FT LIARD L-68-60-20-123-45

Well Header						
API/UWI N1207	Field Name POINTED MOUNTAIN	Business Unit	Orig KB Elev (m... 737.0	Gr Elev (mKB) 723.0	KB-Grd (m) 14.00	TD (mKB) 4,200.0
State/Province NT	County	FOC WI (%)	NRI (%)	Foreman		
Contact Name		Title		Role		

Plug Back Total Depths			
Date	Depth (mKB)	Type	Method

AFE Summary			
AFE Number 1183031	AFE + Supp Amount (Cost) 9,358,000.00	Field Est (Cost) 13,630,582.00	AFE-Field Estimate (Cost) -4,272,582.00

Daily Operations			
Date From: 8/25/2011 - Date To: 8/26/2011			
Operations at Report Time		Tubing Pressure (kPa)	Casing Pressure (kPa)

Operations Summary  
Wait on daylight, no flow or pressure at well when arrived on site. Test for LEL's, cut conductor, cut 508mm csg, cut cap. Cement observed, discuss plan with Calgary, install csg bowl and NU BOP's. Levelled area for water tank. Pressure test blind rams, spot rig and rig up same.

Proposed Activity 24hrs  
Continue to rig up, pressure test BOP's. Drill pilot hole through cement inside 339mm csg to ensure no pressure at surface.

Daily Status	AFE Number	Total AFE Amount (Cost)	Supp Amt (Cost)	Daily Field Est Total (Cost)	Cumulative Cost (Cost)
2. Completion	1183031	9,358,000		192,113	829,721

Objective	Target Formation
Test	

Job Contact	Position
Rory Newton	

Daily Costs					
Cost Des	Code 1	Code 3	Vendor	Note	Field Est (Cost)
TRUCKING	07	COMPLETION	Bert Baxter Transport	Daily cost of bed truck and picker truck used for BOPs and unload equipment at site	14,784.00
SAFETY SERVICES AND EQUIPMENT	07	COMPLETION	Newcart Safety Services Ltd	Ongoing safety services - \$1500/day for D/N shift, \$200 for trucks, \$400/light plants, + misc	2,550.00
SAFETY SERVICES AND EQUIPMENT	07	COMPLETION	Robert James Medic Group	\$2200/ ETV with 2 x medics, 1 x paramedic	2,200.00
TRUCKING	07	COMPLETION	Formula Powell LP	Charges for bed-truck use	4,500.00
EQUIPMENT RENTALS	07	COMPLETION	Weatherford	Rental equipment for drill out of surface plug (collars, power swivel, handling equip)	0.00
PRODUCTION TESTING	07	COMPLETION	Spike Production Services	Production testing services	3,600.00
EQUIPMENT RENTALS	07	COMPLETION	McClelland Oilfield Rentals	5 day min on McClelland rental BOP stack	0.00
SERVICE RIG	07	COMPLETION	CWC Well Services	Daily rig charges	17,825.00
SUPERVISION & CONSULTANTS	07	COMPLETION	Barlon Engineering Group	Rory Newton - Wellsite Supervision	1,600.00
SNUBBING / CTU / HOT OILER	07	COMPLETION	CWC Snubbing	Estimated charges for snubbing crew and equipment	7,100.00
CAMP AND CATERING	07	COMPLETION	Acho Camps and Catering	Estimated daily camp charges	6,000.00
TRUCKING	07	COMPLETION	Radar Road Transport	Estimated tow-cat services, \$2000/day	2,000.00
MISCELLANEOUS EQUIPMENT	07	COMPLETION	Great Slave Helicopters	Estimated charges for helicopter services	7,030.00
TRUCKING	07	COMPLETION	Hope's Ventures	Estimated charges for jet-boat services	1,500.00
LABOUR	07	COMPLETION	Long Bow Pipe and Tap	Demob welder charges - Aug 25	2,740.00
LABOUR	07	COMPLETION	Long Bow Pipe and Tap	Standby welding charges - Aug 19-23	11,650.00
LABOUR	07	COMPLETION	Long Bow Pipe and Tap	Welding charges for hot-tap - Aug 24	4,975.00
MISCELLANEOUS EQUIPMENT	07	COMPLETION	Ardy Rigging Ltd	Casing jack services to date - Aug 20 to 25th. Truck left on location for future work.	49,100.00
SERVICE RIG	07	COMPLETION	Allrite Anchors	Install rig and grounding anchors, 5 in total - Aug 25	4,705.00
WELLHEAD EQUIPMENT	07	COMPLETION	StreamFlo Industries	Dayrate from Aug 19 to 26th. Install StreamFlo csg bowl, tubing spool, backpressure valve.	18,945.00



# Daily Report

Report # 2, Report Date: 8/25/2011  
Job Type: Re-Entry

Well Name: CFOL FT LIARD L-68-60-20-123-45

Cost Des	Code 1	Code 3	Vendor	Note	Field Est (Cost)
TRUCKING	07	COMPLETION	Mykyte Transportation	Trucking charges for Weatherford equipment from Nisku and GP to site	9,009.00
TRUCKING	07	COMPLETION	RyTy Developments	Operating rate for Nodwell - 12 hrs	20,300.00

From	To	HRS. (hr)	Sum HRS (hr)	CODE	SUB CODE	Description OP
06:00	07:00	1.00	1.00	CT	FT	Wait on daylight, continue to monitor well for pressure and flow. Travel to location.
07:00	07:30	0.50	1.50	C	JSA	Arrive on location, held safety meeting to discuss planned operations. Orientate new personnel on location including CWC Well Service hands.
07:30	09:30	2.00	3.50	C	WH	Cut conductor and remove same. Cut 508mm casing and remove same. Cut cap off 339mm casing, cement at surface, no signs of 244mm casing. Stop work, discuss plan forward with Calgary.
09:30	09:45	0.25	3.75	C	JSA	Stop work. Discuss go-forward plan with workers on site.
09:45	16:00	6.25	10.00	C	WH	Prep 339mm casing for extension. Lift 339mm casing extension into place and weld on same. Cut 339mm casing for clamp-on wellhead bowl. Prep cut for bowl and install same. Test between seals for 3 and 15min at 4000psi. Both tests passed. Install tubing spool, tighten all studs, install hanger and back pressure valve. Install master valve above tubing spool. Leveled area for water tank while working on wellhead. Released welder, casing jacks, wellhead truck.
16:00	20:00	4.00	14.00	CT	WO	Wait on picker truck to NU BOP's (did not make 1st barge)
20:00	22:00	2.00	16.00	C	MO	Unload 2 x 400bbl tanks and man-lift with bed truck. Use loader to move wellhead crates away from well center.
22:00	01:00	3.00	19.00	C	BO	Picker arrive on location, unload double gates and annular. Remove back pressure valve and install 3.5" bull plug in tubing hanger. Lift double gate onto tubing spool. Lift annular onto double gate. Tighten BOP studs.
01:00	03:30	2.50	21.50	C	MO	Unload pipe racks, rig stairs, rig matting, 2 x light plants, rig catwalk with picker truck. Spot rig matting. Install accumulator hoses to BOP.
03:30	04:00	0.50	22.00	C	BO	Pressure test blind rams, low of 1000kPa, high of 45000kPa for 10min each.
04:00	06:00	2.00	24.00	C	RU	Spot rig and rig up same. Raise mast and continue to rig up.

Date	Top Depth (mKB)	Bottom Depth (mKB)	Zone	# of Perfs
9/5/2011	3,351.00	3,356.00		
Comment 25 gram charges, salt and pepper				
9/5/2011	3,365.00	3,370.00		
Comment 25 gram charges, salt and pepper				
9/4/2011	3,784.00	3,789.00		
Comment 25 gram charges, salt and pepper				
9/4/2011	3,805.00	3,810.00		
Comment 25 gram charges, salt and pepper				
9/4/2011	3,935.00	3,940.00		
Comment 25 gram charges, salt and pepper				
9/4/2011	3,948.00	3,953.00		
Comment 25 gram charges, salt and pepper				



COMPANY Prairie Provident Resources Canada Ltd.  
SAMPLE L-68-60-20-123-45-2k-02  
PROJECT Carbon Isotope Analysis

PAGE 1  
FILE 202006734  
DATE 6-Jan-21

### **Introduction**

A Gas sample from L-68-60-20-123-45-2K-02 was received at Core Lab Calgary as described below. The sample was analyzed for composition to C7+ (on separate report) and then undergone Carbon Isotope Analysis.

### **Sample Description**

Sample: L-68-60-20-123-45-2K-02  
Sample Point: Surface Casing Vent  
Location: L-68-60-20-123-45-2K-02

Date Sampled: 07-Dec-20 @ 10:50 Hrs  
Date Received: 11-Dec-20  
Date Analyzed: 02-Jan-21

### **Results**

Carbon Isotope Analysis\*

Sample ID	Sample Point	$\delta^{13}\text{C C}_1$	$\delta^{13}\text{C C}_2$	$\delta^{13}\text{C C}_3$	$\delta^{13}\text{C i-C}_4$	$\delta^{13}\text{C i-C}_5$	$\delta^{13}\text{C n-C}_5$
L-68-60-20-123-45-2K-02	Surface Casing Vent	-28.04	-29.84	-24.45	-25.07	-23.51	-24.48

This is a deep overmature thermogenic gas, typical of the Nahani.

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\*Carbon Isotope Analysis and interpretation were performed by Dr. Karlis Muehlenbachs; IISOKM Geochemical Consultants Ltd.