



Alvarez & Marsal Canada ULC
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May 19, 2020

Government of the Northwest Territories
Office of the Regulator of Oil and Gas Operations (OROGO)
P.O. Box 1320, Yellowknife, NT X1A 2L9

Attention: Pauline de Jong, Chief Conservation Officer

Via Email: orogo@gov.nt.ca

Well Operations Report – Cameron Hills I-73 Well (ACW-2019-003-SOG-I-73-WID1937)

In response to OROGO's Letter dated May 19, 2020. Alvarez & Marsal Canada ULC response dated May 19, 2020 hereby provides OROGO with the following requested information:

This cover letter and the affiliated well operations reporting for operations conducted to suspend the subject well, including; A summary of well operations, daily operation reports and a current well diagram. In separate attachments are the Cement Bond Log and interpretation documents.

We trust the foregoing to be in order however, should you require additional information, please contact the undersigned at mbujold@energyworks.management or 403.606.4220.

Sincerely, on behalf of Alvarez & Marsal Canada ULC

A handwritten signature in blue ink, appearing to read 'Maurice Bujold', written over a horizontal line.

Maurice Bujold

VP, Completions, Energy Works Management

cc. Orest Knonwalchuk, Managing Director, A&M
Viki Chan, Vice President, Alvarez & Marsal Canada ULC
Sean David, Sr. Completions Engineer, Energy Works Management

Encl.



Well Suspension Summary
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA				
NAME	LICENSE #	COST CENTRE	UWI	LOCATION
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W	1937			Cameron Hills NT, Canada
COMPLETIONS DETAIL				
COMPLETIONS TYPE	START DATE	FINISH DATE	OBJECTIVE	
Standing Cased	2020-02-29	2020-03-15	Well Suspension, Surface casing sour gas leak	
JOB SUMMARY				
Suspend Well, repair wellhead seals which were path of surface casing sour gas leak.				

DRILLING DATA						
DRILLING GENERAL						
EVENT	DRILLING START	SPUD DATE	RELEASE DATE			
Drilling						
SURFACE HOLE						
NTS POINT	COORDINATES		LATITUDE	LONGITUDE		
	- by -		0.00000000	0.00000000		
WELLSBORES						
Original Hole						
START	END					
-	-					
BOTTOM POINT	COORDINATES		LATITUDE	LONGITUDE		
	0.00 m by 0.00 m		0.00000000	0.00000000		
UWI						
KICKOFF	HEEL	PROJECTED	MEASURED	TVD	LOGGER	
-	0.00 m	0.00 m	0.00 m	1,635.00 m	0.00 m	
DRILLING ELEVATIONS						
SURVEYED	CUT / FILL	GROUND	KB > GROUND	KB	CF > GROUND	CF
774.80 m	0.00 m	774.80 m	4.50 m	779.30 m	0.00 m	774.80 m
BRIDGE PLUG						
MANUFACTURER	MODEL		SET DEPTH	BACK DEPTH		
			-	-		
CASING BOWL						
TYPE	MAKE		SERIAL #	CASING SIZE		
WORK PRESSURE	WEIGHT LANDED		NOMINAL SIZE	SLIP & SEAL ASSM		
			-			

WELL SUSPENSION DETAILS						
ELEVATIONS					BOTTOM HOLE	
GROUND	KB > GROUND	KB	CF > GROUND	CF	ESTIMATED TEMP	ESTIMATED PRESS
774.80 m	4.50 m	779.30 m	0.00 m	774.80 m	-	-
TH > GROUND	KB > TH	DH > GROUND	KB > DH		ESTIMATED H2S	ESTIMATED CO2
0.00 m	4.50 m	0.00 m	4.50 m		-	-
COMPLETIONS RIGS					DAILY STATISTICS	
CONTRACTOR	#	START	RELEASE		TOTAL RENTALS	RIG TIME
Percision Well Servicing	845	2020-03-29			-	0.00 hr
FLUIDS					MAN HOURS	% COMPLETE
FLUID	TANK	TO WELL	FROM WELL	IN WELL	0.00 hr	0.00%
LOAD FLUID		0.00 m³		0.00 m³		
Fresh ground water	21.10 m³	42.50 m³	-	42.50 m³		
potable water	22.50 m³	-	-	0.00 m³		
TOTAL		42.50 m³	0.00 m³			
RECENT DAILY OPERATIONS - 2020-03-15						
DAILY STATUS						
Pressure test primary and secondary well head seals						
24 HOUR SUMMARY						
Repair wellhead Seal and pressure test seals						



Well Suspension Summary
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

NEXT 24 HOURS



STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W - Well Suspension Daily Reports
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA				
NAME	LICENSE #	LOCATION	EVENT	AFE NUMBER
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W	1937	Cameron Hills NT, Canada	Well Suspension	20EWM-AB-001
COMPLETION TYPE	START DATE	END DATE	OBJECTIVE	
Standing Cased	2020-02-29	2020-03-15	Well Suspension, Surface casing sour gas leak	
COMPLETIONS DAILY REPORTS				
DATE	SUMMARY			
2020-02-29	Rig and Well site Supervisors travel and reached High Level			
2020-03-01	Move Equipment from High Level to Cameron Hills, held safety meeting and spot equipment			
2020-03-02	Rig up, orientation, man down drill, inspections, and ERP table top exercise			
2020-03-03	Bleed off well, Kill well, pressure test well head seal, stump test BOPs, install BOPs, POOH, Run in w/bridge and set as programed POOH.			
2020-03-04	POOH with scraper, Run in with 177.8 mm bridge plug and set, Pressure test casing, POOH remove setting tool RIH open ended spot cement, POOH laying down tubing, Log casing			
2020-03-05	Finish logging, confirmed cement top, rig out, move rig to J62			
2020-03-06	Perform Bubble test on surface casing vent, no SCVF exists			
2020-03-13	Inhibit and winterize casing			
2020-03-15	Repair wellhead Seal and pressure test seals			



Daily Well Suspension Report - 2020-03-15 - Day #9
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA							
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$
1937			Well Suspension		20EWM-AB-001		
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS		TOTAL MAN HOURS
2020-03-15	-	-	0.00 hr		-		0.00 hr
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE		TUBING PRESSURE
1.00 hr	0.00 hr	-	0.00 e³m³		-		-
DAILY OPERATIONS					WEATHER		
DAILY STATUS Pressure test primary and secondary well head seals 24 HOUR SUMMARY Repair wellhead Seal and pressure test seals NEXT 24 HOURS					GENERAL		
					-		
					ROAD CONDITION		
					-		
					TIME	TEMP	
					-		
TIME LOG							
FROM	TO	DUR	NPT CODE	DETAILS			
09:00	10:00	1.0 h		Held pre-job safety meeting with Stream flow crew issued work permit. Tied in pressure test equipment injected 1 tube of artic sealant in to seals pressure test to 14 mpa closed needle valve held 14 mpa for 15 min bled off pressure secured well. Released stream Flow			
DAILY FLUIDS							
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING
			TO	FROM	TO	FROM	TANK
"Fresh ground water							
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	72.60 m³	9.00 m³	42.50 m³	0.00 m³
						21.10 m³	42.50 m³
"potable water							
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	22.50 m³	0.00 m³	0.00 m³	22.50 m³
							0.00 m³



Daily Well Suspension Report - 2020-03-13 - Day #8
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA								
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$	
1937			Well Suspension		20EWM-AB-001			
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS		
2020-03-13	-	-	0.00 hr		-	0.00 hr		
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE		
1.00 hr	0.00 hr	-	0.00 e³m³		-	-		
DAILY OPERATIONS					WEATHER			
DAILY STATUS Inhibit and winterize casing 24 HOUR SUMMARY Inhibit and winterize casing NEXT 24 HOURS					GENERAL			
					Clear sky			
					ROAD CONDITION			
					Winter roads good shape			
					TIME			TEMP
					08:00	30°C		
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
10:30	11:30	1.0 h		Held safety meeting, review hazards MSDS of CPF-119WT PPE requirements pressures and pump fill rates. SICIP 0 Loaded 140 liters of PureChem CPF-119WT inhibitor and 100 liters 50/50 methanol water mixed filled casing pressured up to 200 kpa bled off pressure to 0 secured well head chained and locked masters and casing valves.				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"Fresh ground water"								
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	72.60 m³	9.00 m³	42.50 m³	0.00 m³	21.10 m³
"potable water"								
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³



Daily Well Suspension Report - 2020-03-06 - Day #7
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA								
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$	
1937			Well Suspension		20EWM-AB-001			
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME	MAN HOURS	TOTAL MAN HOURS			
2020-03-06	-	-	0.00 hr	-	0.00 hr			
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE	CASING PRESSURE	TUBING PRESSURE			
0.75 hr	0.00 hr	-	0.00 e³m³	-	-			
DAILY OPERATIONS					WEATHER			
DAILY STATUS Zonal abandonment complete 24 HOUR SUMMARY Perform Bubble test on surface casing vent, no SCVF exists NEXT 24 HOURS					GENERAL			
					-			
					ROAD CONDITION			
					-			
					TIME	TEMP		
					-			
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
13:15	14:00	0.75 h		Travel to location and perform 10 minute Bubble test on SCV = Zero bubbles and Zero LEL's. Travel back to J-62				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"Fresh ground water								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	72.60 m³	9.00 m³	42.50 m³	0.00 m³	21.10 m³	42.50 m³
"potable water								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³	0.00 m³



Daily Well Suspension Report - 2020-03-05 - Day #6
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA								
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$	
1937			Well Suspension		20EWM-AB-001			
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE		RIG TIME		TOTAL RIG TIME		MAN HOURS	
2020-03-05	-		-		0.00 hr		-	
TOTAL TIME	NON-PRODUCTIVE		FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE	
7.00 hr	0.00 hr		-		0.00 e³m³		-	
DAILY OPERATIONS						WEATHER		
DAILY STATUS Logging Casing, Rig out and move to J 62 24 HOUR SUMMARY Finish logging, confirmed cement top, rig out, move rig to J62 NEXT 24 HOURS						GENERAL		
						Overcast		
						ROAD CONDITION		
						Good		
						TIME		TEMP
00:00		31°C						
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
00:00	02:30	2.5 h		Continued pulling CBL logged from surface to 1360.0 mkb and 1360 to surface Rigged out wire line. Field est cement to @ 260 mKB				
02:30	05:30	3.0 h		Rigged out work floor removed BOP's installed well head secured the well, rigged out pump and lines accumulator line and support equipment for morning move. Moved rig to J-62				
05:30	06:30	1.0 h		Move rig to J - 62				
06:30	07:00	0.5 h		Continue to ready support equipment to move crew change				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"Fresh ground water								
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	72.60 m³	9.00 m³	42.50 m³	0.00 m³	21.10 m³
"potable water								
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³



Daily Well Suspension Report - 2020-03-04 - Day #5
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA								
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$	
1937			Well Suspension		20EWM-AB-001			
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE		RIG TIME		TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS
2020-03-04	-		-		0.00 hr		-	0.00 hr
TOTAL TIME	NON-PRODUCTIVE		FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE
24.25 hr	0.00 hr		-		0.00 e³m³		-	-
DAILY OPERATIONS						WEATHER		
DAILY STATUS 24 HOUR SUMMARY POOH with scraper, Run in with 177.8 mm bridge plug and set, Pressure test casing, POOH remove setting tool RIH open ended spot cement, POOH laying down tubing, Log casing NEXT 24 HOURS Rig out and move to J 62						GENERAL		
						Clear with light north wind		
						ROAD CONDITION		
						Good		
						TIME	TEMP	
06:00	-20°C							
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
00:00	02:30	2.5 h		Crew lunch brake Pulled out of the hole standing 73 mm tubing in the mast secured the well.				
02:30	07:00	4.5 h		Made up bridge plug Koppe 10 k bridge held operation meeting on trip speed in continued in the hole marked collars at 1379.4 mkb 1366.0 mkb and lowered down mark collar at 1392.9, we could not mark the collar at 1392.9 m, pulled up and marked collar at 1379.4 mKB metered in hole spotting and bridge plug C.E @ 1390.0 mKB, Tied in pump line to tubing filled tubing to set the plug.				
07:00	07:15	0.25 h		Hold operational safety meeting and issue safe work permit. Crew Change and hand over				
07:15	08:00	0.75 h		Continue to fill annular pumping 12.5 m3 fresh water until full.				
08:00	08:15	0.25 h		Pressure test Permanent Bridge plug and CSG to 7 mPa. Good solid test for 10 min. Zero bleed off. SCV was monitored during test and there was no communication or flow				
08:00	10:45	2.75 h		Rotate off and release bridge plug. POOH racking TBG in derrick. Lay down tools and break down.				
10:45	11:00	0.25 h		Coffee break and warm up workers				
11:00	19:00	8.0 h		Run in hole with TBG string to 1386 mKB. Batch mix 0.42 m3 of Oilwell class G Cement (24 bags) and pour into TBG. Pump 4.0 m3 fresh water down TBG to displace cement. Pull 2 pup joints and 4 joints out of hole - TBG bottom @ 1341 mKB. Cement top 1370 mKB. Back wash TBG pumping 6 m3 fresh water. Forward circulate 24 m3 POOH with TBG laying down on ground. Testers to rig out lines				
19:00	19:15	0.25 h		Held operation safety meeting with all personnel and issue safe work permit, Crew hand over				
19:15	21:15	2.0 h		Continued pulling 73 mm tubing out of the hole laying on the ground secured well cleared work, Rigged in Voltage E line to run GR-CBL, Held operations meeting with all personal issue safe work permit.				
21:15	23:30	2.25 h		Picked up CBL tools and before starting in the hole the tools quit responding to the computers, Laid down tools cut and retie cable head, connected to logging tools still no response from the tools, Cut cable pulled off 300 m of line retied cable head connected to logging tools and good response to the truck.				
23:30	00:00	0.5 h		Picked up logging tools start in the hole with GR-CBL tool.				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"Fresh ground water								
					12.50 m³		-1.90 m³	42.50 m³
		Lake 34 Rig Tank	23.00 m³				21.10 m³	42.50 m³
		TODAY	23.00 m³	0.00 m³	12.50 m³	0.00 m³	10.50 m³	12.50 m³
		RUNNING	72.60 m³	9.00 m³	42.50 m³	0.00 m³	21.10 m³	42.50 m³
"potable water								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³	0.00 m³

WELL DATA									
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$		
1937			Well Suspension		20EWM-AB-001				
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH		
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m		
REPORT DETAILS									
REPORT DATE	PERCENT COMPLETE		RIG TIME		TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS	
2020-03-03	-		-		0.00 hr		-	0.00 hr	
TOTAL TIME	NON-PRODUCTIVE		FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE	
23.92 hr	0.00 hr		-		0.00 e³m³		-	-	
DAILY OPERATIONS							WEATHER		
DAILY STATUS Rig on hole 24 HOUR SUMMARY Bleed off well, Kill well, pressure test well head seal, stump test BOPs, install BOPs, POOH, Run in w/bridge and set as programed POOH. NEXT 24 HOURS Casing log CBL							GENERAL		
							Overcast light snow		
							ROAD CONDITION		
							Good		
							TIME	TEMP	
							08:00	11°C	
TIME LOG									
FROM	TO	DUR	NPT CODE	DETAILS					
00:00	01:30	1.5 h		Reviewing plan to have sand installed in hole created by removal of water around wellhead. Held safety meeting with all personnel topics. Location hazards, Killing well forward circulation, pinch points					
01:30	04:00	2.5 h		SITP 3378.0 kpa, SICP 3444.0 Opened tubing to testers bled off to 200 kpa shut in tubing opened casing to testers. Stump tested BOP blind rams to 1400 kpa low and 21000 kpa, pipe rams 1400 kpa low and 21000 kpa 10 min on each test, Tested hydriil to 1400 kpa low and 21000 kpa high 10 min on each test. Pressure tested well head seals 1400 low increased pressure to 10.0 mpa the pressure started to leak off bled down to 5.0 mpa.					
04:00	05:30	1.5 h		SITP 1440 Vac, Pressured up tubing to 2000 kpa opened tubing started pumping down tubing at 0.5 m3 per/min pumped pumped 28 m3 0 returns to surface, Monitored tubing and casing 15 minutes both on a slight vacuum. Checked surface casing vent flow 0 bubbles .					
05:30	06:30	1.0 h		Removed flow line, and well head installed handling pup w/TIW open stripped on BOP secured flange pressure tested ring gasket to 1400 kpa low and 21000 kpa high.					
06:30	07:00	0.5 h		Cleaned up work zone around well head installed blind flange on flow line.					
07:00	07:20	0.33 h		Crew change and handover between crews					
07:20	08:00	0.67 h		Crew prepares for work					
08:00	12:30	4.5 h		Hold operational safety meeting and issue safe work permit					
12:30	14:00	1.5 h		Wait on sand, rig in H2S scrubber to 400 BBL tank, clean up around well head, break lines, making access for sand truck. Conduct CAODC rig inspection					
14:00	15:00	1.0 h		NWT reps Norman and Jayda arrive on location, and complete a walk around inspection. Good inspection					
15:00	15:30	0.5 h		Sand arrives on location and is dumped close to hole at well head. Snow cat to push in. Shovel sand to complete hole fill and level. Install planks and pipe tubs.					
15:30	16:00	0.5 h		Rig in floor and handling equipment with new stairs. Rig in RD Scan TBG inspectors tool.					
16:00	19:00	3.0 h		Pump 2 m3 fresh water down TBG for well control, Hook to TBG string, and pull TBG hanger/ pup joint and secure. String weight 14,000 daN. Hold safety meeting and review Tripping pipe, Dog house BOP drill and man down drill discussed with all.					
19:00	19:30	0.5 h		POOH with 2 joints and preform BOP drill. Satisfactory drill by all securing well and to muster in 3 min 49 sec. And locating man down scenario. Continue to POOH racking good TBG in derrick. With 87 Joints TBG out of hole TBG started to vent. Pump 4 m3 fresh down TBG for well control. Continue to POOH. Perform Crew change and handover to night shift					
19:30	20:15	0.75 h		Crew change hand over between crews					
20:15	21:00	0.75 h		Continued out of the hole inspecting tubing standing in the mast pulled 145 joints of 73 mm J-55 tubing X nipple 10 ft XN 10 ft w/ mule shoe. secured the well. Inspection 139 yellow, 5 Blue, 1 Red					
21:00	23:55	2.92 h		Made up a 6 1/8 cone bit on a 177.8 scraper on a 3 m pup handing pup.					
				Ran in the hole tallying in with the scraper double scraped from 1370 to 1400 mKB					
DAILY FLUIDS									
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING		
			TO	FROM	TO	FROM	TANK	WELL	
"Fresh ground water									
BJ oilfield Service	21329	Travita Rainbow Lake		9.00 m³			18.00 m³	0.00 m³	
pinnacle services		Lake #4 Rig tank	22.60 m³				40.60 m³	0.00 m³	
					30.00 m³		10.60 m³	30.00 m³	
			TODAY	22.60 m³	9.00 m³	30.00 m³	0.00 m³	-16.40 m³	30.00 m³
			RUNNING	49.60 m³	9.00 m³	30.00 m³	0.00 m³	10.60 m³	30.00 m³
"potable water									
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³	0.00 m³

WELL DATA								
LICENSE #		UWI		EVENT		AFE NUMBER		AFE \$
1937				Well Suspension		20EWM-AB-001		
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME		TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS	
2020-03-02	-	-		0.00 hr		-	0.00 hr	
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE	
16.92 hr	0.00 hr	-		0.00 e³m³		-	-	
DAILY OPERATIONS						WEATHER		
DAILY STATUS Rig up Service rig, conduct orientation & drills						GENERAL		
						-		
						ROAD CONDITION		
24 HOUR SUMMARY Rig up, orientation, man down drill, inspections, and ERP table top exercise						-		
						TIME		
NEXT 24 HOURS Complete Rig up, kill well, install BOP, pull tubing						-		
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
07:00	07:30	0.5 h		Arrive on location and crews prepare for work, safety and install drip trays.				
07:30	11:00	3.5 h		Hold operational safety meeting and issue safe work permits. Complete orientation and safety tickets checked on all workers and documented. Performed H2S breathing-air man down drill with all on location. - Good drill by all. Reviewed PD rig 834 Certifications and are in Good order and documented. Complete CAODC rig inspection with Push. Reviewed Dex Testers Certifications and are in good order.				
11:00	12:00	1.0 h		There was a small hole with water beside wellhead, the water had an odor to it so a vacuum truck was later dispatched to remove was the water and a sample of the water taken. Reviewed Dex Testers Certifications which were found in good order.				
12:00	14:30	2.5 h		Travel to camp for Table top ERP conference call				
14:30	19:00	4.5 h		Travel back to location,. Pull H2S tube on TBG -2500 ppm H2S. SITP - 5360 kPa, SICIP - 5360 kPa, Testers to tie into TBG and bleed off pressure while monitoring SCV. TBG bleed off to 641 kPa and CSG at 4670 kPa, we got fluid to surface. Shut in TBG with no change in SCV. Purge testers line and tie into CSG and bleed off CSG. TBG and CSG was equal @ 641 kPa. Bleed off CSG to 100 kPa. tie back into to TBG. TBG @ 2758 and CSG @ 1372 kPa and bleed off to testers. SCV showed sign of increased bubbles. Monitor alarmed C02. Hand over well to night shift				
19:00	21:30	2.5 h		Safety Meeting with crew change held daily walk around hazard assessment meeting with rig crew, testers, and boiler hand. Vacuum truck water around well head recovered 9 m3 of water which was hauled to Tervita Rainbow lake. (H2s Sample taken 1.7 % bag test). After water was recovered a 6' wide hole and 4' deep was left by wellhead where the pipe would be stood. A load of sand was ordered to fill in the hole.				
21:30	23:55	2.42 h		Carrying confirmations on previous inspections which PWS had provided OROGO and OROGO's request followup. Confirming BOP and accumulator parameters. PWS did not show up with the correct stairs for the working floor on the rig with Class III BOPs. Review issue Calgary. PWS ordered stairs to be delivered to site. Reviewed overnight operations plan with Calgary. Sand was ordered to fill hole around wellhead.				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"Fresh ground water								
pinnacle services	-	Lake # 4 Rig tank	19.00 m³				27.00 m³	0.00 m³
		TODAY	19.00 m³	0.00 m³	0.00 m³	0.00 m³	19.00 m³	0.00 m³
		RUNNING	27.00 m³	0.00 m³	0.00 m³	0.00 m³	27.00 m³	0.00 m³
"potable water								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³	0.00 m³

WELL DATA								
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$	
1937			Well Suspension		20EWM-AB-001			
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE		RIG TIME		TOTAL RIG TIME		MAN HOURS	
2020-03-01	0%		0.00 hr		0.00 hr		0.00 hr	
TOTAL TIME	NON-PRODUCTIVE		FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE	
11.50 hr	0.00 hr		0.00 e³m³		0.00 e³m³		0.00 kPa	
DAILY OPERATIONS						WEATHER		
DAILY STATUS Move Equipment from High Level to Cameron Hills, held safety meeting and spot equipment 24 HOUR SUMMARY Move Equipment from High Level to Cameron Hills, held safety meeting and spot equipment NEXT 24 HOURS Safety meeting with all contract services on location, Bleed off well, kill well, nipple up BOP's unset packer pull out of the hole						GENERAL		
						Overcast -14 C		
						ROAD CONDITION		
						good		
						TIME		TEMP
09:00		14°C						
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
07:30	14:00	6.5 h		Held pre job safety in High level, Discussed road use, Garbage and trash, Traveled to Cameron Hills camp.				
14:00	19:00	5.0 h		Held operations meeting with PWS crew spotted rig matting rig pump and tank boiler and P tank. Rigged up to EWM and COADC regulations Fired boiler. Unloaded 17 m3 fresh water in rig tank. SDFN				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"Fresh ground water								
pinnacle services		lake #4		8.00 m³			8.00 m³	0.00 m³
			TODAY	8.00 m³	0.00 m³	0.00 m³	0.00 m³	8.00 m³
			RUNNING	8.00 m³	0.00 m³	0.00 m³	0.00 m³	8.00 m³
"potable water								
Longway	66563	Zama Shop		4.00 m³			4.00 m³	0.00 m³
Longway Services	66541	Zama = Rig tank		18.50 m³			22.50 m³	0.00 m³
			TODAY	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³
			RUNNING	22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³
PERFORATIONS								
PERFORATION // 1,415.00 m to 1,419.00 m								
TYPE	TOP	BOTTOM	FORMATION		COMPANY / NOTE			
TCP	1,415.00 m	1,419.00 m	Sulphur Point		Unknown			
GUN SIZE	SHOTS	SHOT TYPE	PHASING	CHARGE	EXP WT			
114.00 mm	15.00 spm	Fluid	60 °	Deep	35.00 g	0.00 g		



Daily Well Suspension Report - 2020-02-29 - Day #1
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA							
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$
1937			Well Suspension		20EWM-AB-001		
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH
774.80 m	4.50 m	779.30 m	0.00 m	0.00 m	4.50 m	0.00 m	4.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME	MAN HOURS	TOTAL MAN HOURS		
2020-02-29	-	-	0.00 hr	-	0.00 hr		
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE	CASING PRESSURE	TUBING PRESSURE		
0.00 hr	0.00 hr	-	0.00 e³m³	-	-		
DAILY OPERATIONS					WEATHER		
DAILY STATUS Travel to High Level					GENERAL		
					-		
24 HOUR SUMMARY Rig and Well site Supervisors travel and reached High Level					ROAD CONDITION		
					-		
NEXT 24 HOURS Move equipment into Camronhills Camp					TIME	TEMP	
						-	

WELL DATA					
NAME		LICENSE #	COST CENTRE	UWI	LOCATION
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W		1937			Cameron Hills NT, Canada
COMPLETIONS DATA					
NAME		START DATE	END DATE	AFE #	AFE AMOUNT
Well Suspension		2020-02-29	2020-03-15	20EWM-AB-001	\$280,000.00
TIME LOG					
FROM	TO	DUR	NPT	CODE	DETAIL
Completions Daily Report • 2020-02-29					
TOTAL0.00 hr					
Completions Daily Report • 2020-03-01					
07:30	14:00	6.50	hr		Held pre job safety in High level, Discussed road use, Garbage and trash, Traveled to Cameron Hills camp.
14:00	19:00	5.00	hr		Held operations meeting with PWS crew spotted rig matting rig pump and tank boiler and P tank. Rigged up to EWM and COADC regulations Fired boiler. Unloaded 17 m3 fresh water in rig tank. SDFN
TOTAL11.50 hr					
Completions Daily Report • 2020-03-02					
07:00	07:30	0.50	hr		Arrive on location and crews prepare for work, safety and install drip trays.
07:30	11:00	3.50	hr		Hold operational safety meeting and issue safe work permits. Complete orientation and safety tickets checked on all workers and documented, Performed H2S breathing-air man down drill with all on location. - Good drill by all. Reviewed PD rig 834 Certifications and are in Good order and documented. Complete CAODC rig inspection with Push. Reviewed Dex Testers Certifications and are in good order.
11:00	12:00	1.00	hr		There was a small hole with water beside wellhead, the water had an odor to it so a vacuum truck was later dispatched to remove was the water and a sample of the water taken. Reviewed Dex Testers Certifications which were found in good order.
12:00	14:30	2.50	hr		Travel to camp for Table top ERP conference call
14:30	19:00	4.50	hr		Travel back to location,. Pull H2S tube on TBG -2500 ppm H2S. SITP - 5360 kPa, SICP - 5360 kPa, Testers to tie into TBG and bleed off pressure while monitoring SCV. TBG bleed off to 641 kPa and CSG at 4670 kPa, we got fluid to surface. Shut in TBG with no change in SCV. Purge testers line and tie into CSG and bleed off CSG. TBG and CSG was equal @ 641 kPa. Bleed off CSG to 100 kPa. tie back into to TBG. TBG @ 2758 and CSG @ 1372 kPa and bleed off to testers. SCV showed sign of increased bubbles. Monitor alarmed C02. Hand over well to night shift
19:00	21:30	2.50	hr		Safety Meeting with crew change held daily walk around hazard assessment meeting with rig crew, testers, and boiler hand. Vacuum truck water around well head recovered 9 m3 of water which was hauled to Tervita Rainbow lake. (H2s Sample taken 1.7 % bag test). After water was recovered a 6' wide hole and 4' deep was left by wellhead where the pipe would be stood. A load of sand was ordered to fill in the hole.
21:30	23:55	2.42	hr		Carrying confirmations on previous inspections which PWS had provided OROGO and OROGO's request followup. Confirming BOP and accumulator parameters. PWS did not show up with the correct stairs for the working floor on the rig with Class III BOPs. Review issue Calgary. PWS ordered stairs to be delivered to site. Reviewed overnight operations plan with Calgary. Sand was ordered to fill hole around wellhead.
TOTAL16.92 hr					
Completions Daily Report • 2020-03-03					
00:00	01:30	1.50	hr		Reviewing plan to have sand installed in hole created by removal of water around wellhead. Held safety meeting with all personnel topics. Location hazards, Killing well forward circulation, pinch points
01:30	04:00	2.50	hr		SITP 3378.0 kpa, SICP 3444.0 Opened tubing to testers bled off to 200 kpa shut in tubing opened casing to testers. Stump tested BOP blind rams to 1400 kpa low and 21000 kpa, pipe rams 1400 kpa low and 21000 kpa 10 min on each test. Tested hydril to 1400 kpa low and 21000 kpa high 10 min on each test. Pressure tested well head seals 1400 low increased pressure to 10.0 mpa the pressure started to leak off bled down to 5.0 mpa. SITP 1440 Vac. Pressured up tubing to 2000 kpa opened tubing started pumping down tubing at 0.5 m3 per/min pumped 28 m3 0 returns to surface. Monitored tubing and casing 15 minutes both on a slight vacuum. Checked surface casing vent flow 0 bubbles .
04:00	05:30	1.50	hr		Removed flow line, and well head installed handling pup w/TIW open stripped on BOP secured flange pressure tested ring gasket to 1400 kpa low and 21000 kpa high.
05:30	06:30	1.00	hr		Cleaned up work zone around well head installed blind flange on flow line.
06:30	07:00	0.50	hr		Crew change and handover between crews
07:00	07:20	0.33	hr		Crew prepares for work
07:20	08:00	0.67	hr		Hold operational safety meeting and issue safe work permit
08:00	12:30	4.50	hr		Wait on sand, rig in H2S scrubber to 400 BBL tank, clean up around well head, break lines, making access for sand truck. Conduct CAODC rig inspection
12:30	14:00	1.50	hr		NWT reps Norman and Jayda arrive on location, and complete a walk around inspection. Good inspection
14:00	15:00	1.00	hr		Sand arrives on location and is dumped close to hole at well head. Snow cat to push in. Shovel sand to complete hole fill and level. Install planks and pipe tubs.
15:00	15:30	0.50	hr		Rig in floor and handling equipment with new stairs. Rig in RD Scan TBG inspectors tool.
15:30	16:00	0.50	hr		Pump 2 m3 fresh water down TBG for well control, Hook to TBG string, and pull TBG hanger/ pup joint and secure. String weight 14,000 daN. Hold safety meeting and review Tripping pipe, Dog house BOP drill and man down drill discussed with all.
16:00	19:00	3.00	hr		POOH with 2 joints and preform BOP drill. Satisfactory drill by all securing well and to muster in 3 min 49 sec. And locating man down scenario. Continue to POOH racking good TBG in derrick. With 87 Joints TBG out of hole TBG started to vent. Pump 4 m3 fresh down TBG for well control. Continue to POOH. Perform Crew change and handover to night shift
19:00	19:30	0.50	hr		Crew change hand over between crews
19:30	20:15	0.75	hr		Continued out of the hole inspecting tubing standing in the mast pulled 145 joints of 73 mm J-55 tubing X nipple 10 ft XN 10 ft w/ mule shoe. secured the well. Inspection 139 yellow, 5 Blue, 1 Red
20:15	21:00	0.75	hr		Made up a 6 1/8 cone bit on a 177.8 scraper on a 3 m pup handing pup.
21:00	23:55	2.92	hr		Ran in the hole tallying in with the scraper double scraped from 1370 to 1400 mKB
TOTAL23.92 hr					
Completions Daily Report • 2020-03-04					

Time Log Report

STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W • • #1937

00:00	02:30	2.50 hr	Crew lunch brake Pulled out of the hole standing 73 mm tubing in the mast secured the well.
02:30	07:00	4.50 hr	Made up bridge plug Koppe 10 k bridge held operation meeting on trip speed in continued in the hole marked collars at 1379.4 mkb 1366.0 mkb and lowered down mark collar at 1392.9, we could not mark the collar at 1392.9 m, pulled up and marked collar at 1379.4 mkb metered in hole spotting and bridge plug C.E @ 1390.0 mkb, Tied in pump line to tubing filled tubing to set the plug.
07:00	07:15	0.25 hr	Hold operational safety meeting and issue safe work permit. Crew Change and hand over
07:15	08:00	0.75 hr	Continue to fill annular pumping 12.5 m3 fresh water until full.
08:00	08:15	0.25 hr	Pressure test Permanent Bridge plug and CSG to 7 mPa. Good solid test for 10 min. Zero bleed off. SCV was monitored during test and there was no communication or flow
08:00	10:45	2.75 hr	Rotate off and release bridge plug. POOH racking TBG in derrick. Lay down tools and break down.
10:45	11:00	0.25 hr	Coffee break and warm up workers
11:00	19:00	8.00 hr	Run in hole with TBG string to 1386 mKB. Batch mix 0.42 m3 of Oilwell class G Cement (24 bags) and pour into TBG. Pump 4.0 m3 fresh water down TBG to displace cement. Pull 2 pup joints and 4 joints out of hole - TBG bottom @ 1341 mKB. Cement top 1370 mKB. Back wash TBG pumping 6 m3 fresh water. Forward circulate 24 m3 POOH with TBG laying down on ground. Testers to rig out lines
19:00	19:15	0.25 hr	Held operation safety meeting with all personnel and issue safe work permit, Crew hand over
19:15	21:15	2.00 hr	Continued pulling 73 mm tubing out of the hole laying on the ground secured well cleared work, Rigged in Voltage E line to run GR-CBL, Held operations meeting with all personal issue safe work permit.
21:15	23:30	2.25 hr	Picked up CBL tools and before starting in the hole the tools quit responding to the computers, Laid down tools cut and retie cable head, connected to logging tools still no response from the tools, Cut cable pulled off 300 m of line retied cable head connected to logging tools and good response to the truck.
23:30	00:00	0.50 hr	Picked up logging tools start in the hole with GR-CBL tool.
TOTAL24.25 hr			
Completions Daily Report • 2020-03-05			
00:00	02:30	2.50 hr	Continued pulling CBL logged from surface to 1360.0 mkb and 1360 to surface Rigged out wire line. Field est cement to @ 260 mKB
02:30	05:30	3.00 hr	Rigged out work floor removed BOP's installed well head secured the well, rigged out pump and lines accumulator line and support equipment for morning move. Moved rig to J-62
05:30	06:30	1.00 hr	Move rig to J - 62
06:30	07:00	0.50 hr	Continue to ready support equipment to move crew change
TOTAL7.00 hr			
Completions Daily Report • 2020-03-06			
13:15	14:00	0.75 hr	Travel to location and perform 10 minute Bubble test on SCV = Zero bubbles and Zero LEL's. Travel back to J-62
TOTAL0.75 hr			
Completions Daily Report • 2020-03-13			
10:30	11:30	1.00 hr	Held safety meeting, review hazards MSDS of CPF-119WT PPE requirements pressures and pump fill rates. SSCP 0 Loaded 140 liters of PureChem CPF-119WT inhibitor and 100 liters 50/50 methanol water mixed filled casing pressured up to 200 kpa bled off pressure to 0 secured well head chained and locked masters and casing valves.
TOTAL1.00 hr			
Completions Daily Report • 2020-03-15			
09:00	10:00	1.00 hr	Held pre-job safety meeting with Stream flow crew issued work permit. Tied in pressure test equipment injected 1 tube of artic sealant in to seals pressure test to 14 mpa closed needle valve held 14 mpa for 15 min bled off pressure secured well. Released stream Flow
TOTAL1.00 hr			



Fluid Movement Report - Well Suspension
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

WELL DATA									
NAME			LICENSE #	COST CENTRE	UWI	LOCATION			
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W			1937			Cameron Hills NT, Canada			
COMPLETIONS DETAIL									
COMPLETIONS TYPE		START DATE	FINISH DATE	OBJECTIVE					
Standing Cased		2020-02-29	2020-03-15	Well Suspension, Surface casing sour gas leak					
DAILY FLUID MOVEMENT									
Fresh ground water									
NOTE lake #4									
DATE	COMPANY	TICKET	SOURCE/DEST	LEASE		WELL		REMAINING	
				TO	FROM	TO	FROM	TANK	WELL
2020-03-01	pinnacle services		lake #4	8.00 m³				8.00 m³	0.00 m³
2020-03-02	pinnacle services	-	Lake # 4 Rig tank	19.00 m³				27.00 m³	0.00 m³
2020-03-03	BJ oilfield Service	21329	Travita Rainbow Lake		9.00 m³			18.00 m³	0.00 m³
2020-03-03	pinnacle services		Lake #4 Rig tank	22.60 m³				40.60 m³	0.00 m³
2020-03-03						30.00 m³		10.60 m³	30.00 m³
2020-03-04						12.50 m³		-1.90 m³	42.50 m³
2020-03-04			Lake 34 Rig Tank	23.00 m³				21.10 m³	42.50 m³
TOTAL				72.60 m³	9.00 m³	42.50 m³	0.00 m³	21.10 m³	42.50 m³
potable water									
NOTE Zama Shop									
DATE	COMPANY	TICKET	SOURCE/DEST	LEASE		WELL		REMAINING	
				TO	FROM	TO	FROM	TANK	WELL
2020-03-01	Longway	66563	Zama Shop	4.00 m³				4.00 m³	0.00 m³
2020-03-01	Longway Services	66541	Zama = Rig tank	18.50 m³				22.50 m³	0.00 m³
TOTAL				22.50 m³	0.00 m³	0.00 m³	0.00 m³	22.50 m³	0.00 m³



Perforations Report - Well Suspension
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W •• #1937

GENERAL DATA								
NAME	LICENSE #		UWI		EVENT	AFE #	AFE \$	
STRATEGIC ET AL CAMERON I-73 60 10N, 117 15W	1937				Well Suspension	20EWM-AB-001	-	
ELEVATIONS								
GROUND	KB > GROUND	KB	CF > GROUND	CF	TH > GROUND	KB > TH	DH > GROUND	KB > DH
774.80 m	4.50 m	779.30 m	0.00 m	774.80 m	0.00 m	4.50 m	0.00 m	4.50 m
PERFORATIONS								
PERFORATION // 2020-03-01 // 1,415.00 m to 1,419.00 m								
TYPE	TOP	BOTTOM	FORMATION		COMPANY / NOTE			
TCP	1,415.00 m	1,419.00 m	Sulphur Point		Unknown			
GUN SIZE	SHOTS	SHOT TYPE	PHASING	CHARGE	EXP WT			
114.00 mm	15.00 spm	Fluid	60 °	Deep	35.00 g	0.00 g		

