

WELL DATA				
NAME	LICENSE #	COST CENTRE	UWI	LOCATION
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	TBD	100/16-11-051-02W5/00	LEDUC-WB AB, Canada
COMPLETIONS DETAIL				
NAME	COMPLETIONS TYPE	START DATE	FINISH DATE	
Initial Completions	Open Hole	2022-06-10		
OBJECTIVE				
Initial completion, HZ annular fracture				

DRILLING DATA											
DRILLING GENERAL											
EVENT		DRILLING START		SPUD DATE		RELEASE DATE		AFE NUMBER		AFE \$	
Initial Drill		2022-01-17 07:00		2022-01-19 16:00		2022-01-30 23:59		21DR0012		\$1,657,265.00	
SURFACE HOLE											
DLS POINT 14-03-051-02W5				COORDINATES 65.00 m SOUTH by 726.40 m EAST				LATITUDE 53.38085400		LONGITUDE -114.21234200	
WELLBORES											
Original Hole											
START 2022-01-19				END 2022-01-30							
BOTTOM POINT 16-11-051-02W5				COORDINATES 0.00 m by 0.00 m				LATITUDE 53.38085400		LONGITUDE -114.21234200	
UWI 100/16-11-051-02W5/00											
KICKOFF 1,007.00 m		HEEL 1,615.00 m		PROJECTED 4,202.00 m		MEASURED 4,088.00 m		TVD 611.56 m		LOGGER 0.00 m	
DRILLING ELEVATIONS											
SURVEYED		CUT / FILL		GROUND		KB > GROUND		KB		CF > GROUND	
742.30 m		-0.29 m		742.01 m		5.50 m		747.51 m		0.00 m	
										CF 742.01 m	
BRIDGE PLUG											
MANUFACTURER			MODEL			SET DEPTH			BACK DEPTH		
						-			-		
SURFACE											
											LANDED AT 271.00 m
#	CODE	DESCRIPTION	COND	OD	DRIFT	WEIGHT	GRADE	LENGTH	TOP		
					(mm)	(mm)	(kg/m)		(m)	(mKB)	
1	S02	Float Shoe	New		244.5	0.0	0.00		0.49	270.51	
1	S03	Casing Joint	New		244.5	226.6	53.67	J55	11.33	259.18	
1	S01	Float Collar	New		244.5	0.0	0.00		0.37	258.81	
23	S03	Casing Joint	New		244.5	226.6	53.67	J55	259.69	-0.88	
CEMENT											
AMOUNT	TYPE	VOLUME	YIELD	% EXCESS	EST TOP	RETURNS	DENSITY				
(t)		(m³)	(m³/t)	(%)	(m)	(m³)	(kg/m³)				
15.00	TSC 1700-S Bulk Cement	14.09	0.9390	80.00	0.00	4.50	1,700				
ADDITIVES											
0.4% TLA, 0.4% AFA-7, 2% Calcium Chloride.											
CEMENT DATE		HOLE DEPTH		HOLE SIZE		STICK UP		LANDED AT		FLOAT COLLAR	
2022-01-20		271.00 m		311.00 mm		0.88 m		271.00 m		259.18 m	
INTERMEDIATE											
											LANDED AT 1,615.00 m
#	CODE	DESCRIPTION	COND	OD	DRIFT	WEIGHT	GRADE	LENGTH	TOP		
					(mm)	(mm)	(kg/m)		(m)	(mKB)	
1	I01	Float Shoe	New		0.0	0.0	0.00		0.50	1,614.50	
1	I03	Casing Joint	New		177.8	161.7	34.23	P-110	13.84	1,600.66	
1	I02	Float Collar	New		0.0	0.0	0.00		0.41	1,600.25	
130	I03	Casing Joint	New		177.8	161.7	34.23	P-110	1,601.03	-0.78	
CEMENT											
AMOUNT	TYPE	VOLUME	YIELD	% EXCESS	EST TOP	RETURNS	DENSITY				
(t)		(m³)	(m³/t)	(%)	(m)	(m³)	(kg/m³)				
1.42	Scavenger	3.00	2.1200	0.00	0.00	3.00	1,300				
ADDITIVES											
2% OGC-60 + 4% AFA-7											
14.57	Titanium 1400-S	23.20	1.5920	90.00	0.00	9.00	1,400				
ADDITIVES											
2% OGC-60 + 4% AFA-7											
16.00	T.A.C.-S	17.04	1.0650	90.00	990.00	0.00	1,600				
ADDITIVES											
0.2% AFA-7 + 0.4% TWR-4 + 0.5% Gel + 0.2% TDH-2 + 0.2% CFR-12											
CEMENT DATE		HOLE DEPTH		HOLE SIZE		STICK UP		LANDED AT		FLOAT COLLAR	
2022-01-24		1,615.00 m		222.00 mm		0.78 m		1,615.00 m		1,600.66 m	
PRODUCTION											
											LANDED AT 4,078.00 m
#	CODE	DESCRIPTION	COND	OD	DRIFT	WEIGHT	GRADE	LENGTH	TOP		
					(mm)	(mm)	(kg/m)		(m)	(mKB)	
1	P01	Guide Shoe - Re entry guide			0.0	0.0	0.00		0.27	4,077.73	
1	P02	Pup Joint			114.3	0.0	20.09		1.85	4,075.88	
1	P03	Float Collar			114.3	0.0	0.00		0.30	4,075.58	
1	P02	Pup Joint			114.3	0.0	20.09		1.86	4,073.72	
1	P12	Secondary Float Collar			114.3	0.0	0.00		0.30	4,073.42	

1	P02	Pup Joint		114.3	0.0	20.09		1.86	4,071.56
1	P04	Landing Collar - Wiper Dart Landing collar		114.3	0.0	0.00		0.48	4,071.08
1	P02	Pup Joint		114.3	0.0	20.09		1.86	4,069.22
1	P05	Casing Joint	New	114.3	99.6	20.09	P-110	13.38	4,055.84
1	P06	Toe Port - Interra (41.3mpa)		114.3	0.0	20.09	P110	0.55	4,055.29
1	P05	Casing Joint	New	114.3	99.6	20.09	P-110	13.17	4,042.12
1	P06	Toe Port - Interra (41.3mpa)		114.3	0.0	20.09	P110	0.55	4,041.57
1	P05	Casing Joint	New	114.3	99.6	20.09	P-110	13.38	4,028.19
1	P02	Pup Joint		114.3	0.0	20.09		6.30	4,021.89
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	4,020.78
1	P02	Pup Joint		114.3	0.0	20.09		6.72	4,014.06
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.54	3,987.52
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,981.22
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,980.11
1	P02	Pup Joint		114.3	0.0	20.09		6.75	3,973.36
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	25.52	3,947.84
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,941.54
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,940.43
1	P02	Pup Joint		114.3	0.0	20.09		6.68	3,933.75
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.76	3,906.99
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,900.69
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,899.58
1	P02	Pup Joint		114.3	0.0	20.09		6.55	3,893.03
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.59	3,866.44
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,860.14
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,859.03
1	P02	Pup Joint		114.3	0.0	20.09		6.73	3,852.30
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.60	3,825.70
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,819.40
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,818.29
1	P02	Pup Joint		114.3	0.0	20.09		6.65	3,811.64
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.75	3,784.89
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,778.59
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,777.48
1	P02	Pup Joint		114.3	0.0	20.09		6.54	3,770.94
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.76	3,744.18
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,737.88
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,736.77
1	P02	Pup Joint		114.3	0.0	20.09		6.74	3,730.03
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.44	3,703.59
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,697.29
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,696.18
1	P02	Pup Joint		114.3	0.0	20.09		6.58	3,689.60
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.38	3,663.22
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,656.92
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,655.81
1	P02	Pup Joint		114.3	0.0	20.09		6.69	3,649.12
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.51	3,622.61
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,616.31
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,615.20
1	P02	Pup Joint		114.3	0.0	20.09		6.81	3,608.39
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.59	3,581.80
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,575.50
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,574.39
1	P02	Pup Joint		114.3	0.0	20.09		6.63	3,567.76
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.44	3,541.32
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,535.02
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,533.91
1	P02	Pup Joint		114.3	0.0	20.09		6.57	3,527.34
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.76	3,500.58
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,494.28
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,493.17
1	P02	Pup Joint		114.3	0.0	20.09		6.65	3,486.52
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.59	3,459.93
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,453.63
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,452.52
1	P02	Pup Joint		114.3	0.0	20.09		6.50	3,446.02
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.61	3,419.41
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,413.11
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,412.00
1	P02	Pup Joint		114.3	0.0	20.09		6.75	3,405.25
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.45	3,378.80
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,372.50
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,371.39
1	P02	Pup Joint		114.3	0.0	20.09		6.75	3,364.64
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.30	3,338.34
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,332.04
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,330.93
1	P02	Pup Joint		114.3	0.0	20.09		6.61	3,324.32
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.74	3,297.58
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,291.28
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,290.17
1	P02	Pup Joint		114.3	0.0	20.09		6.51	3,283.66
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.49	3,257.17
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,250.87
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,249.76
1	P02	Pup Joint		114.3	0.0	20.09		6.75	3,243.01
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.44	3,216.57
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,210.27
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,209.16
1	P02	Pup Joint		114.3	0.0	20.09		6.62	3,202.54
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.60	3,175.94
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,169.64
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,168.53
1	P02	Pup Joint		114.3	0.0	20.09		6.59	3,161.94
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.76	3,135.18
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,128.88
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,127.77
1	P02	Pup Joint		114.3	0.0	20.09		6.57	3,121.20
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.60	3,094.60
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,088.30
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,087.19

1	P02	Pup Joint		114.3	0.0	20.09		6.77	3,080.42
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.24	3,054.18
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,047.88
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,046.77
1	P02	Pup Joint		114.3	0.0	20.09		6.66	3,040.11
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.53	3,013.58
1	P02	Pup Joint		114.3	0.0	20.09		6.30	3,007.28
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	3,006.17
1	P02	Pup Joint		114.3	0.0	20.09		6.67	2,999.50
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.76	2,972.74
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,966.44
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,965.33
1	P02	Pup Joint		114.3	0.0	20.09		6.62	2,958.71
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.70	2,932.01
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,925.71
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,924.60
1	P02	Pup Joint		114.3	0.0	20.09		6.75	2,917.85
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.76	2,891.09
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,884.79
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,883.68
1	P02	Pup Joint		114.3	0.0	20.09		6.64	2,877.04
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.59	2,850.45
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,844.15
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,843.04
1	P02	Pup Joint		114.3	0.0	20.09		6.69	2,836.35
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.18	2,810.17
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,803.87
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,802.76
1	P02	Pup Joint		114.3	0.0	20.09		6.52	2,796.24
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.60	2,769.64
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,763.34
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,762.23
1	P02	Pup Joint		114.3	0.0	20.09		6.59	2,755.64
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.50	2,729.14
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,722.84
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,721.73
1	P02	Pup Joint		114.3	0.0	20.09		6.63	2,715.10
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.16	2,688.94
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,682.64
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,681.53
1	P02	Pup Joint		114.3	0.0	20.09		6.73	2,674.80
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.59	2,648.21
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,641.91
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,640.80
1	P02	Pup Joint		114.3	0.0	20.09		6.71	2,634.09
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.46	2,607.63
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,601.33
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,600.22
1	P02	Pup Joint		114.3	0.0	20.09		6.59	2,593.63
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.44	2,567.19
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,560.89
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,559.78
1	P02	Pup Joint		114.3	0.0	20.09		6.65	2,553.13
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	25.73	2,527.40
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,521.10
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,519.99
1	P02	Pup Joint		114.3	0.0	20.09		6.65	2,513.34
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.75	2,486.59
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,480.29
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,479.18
1	P02	Pup Joint		114.3	0.0	20.09		6.43	2,472.75
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.41	2,446.34
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,440.04
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,438.93
1	P02	Pup Joint		114.3	0.0	20.09		6.74	2,432.19
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.43	2,405.76
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,399.46
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,398.35
1	P02	Pup Joint		114.3	0.0	20.09		6.68	2,391.67
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.74	2,364.93
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,358.63
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,357.52
1	P02	Pup Joint		114.3	0.0	20.09		6.67	2,350.85
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.74	2,324.11
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,317.81
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,316.70
1	P02	Pup Joint		114.3	0.0	20.09		6.67	2,310.03
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.43	2,283.60
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,277.30
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,276.19
1	P02	Pup Joint		114.3	0.0	20.09		6.63	2,269.56
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.74	2,242.82
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,236.52
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,235.41
1	P02	Pup Joint		114.3	0.0	20.09		6.58	2,228.83
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.73	2,202.10
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,195.80
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,194.69
1	P02	Pup Joint		114.3	0.0	20.09		6.53	2,188.16
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.75	2,161.41
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,155.11
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,154.00
1	P02	Pup Joint		114.3	0.0	20.09		6.68	2,147.32
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.53	2,120.79
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,114.49
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,113.38
1	P02	Pup Joint		114.3	0.0	20.09		6.68	2,106.70
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.50	2,080.20
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,073.90
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,072.79
1	P02	Pup Joint		114.3	0.0	20.09		6.53	2,066.26
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.43	2,039.83
1	P02	Pup Joint		114.3	0.0	20.09		6.30	2,033.53

1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	2,032.42
1	P02	Pup Joint		114.3	0.0	20.09		6.35	2,026.07
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.60	1,999.47
1	P02	Pup Joint		114.3	0.0	20.09		6.30	1,993.17
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	1,992.06
1	P02	Pup Joint		114.3	0.0	20.09		6.60	1,985.46
2	P05	Casing Joint	New	114.3	99.6	20.09	P-110	26.74	1,958.72
1	P02	Pup Joint		114.3	0.0	20.09		6.30	1,952.42
1	P07	Frac Sleeve - MultiCycle	New	114.3	0.0	20.09	P-110	1.11	1,951.31
1	P02	Pup Joint		114.3	0.0	20.09		6.76	1,944.55
28	P05	Casing Joint	New	114.3	99.6	20.09	P-110	370.55	1,574.00
1	P02	Pup Joint		114.3	0.0	20.09		1.85	1,572.15
1	P08	Liner Hanger Assembly - Primaset		114.3	0.0	0.00		1.93	1,570.22
1	P09	Receptacle - Polish bore receptical		0.0	0.0	0.00		3.64	1,566.58
1	P10	Other - Setting Tool		0.0	0.0	0.00		2.55	1,564.03

#### CEMENT

AMOUNT	TYPE	VOLUME	YIELD	% EXCESS	EST TOP	RETURNS	DENSITY
(t)		(m³)	(m³/t)	(%)	(m)	(m)	(kg/m³)
1.88	Scavenger	3.00	1.5950	0.00	0.00	3.00	1,400
<b>ADDITIVES</b>							
0.2% AFA-7 + 0.4% TWR-4 + 0.5% Gel + 0.2% TDH-2 + 0.2% CFR-12							
38.12	T.A.C-S	40.60	1.0650	60.00	0.00	9.00	1,600
<b>ADDITIVES</b>							
0.2% AFA-7 + 0.4% TWR-4 + 0.5% Gel + 0.2% TDH-2 + 0.2% CFR-12							
CEMENT DATE		HOLE DEPTH	HOLE SIZE	STICK UP	LANDED AT	FLOAT COLLAR	
2022-01-29		4,076.00 m	159.00 mm	-1,564.03 m	4,078.00 m	4,075.88 m	

#### TIE BACK // RUN 2022-01-30

LANDED AT 1,566.55 m

#	CODE	DESCRIPTION	COND	OD	DRIFT	WEIGHT	GRADE	LENGTH	TOP
				(mm)	(mm)	(kg/m)		(m)	(mKB)
1	T02	Receptacle		0.0	0.0	0.00		3.64	1,562.91
1	T03	Other - LATCH		0.0	0.0	0.00		1.30	1,561.61
115	T01	Casing Joint		114.3	96.4	20.09	P110	1,539.05	22.56
3	T04	Pup Joint		114.3	96.4	20.09	P-110	8.00	14.56
1	T01	Casing Joint		114.3	96.4	20.09	P110	13.39	1.17
3	T04	Pup Joint		114.3	96.4	20.09	P-110	1.02	0.15
1	T05	Other - Tubing hanger		0.0	0.0	0.00		0.15	0.00

#### CASING BOWL

TYPE	MAKE	SERIAL #	CASING SIZE
WORK PRESSURE	WEIGHT LANDED	NOMINAL SIZE	SLIP & SEAL ASSM
		-	

#### INITIAL COMPLETIONS DETAILS

COSTS					BOTTOM HOLE	
FORECAST	AFE NUMBER	AFE \$	ITEMIZED TOTAL	COMPLETIONS TOTAL	ESTIMATED TEMP	ESTIMATED PRESS
	22CP0009	\$1,919,760.00	\$2,012,435.27	\$2,012,435.27	-	-
ELEVATIONS					ESTIMATED H2S	ESTIMATED CO2
GROUND	KB > GROUND	KB	CF > GROUND	CF	-	-
742.01 m	5.50 m	747.51 m	0.00 m	742.01 m		
TH > GROUND	KB > TH	DH > GROUND	KB > DH		DAILY STATISTICS	
-	5.50 m	-	5.50 m		TOTAL RENTALS	RIG TIME
					\$35,565.00	0.00 hr
PERSONNEL					MAN HOURS	% COMPLETE
TITLE	NAME	CONTACT			0.00 hr	0.00%
Consultant	Dustin Kreiser	403-502-4023				
Drilling and Completions Manager	Nick Stanford	403-804-0296				
Consultant	Shannon Harden	780-542-1997				
COMPLETIONS RIGS						
CONTRACTOR	#	START	RELEASE			
No rig records defined						
FLUIDS						
FLUID	TANK	TO WELL	FROM WELL	IN WELL		
LOAD FLUID		0.00 m³		0.00 m³		
3%KCL	0.00 m³	6.00 m³	-	6.00 m³		
Fluid Energy Enviro-Syn HCR 7000 Frac Acid	0.00 m³	36.00 m³	-	36.00 m³		
Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL	206.40 m³	5,168.60 m³	-	5,168.60 m³		
# 483653						
TOTAL		5,210.60 m³	0.00 m³			

#### RECENT DAILY OPERATIONS - 2022-06-26

<b>DAILY STATUS</b>
Frac zones 31 - 52
<b>24 HOUR SUMMARY</b>
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 Frac Summary
CalFrac Well Service Dyna Aqua - 1

Pumps in June 23, 2022 13:30 HRS  
Pumps out June 26, 2022 14:52 HRS  
Program # FCMD0058-5 Pumped as per Program.

6491m<sup>3</sup> Fresh water pumped from: Gravel Pit Source SW-5-51-2W5 - TDL # 483653

Load Fluids:  
Frac Clean: 4317.0m<sup>3</sup>  
TP Clean: 851.60m<sup>3</sup>  
Total Clean to Formation: 5168.60m<sup>3</sup>  
Fluid Energy Enviro-Syn HCR 7000 Frac Acid: 36.00m<sup>3</sup>

Total Load fluid to recover from frac: 5204.60m<sup>3</sup>

105.67 tonne 50/140 Local pumped to well, 105.67 tonne placed, 0 tonne circulated out  
1717.15 tonne 16/30 Northern White pumped to well, 1717.15 tonne placed, 0 tonne circulated out

All zones placed as per program.

**NEXT 24 HOURS**

Rig out Frac / coil & axillary services, well shut in for 7 days.



NAME	LICENSE #	UWI	LOCATION
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	100/16-11-051-02W5/00	LEDUC-WB AB, Canada

**EMERGENCY CONTACTS**  
**MUST be posted for ALL workers to access**

WELL DATA					
NAME	LICENSE #	LOCATION	EVENT	AFE NUMBER	AFE AMOUNT
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	100/16-11-051-02W5/00	Initial Completions	22CP0009	\$1,919,760.00
COMPLETION TYPE	START DATE	END DATE	OBJECTIVE		
Open Hole	2022-06-10		Initial completion, HZ annular fracture		
NOTE: The DAILY COST column represents all costs including non-itemized, TOTAL DAILY represents only itemized costs for the day, and TOTAL is the running total of itemized costs only.					
COMPLETIONS DAILY REPORTS					
DATE	DAILY COST	TOTAL DAILY	TOTAL	SUMMARY	
2022-06-10	\$36,178.00	\$36,178.00	\$36,178.00	Moved in Voltage and performed CNL log Moved in Quicksilver, set collar stop and recorders Installed GNE frac head Pressure tested frac head and wellbore, performed DFIT	
2022-06-11	\$12,220.00	\$12,220.00	\$48,398.00	Moved in and spotted calfrac hogs (10) and 2 belts. Spotted 18 pieces of matting for sand equipment. Started hauling sand. NuWave moved in, offloaded hoses reels, began water line set up. Moved in 2 - buffer tanks & spotted on rig matting	
2022-06-12	\$14,622.40	\$14,622.40	\$63,020.40	NewWave continued to rig in Water line to river. CalFrac hauling sand.	
2022-06-13	\$53,443.47	\$53,443.47	\$116,463.87	CalFrac hauling sand. PVS delivered synthetic acid for frac. Spotted P tank NewWave working on water line Demon spotted super water heater Pulled recorders and collar stop	
2022-06-14	\$7,755.00	\$7,755.00	\$124,218.87	Held off sand hauling and water line install due to heavy rains Lease and road very muddy Not passable with heavy loads	
2022-06-21	\$40,095.00	\$40,095.00	\$164,313.87	Chemco on site laying swamp matting on road and lease. Spotted 500 swamp mats on lease road and 25% (NW corner) of lease.	
2022-06-22	\$8,145.00	\$8,145.00	\$172,458.87	CalFrac hauling sand NewWave resume installing surface water line. Heavy rains in afternoon, lease is very muddy.	
2022-06-23	\$85,453.00	\$85,453.00	\$257,911.87	Hauling sand Move in CalFrac and required services for frac	
2022-06-24	\$281,558.10	\$281,558.10	\$539,469.97	Fracced 7 zones had hose failure on blender.	
2022-06-25	\$487,778.00	\$487,778.00	\$1,027,247.97	Fracture intervals 8 to 30	
2022-06-26	\$535,111.82	\$535,111.82	\$1,562,359.79	BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 Frac Summary  CalFrac Well Service Dyna Aqua - 1 Pumps in June 23, 2022 13:30 HRS Pumps out June 26, 2022 14:52 HRS Program # FCMD0058-5 Pumped as per Program.  6491m³ Fresh water pumped from: Gravel Pit Source SW-5-51-2W5 - TDL # 483653  Load Fluids: Frac Clean: 4317.0m³ TP Clean: 851.60m³ Total Clean to Formation: 5168.60m³ Fluid Energy Enviro-Syn HCR 7000 Frac Acid: 36.00m³  Total Load fluid to recover from frac: 5204.60m³  105.67 tonne 50/140 Local pumped to well, 105.67 tonne placed, 0 tonne circulated out 1717.15 tonne 16/30 Northern White pumped to well, 1717.15 tonne placec, 0 tonne circulated out  All zones placed as per program.	
2022-06-27	\$450,075.48	\$450,075.48	\$2,012,435.27		

WELL DATA								
LICENSE #	UWI	EVENT		AFE NUMBER		AFE \$		
0502001	100/16-11-051-02W5/00	Initial Completions		22CP0009		\$1,919,760.00		
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME	MAN HOURS	TOTAL MAN HOURS			
2022-06-27	-	-	0.00 hr	-	0.00 hr			
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE	CASING PRESSURE	TUBING PRESSURE			
6.00 hr	0.00 hr	-	0.00 e³m³	-	-			
COSTS					DAILY RENTALS			
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE	COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL			
\$450,075.48	\$450,075.48	\$2,012,435.27	\$2,012,435.27	\$3,665.00	\$35,565.00			
DAILY OPERATIONS					PERSONNEL			
<b>DAILY STATUS</b>  <b>24 HOUR SUMMARY</b>  <b>NEXT 24 HOURS</b>					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER			
					Nick Stanford 403-804-0296			
					CONSULTANT Shannon Harden 780-542-1997			
					WEATHER			
					GENERAL Sunny ROAD CONDITION OK TIME 07:00                      TEMP 17°C			
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
00:00	06:00	6.0 h		Cont to R/D CalFrac CT unit 100% and released same along w/ Tryson crane unit. NuWave at source rolling up water transfer line.				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	36.00 m³	0.00 m³	36.00 m³	0.00 m³	36.00 m³
"Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	5,375.00 m³	0.00 m³	5,168.60 m³	206.40 m³	5,168.60 m³



WELL DATA													
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$						
0502001	100/16-11-051-02W5/00		Initial Completions		22CP0009		\$1,919,760.00						
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH						
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m						
REPORT DETAILS													
REPORT DATE	PERCENT COMPLETE		RIG TIME		TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS					
2022-06-26	-		-		0.00 hr		-	0.00 hr					
TOTAL TIME	NON-PRODUCTIVE		FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE					
23.22 hr	0.00 hr		-		0.00 e³m³		-	-					
COSTS						DAILY RENTALS							
TOTAL DAILY	COMPL. TOTAL		TOTAL CUMULATIVE		COMPL. CUMULATIVE		TOTAL DAILY	COMPL. TOTAL					
\$535,111.82	\$535,111.82		\$1,562,359.79		\$1,562,359.79		\$3,665.00	\$31,900.00					
DAILY OPERATIONS						PERSONNEL							
<b>DAILY STATUS</b> Frac zones 31 - 52  <b>24 HOUR SUMMARY</b> BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 Frac Summary  CalFrac Well Service Dyna Aqua - 1 Pumps in June 23, 2022 13:30 HRS Pumps out June 26, 2022 14:52 HRS Program # FCMD0058-5 Pumped as per Program.  6491m³ Fresh water pumped from: Gravel Pit Source SW-5-51-2W5 - TDL # 483653  Load Fluids: Frac Clean: 4317.0m³ TP Clean: 851.60m³ Total Clean to Formation: 5168.60m³ Fluid Energy Enviro-Syn HCR 7000 Frac Acid: 36.00m³  Total Load fluid to recover from frac: 5204.60m³  105.67 tonne 50/140 Local pumped to well, 105.67 tonne placed, 0 tonne circulated out 1717.15 tonne 16/30 Northern White pumped to well, 1717.15 tonne placec, 0 tonne circulated out  All zones placed as per program.  <b>NEXT 24 HOURS</b> Rig out Frac / coil & axillary services, well shut in for 7 days.						CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER Nick Stanford 403-804-0296 CONSULTANT Shannon Harden 780-542-1997							
						WEATHER							
						GENERAL							
						Clear							
						ROAD CONDITION							
						Good							
						TIME	TEMP						
						05:00	11°C						
						TIME LOG							
						FROM	TO	DUR	NPT CODE	DETAILS			
00:47	01:13	0.43 h		Frac Interval Sleeve #31 Start time: 00:47 Stop time: 01:13  Frac sleeve depth: 2802.9 mKB Shifted sleeve at 17.40 MPa  Fractured interval as follows:  Break pressure = 17.40 MPa Min pressure = 32.0 MPa Max pressure = 37.0 MPa Avg pressure = 35.0 MPa  Slurry Rate = 3.0 m³/min Pad 1.4 m³ <> Proppant 53.20 m³  Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.  ISIP = 8.0 MPa  Closed sleeve and confirmed with closed locate, Move tools to next interval  85.5 m³ frac pumps and 12.3 m³ TP = 97.80 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.									
01:13	01:56	0.72 h		Frac Interval Sleeve #32 Start time: 01:13 Stop time: 01:56  Frac sleeve depth: 2762.4 mKB Shifted sleeve at 17.60 MPa  Fractured interval as follows:  Break pressure = 12.20 MPa Min pressure = 30.0 MPa Max pressure = 38.0 MPa Avg pressure = 35.0 MPa  Slurry Rate = 3.0 m³/min Pad 0.7 m³ <> Proppant 54.30 m³  Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.  ISIP = 9.5 MPa  Closed sleeve and confirmed with closed locate, Move tools to next interval  85.4 m³ frac pumps and 12.4 m³ TP = 97.80 m³ fresh water pumped into formation									

01:56	02:35	0.65 h	<p>0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #33  Start time: 01:56  Stop time: 02:35</p> <p>Frac sleeve depth: 2721.9 mKB  Shifted sleeve at 17.60 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.30 MPa  Min pressure = 30.0 MPa  Max pressure = 36.0 MPa  Avg pressure = 34.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.6 m³ &lt;&gt; Proppant 53.30 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.2 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
02:35	03:13	0.63 h	<p>86.7 m³ frac pumps and 12.8 m³ TP = 99.50 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #34  Start time: 02:35  Stop time: 03:13</p> <p>Frac sleeve depth: 2681.7 mKB  Shifted sleeve at 17.60 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.40 MPa  Min pressure = 30.0 MPa  Max pressure = 35.0 MPa  Avg pressure = 32.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.5 m³ &lt;&gt; Proppant 55.0 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.9 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
03:13	03:54	0.68 h	<p>85.3 m³ frac pumps and 11.3 m³ TP = 96.60 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #35  Start time: 03:13  Stop time: 03:54</p> <p>Frac sleeve depth: 2640.8 mKB  Shifted sleeve at 18.00 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.10 MPa  Min pressure = 30.0 MPa  Max pressure = 37.0 MPa  Avg pressure = 33.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.8 m³ &lt;&gt; Proppant 57.2 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.8 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
03:54	04:34	0.67 h	<p>87.4 m³ frac pumps and 11.2 m³ TP = 98.60 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  NOTE: having problems w/ pumps stopped and flushed pumps  Frac Interval Sleeve #36  Start time: 03:13  Stop time: 03:54</p> <p>Frac sleeve depth: 2600.4 mKB  Shifted sleeve at 16.50 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 11.60 MPa  Min pressure = 29.0 MPa  Max pressure = 32.0 MPa  Avg pressure = 30.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.8 m³ &lt;&gt; Proppant 55.9 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.4 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>

04:34	05:16	0.7 h	<p>86.6 m³ frac pumps and 11.2 m³ TP = 97.80 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  NOTE: having problem w/ frac pump removed one pump to offline  Frac Interval Sleeve #37  Start time: 04:34  Stop time: 05:16</p> <p>Frac sleeve depth: 2560.0 mKB  Shifted sleeve at 16.20 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 11.90 MPa  Min pressure = 29.0 MPa  Max pressure = 32.0 MPa  Avg pressure = 30.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.5 m³ &lt;&gt; Proppant 56.7 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.4 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
05:16	05:53	0.62 h	<p>86.5 m³ frac pumps and 11.4 m³ TP = 96.90 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #38  Start time: 04:34  Stop time: 05:16</p> <p>Frac sleeve depth: 2520.2 mKB  Shifted sleeve at 16.50 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 11.90 MPa  Min pressure = 27.0 MPa  Max pressure = 33.0 MPa  Avg pressure = 31.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.6 m³ &lt;&gt; Proppant 56.2 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.9 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
05:53	05:54	0.02 h	<p>86.0 m³ frac pumps and 11.3 m³ TP = 97.30 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Held PJSM with day shift. Reviewed job scope for day to continuing frac operations.  44 people on shift.  Continue to use spotters to move all equipment. Keep lease entrance organized.  Stay focused near end of job. Keep mind on task.  Any questions, concerns, problems bring to attention of supervisor immediately.  Reviewed CalFrac PJSM / JSAs for applicable tasks.  Noted lease is very rutted up, watch footing. Will have skid steer working to level lease as best we can throughout the day to minimize trip hazards.</p>
05:54	06:40	0.77 h	<p>Frac Interval Sleeve #39  Start time: 06:03  Stop time: 06:31</p> <p>Frac sleeve depth: 2479.40 mKB  Shifted sleeve at 17.30 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 11.40 MPa  Min pressure = 24.50 MPa  Max pressure = 33.3 MPa  Avg pressure = 29.8 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.5 m³ &lt;&gt; Proppant 55.4 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.5 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
06:40	07:20	0.67 h	<p>72.1 m³ frac pumps and 11.0 m³ TP = 83.80 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #40  Start time: 06:40  Stop time: 07:10</p> <p>Frac sleeve depth: 2439.10 mKB  Shifted sleeve at 17.30 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 15.50 MPa  Min pressure = 27.30 MPa  Max pressure = 31.30 MPa  Avg pressure = 28.90 MPa</p>

			<p>Slurry Rate = 3.0 m³/min  Pad 2.40 m³ &lt;&gt; Proppant 55.6 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.40 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>74.0 m³ frac pumps and 11.7 m³ TP = 86.40 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #41  Start time: 07:20  Stop time: 07:50</p> <p>Frac sleeve depth: 2398.50 mKB  Shifted sleeve at 16.30 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 13.20 MPa  Min pressure = 25.40 MPa  Max pressure = 29.40 MPa  Avg pressure = 27.40 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 1.80 m³ &lt;&gt; Proppant 56.20 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.30 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
07:20	07:59	0.65 h	<p>73.80 m³ frac pumps and 11.3 m³ TP = 85.80 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #42  Start time: 07:59  Stop time: 08:30</p> <p>Frac sleeve depth: 2357.7 mKB  Shifted sleeve at 15.90 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 15.90 MPa  Min pressure = 25.80 MPa  Max pressure = 30.50 MPa  Avg pressure = 28.80 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 1.60 m³ &lt;&gt; Proppant 58.50 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.10 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
07:59	08:38	0.65 h	<p>75.8 m³ frac pumps and 11.4 m³ TP = 87.90 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #43  Start time: 08:38  Stop time: 09:08</p> <p>Frac sleeve depth: 2316.7 mKB  Shifted sleeve at 15.60 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.50 MPa  Min pressure = 24.20 MPa  Max pressure = 40.30 MPa  Avg pressure = 26.70 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 0.80 m³ &lt;&gt; Proppant 55.90 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.00 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
08:38	09:17	0.65 h	<p>72.00 m³ frac pumps and 11.2 m³ TP = 83.90 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve #44  Start time: 09:17  Stop time: 09:46</p> <p>Frac sleeve depth: 2276.40 mKB  Shifted sleeve at 16.30 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.20 MPa  Min pressure = 23.80 MPa  Max pressure = 32.60 MPa</p>
09:17	09:54	0.62 h	

			<p>Avg pressure = 28.00 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 1.10 m³ &lt;&gt; Proppant 56.90 m³</p> <p>Max Conc sand @ perfs = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.20 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>73.20 m³ frac pumps and 11.2 m³ TP = 85.10 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
09:54	10:32	0.63 h	<p>Frac Interval Sleeve #45 Start time: 09:54 Stop time: 10:23</p> <p>Frac sleeve depth: 2235.60 mKB Shifted sleeve at 16.70 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.70 MPa Min pressure = 23.50 MPa Max pressure = 31.50 MPa Avg pressure = 29.70 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 0.80 m³ &lt;&gt; Proppant 57.20 m³</p> <p>Max Conc sand @ perfs = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.50 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>73.00 m³ frac pumps and 10.80 m³ TP = 84.50 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
10:32	11:09	0.62 h	<p>Frac Interval Sleeve #46 Start time: 10:32 Stop time: 11:00</p> <p>Frac sleeve depth: 2194.90 mKB Shifted sleeve at 15.80 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.00 MPa Min pressure = 24.40 MPa Max pressure = 32.30 MPa Avg pressure = 28.30 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 0.90 m³ &lt;&gt; Proppant 53.20 m³</p> <p>Max Conc sand @ perfs = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.50 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>69.00 m³ frac pumps and 11.10 m³ TP = 80.80 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
11:09	11:46	0.62 h	<p>Frac Interval Sleeve #47 Start time: 11:09 Stop time: 11:37</p> <p>Frac sleeve depth: 2154.20 mKB Shifted sleeve at 16.80 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 13.20 MPa Min pressure = 25.40 MPa Max pressure = 28.80 MPa Avg pressure = 27.30 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 1.10 m³ &lt;&gt; Proppant 53.90 m³</p> <p>Max Conc sand @ perfs = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.20 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>69.50 m³ frac pumps and 11.30 m³ TP = 81.50 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
11:46	12:24	0.63 h	<p>Frac Interval Sleeve #48 Start time: 11:46 Stop time: 12:15</p> <p>Frac sleeve depth: 2113.6 mKB Shifted sleeve at 16.70 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 13.00 MPa Min pressure = 24.20 MPa</p>

			<p>Max pressure = 27.40 MPa Avg pressure = 26.50 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 3.00 m³ &lt;&gt; Proppant 55.60 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.60 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>73.00 m³ frac pumps and 11.40 m³ TP = 85.10 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve #49 Start time: 12:24 Stop time: 12:52</p> <p>Frac sleeve depth: 2073.0 mKB Shifted sleeve at 16.70 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 13.50 MPa Min pressure = 23.50 MPa Max pressure = 29.00 MPa Avg pressure = 26.80 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 3.00 m³ &lt;&gt; Proppant 54.10 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.10 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
12:24	13:02	0.63 h	<p>69.20 m³ frac pumps and 11.40 m³ TP = 81.30 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve #50 Start time: 13:02 Stop time: 13:31</p> <p>Frac sleeve depth: 2032.6 mKB Shifted sleeve at 17.00 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.10 MPa Min pressure = 24.50 MPa Max pressure = 27.70 MPa Avg pressure = 26.20 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 1.00 m³ &lt;&gt; Proppant 56.50 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.00 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
13:02	13:37	0.58 h	<p>71.50 m³ frac pumps and 11.10 m³ TP = 83.30 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve #51 Start time: 13:37 Stop time: 14:12</p> <p>Frac sleeve depth: 1992.2 mKB Shifted sleeve at 16.10 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.60 MPa Min pressure = 19.60 MPa Max pressure = 27.50 MPa Avg pressure = 24.00 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 1.30 m³ &lt;&gt; Proppant 55.20 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.80 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
13:37	14:25	0.8 h	<p>70.00 m³ frac pumps and 11.60 m³ TP = 82.30 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve #52 Start time: 14:25 Stop time: 14:52</p> <p>Frac sleeve depth: 1951.50 mKB Shifted sleeve at 15.90 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 13.20 MPa</p>
14:25	15:09	0.73 h	

			<p>Min pressure = 23.00 MPa  Max pressure = 28.70 MPa  Avg pressure = 25.60 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 1.30 m³ &lt;&gt; Proppant 55.10 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.90 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>70.00 m³ frac pumps and 13.00 m³ TP = 83.70 m³ fresh water pumped into formation  0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Pulled off last sleeve with tool and set packer at 1935mKb.  Pressure tested packer and wellbore to 21MPa for 10 minutes, held solid.</p> <p>Unset packer and hung in well.  Flushed wellbore as follows:</p> <p>5m3 x-link fluid  18m3 linear gel with 2l/m3 MFR  9m3 slick water  Pumped at 3m3 /min.</p> <p>Displaced linear gel into lateral with MFR for sleeve opening run. Flushed wellbore with cross link out toe for any residual sand in well.  Set tool and pressure tested to 14MPa, held solid.</p>
15:09	16:00	0.85 h	
16:00	16:01	0.02 h	<p>Readied to POOH w/ coil  BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 Frac Summary</p> <p>CalFrac Well Service Dyna Aqua - 1  Pumps in June 23, 2022 13:30 HRS  Pumps out June 26, 2022 14:52 HRS  Program # FCMD0058-5 Pumped as per Program.</p> <p>6491m³ Fresh water pumped from: Gravel Pit Source SW-5-51-2W5 - TDL # 483653</p> <p>Load Fluids:  Frac Clean: 4317.0m³  TP Clean: 851.60m³  Total Clean to Formation: 5168.60m³  (99.4m³ / stage average)  Fluid Energy Enviro-Syn HCR 7000 Frac Acid: 36.00m³</p> <p>Total Load fluid to recover from frac: 5204.60m³</p> <p>105.67 tonne 50/140 Local pumped to well, 105.67 tonne placed, 0 tonne circulated out  1717.15 tonne 16/30 Northern White pumped to well, 1717.15 tonne placed, 0 tonne circulated out</p>
16:01	17:30	1.48 h	All zones placed as per program. POOH w/ coil. Tagged out in lubricator, shut in 2 x master valves to secure well.
17:30	18:30	1.0 h	<p>Tool down NCS BHA, release tool hands.  Packer / BHA in good condition, no issues, concerns or missing components.  Stabbed onto well and readied to purge / pig coil to testers.</p> <p>Held Pre Job Safety Meeting with the following discussed, rigging down equipment watch hand and finger placement - congested location watch trapped between loads use spotters while reversing - good communication w/ all contractors while moving equipment on location - all contractors to follow their applicable SOPS for each task being performed.  Pig and purge coil - coil purged out start rigging down of coil unit concurrent operations R/D filter and water transfer unit, test vessel and other frac support items. NuWave pigged water line and rigged out equipment at the source.</p>
18:30	18:45	0.25 h	
18:45	00:00	5.25 h	

**DAILY FLUIDS**

COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL								
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
NOTE	spear head during frac					36.00 m³	0.00 m³	36.00 m³
			TODAY	0.00 m³	0.00 m³	36.00 m³	0.00 m³	36.00 m³
			RUNNING	36.00 m³	0.00 m³	36.00 m³	0.00 m³	36.00 m³
"Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653								
NewWave water line	0626d2022	Gravel Pit Source SW-5-51-2W5 - TDL # 483653		5,375.00 m³			5,375.00 m³	0.00 m³
NOTE	Load fluid from frac (clean)					5,168.60 m³	206.40 m³	5,168.60 m³
			TODAY	5,375.00 m³	0.00 m³	5,168.60 m³	0.00 m³	5,168.60 m³
			RUNNING	5,375.00 m³	0.00 m³	5,168.60 m³	206.40 m³	5,168.60 m³



WELL DATA							
LICENSE #	UWI	EVENT			AFE NUMBER		AFE \$
0502001	100/16-11-051-02W5/00	Initial Completions			22CP0009		\$1,919,760.00
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS	
2022-06-25	-	-	0.00 hr		-	0.00 hr	
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE	
23.65 hr	0.00 hr	-	0.00 e³m³		-	-	
COSTS					DAILY RENTALS		
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE	COMPL. CUMULATIVE		TOTAL DAILY	COMPL. TOTAL	
\$487,778.00	\$487,778.00	\$1,027,247.97	\$1,027,247.97		\$3,665.00	\$28,235.00	
DAILY OPERATIONS					PERSONNEL		
<b>DAILY STATUS</b> Frac  <b>24 HOUR SUMMARY</b> Fracture intervals 8 to 30  <b>NEXT 24 HOURS</b> Cont to frac					CONSULTANT		
					Dustin Kreiser 403-502-4023		
					DRILLING AND COMPLETIONS MANAGER		
					Nick Stanford 403-804-0296		
					CONSULTANT		
					Shannon Harden 780-542-1997		
					WEATHER		
					GENERAL		
					Clear		
					ROAD CONDITION		
					Wet		
					TIME	TEMP	
					05:00	7°C	
TIME LOG							
FROM	TO	DUR	NPT CODE	DETAILS			
00:00	05:38	5.63 h		Cont to WO on blender - blender on location spot and rig in blender.			
05:38	06:27	0.82 h		Frac Interval Sleeve # 8 Start time:5:38 Stop time: 6:17  Frac sleeve depth: 3736.7 mKB Shifted sleeve at 18.20 MPa  Fractured interval as follows:  Break pressure = 15.40 MPa Min pressure = 32.00 MPa Max pressure = 50.00 MPa Avg pressure = 43.00  Slurry Rate = 3.0 m³/min Pad 5.0 m³ <> Proppant 66.0 m³  Max Conc sand @ perms = 800kg/m³ <> Total sand pumped 36.00 tonne <> Total sand in formation 36.00 tonne <> 2.00 tonne 50/140 Local proppant <> 34.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.  ISIP = 7.70 MPa  Closed sleeve and confirmed with closed locate, Move tools to next interval  93.30 m³ frac pumps and 20.20 m³ TP = 114.00 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Morning safety meeting with crew, 44 people on location. Reviewed job scope for day to continue frac operations. Lease very muddy, take time moving equipment. Stay clear of cat. Keep out of hot zone at all times, use spotters to move all equipment. Any issues alert van.			
06:27	06:28	0.02 h		Frac Interval Sleeve # 9 Start time: 6:27 Stop time: 7:14  Frac sleeve depth: 3696.4 mKB Shifted sleeve at 18.00 MPa  Fractured interval as follows:  Break pressure = 14.20 MPa Min pressure = 33.40 MPa Max pressure = 45.40 MPa Avg pressure = 41.40  Slurry Rate = 3.0 m³/min Pad 4.20 m³ <> Proppant 72.50 m³  Max Conc sand @ perms = 900kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.  ISIP = 8.20 MPa  Closed sleeve and confirmed with closed locate, Move tools to next interval  98.90 m³ frac pumps and 23.30 m³ TP = 122.70 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.			
06:28	07:26	0.97 h					
07:26	08:13	0.78 h		Frac Interval Sleeve # 10 Start time: 7:26 Stop time: 8:00  Frac sleeve depth: 3656.0 mKB Shifted sleeve at 16.90 MPa			



			Fractured interval as follows:
			Break pressure = 14.20 MPa Min pressure = 29.80 MPa Max pressure = 45.80 MPa Avg pressure = 41.10
			Slurry Rate = 3.0 m³/min Pad 3.0 m³ <> Proppant 61.60 m³
			Max Conc sand @ perms = 900kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.90 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
08:13	09:03	0.83 h	86.60 m³ frac pumps and 22.50 m³ TP = 109.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve # 11 Start time: 8:13 Stop time: 8:52
			Frac sleeve depth: 3615.20 mKB Shifted sleeve at 18.00 MPa
			Fractured interval as follows:
			Break pressure = 11.80 MPa Min pressure = 34.70 MPa Max pressure = 46.40 MPa Avg pressure = 42.50 MPa
			Slurry Rate = 3.0 m³/min Pad 4.60 m³ <> Proppant 66.10 m³
			Max Conc sand @ perms = 900kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.70 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
09:03	09:46	0.72 h	92.40 m³ frac pumps and 17.30 m³ TP = 110.20 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve # 12 Start time: 9:03 Stop time: 9:37
			Frac sleeve depth: 3574.6 mKB Shifted sleeve at 19.10 MPa
			Fractured interval as follows:
			Break pressure = 14.20 MPa Min pressure = 31.50 MPa Max pressure = 48.60 MPa Avg pressure = 42.10 MPa
			Slurry Rate = 3.0 m³/min Pad 3.00 m³ <> Proppant 64.20 m³
			Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 9.00 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
09:46	10:32	0.77 h	88.50 m³ frac pumps and 17.70 m³ TP = 106.7 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve # 13 Start time: 9:46 Stop time: 10:20
			Frac sleeve depth: 3534.10 mKB Shifted sleeve at 17.10 MPa
			Fractured interval as follows:
			Break pressure = 16.30 MPa Min pressure = 31.50 MPa Max pressure = 45.00 MPa Avg pressure = 40.00 MPa
			Slurry Rate = 3.0 m³/min Pad 2.60 m³ <> Proppant 62.30 m³
			Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.20 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
10:32	11:15	0.72 h	86.00 m³ frac pumps and 17.70 m³ TP = 104.2 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve # 14 Start time: 10:32 Stop time: 11:04
			Frac sleeve depth: 3493.20 mKB Shifted sleeve at 18.00 MPa

			Fractured interval as follows:
			Break pressure = 14.90 MPa Min pressure = 29.90 MPa Max pressure = 45.60 MPa Avg pressure = 40.50 MPa
			Slurry Rate = 3.0 m³/min Pad 2.60 m³ <> Proppant 60.80 m³
			Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.50 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
11:15	11:55	0.67 h	84.60 m³ frac pumps and 17.90 m³ TP = 103.00 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve # 15 Start time: 11:15 Stop time: 11:48
			Frac sleeve depth: 3452.70 mKB Shifted sleeve at 17.90 MPa
			Fractured interval as follows:
			Break pressure = 17.80 MPa Min pressure = 29.20 MPa Max pressure = 46.00 MPa Avg pressure = 39.50 MPa
			Slurry Rate = 3.0 m³/min Pad 2.70 m³ <> Proppant 60.50 m³
			Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.60 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
11:55	12:46	0.85 h	84.10 m³ frac pumps and 17.90 m³ TP = 102.50 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve # 16 Start time: 11:55 Stop time: 12:32
			Frac sleeve depth: 3412.00 mKB Shifted sleeve at 17.80 MPa
			Fractured interval as follows:
			Break pressure = 14.90 MPa Min pressure = 34.00 MPa Max pressure = 43.10 MPa Avg pressure = 39.10 MPa
			Slurry Rate = 3.0 m³/min Pad 1.80 m³ <> Proppant 61.90 m³
			Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.90 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
12:46	14:09	1.38 h	84.40 m³ frac pumps and 18.70 m³ TP = 103.6 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Frac Interval Sleeve # 17 Start time: 12:46 Stop time: 13:19
			Frac sleeve depth: 3371.40 mKB Shifted sleeve at 17.40 MPa
			Fractured interval as follows:
			Break pressure = 13.90 MPa Min pressure = 29.50 MPa Max pressure = 39.80 MPa Avg pressure = 36.70 MPa
			Slurry Rate = 3.0 m³/min Pad 2.30 m³ <> Proppant 63.20 m³
			Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.60 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
14:09	14:49	0.67 h	85.90 m³ frac pumps and 16.20 m³ TP = 102.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Extra time for minor hydration unit repairs (check valve) Frac Interval Sleeve # 18 Start time: 14:09 Stop time: 14:41

			<p>Frac sleeve depth: 3331.10 mKB Shifted sleeve at 17.90 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.60 MPa Min pressure = 28.30 MPa Max pressure = 42.90 MPa Avg pressure = 37.70 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 1.90 m³ &lt;&gt; Proppant 62.50 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.90 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>84.70 m³ frac pumps and 17.60 m³ TP = 102.80 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
14:49	16:00	1.18 h	<p>Frac Interval Sleeve # 19 Start time: 14:49 Stop time: 15:24</p> <p>Frac sleeve depth: 3290.40 mKB Shifted sleeve at 17.80 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.60 MPa Min pressure = 27.80 MPa Max pressure = 42.90 MPa Avg pressure = 38.40 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 1.20 m³ &lt;&gt; Proppant 64.10 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.60 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>85.40 m³ frac pumps and 14.20 m³ TP = 100.10 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
16:00	16:43	0.72 h	<p>NOTE: Extra time on zone clean out gel pumps &amp; load gel prior to starting next zone. Frac Interval Sleeve # 20 Start time: 16:00 Stop time: 16:34</p> <p>Frac sleeve depth: 3249.9 mKB Shifted sleeve at 17.30 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 21.30 MPa Min pressure = 30.30 MPa Max pressure = 42.30 MPa Avg pressure = 38.00 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 2.10 m³ &lt;&gt; Proppant 63.00 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.60 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>85.10 m³ frac pumps and 14.00 m³ TP = 99.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
16:43	17:26	0.72 h	<p>Frac Interval Sleeve # 21 Start time: 16:43 Stop time: 17:17</p> <p>Frac sleeve depth: 3209.30 mKB Shifted sleeve at 17.60 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.20 MPa Min pressure = 29.80 MPa Max pressure = 43.20 MPa Avg pressure = 38.10 MPa</p> <p>Slurry Rate = 3.0 m³/min Pad 2.20 m³ &lt;&gt; Proppant 62.80 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.00 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>84.70 m³ frac pumps and 14.50 m³ TP = 99.70 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>

17:26	17:58	0.53 h	<p>Frac Interval Sleeve # 22  Start time: 17:26  Stop time: 17:58</p> <p>Frac sleeve depth: 3168.70 mKB  Shifted sleeve at 17.60 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 13.90 MPa  Min pressure = 27.20 MPa  Max pressure = 41.30 MPa  Avg pressure = 35.50 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 1.30 m³ &lt;&gt; Proppant 62.30 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.60 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
17:58	18:40	0.7 h	<p>93.40 m³ frac pumps and 14.0 m³ TP = 107.40 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve # 23  Start time: 17:58  Stop time: 18:40</p> <p>Frac sleeve depth: 3128.0 mKB  Shifted sleeve at 18.40 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.20 MPa  Min pressure = 29.0 MPa  Max pressure = 38.30 MPa  Avg pressure = 35.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 1.30 m³ &lt;&gt; Proppant 58.30 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.40 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
18:40	19:23	0.72 h	<p>88.70 m³ frac pumps and 14.8 m³ TP = 103.50 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve # 24  Start time: 18:40  Stop time: 19:23</p> <p>Frac sleeve depth: 3087.2 mKB  Shifted sleeve at 17.20 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 16.20 MPa  Min pressure = 33.0 MPa  Max pressure = 43.0 MPa  Avg pressure = 39.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 2.0 m³ &lt;&gt; Proppant 60.40 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.10 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
19:23	20:06	0.72 h	<p>91.30 m³ frac pumps and 13.8 m³ TP = 105.0 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve # 25  Start time: 19:23  Stop time: 20:06</p> <p>Frac sleeve depth: 3047.0 mKB  Shifted sleeve at 17.70 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.0 MPa  Min pressure = 32.0 MPa  Max pressure = 41.30 MPa  Avg pressure = 36.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 2.0 m³ &lt;&gt; Proppant 66.90 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.90 MPa</p> <p>Unable to confirm sleeve closed after several attempts - P/T 13 mPa good test</p> <p>97.90 m³ frac pumps and 12.3 m³ TP = 110.20 m³ fresh water pumped into formation</p>

20:06	21:02	0.93 h	<p>0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve # 26  Start time: 20:06  Stop time: 21:02</p> <p>Frac sleeve depth: 3006.4 mKB  Shifted sleeve at 18.10 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.80 MPa  Min pressure = 31.0 MPa  Max pressure = 38.0 MPa  Avg pressure = 36.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 1.20 m³ &lt;&gt; Proppant 60.30 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 8.90 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval (Note: took extra time to locate the frac sleeve)</p>
21:02	21:45	0.72 h	<p>90.40 m³ frac pumps and 12.7 m³ TP = 103.10 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve # 27  Start time: 21:02  Stop time: 21:41</p> <p>Frac sleeve depth: 2965.5 mKB  Shifted sleeve at 17.80 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.40 MPa  Min pressure = 31.0 MPa  Max pressure = 39.0 MPa  Avg pressure = 36.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad .60 m³ &lt;&gt; Proppant 58.70 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 7.30 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
21:53	22:21	0.47 h	<p>90.50 m³ frac pumps and 13.5 m³ TP = 104.0 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve # 28  Start time: 21:53  Stop time: 22:21</p> <p>Frac sleeve depth: 2924.6 mKB  Shifted sleeve at 17.80 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.40 MPa  Min pressure = 30.0 MPa  Max pressure = 37.0 MPa  Avg pressure = 36.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 2.0 m³ &lt;&gt; Proppant 57.30 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 7.50 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
22:21	23:02	0.68 h	<p>91.0 m³ frac pumps and 12.3 m³ TP = 103.30 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  Frac Interval Sleeve # 29  Start time: 22:21  Stop time: 23:02</p> <p>Frac sleeve depth: 2883.9 mKB  Shifted sleeve at 17.80 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.70 MPa  Min pressure = 30.0 MPa  Max pressure = 37.0 MPa  Avg pressure = 34.0 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 1.0 m³ &lt;&gt; Proppant 56.40 m³</p> <p>Max Conc sand @ perms = 1000kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 9.20 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>

23:02    23:46    0.73 h

89.30 m<sup>3</sup> frac pumps and 12.3 m<sup>3</sup> TP = 101.60 m<sup>3</sup> fresh water pumped into formation  
 0.50 m<sup>3</sup> Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.  
 Frac Interval Sleeve # 30  
 Start time: 23:02  
 Stop time: 23:46

Frac sleeve depth: 2843.2 mKB  
 Shifted sleeve at 18.20 MPa

Fractured interval as follows:

Break pressure = 12.80 MPa  
 Min pressure = 23.0 MPa  
 Max pressure = 39.0 MPa  
 Avg pressure = 36.0 MPa

Slurry Rate = 3.0 m<sup>3</sup>/min  
 Pad 0.6 m<sup>3</sup> <> Proppant 56.90 m<sup>3</sup>

Max Conc sand @ perms = 1000kg/m<sup>3</sup> <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.

ISIP = 8.60 MPa

Closed sleeve and confirmed with closed locate, Move tools to next interval

89.1 m<sup>3</sup> frac pumps and 13.5 m<sup>3</sup> TP = 102.60 m<sup>3</sup> fresh water pumped into formation  
 0.50 m<sup>3</sup> Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.

Perform maintenance and reset data van - fix hose clamp on water pump at water source

**DAILY FLUIDS**

COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	36.00 m³	0.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³

WELL DATA									
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$		
0502001	100/16-11-051-02W5/00		Initial Completions		22CP0009		\$1,919,760.00		
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH		
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m		
REPORT DETAILS									
REPORT DATE	PERCENT COMPLETE		RIG TIME		TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS	
2022-06-24	-		-		0.00 hr		-	0.00 hr	
TOTAL TIME	NON-PRODUCTIVE		FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE	
23.97 hr	0.00 hr		-		0.00 e³m³		-	-	
COSTS						DAILY RENTALS			
TOTAL DAILY		COMPL. TOTAL		TOTAL CUMULATIVE		COMPL. CUMULATIVE		TOTAL DAILY	COMPL. TOTAL
\$281,558.10		\$281,558.10		\$539,469.97		\$539,469.97		\$3,665.00	\$24,570.00
DAILY OPERATIONS						PERSONNEL			
<b>DAILY STATUS</b> Cont to rig in frac and CT equipment - started pumping frac program.  <b>24 HOUR SUMMARY</b> Fraced 7 zones had hose failure on blender.  <b>NEXT 24 HOURS</b> Frac						CONSULTANT <b>Dustin Kreiser</b> 403-502-4023 DRILLING AND COMPLETIONS MANAGER			
						<b>Nick Stanford</b> 403-804-0296			
						CONSULTANT <b>Shannon Harden</b> 780-542-1997			
						WEATHER			
						GENERAL <b>Clear</b> ROAD CONDITION <b>Wet/Muddy</b> TIME <b>05:00</b> TEMP <b>9°C</b>			
TIME LOG									
FROM	TO	DUR	NPT CODE	DETAILS					
00:01	06:29	6.47 h		Pull test NCS's dimple as follows - 5 daN - 12 daN - 15 daN - 24 daN twice - all pull tests where positive. Filled coil with 11.20m3 of 5% kcl water & Press tested coil connector to 35 MPa - good. Tool up with NCS tool as per program. (6.9m overall tool length ) Tool up as per schematic and ensure all set screws are tight. Shear pins (8 pins in ball disconnect 32 MPa-Diff) Continued to rig in frac lines and installed safety slings - all frac equipment ready for stimulation program.					
06:30	06:45	0.25 h		05:00 No water on location Held PJSM with everyone on location. 42 people on site. Reviewed operations for day, pressure test to 65MPa, run coil to bottom, begin frac. Will hold Pre-Pumping meeting prior to pumping frac. Lease is very muddy, stay clear of tow cat when it is operating. Stay out of high pressure pump area unless authorized by CalFrac to enter. All equipment must use spotter to move. Keep lease entrance clear for traffic movement. If unsure of task stop and ask for clarification prior to proceeding.					
06:45	08:00	1.25 h		Reviewed pressure test procedure, test coil surface lines, lube and testers line to 10MPa & 65MPa. Negative 10MPa test on check valves. NCS BHA made up as follows:  1 - .30m Coil connector (2.375"), 3.125 OD-2.25" SA Pin 1 - .40m Dual Flapper Check Valve, 2.78" OD Large Bore - 2.25" SA BOX x 2.25" SA Pin 1 - .43m Disconnect, Release Tool, 0.895" Ball Seat - 2.25" SA BOX x 2.25" SA Pin 1 - 1.26m Expansion Joint, SFC (Annular) 2.25" SA BOX x 2.25" SA Pin 1 - .91m Blast Joint w/Saver Sub (36"), Armoured - 2.25" SA BOX x 2.25" SA Pin 1 - .60m Equalizing Valve (Slim Annular), Innovus HD, Armoured - 2.25" SA Box x 2.438" SA Pin 1 - .27m Packer Innovus 3.2 Top End w/70 Duro Element (4.5"/11.6-13.5#) 1.781" SA Pin x 2.25" SA Pin 1 - 1.64m Packer Innovus 3.2 Bottom End Locator (4.5"/11.6-13.5#) - 1.78" SA Pin 1 - .13m Flow Crossover - 2.5" SA Box x 2.5" SA Pin 1 - .15m Gauge Carrier - 2.5" SA Box x 2.5" SA Pin 1 - .51m Decompression Housing - 2.5" SA Box x 2.5" SA BOX 1 - .04m Crossover 2.5" SA Pin x 2.5" SA Pin 1 - .15m Bull Nose (4.5"/13.5#), Solid - 2.5" SA BOX  Tightening all connections with Load Cell as Directed (Made up on night shift)  Stabbed onto wellhead with 4 x lubricator. Circulated water over to testers. Good fluid returns to P tank. Shut in at manifold. Tested surface lines, lube, BOPs to 10MPa - held solid. Bled off coil and negative 10MPa test on check valve - solid. Pressured up to 65MPa - solid pressure test.					
08:00	13:00	5.0 h		Bled down pressure, opened up 2 x BX - 155 master valves, started in hole with coil. RIH w/ coil at 20m/min. 100l/min on TP fluid. 500m, stop and set tool. Pressure tested to 21MPa, held solid. Continued in hole. Located sleeve 51, 52, good locates made -3.4m correction. Continued in hole to 3800m. No issues running in hole. Set tool at 3800m, pressure tested to 7MPa - held solid. Tagged out on sleeve # 5 at 3865.50mKb, needed frac at 1m3/min to push. Continued in hole with frac assisting as needed. Located sleeve # 1, & 2. Made same -3.40m correction. Set tool at 3970m - Tested wellbore to 14MPa, held solid  Ran down to sleeve # 1 and set. Readied to frac. Opened sleeve and spotted acid to soak.					
13:00	13:30	0.5 h		NOTE: While coil was running in hole Frac tested all surface iron to 65MPa, held and charted solid. 2 - pop valves in line. 1 - 55MPa, 2 - 68MPa Held Pre Pump meeting with everyone on location. Reviewed CalFrac safe work procedures. Reviewed job scope. All services contributed to meeting.					



13:30	15:42	2.2 h	<p>Everyone clear on job scope and task.  Lease is very muddy, stay clear of cat while performing stuck and tow.  On matting stay 2 mats back.  Frac Interval Sleeve # 1</p> <p>Start time: 13:30  Stop time: 14:22</p> <p>Frac sleeve depth: 4020.8 mKB  Shifted sleeve at 17.40 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 11.90 MPa  Min pressure = 29.90 MPa  Max pressure = 43.80 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 28.30 m³ &lt;&gt; Proppant 93.50 m³</p> <p>Max Conc sand @ perms = 600kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 6.90 MPa</p> <p>Closed sleeve and confirmed with closed locate, Pressure tested sleeve and confirmed closed and holding.</p> <p>144.90 m³ frac pumps and 37.50 m³ TP = 182.90 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p> <p>NOTE: 1 hour delay. NewWave trying to stop leaks on hoses / filter pot. Had to re-rig in, borrow parts from Demon to make work without leaks. Could not frac as not sufficient water in buffers for next zone.</p>
15:42	16:44	1.03 h	<p>Frac Interval Sleeve # 2</p> <p>Start time: 15:42  Stop time: 16:25</p> <p>Frac sleeve depth: 3980.10 mKB  Shifted sleeve at 17.60 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 13.40 MPa  Min pressure = 29.40 MPa  Max pressure = 45.30 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 5.3 m³ &lt;&gt; Proppant 82.70 m³</p> <p>Max Conc sand @ perms = 700kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 7.80 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>108.00 m³ frac pumps and 23.30 m³ TP = 131.80 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
16:44	17:39	0.92 h	<p>Frac Interval Sleeve # 3</p> <p>Start time: 16:44  Stop time: 17:25</p> <p>Frac sleeve depth: 3940.40 mKB  Shifted sleeve at 17.30 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 14.30 MPa  Min pressure = 27.80 MPa  Max pressure = 48.50 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 5.0 m³ &lt;&gt; Proppant 79.30 m³</p> <p>Max Conc sand @ perms = 700kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p> <p>ISIP = 7.90 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p> <p>105.50 m³ frac pumps and 22.50 m³ TP = 128.5 m³ fresh water pumped into formation  0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
17:39	18:40	1.02 h	<p>Frac Interval Sleeve # 4</p> <p>Start time: 17:39  Stop time: 18:22</p> <p>Frac sleeve depth: 3899.80 mKB  Shifted sleeve at 17.50 MPa</p> <p>Fractured interval as follows:</p> <p>Break pressure = 12.70 MPa  Min pressure = 28.20 MPa  Max pressure = 47.80 MPa</p> <p>Slurry Rate = 3.0 m³/min  Pad 4.0 m³ &lt;&gt; Proppant 83.40 m³</p> <p>Max Conc sand @ perms = 700kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out.</p>



			ISIP = 8.00 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
			108.30 m³ frac pumps and 22.40 m³ TP = 130.70 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
18:40	19:18	0.63 h	Held PJSM w/ the following discussed, high pressure lines and all non essential personnel stay clear of the hot zone good communication w/ all contractors on location muddy/wet location watch footing CalFrac Coil and frac supervisors discussed daily operations - max pressure and rates - follow applicable procedures for all tasks being performed. Cont to Frac Interval Sleeve # 5 Start time:18:40 Stop time: 19:18
			Frac sleeve depth: 3859 mKB Shifted sleeve at 17.70 MPa
			Fractured interval as follows:
			Break pressure = 12.50 MPa Min pressure = 27 MPa Max pressure = 46 MPa
			Slurry Rate = 3.0 m³/min Pad 5.0 m³ <> Proppant 68.1 m³
			Max Conc sand @ perms = 700kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.00 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
			109.70 m³ frac pumps and 31.2 m³ TP = 140.90 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
19:18	21:07	1.82 h	Wait on NuWave to repair water line and build sufficient water volume before starting next frac
21:07	21:45	0.63 h	Frac Interval Sleeve # 6 Start time:21:07 Stop time: 21:45
			Frac sleeve depth: 3818.4 mKB Shifted sleeve at 18.30 MPa
			Fractured interval as follows:
			Break pressure = 12.10 MPa Min pressure = 27 MPa Max pressure = 46 MPa
			Slurry Rate = 3.0 m³/min Pad 5.0 m³ <> Proppant 68.8 m³
			Max Conc sand @ perms = 800kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.00 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
			108.90 m³ frac pumps and 32.2 m³ TP = 141.10 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
21:45	22:39	0.9 h	Frac Interval Sleeve # 7 Start time:21:45 Stop time: 22:39
			Frac sleeve depth: 3777.7 mKB Shifted sleeve at 18.60 MPa
			Fractured interval as follows:
			Break pressure = 14.10 MPa Min pressure = 29 MPa Max pressure = 45 MPa
			Slurry Rate = 3.0 m³/min Pad 5.0 m³ <> Proppant 64.6 m³
			Max Conc sand @ perms = 800kg/m³ <> Total sand pumped 34.00 tonne <> Total sand in formation 34.00 tonne <> 2.00 tonne 50/140 Local proppant <> 32.00 tonne 16/30 Northern White <> 0.00 tonne circulated out.
			ISIP = 8.00 MPa
			Closed sleeve and confirmed with closed locate, Move tools to next interval
			102.40 m³ frac pumps and 30.2 m³ TP = 132.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
22:39	00:00	1.35 h	Blender blew hydraulic hose "return supply hose from augers" unable to repair hose on location. Prepare to R/D blender and move in spare blender enroute from Red Deer base. NOTE: located sleeve # 8 and displaced acid into formation. Closed sleeve and let NCS tool hang below NCS sleeve. Concurrent operations R/D the blender.

**DAILY FLUIDS**

COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	36.00 m³	0.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³

WELL DATA								
LICENSE #	UWI	EVENT		AFE NUMBER		AFE \$		
0502001	100/16-11-051-02W5/00	Initial Completions		22CP0009		\$1,919,760.00		
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS		
2022-06-23	-	-	0.00 hr		-	0.00 hr		
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE		
18.00 hr	0.00 hr	-	0.00 e³m³		-	-		
COSTS					DAILY RENTALS			
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE	COMPL. CUMULATIVE		TOTAL DAILY	COMPL. TOTAL		
\$85,453.00	\$85,453.00	\$257,911.87	\$257,911.87		\$3,665.00	\$20,905.00		
DAILY OPERATIONS					PERSONNEL			
<b>DAILY STATUS</b> Hauling sand, move in CalFrac  <b>24 HOUR SUMMARY</b> Hauling sand Move in CalFrac and required services for frac  <b>NEXT 24 HOURS</b> Fracture stimulation					CONSULTANT <b>Dustin Kreiser</b> 403-502-4023 DRILLING AND COMPLETIONS MANAGER			
					<b>Nick Stanford</b> 403-804-0296 CONSULTANT			
					<b>Shannon Harden</b> 780-542-1997			
					WEATHER			
					GENERAL			
					Overcast / rain			
					ROAD CONDITION			
					Poor, muddy			
					TIME		TEMP	
					07:00		11°C	
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
06:00	18:30	12.5 h		CalFrac continuing to haul sand. NuWave rigging into gravel pit water source and finishing installing 10" surface line with boost pumps as needed. Gravel Pit Source SW-5-51-2W5 - TDL # 483653 Landowner alerted with no issues June 22 2022  Demon on site rigging in heater, Certarus on site spotted 2 x Natural Gas bulkers CalFrac on site spotted in Frac and coil equipment.  Very muddy on location, each load had to be towed with winch cat. Took time to strategically bring equipment in order. Testers rigged in surface iron. Rugged rigged in filters and pumps for re-circ.  Handed over to night shift to finish spotting / rigging in. Handover w/ day supervisor Held Pre Job Safety and operational meeting w/ night shift discussing daily operations. Have crews sign onto PTW.				
18:30	19:00	0.5 h		Continued to spot Calfrac coil equipment along w/ testers - filter unit equipment and remaining frac support equipment. Spotted matting for Tryson crane, spotted and rigged in crane. Concurrent operations rig in TP pumper moved injector to reel trailer and installed arch onto injector. Stabbed pipe and fucntion tested injector - injector function tested as required.				
19:00	00:00	5.0 h		Frac crew on location at 22:30 and signed onto PTW. Continue to spot frac equipment w/ dozer cat.  NOTE: Nuwave having multiple line leaks no water pumped from water source to location at 24:00 hrs				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	36.00 m³	0.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³

WELL DATA								
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$	
0502001	100/16-11-051-02W5/00		Initial Completions		22CP0009		\$1,919,760.00	
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS		
2022-06-22	-	-	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		-	-		
COSTS					DAILY RENTALS			
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL		
\$8,145.00	\$8,145.00	\$172,458.87		\$172,458.87	\$3,665.00	\$17,240.00		
DAILY OPERATIONS					PERSONNEL			
<b>DAILY STATUS</b> CalFrac resumed hauling sand.  <b>24 HOUR SUMMARY</b> CalFrac hauling sand NewWave resume installing surface water line. Heavy rains in afternoon, lease is very muddy.  <b>NEXT 24 HOURS</b> Move in Calfrac coil					CONSULTANT			
					Dustin Kreiser 403-502-4023			
					DRILLING AND COMPLETIONS MANAGER			
					Nick Stanford 403-804-0296			
					CONSULTANT			
					Shannon Harden 780-542-1997			
					WEATHER			
					GENERAL			
					Overcast / light rain			
					ROAD CONDITION			
					OK			
					TIME	TEMP		
					07:00	13°C		
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL								
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	36.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³

WELL DATA									
LICENSE #	UWI	EVENT		AFE NUMBER		AFE \$			
0502001	100/16-11-051-02W5/00	Initial Completions		22CP0009		\$1,919,760.00			
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH		
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m		
REPORT DETAILS									
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS			
2022-06-21	-	-	0.00 hr		-	0.00 hr			
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE			
11.50 hr	0.00 hr	-	0.00 e³m³		-	-			
COSTS					DAILY RENTALS				
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL			
\$40,095.00	\$40,095.00	\$164,313.87		\$164,313.87	\$3,665.00	\$13,575.00			
DAILY OPERATIONS					PERSONNEL				
<b>DAILY STATUS</b> Laying swamp matting  <b>24 HOUR SUMMARY</b> Chemco on site laying swamp matting on road and lease. Spotted 500 swamp mats on lease road and 25% (NW corner) of lease.  <b>NEXT 24 HOURS</b> Haul sand, prep for frac					CONSULTANT <b>Dustin Kreiser</b> 403-502-4023 DRILLING AND COMPLETIONS MANAGER				
					<b>Nick Stanford</b> 403-804-0296 CONSULTANT				
					<b>Shannon Harden</b> 780-542-1997				
					WEATHER				
					GENERAL <b>Sunny</b> ROAD CONDITION <b>OK</b> TIME <b>07:00</b> TEMP <b>14°C</b>				
TIME LOG									
FROM	TO	DUR	NPT CODE	DETAILS					
08:00	08:30	0.5 h		Held PJSM with Chemco rep and equipment operators. Reviewed Chemco PJSM / JSA to offload swamp matting and set on lease road and lease.					
				Discussed traffic route to come to lease to turn around. Discussed busy county road watch for traffic and be courteous to public traffic.					
08:30	19:30	11.0 h		Chemco hauling in and setting swamp matting.					
				Spotted 500 swamp matts with loader and track hoe.					
				Able to get to 7 sand hogs and stay on matting.					
DAILY FLUIDS									
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING		
			TO	FROM	TO	FROM	TANK	WELL	
"3%KCL			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	36.00 m³	0.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³

WELL DATA								
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$	
0502001	100/16-11-051-02W5/00		Initial Completions		22CP0009		\$1,919,760.00	
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS		
2022-06-14	-	-	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		-	-		
COSTS					DAILY RENTALS			
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE	COMPL. CUMULATIVE		TOTAL DAILY	COMPL. TOTAL		
\$7,755.00	\$7,755.00	\$124,218.87	\$124,218.87		\$2,540.00	\$9,910.00		
DAILY OPERATIONS					PERSONNEL			
<b>DAILY STATUS</b> Heavy rains overnight and throughout day, held off sand hauling  <b>24 HOUR SUMMARY</b> Held off sand hauling and water line install due to heavy rains Lease and road very muddy Not passable with heavy loads  <b>NEXT 24 HOURS</b> Wait on weather					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER			
					Nick Stanford 403-804-0296			
					CONSULTANT Shannon Harden 780-542-1997			
					WEATHER			
					GENERAL Overcast / Heavy rains ROAD CONDITION Poor, muddy, standing water on location TIME 07:00 TEMP 7°C			
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	36.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³

WELL DATA								
LICENSE #	UWI	EVENT		AFE NUMBER		AFE \$		
0502001	100/16-11-051-02W5/00	Initial Completions		22CP0009		\$1,919,760.00		
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH	
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS		
2022-06-13	0%	0.00 hr	0.00 hr		0.00 hr	0.00 hr		
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE		
5.00 hr	0.00 hr	0.00 e³m³	0.00 e³m³		130.00 kPa	0.00 kPa		
COSTS					DAILY RENTALS			
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE	COMPL. CUMULATIVE		TOTAL DAILY	COMPL. TOTAL		
\$53,443.47	\$53,443.47	\$116,463.87	\$116,463.87		\$2,540.00	\$7,370.00		
DAILY OPERATIONS					PERSONNEL			
<b>DAILY STATUS</b> Frac prep, pulled recorders and gradient  <b>24 HOUR SUMMARY</b> CalFrac hauling sand. PVS delivered synthetic acid for frac. Spotted P tank NewWave working on water line Demon spotted super water heater Pulled recorders and collar stop  <b>NEXT 24 HOURS</b> Frac prep					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER Nick Stanford 403-804-0296 CONSULTANT Shannon Harden 780-542-1997			
					WEATHER			
					GENERAL			
					Clear			
					ROAD CONDITION			
					OK			
					TIME		TEMP	
					07:00		12°C	
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
12:30	17:30	5.0 h		Quicksilver wireline on location. Issued and reviewed Blackspur safe work permit. Reviewed job scope for day to rig up slickline and picker, run in and retrieve recorders and perform static gradient. Run in and retrieve collar stop. Rig out. Reviewed Dir 33 procedures and Quicksilver PJSM / JSAs for applicable tasks  SICP: 130kPa  Spotted slickline and picker unit. Made up BX-155 adapter flange. Made up lubricator and hung top sheave with picker.  Made up 3" JUC pulling tools, stabbed onto well and equalized with N2 to 130kPa. Run in hole and latched onto recorders at 1312.5mKb. Pulled and performed static gradient with 5 min stops at 1282.5, 1222.5, 1200, 1000, 800, 600, 400, 200, surface Shut in well and broke down tool string.  Made up 3" JUC pulling tool, stabbed onto well and purged with N2. Ran in and retrieved collar stop from 1312.5mKb, surfaced and shut in well.  Laid out tool string, lube and top sheave. NDBX-155 flange and installed cap as found. Shut in and secured well.  Rigged out and released Slickline.  BHP: 13,004.928kPa BHT: 50.507 deg C Fluid: surface Last hour: -23.069kPa  Data sent to Calgary for analysis.				
DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL								
Eldorado	172126	Eldorado yard	6.00 m³				6.00 m³	0.00 m³
NOTE	pressure test and DFIT							
			TODAY	6.00 m³	0.00 m³	6.00 m³	0.00 m³	0.00 m³
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³	6.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
Hauling Acid	3290	Fluid Energy	30.00 m³				30.00 m³	0.00 m³
Hauling Acid	3595	Fluid Energy	6.00 m³				36.00 m³	0.00 m³
			TODAY	36.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	36.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³

WELL DATA							
LICENSE #	UWI		EVENT		AFE NUMBER		AFE \$
0502001	100/16-11-051-02W5/00		Initial Completions		22CP0009		\$1,919,760.00
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS	
2022-06-12	-	-	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		-	-	
COSTS					DAILY RENTALS		
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL	
\$14,622.40	\$14,622.40	\$63,020.40		\$63,020.40	\$2,415.00	\$4,830.00	
DAILY OPERATIONS					PERSONNEL		
<div>DAILY STATUS</div> <div>Hauling sand, rig in water line</div> <div>24 HOUR SUMMARY</div> <div>NewWave continued to rig in Water line to river. CalFrac hauling sand.</div> <div>NEXT 24 HOURS</div> <div>Rig in water line, haul sand.</div>					CONSULTANT		
					Dustin Kreiser 403-502-4023		
					DRILLING AND COMPLETIONS MANAGER		
					Nick Stanford 403-804-0296		
					CONSULTANT		
					Shannon Harden 780-542-1997		
					WEATHER		
					GENERAL		
					Overcast		
					ROAD CONDITION		
OK							
TIME			TEMP				
07:00			15°C				

WELL DATA							
LICENSE #	UWI	EVENT		AFE NUMBER		AFE \$	
0502001	100/16-11-051-02W5/00	Initial Completions		22CP0009		\$1,919,760.00	
GROUND ELE	KB > GROUND	KB ELE	CF > GROUND	TH > GROUND	KB > TH	DH > GROUND	KB > DH
742.01 m	5.50 m	747.51 m	0.00 m	-	5.50 m	-	5.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME	MAN HOURS	TOTAL MAN HOURS		
2022-06-11	-	-	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	-	-		
COSTS				DAILY RENTALS			
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE	COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL		
\$12,220.00	\$12,220.00	\$48,398.00	\$48,398.00	\$2,415.00	\$2,415.00		
DAILY OPERATIONS				PERSONNEL			
<div>DAILY STATUS</div> <div>Moved in CalFrac sand equipment</div> <div>24 HOUR SUMMARY</div> <div>Moved in and spotted calfrac hogs (10) and 2 belts. Spotted 18 pieces of matting for sand equipment. Started hauling sand. NuWave moved in, offloaded hoses reels, began water line set up. Moved in 2 - buffer tanks &amp; spotted on rig matting</div> <div>NEXT 24 HOURS</div> <div>Rig in water lines, haul sand</div>				CONSULTANT			
				Dustin Kreiser 403-502-4023			
				DRILLING AND COMPLETIONS MANAGER			
				Nick Stanford 403-804-0296			
				CONSULTANT			
				Shannon Harden 780-542-1997			
				WEATHER			
				GENERAL			
				Overcast			
				ROAD CONDITION			
OK							
TIME		TEMP					
07:00		20°C					



WELL DATA															
LICENSE #		UWI		EVENT		AFE NUMBER		AFE \$							
0502001		100/16-11-051-02W5/00		Initial Completions		22CP0009		\$1,919,760.00							
GROUND ELE		KB > GROUND		KB ELE		CF > GROUND		TH > GROUND		KB > TH		DH > GROUND		KB > DH	
742.01 m		5.50 m		747.51 m		0.00 m		-		5.50 m		-		5.50 m	
REPORT DETAILS															
REPORT DATE		PERCENT COMPLETE		RIG TIME		TOTAL RIG TIME		MAN HOURS		TOTAL MAN HOURS					
2022-06-10		-		-		0.00 hr		-		0.00 hr					
TOTAL TIME		NON-PRODUCTIVE		FLARE VOLUME		TOTAL DAILY FLARE		CASING PRESSURE		TUBING PRESSURE					
8.50 hr		0.00 hr		-		0.00 e³m³		-		-					
COSTS								DAILY RENTALS							
TOTAL DAILY		COMPL. TOTAL		TOTAL CUMULATIVE		COMPL. CUMULATIVE		TOTAL DAILY		COMPL. TOTAL					
\$36,178.00		\$36,178.00		\$36,178.00		\$36,178.00		\$0.00		\$0.00					
DAILY OPERATIONS								PERSONNEL							
<b>DAILY STATUS</b> CNL, DFIT  <b>24 HOUR SUMMARY</b> Moved in Voltage and performed CNL log Moved in Quicksilver, set collar stop and recorders Installed GNE frac head Pressure tested frac head and wellbore, performed DFIT  <b>NEXT 24 HOURS</b> Move in sand / water equipment								CONSULTANT							
								Dustin Kreiser				403-502-4023			
								DRILLING AND COMPLETIONS MANAGER							
								Nick Stanford				403-804-0296			
								CONSULTANT							
								Shannon Harden				780-542-1997			
								WEATHER							
								GENERAL							
								Overcast							
								ROAD CONDITION							
								OK							
								TIME				TEMP			
								07:00				15°C			
TIME LOG															
FROM		TO		DUR		NPT CODE		DETAILS							
11:00		12:00		1.0 h		Moved in Voltage Eline mast unit. Held PJSM, issued and reviewed Blackspur safe work permit, reviewed job scope to rig up and perform CNL log.  R&R well pressures 0kPa SICP. Rigged up Voltage Eline unit.  Performed Gamma Ray Dual spaced Neutron log from 340.0mKb to surface. Fluid level at 10m Surfac casing shoe landed at 271.00mKb  Surfaced tools, shut in well, rigged out and released Voltage. Quicksilver slickline on location. Issued and reviewed Blackspur safe work permit. Reviewed job scope for day to rig in slickline and picker, run collar stop and recorders for DFIT. Recorders set for 1 sec for 24 hours, 10 seconds remaining.  Spotted and rigged in slickline and picker unit. Made up 4.5" collar stop on 3" SB tool. Stabbed onto well. Ran in and set 4.5" collar stop at 1312.50mKB <> 48 deg INC <> 1275m TVD Pulled out of hole.  Made up tandem 10k recorders set for 1 second readings for first 24 hours, then 10 second readings for remainder of test. Ran in to well and set on collar stop with 3" J unlatching tool.  Gauges on bottom at 14:51 HRS Batteries on at 14:35 HRS  Surfaced tools and shut in well. Rigged out slickline unit and picker. GNE & Eldorado on site for DFIT. Issued and reviewed Blackspur safe work permit, reviewed job scope for day to rig in frac head, pressure test to 65MPa, pressure test wellbore, open toe port and perform DFIT. Reviewed GNE & Eldorado PJSM / JSAs for applicable tasks.  GNE installed frac head c/w frac bonnett on extended neck TBG hanger, 2 - BX-155 10k master valve, 1 - coil frac tree c/w 2 - 3" 1502 side outlets and 1 - 10k adjustable choke. Pressure tested seals on hanger to 3000psi - held solid. Pressure tested ring seal and hanger to 3000psi - held solid.  Installed 4" BPV in TBG hanger.  Rigged in Eldorado pressure truck c/w 25m3 3%KCL on tank truck. Tied into 3" side outlet with 1502 iron.  Quicksilver installed real time 15k pressure monitor and data recorder on 2nd side outlet. Confirmed working on line for viewing.  Eldorado tied into annulus on TBG head with 5k hose. Tested tie back and seal latch to 7MPa for 10 minutes and charted - held 100%. Shut in and left pressure on annulus for frac. Rigged out hose and capped up annulus.  Filled frac head with 3%KCL, purged air. Shut in top needle valve and capped.  Cleared area for pressure testing. Tested frac head to 7MPa, 35MPa, 65MPa - held solid each test and charted flat line. Bled down to 0MPa.  GNE removed BPV valve and secured frac head.  Eldorado pressured up wellbore to 7MPa, took less than 100 liters to fill. Pressure test at 7MPa held solid. Pressured up wellbore to 21MPa - held solid									
12:00		15:30		3.5 h											
15:30		19:30		4.0 h											

Pressured up to 35MPa - held solid.

Kicked in pump to open toe port, opened at 42.432MPa  
Pressure truck went to 300l/min & pumped 5.00m3 3%KCL at ~ 6.20MPa. Hard shut down and isolated frac head from pressure truck.  
ISIP 5.1MPa

Rigged out and released Eldorado & GNE  
Off set well monitor online to view pressures.

SDFN

NOTE: Pressure data in attachments.

WELL DATA					
NAME	LICENSE #	COST CENTRE	UWI	LOCATION	
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	TBD	100/16-11-051-02W5/00	LEDUC-WB AB, Canada	
COMPLETIONS DATA					
NAME	START DATE	END DATE	AFE #	AFE \$	
Initial Completions	2022-06-10		22CP0009	\$1,919,760.00	
COST TOTALS					
COST ITEM	ESTIMATE	FIELD	EST v FIELD	ACTUAL	FIELD v ACTUAL
9322-351 - FUEL DIESEL	\$0.00	\$19,578.00	-\$19,578.00	\$0.00	\$19,578.00
9322-401 - ACCESS ROADS AND LEASE	\$0.00	\$29,992.00	-\$29,992.00	\$0.00	\$29,992.00
9322-404 - FRAC PACKER TOOLS	\$62,500.00	\$40,036.34	\$22,463.66	\$0.00	\$40,036.34
9322-405 - WATER HEATING (FRAC)	\$38,000.00	\$0.00	\$38,000.00	\$0.00	\$0.00
9322-406 - WATER CONTAINMENT (FRAC)	\$70,000.00	\$0.00	\$70,000.00	\$0.00	\$0.00
9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT	\$0.00	\$16,968.00	-\$16,968.00	\$0.00	\$16,968.00
9322-429 - CONTACT LABOUR (TOOL HANDS, FRAC HEAD INSTALL)	\$6,500.00	\$0.00	\$6,500.00	\$0.00	\$0.00
9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)	\$28,000.00	\$11,539.30	\$16,460.70	\$0.00	\$11,539.30
9322-436 - ENGINEERING	\$4,500.00	\$0.00	\$4,500.00	\$0.00	\$0.00
9322-439 - EQUIPMENT RENTALS (SURFACE)	\$44,000.00	\$35,565.00	\$8,435.00	\$0.00	\$35,565.00
9322-441 - EQUIPMENT RENTALS (DOWNHOLE)	\$0.00	\$6,365.50	-\$6,365.50	\$0.00	\$6,365.50
9322-443 - FLUID HAULING (TANK TRUCKS)	\$18,500.00	\$6,610.13	\$11,889.87	\$0.00	\$6,610.13
9322-444 - FLUID TRANSFER (ON-SITE)	\$0.00	\$54,935.00	-\$54,935.00	\$0.00	\$54,935.00
9322-445 - FRAC & STIMULATION (ACID)	\$1,200,000.00	\$1,679,727.06	-\$479,727.06	\$0.00	\$1,679,727.06
9322-446 - FRAC HEAD / INSTALL / UNINSTALL	\$10,000.00	\$9,019.04	\$980.96	\$0.00	\$9,019.04
9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)	\$50,000.00	\$12,352.50	\$37,647.50	\$0.00	\$12,352.50
9322-453 - LIQUIDS/SOLIDS DISPOSAL	\$6,500.00	\$0.00	\$6,500.00	\$0.00	\$0.00
9322-455 - LOGGING & ELINE SERVICES	\$0.00	\$4,153.10	-\$4,153.10	\$0.00	\$4,153.10
9322-457 - CONTINGENCY	\$171,050.00	\$0.00	\$171,050.00	\$0.00	\$0.00
9322-460 - PRESSURE TRUCK	\$5,000.00	\$7,200.00	-\$2,200.00	\$0.00	\$7,200.00
9322-465 - SAFETY SERVICES	\$10,000.00	\$9,500.00	\$500.00	\$0.00	\$9,500.00
9322-467 - SERVICE RIG	\$20,000.00	\$0.00	\$20,000.00	\$0.00	\$0.00
9322-468 - SITE & ROAD CONSTRUCTION / RESTORATION	\$3,500.00	\$0.00	\$3,500.00	\$0.00	\$0.00
9322-479 - TESTING & SURVEYS / FRAC FLOWBACK / JET PUMP	\$30,000.00	\$18,000.00	\$12,000.00	\$0.00	\$18,000.00
9322-481 - VACUUM SERVICES	\$18,500.00	\$17,682.40	\$817.60	\$0.00	\$17,682.40
9322-483 - WELLSITE SUPERVISION / CONSULTANT	\$31,500.00	\$25,100.00	\$6,400.00	\$0.00	\$25,100.00
9322-485 - SLICKLINE SERVICES	\$9,500.00	\$8,111.90	\$1,388.10	\$0.00	\$8,111.90
9322-499 - ADMINISTRATION OVERHEAD (3,2,1)	\$3,500.00	\$0.00	\$3,500.00	\$0.00	\$0.00
9330-589 - WELLHEAD	\$14,000.00	\$0.00	\$14,000.00	\$0.00	\$0.00
9330-595 - TUBING	\$30,000.00	\$0.00	\$30,000.00	\$0.00	\$0.00
9330-599 - ADMINISTRATION OVERHEAD (5,3,1)	\$15,605.00	\$0.00	\$15,605.00	\$0.00	\$0.00
9340-699 - ADMINISTRATIVE OVERHEAD (3,2,1)	\$19,105.00	\$0.00	\$19,105.00	\$0.00	\$0.00
TOTAL	\$1,919,760.00	\$2,012,435.27	-\$92,675.27	\$0.00	\$2,012,435.27

WELL DATA									
NAME	LICENSE #	COST CENTRE	UWI	LOCATION					
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	TBD	100/16-11-051-02W5/00	LEDUC-WB AB, Canada					
COMPLETIONS DATA									
NAME	START DATE	END DATE	AFE #	AFE \$					
Initial Completions	2022-06-10		22CP0009	\$1,919,760.00					
DAILY BREAKDOWN									
CODE - COST ITEM	2022-06-10	2022-06-11	2022-06-12	2022-06-13	2022-06-14	2022-06-21	2022-06-22	TOTAL	RUN. TOTAL
9322-351 - FUEL DIESEL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$10,078.00	\$0.00	\$10,078.00	\$10,078.00
Dandy Oil Products LTD: 5126.9 liters dyed diesel and cartage, no cost given, estimate is based on \$1.80/liter + guess at cartage. Fuel is primarily for water pumps, generator, light towers						\$10,078.00		\$10,078.00	
9322-401 - ACCESS ROADS AND LEASE	\$400.00	\$0.00	\$0.00	\$540.00	\$0.00	\$24,752.00	\$2,880.00	\$28,572.00	\$28,572.00
Shawns Oilfield Service: deliver winch cat	\$400.00							\$400.00	
Shawns Oilfield Service: grade lease road				\$540.00				\$540.00	
Chemco: haul and spot swamp matting						\$20,492.00		\$20,492.00	
Shawn Oilfield Services Ltd: Jan 19th blade lease and pump water off location (very muddy)						\$2,840.00		\$2,840.00	
Shawn Oilfield Services Ltd: tow cat, blade lease to try to dry						\$1,420.00		\$1,420.00	
Shawn Oilfield Services Ltd: gravel for line crossings, skid steer to help gravel over driveways							\$2,880.00	\$2,880.00	
9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)	\$0.00	\$0.00	\$0.00	\$11,539.30	\$0.00	\$0.00	\$0.00	\$11,539.30	\$11,539.30
Fluid Energy Group Ltd: synthetic acid				\$9,499.95				\$9,499.95	
Fluid Energy Group Ltd: synthetic acid 2nd load				\$2,039.35				\$2,039.35	
9322-439 - EQUIPMENT RENTALS (SURFACE)	\$0.00	\$2,415.00	\$2,415.00	\$2,540.00	\$2,540.00	\$3,665.00	\$3,665.00	\$17,240.00	\$17,240.00
TKO Rentals Ltd: Daily Rental Cost - 2022-06-11 - 6 Rentals		\$2,415.00	\$2,415.00	\$2,540.00	\$2,540.00	\$2,540.00	\$2,540.00	\$14,990.00	
Chemco: Daily Rental Cost - 2022-06-21 - 1 Rentals						\$1,125.00	\$1,125.00	\$2,250.00	
9322-441 - EQUIPMENT RENTALS (DOWNHOLE)	\$0.00	\$0.00	\$0.00	\$6,365.50	\$0.00	\$0.00	\$0.00	\$6,365.50	\$6,365.50
Quick Silver Wireline Services Ltd: downhole gauge rental				\$6,365.50				\$6,365.50	
9322-443 - FLUID HAULING (TANK TRUCKS)	\$0.00	\$0.00	\$0.00	\$6,610.13	\$0.00	\$0.00	\$0.00	\$6,610.13	\$6,610.13
Haulin Acid: deliver acid				\$6,610.13				\$6,610.13	
9322-444 - FLUID TRANSFER (ON-SITE)	\$0.00	\$8,205.00	\$7,925.00	\$19,190.00	\$3,615.00	\$0.00	\$0.00	\$38,935.00	\$38,935.00
NewWave Energy Services Group: move in and start setting up water transfer		\$8,205.00						\$8,205.00	
NewWave Energy Services Group: rigging in water pipeline and pumps, laying hose			\$7,925.00					\$7,925.00	
Shawns Oilfield Service: gravel for water line crossings				\$3,840.00				\$3,840.00	
NewWave Energy Services Group: installing water line from river to site, 2 trucking delivery tickets for pumping equipment				\$15,350.00				\$15,350.00	
NewWave Energy Services Group: man charges for day, travel home, cancelled due to heavy rains					\$3,615.00			\$3,615.00	
9322-446 - FRAC HEAD / INSTALL / UNINSTALL	\$9,019.04	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,019.04	\$9,019.04
Great North Wellhead & Frac: install frac head & press test	\$3,158.04							\$3,158.04	
Great North Wellhead & Frac: coil frac head rental	\$5,861.00							\$5,861.00	
9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)	\$12,352.50	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,352.50	\$12,352.50
TKO Rentals Ltd: deliver rig matting, deliver loader, deliver light towers, combo unit, fill shack water, deliver 2 buffer tanks, deliver fuel skid	\$12,352.50							\$12,352.50	
9322-455 - LOGGING & ELINE SERVICES	\$4,153.10	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,153.10	\$4,153.10
Voltage Wireline Inc: CNL log	\$4,153.10							\$4,153.10	
9322-460 - PRESSURE TRUCK	\$7,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,200.00	\$7,200.00
Eldorado Pressure Services: 10k pressure truck and tank truck with 3%KCL	\$7,200.00							\$7,200.00	
9322-481 - VACUUM SERVICES	\$0.00	\$0.00	\$2,682.40	\$0.00	\$0.00	\$0.00	\$0.00	\$2,682.40	\$2,682.40
Nelson Bros. Oilfield Services: hydrovac clean culverts for water line crossings			\$2,682.40					\$2,682.40	
9322-483 - WELLSITE SUPERVISION / CONSULTANT	\$0.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$9,600.00	\$9,600.00
1777792 AB Inc: WSS		\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$9,600.00	
9322-485 - SLICKLINE SERVICES	\$3,053.36	\$0.00	\$0.00	\$5,058.54	\$0.00	\$0.00	\$0.00	\$8,111.90	\$8,111.90
Quick Silver Wireline Services Ltd: collar stop and recorders	\$3,053.36							\$3,053.36	
Quick Silver Wireline Services Ltd: pull recorders and gradient				\$5,058.54				\$5,058.54	
DAILY CUMULATIVE	\$36,178.00	\$12,220.00	\$14,622.40	\$53,443.47	\$7,755.00	\$40,095.00	\$8,145.00	\$172,458.87	
	\$36,178.00	\$48,398.00	\$63,020.40	\$116,463.87	\$124,218.87	\$164,313.87	\$172,458.87		\$172,458.87

WELL DATA							
NAME	LICENSE #		COST CENTRE		UWI	LOCATION	
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001		TBD		100/16-11-051-02W5/00	LEDUC-WB AB, Canada	
COMPLETIONS DATA							
NAME	START DATE		END DATE		AFE #	AFE \$	
Initial Completions	2022-06-10				22CP0009	\$1,919,760.00	
DAILY BREAKDOWN							
CODE - COST ITEM	2022-06-23	2022-06-24	2022-06-25	2022-06-26	2022-06-27	TOTAL	RUN. TOTAL
9322-351 - FUEL DIESEL	\$0.00	\$0.00	\$9,500.00	\$0.00	\$0.00	\$9,500.00	\$19,578.00
Dandy Oil Products LTD: 4942.5 liters dyed diesel \$ 620 cartage in cost. Cost is best estimate.			\$9,500.00			\$9,500.00	
Fuel is for NewWave pumps							
9322-401 - ACCESS ROADS AND LEASE	\$1,420.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,420.00	\$29,992.00
Shawn Oilfield Services Ltd: tow cat	\$1,420.00					\$1,420.00	
9322-404 - FRAC PACKER TOOLS	\$0.00	\$0.00	\$0.00	\$40,036.34	\$0.00	\$40,036.34	\$40,036.34
NCS Multistage: tool hands, frac packer tools				\$40,036.34		\$40,036.34	
9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT	\$16,968.00	\$0.00	\$0.00	\$0.00	\$0.00	\$16,968.00	\$16,968.00
CalFrac Well Services: coil move in and rig up	\$16,968.00					\$16,968.00	
9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,539.30
9322-439 - EQUIPMENT RENTALS (SURFACE)	\$3,665.00	\$3,665.00	\$3,665.00	\$3,665.00	\$3,665.00	\$18,325.00	\$35,565.00
TKO Rentals Ltd: Daily Rental Cost - 2022-06-23 - 7 Rentals	\$2,540.00	\$2,540.00	\$2,540.00	\$2,540.00	\$2,540.00	\$12,700.00	
Chemco: Daily Rental Cost - 2022-06-23 - 1 Rentals	\$1,125.00	\$1,125.00	\$1,125.00	\$1,125.00	\$1,125.00	\$5,625.00	
9322-441 - EQUIPMENT RENTALS (DOWNHOLE)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,365.50
9322-443 - FLUID HAULING (TANK TRUCKS)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$6,610.13
9322-444 - FLUID TRANSFER (ON-SITE)	\$0.00	\$0.00	\$0.00	\$16,000.00	\$0.00	\$16,000.00	\$54,935.00
Rugged Oilfield Services: pumps, hoses, filter pot on site water transfer / filter re-circ water from open top tanks				\$16,000.00		\$16,000.00	
9322-445 - FRAC & STIMULATION (ACID)	\$55,800.00	\$270,293.10	\$467,013.00	\$443,310.48	\$443,310.48	\$1,679,727.06	\$1,679,727.06
CalFrac Well Services: Frac rig in, sub	\$55,800.00					\$55,800.00	
CalFrac Well Services: Frac Spread including coil		\$270,293.10	\$467,013.00	\$443,310.48	\$443,310.48	\$1,623,927.06	
9322-446 - FRAC HEAD / INSTALL / UNINSTALL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,019.04
9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,352.50
9322-455 - LOGGING & ELINE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,153.10
9322-460 - PRESSURE TRUCK	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$7,200.00
9322-465 - SAFETY SERVICES	\$0.00	\$0.00	\$0.00	\$9,500.00	\$0.00	\$9,500.00	\$9,500.00
Zephyr Safety Corp: medic 24 hours 3 days for frac				\$9,500.00		\$9,500.00	
9322-479 - TESTING & SURVEYS / FRAC FLOWBACK / JET PUMP	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00	\$0.00	\$18,000.00	\$18,000.00
StrataFlo: Testers 24 hours	\$4,500.00	\$4,500.00	\$4,500.00	\$4,500.00		\$18,000.00	
9322-481 - VACUUM SERVICES	\$0.00	\$0.00	\$0.00	\$15,000.00	\$0.00	\$15,000.00	\$17,682.40
Nelson Brothers: Vac 24 hours 3 days on site				\$15,000.00		\$15,000.00	
9322-483 - WELLSITE SUPERVISION / CONSULTANT	\$3,100.00	\$3,100.00	\$3,100.00	\$3,100.00	\$3,100.00	\$15,500.00	\$25,100.00
177792 AB Inc: WSS	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$8,000.00	
N/A: WSS	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00	\$7,500.00	
9322-485 - SLICKLINE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,111.90
DAILY CUMULATIVE	\$85,453.00	\$281,558.10	\$487,778.00	\$535,111.82	\$450,075.48	\$1,839,976.40	\$2,012,435.27
	\$257,911.87	\$539,469.97	\$1,027,247.97	\$1,562,359.79	\$2,012,435.27		

WELL DATA				
NAME	LICENSE #	COST CENTRE	UWI	LOCATION
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	TBD	100/16-11-051-02W5/00	LEDUC-WB AB, Canada
COMPLETIONS DATA				
NAME	START DATE	END DATE	AFE #	AFE \$
Initial Completions	2022-06-10		22CP0009	\$1,919,760.00
<b>vendor// 177792 AB INC</b>				<b>VENDOR TOTAL \$17,600.00</b>
cost code// 9322-483 - WELLSITE SUPERVISION / CONSULTANT				TOTAL \$17,600.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-11	WSS		DK-218	\$1,600.00
2022-06-12	WSS		DK-218	\$1,600.00
2022-06-13	WSS		DK-218	\$1,600.00
2022-06-14	WSS		DK-218	\$1,600.00
2022-06-21	WSS		DK-218	\$1,600.00
2022-06-22	WSS		DK-218	\$1,600.00
2022-06-23	WSS		DK-218	\$1,600.00
2022-06-24	WSS		DK-218	\$1,600.00
2022-06-25	WSS		DK-218	\$1,600.00
2022-06-26	WSS		DK-218	\$1,600.00
2022-06-27	WSS		DK-218	\$1,600.00
<b>vendor// CALFRAC WELL SERVICES</b>				<b>VENDOR TOTAL \$1,696,695.06</b>
cost code// 9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT				TOTAL \$16,968.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-23	coil move in and rig up		169257	\$16,968.00
cost code// 9322-445 - FRAC & STIMULATION (ACID)				TOTAL \$1,679,727.06
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-23	Frac rig in, sub		309123	\$55,800.00
2022-06-24	Frac Spread including coil		309124	\$270,293.10
2022-06-25	Frac Spread including coil		309125	\$467,013.00
2022-06-26	Frac Spread including coil		309126	\$443,310.48
2022-06-27	Frac Spread including coil		309126	\$443,310.48
<b>vendor// CHEMCO</b>				<b>VENDOR TOTAL \$28,367.00</b>
cost code// 9322-401 - ACCESS ROADS AND LEASE				TOTAL \$20,492.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-21	haul and spot swamp matting		1306-071-01-001	\$20,492.00
cost code// 9322-439 - EQUIPMENT RENTALS (SURFACE)				TOTAL \$7,875.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-21	Daily Rental Cost - 2022-06-21 - 1 Rentals			\$1,125.00
2022-06-22	Daily Rental Cost - 2022-06-22 - 1 Rentals			\$1,125.00
2022-06-23	Daily Rental Cost - 2022-06-23 - 1 Rentals			\$1,125.00
2022-06-24	Daily Rental Cost - 2022-06-24 - 1 Rentals			\$1,125.00
2022-06-25	Daily Rental Cost - 2022-06-25 - 1 Rentals			\$1,125.00
2022-06-26	Daily Rental Cost - 2022-06-26 - 1 Rentals			\$1,125.00
2022-06-27	Daily Rental Cost - 2022-06-27 - 1 Rentals			\$1,125.00
<b>vendor// DANDY OIL PRODUCTS LTD</b>				<b>VENDOR TOTAL \$19,578.00</b>
cost code// 9322-351 - FUEL DIESEL				TOTAL \$19,578.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-21	5126.9 liters dyed diesel and cartage, no cost given, estimate is based on \$1.80/liter + guess at cartage. Fuel is primarily for water pumps, generator, light towers		461881	\$10,078.00
2022-06-25	4942.5 liters dyed diesel \$ 620 cartage in cost. Cost is best estimate. Fuel is for NewWave pumps		1-651268	\$9,500.00
<b>vendor// ELDORADO PRESSURE SERVICES</b>				<b>VENDOR TOTAL \$7,200.00</b>
cost code// 9322-460 - PRESSURE TRUCK				TOTAL \$7,200.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10	10k pressure truck and tank truck with 3%KCL		172126	\$7,200.00
<b>vendor// FLUID ENERGY GROUP LTD</b>				<b>VENDOR TOTAL \$11,539.30</b>
cost code// 9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)				TOTAL \$11,539.30
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-13	synthetic acid 2nd load		4836	\$2,039.35
2022-06-13	synthetic acid		4835	\$9,499.95
<b>vendor// GREAT NORTH WELLHEAD &amp; FRAC</b>				<b>VENDOR TOTAL \$9,019.04</b>
cost code// 9322-446 - FRAC HEAD / INSTALL / UNINSTALL				TOTAL \$9,019.04
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10	coil frac head rental		RR1388	\$5,861.00
2022-06-10	install frac head & press test		65703	\$3,158.04
<b>vendor// HAULIN ACID</b>				<b>VENDOR TOTAL \$6,610.13</b>
cost code// 9322-443 - FLUID HAULING (TANK TRUCKS)				TOTAL \$6,610.13
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-13	deliver acid		3290	\$4,579.13
2022-06-13	deliver acid		3595	\$2,031.00
<b>vendor// N/A</b>				<b>VENDOR TOTAL \$7,500.00</b>
cost code// 9322-483 - WELLSITE SUPERVISION / CONSULTANT				TOTAL \$7,500.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-23	WSS		BOC000004	\$1,500.00
2022-06-24	WSS		BOC000004	\$1,500.00
2022-06-25	WSS		BOC000004	\$1,500.00
2022-06-26	WSS		BOC000004	\$1,500.00
2022-06-27	WSS		BOC000004	\$1,500.00
<b>vendor// NCS MULTISTAGE</b>				<b>VENDOR TOTAL \$40,036.34</b>
cost code// 9322-404 - FRAC PACKER TOOLS				TOTAL \$40,036.34
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26	tool hands, frac packer tools		FS56871	\$40,036.34
<b>vendor// NELSON BROS. OILFIELD SERVICES</b>				<b>VENDOR TOTAL \$2,682.40</b>
cost code// 9322-481 - VACUUM SERVICES				TOTAL \$2,682.40
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-12	hydrovac clean culverts for water line crossings		357921	\$2,682.40
<b>vendor// NELSON BROTHERS</b>				<b>VENDOR TOTAL \$15,000.00</b>
cost code// 9322-481 - VACUUM SERVICES				TOTAL \$15,000.00



**BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 - Initial Completions Cost Summary**  
**BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001**



DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26	Vac 24 hours 3 days on site		EST	\$15,000.00
<b>Vendor// NEWWAVE ENERGY SERVICES GROUP</b>				<b>VENDOR TOTAL \$35,095.00</b>
cost code// 9322-444 - FLUID TRANSFER (ON-SITE)				TOTAL \$35,095.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-11	move in and start setting up water transfer		WTCJ-272-01	\$8,205.00
2022-06-12	rigging in water pipeline and pumps, laying hose		WTCJ-272-02	\$7,925.00
2022-06-13	installing water line from river to site, 2 trucking delivery tickets for pumping equipment		WTCJ-272-03	\$15,350.00
2022-06-14	man charges for day, travel home, cancelled due to heavy rains		WTCJ-272-04	\$3,615.00
<b>Vendor// QUICK SILVER WIRELINE SERVICES LTD</b>				<b>VENDOR TOTAL \$14,477.40</b>
cost code// 9322-441 - EQUIPMENT RENTALS (DOWNHOLE)				TOTAL \$6,365.50
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-13	downhole gauge rental		43274	\$6,365.50
cost code// 9322-485 - SLICKLINE SERVICES				TOTAL \$8,111.90
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10	collar stop and recorders		43899	\$3,053.36
2022-06-13	pull recorders and gradient		43273	\$5,058.54
<b>Vendor// RUGGED OILFIELD SERVICES</b>				<b>VENDOR TOTAL \$16,000.00</b>
cost code// 9322-444 - FLUID TRANSFER (ON-SITE)				TOTAL \$16,000.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26	pumps, hoses, filter pot on site water transfer / filter re-circ water from open top tanks		EST	\$16,000.00
<b>Vendor// SHAWN OILFIELD SERVICES LTD</b>				<b>VENDOR TOTAL \$8,560.00</b>
cost code// 9322-401 - ACCESS ROADS AND LEASE				TOTAL \$8,560.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-21	tow cat, blade lease to try to dry		5484	\$1,420.00
2022-06-21	Jan 19th blade lease and pump water off location (very muddy)		5483	\$2,840.00
2022-06-22	gravel for line crossings, skid steer to help gravel over driveways		5486	\$2,880.00
2022-06-23	tow cat		5485	\$1,420.00
<b>Vendor// SHAWNS OILFIELD SERVICE</b>				<b>VENDOR TOTAL \$4,780.00</b>
cost code// 9322-401 - ACCESS ROADS AND LEASE				TOTAL \$940.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10	deliver winch cat		5448	\$400.00
2022-06-13	grade lease road		5455	\$540.00
cost code// 9322-444 - FLUID TRANSFER (ON-SITE)				TOTAL \$3,840.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-13	gravel for water line crossings		5454	\$3,840.00
<b>Vendor// STRATAFLO</b>				<b>VENDOR TOTAL \$18,000.00</b>
cost code// 9322-479 - TESTING & SURVEYS / FRAC FLOWBACK / JET PUMP				TOTAL \$18,000.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-23	Testers 24 hours		EST	\$4,500.00
2022-06-24	testers 24 hours		EST	\$4,500.00
2022-06-25	testers 24 hours		EST	\$4,500.00
2022-06-26	testers 24 hours		EST	\$4,500.00
<b>Vendor// TKO RENTALS LTD</b>				<b>VENDOR TOTAL \$40,042.50</b>
cost code// 9322-439 - EQUIPMENT RENTALS (SURFACE)				TOTAL \$27,690.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-11	Daily Rental Cost - 2022-06-11 - 6 Rentals			\$2,415.00
2022-06-12	Daily Rental Cost - 2022-06-12 - 6 Rentals			\$2,415.00
2022-06-13	Daily Rental Cost - 2022-06-13 - 7 Rentals			\$2,540.00
2022-06-14	Daily Rental Cost - 2022-06-14 - 7 Rentals			\$2,540.00
2022-06-21	Daily Rental Cost - 2022-06-21 - 7 Rentals			\$2,540.00
2022-06-22	Daily Rental Cost - 2022-06-22 - 7 Rentals			\$2,540.00
2022-06-23	Daily Rental Cost - 2022-06-23 - 7 Rentals			\$2,540.00
2022-06-24	Daily Rental Cost - 2022-06-24 - 7 Rentals			\$2,540.00
2022-06-25	Daily Rental Cost - 2022-06-25 - 7 Rentals			\$2,540.00
2022-06-26	Daily Rental Cost - 2022-06-26 - 7 Rentals			\$2,540.00
2022-06-27	Daily Rental Cost - 2022-06-27 - 7 Rentals			\$2,540.00
cost code// 9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)				TOTAL \$12,352.50
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10	delver rig matting, deliver loader, deliver light towers, combo unit, fill shack water, deliver 2 buffer tanks, deliver fuel skid		DV-1871-2	\$12,352.50
<b>Vendor// VOLTAGE WIRELINE INC</b>				<b>VENDOR TOTAL \$4,153.10</b>
cost code// 9322-455 - LOGGING & ELINE SERVICES				TOTAL \$4,153.10
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10	CNL log		65831	\$4,153.10
<b>Vendor// ZEPHYR SAFETY CORP</b>				<b>VENDOR TOTAL \$9,500.00</b>
cost code// 9322-465 - SAFETY SERVICES				TOTAL \$9,500.00
DAILY REPORT	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26	medic 24 hours 3 days for frac			\$9,500.00
<b>GRAND TOTAL</b>				<b>\$2,012,435.27</b>





Completions Rental Inventory  
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001



WELL DATA					
NAME	LICENSE #	LOCATION	EVENT	AFE NUMBER	AFE AMOUNT
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	100/16-11-051-02W5/00	Initial Completions	22CP0009	\$1,919,760.00
RENTAL ITEM	VENDOR	DAILY COST	USAGE	TOTAL COST	
2 - 170m3 buffer tanks	TKO Rentals Ltd	\$300.00	11	\$3,300.00	
2 - 400 bbl tanks	TKO Rentals Ltd	\$30.00	11	\$330.00	
6 light towers and combo	TKO Rentals Ltd	\$1,175.00	11	\$12,925.00	
28 - rig matting	TKO Rentals Ltd	\$420.00	11	\$4,620.00	
500 C Grade matts	Chemco	\$1,125.00	7	\$7,875.00	
4000 liter fuel skid	TKO Rentals Ltd	\$100.00	11	\$1,100.00	
Dry office trailer day shack	TKO Rentals Ltd	\$125.00	9	\$1,125.00	
Genie - 45'	TKO Rentals Ltd	\$390.00	11	\$4,290.00	



WELL DATA											
NAME		LICENSE #	LOCATION			EVENT		AFE NUMBER		AFE AMOUNT	
<b>BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4</b>		<b>0502001</b>	<b>100/16-11-051-02W5/00</b>			<b>Initial Completions</b>		<b>22CP0009</b>		<b>\$1,919,760.00</b>	
ITEM	VENDOR	COST	06-10	06-11	06-12	06-13	06-14	06-21	06-22	TOTAL	RUNNING
2 - 170m3 buffer tanks	TKO Rentals Ltd	\$300.00		•	•	•	•	•	•	\$1,800.00	\$1,800.00
2 - 400 bbl tanks	TKO Rentals Ltd	\$30.00		•	•	•	•	•	•	\$180.00	\$180.00
6 light towers and combo	TKO Rentals Ltd	\$1,175.00		•	•	•	•	•	•	\$7,050.00	\$7,050.00
28 - rig matting	TKO Rentals Ltd	\$420.00		•	•	•	•	•	•	\$2,520.00	\$2,520.00
500 C Grade matts	Chemco	\$1,125.00						•	•	\$2,250.00	\$2,250.00
4000 liter fuel skid	TKO Rentals Ltd	\$100.00		•	•	•	•	•	•	\$600.00	\$600.00
Dry office trailer day shack	TKO Rentals Ltd	\$125.00				•	•	•	•	\$500.00	\$500.00
Genie - 45'	TKO Rentals Ltd	\$390.00		•	•	•	•	•	•	\$2,340.00	\$2,340.00
<b>DAILY TOTAL</b>			\$0.00	\$2,415.00	\$2,415.00	\$2,540.00	\$2,540.00	\$3,665.00	\$3,665.00	\$17,240.00	
<b>RUNNING TOTAL</b>			\$0.00	\$2,415.00	\$4,830.00	\$7,370.00	\$9,910.00	\$13,575.00	\$17,240.00		\$17,240.00

WELL DATA										
NAME		LICENSE #	LOCATION			EVENT		AFE NUMBER	AFE AMOUNT	
<b>BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4</b>		<b>0502001</b>	<b>100/16-11-051-02W5/00</b>			<b>Initial Completions</b>		<b>22CP0009</b>	<b>\$1,919,760.00</b>	
ITEM	VENDOR	COST	06-23	06-24	06-25	06-26	06-27		TOTAL	RUNNING
2 - 170m3 buffer tanks	TKO Rentals Ltd	\$300.00	•	•	•	•	•		\$1,500.00	\$3,300.00
2 - 400 bbl tanks	TKO Rentals Ltd	\$30.00	•	•	•	•	•		\$150.00	\$330.00
6 light towers and combo	TKO Rentals Ltd	\$1,175.00	•	•	•	•	•		\$5,875.00	\$12,925.00
28 - rig matting	TKO Rentals Ltd	\$420.00	•	•	•	•	•		\$2,100.00	\$4,620.00
500 C Grade matts	Chemco	\$1,125.00	•	•	•	•	•		\$5,625.00	\$7,875.00
4000 liter fuel skid	TKO Rentals Ltd	\$100.00	•	•	•	•	•		\$500.00	\$1,100.00
Dry office trailer day shack	TKO Rentals Ltd	\$125.00	•	•	•	•	•		\$625.00	\$1,125.00
Genie - 45'	TKO Rentals Ltd	\$390.00	•	•	•	•	•		\$1,950.00	\$4,290.00
<b>DAILY TOTAL</b>			<b>\$3,665.00</b>	<b>\$3,665.00</b>	<b>\$3,665.00</b>	<b>\$3,665.00</b>	<b>\$3,665.00</b>		<b>\$18,325.00</b>	
<b>RUNNING TOTAL</b>			<b>\$20,905.00</b>	<b>\$24,570.00</b>	<b>\$28,235.00</b>	<b>\$31,900.00</b>	<b>\$35,565.00</b>			<b>\$35,565.00</b>

WELL DATA				
NAME	LICENSE #	COST CENTRE	UWI	LOCATION
<b>BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4</b>	<b>0502001</b>	<b>TBD</b>	<b>100/16-11-051-02W5/00</b>	<b>LEDUC-WB AB, Canada</b>
NAME	START DATE	END DATE	AFE #	AFE AMOUNT
<b>Completions</b>	<b>2022-06-10</b>		<b>22CP0009</b>	<b>\$1,919,760.00</b>
FUEL INVENTORY				

WELL DATA					
NAME		LICENSE #	COST CENTRE	UWI	LOCATION
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4		0502001	TBD	100/16-11-051-02W5/00	LEDUC-WB AB, Canada
COMPLETIONS DATA					
NAME		START DATE	END DATE	AFE #	AFE AMOUNT
Initial Completions		2022-06-10		22CP0009	\$1,919,760.00
TIME LOG					
FROM	TO	DUR	NPT	CODE	DETAIL
Completions Daily Report • 2022-06-10					
11:00	12:00	1.00 hr			Moved in Voltage Eline mast unit. Held PJSM, issued and reviewed Blackspur safe work permit, reviewed job scope to rig up and perform CNL log. R&R well pressures 0kPa SICP. Rigged up Voltage Eline unit. Performed Gamma Ray Dual spaced Neutron log from 340.0mKb to surface. Fluid level at 10m Surf casing shoe landed at 271.00mKb Surfaced tools, shut in well, rigged out and released Voltage.
12:00	15:30	3.50 hr			Quicksilver slickline on location. Issued and reviewed Blackspur safe work permit. Reviewed job scope for day to rig in slickline and picker, run collar stop and recorders for DFIT. Recorders set for 1 sec for 24 hours, 10 seconds remaining. Spotted and rigged in slickline and picker unit. Made up 4.5" collar stop on 3" SB tool. Stabbed onto well. Ran in and set 4.5" collar stop at 1312.50mKB <> 48 deg INC <> 1275m TVD Pulled out of hole. Made up tandem 10k recorders set for 1 second readings for first 24 hours, then 10 second readings for remainder of test. Ran in to well and set on collar stop with 3" J unlatching tool. Gauges on bottom at 14:51 HRS Batteries on at 14:35 HRS Surfaced tools and shut in well. Rigged out slickline unit and picker.
15:30	19:30	4.00 hr			GNE & Eldorado on site for DFIT. Issued and reviewed Blackspur safe work permit, reviewed job scope for day to rig in frac head, pressure test to 65MPa, pressure test wellbore, open toe port and perform DFIT. Reviewed GNE & Eldorado PJSM / JSAs for applicable tasks. GNE installed frac head c/w frac bonnett on extended neck TBG hanger, 2 - BX-155 10k master valve, 1 - coil frac tree c/w 2 - 3" 1502 side outlets and 1 - 10k adjustable choke. Pressure tested seals on hanger to 3000psi - held solid. Pressure tested ring seal and hanger to 3000psi - held solid. Installed 4" BPV in TBG hanger. Rigged in Eldorado pressure truck c/w 25m3 3%KCL on tank truck. Tied into 3" side outlet with 1502 iron. Quicksilver installed real time 15k pressure monitor and data recorder on 2nd side outlet. Confirmed working on line for viewing. Eldorado tied into annulus on TBG head with 5k hose. Tested tie back and seal latch to 7MPa for 10 minutes and charted - held 100%. Shut in and left pressure on annulus for frac. Rigged out hose and capped up annulus. Filled frac head with 3%KCL, purged air. Shut in top needle valve and capped. Cleared area for pressure testing. Tested frac head to 7MPa, 35MPa, 65MPa - held solid each test and charted flat line. Bled down to 0MPa. GNE removed BPV valve and secured frac head. Eldorado pressured up wellbore to 7MPa, took less than 100 liters to fill. Pressure test at 7MPa held solid. Pressured up wellbore to 21MPa - held solid Pressured up to 35MPa - held solid. Kicked in pump to open toe port, opened at 42.432MPa Pressure truck went to 300l/min & pumped 5.00m3 3%KCL at ~ 6.20MPa. Hard shut down and isolated frac head from pressure truck. ISIP 5.1MPa Rigged out and released Eldorado & GNE Off set well monitor online to view pressures. SDFN NOTE: Pressure data in attachments.
TOTAL		8.50 hr			
Completions Daily Report • 2022-06-11					
TOTAL		0.00 hr			
Completions Daily Report • 2022-06-12					
TOTAL		0.00 hr			
Completions Daily Report • 2022-06-13					
12:30	17:30	5.00 hr			Quicksilver wireline on location. Issued and reviewed Blackspur safe work permit. Reviewed job scope for day to rig up slickline and picker, run in and retrieve recorders and perform static gradient. Run in and retrieve collar stop. Rig out. Reviewed Dir 33 procedures and Quicksilver PJSM / JSAs for applicable tasks SICP: 130kPa Spotted slickline and picker unit. Made up BX-155 adapter flange. Made up lubricator and hung top sheave with picker. Made up 3" JUC pulling tools, stabbed onto well and equalized with N2 to 130kPa. Run in hole and latched onto recorders at 1312.5mKb. Pulled and performed static gradient with 5 min stops at 1282.5, 1222.5, 1200, 1000, 800, 600, 400, 200, surface Shut in well and broke down tool string. Made up 3" JUC pulling tool, stabbed onto well and purged with N2. Ran in and retrieved collar stop from 1312.5mKb, surfaced and shut in well. Laid out tool string, lube and top sheave. NDBX-155 flange and installed cap as found. Shut in and secured well. Rigged out and released Slickline. BHP: 13,004.928kPa BHT: 50.507 deg C Fluid: surface Last hour: -23.069kPa Data sent to Calgary for analysis.
TOTAL		5.00 hr			
Completions Daily Report • 2022-06-14					
TOTAL		0.00 hr			
Completions Daily Report • 2022-06-21					
08:00	08:30	0.50 hr			Held PJSM with Chemco rep and equipment operators. Reviewed Chemco PJSM / JSA to offload swamp matting and set on lease road and lease. Discussed traffic route to come to lease to turn around. Discussed busy county road watch for traffic and be courteous to public traffic.
08:30	19:30	11.00 hr			Chemco hauling in and setting swamp matting. Spotted 500 swamp matts with loader and track hoe. Able to get to 7 sand hogs sign and stay on matting.
TOTAL		11.50 hr			
Completions Daily Report • 2022-06-22					
TOTAL		0.00 hr			
Completions Daily Report • 2022-06-23					
06:00	18:30	12.50 hr			CalFrac continuing to haul sand. NuWave rigging into gravel pit water source and finishing installing 10" surface line with boost pumps as needed. Gravel Pit Source SW-5-51-2W5 - TDL # 483653 Landowner alerted with no issues June 22 2022 Demon on site rigging in heater, Certarus on site spotted 2 x Natural Gas bulkers CalFrac on site spotted in Frac and coil equipment. Very muddy on location, each load had to be towed with winch cat. Took time to strategically bring equipment in order. Testers rigged in surface iron. Rugged rigged in filters and pumps for re-circ. Handed over to night shift to finish spotting / rigging in.
18:30	19:00	0.50 hr			Handover w/ day supervisor Held Pre Job Safety and operational meeting w/ night shift discussing daily operations. Have crews sign onto PTW.
19:00	00:00	5.00 hr			Continued to spot Calfrac coil equipment along w/ testers - filter unit equipment and remaining frac support equipment. Spotted matting for Tryson crane, spotted and rigged in crane. Concurrent operations rig in TP pumper moved injector to reel trailer and installed arch onto injector. Stabbed pipe and fuction tested injector - injector function tested as required. Frac crew on location at 22:30 and signed onto PTW. Continue to spot frac equipment w/ dozer cat. NOTE: Nuwave having multiple line leaks no water pumped from water source to location at 24:00 hrs
TOTAL		18.00 hr			
Completions Daily Report • 2022-06-24					

00:01	06:29	6.47 hr	<p>Pull test NCS's duple as follows - 5 daN - 12 daN - 15 daN - 24 daN twice - all pull tests where positive. Filled coil with 11.20m3 of 5% kcl water &amp; Press tested coil connector to 35 MPa - good. Tool up with NCS tool as per program. (6.9m overall tool length ) Tool up as per schematic and ensure all set screws are tight. Shear pins (8 pins in ball disconnect 32 MPa-Diff) Continued to rig in frac lines and installed safety slings - all frac equipment ready for stimulation program.</p> <p>05:00 No water on location</p>
06:29	06:30	<b>WARNING: Missing Time</b>	
06:30	06:45	0.25 hr	<p>Held PJSM with everyone on location. 42 people on site. Reviewed operations for day, pressure test to 65MPa, run coil to bottom, begin frac. Will hold Pre-Pumping meeting prior to pumping frac. Lease is very muddy, stay clear of tow cat when it is operating. Stay out of high pressure pump area unless authorized by CalFrac to enter. All equipment must use spotter to move. Keep lease entrance clear for traffic movement. If unsure of task stop and ask for clarification prior to proceeding. Reviewed pressure test procedure, test coil surface lines, lube and testers line to 10MPa &amp; 65MPa. Negative 10MPa test on check valves.</p>
06:45	08:00	1.25 hr	<p>NCS BHA made up as follows: 1 - .30m Coil connector (2.375"), 3.125 OD-2.25" SA Pin 1 - .40m Dual Flapper Check Valve, 2.78" OD Large Bore - 2.25" SA BOX x 2.25" SA Pin 1 - .43m Disconnect, Release Tool, 0.895" Ball Seat - 2.25" SA BOX x 2.25" SA Pin 1 - 1.26m Expansion Joint, SFC (Annular) 2.25" SA BOX x 2.25" SA Pin 1 - .91m Blast Joint w/Saver Sub (36"), Armoured - 2.25" SA BOX x 2.25" SA Pin 1 - .60m Equalizing Valve (Slim Annular), Innovus HD, Armoured - 2.25" SA Box x 2.438" SA Pin 1 - .27m Packer Innovus 3.2 Top End w/70 Duro Element (4.5"/11.6-13.5#) 1.781" SA Pin x 2.25" SA Pin 1 - 1.64m Packer Innovus 3.2 Bottom End Locator (4.5"/11.6-13.5#) - 1.78" SA Pin 1 - .13m Flow Crossover - 2.5" SA Box x 2.5" SA Pin 1 - .15m Gauge Carrier - 2.5" SA Box x 2.5" SA Pin 1 - .51m Decompression Housing - 2.5" SA Box x 2.5" SA BOX 1 - .04m Crossover 2.5" SA Pin x 2.5" SA Pin 1 - .15m Bull Nose (4.5"/13.5#), Solid - 2.5" SA BOX Tightening all connections with Load Cell as Directed (Made up on night shift) Stabbed onto wellhead with 4 x lubricator. Circulated water over to testers. Good fluid returns to P tank. Shut in at manifold. Tested surface lines, lube, BOPs to 10MPa - held solid. Bled off coil and negative 10MPa test on check valve - solid. Pressured up to 65MPa - solid pressure test. Bled down pressure, opened up 2 x BX - 155 master valves, started in hole with coil.</p>
08:00	13:00	5.00 hr	<p>RIH w/ coil at 20m/min. 100l/min on TP fluid. 500m, stop and set tool. Pressure tested to 21MPa, held solid. Continued in hole. Located sleeve 51, 52, good locates made -3.4m correction. Continued in hole to 3800m. No issues running in hole. Set tool at 3800m, pressure tested to 7MPa - held solid. Tagged out on sleeve # 5 at 3865.50mKb, needed frac at 1m3/min to push. Continued in hole with frac assisting as needed. Located sleeve # 1, &amp; 2. Made same -3.40m correction. Set tool at 3970m - Tested wellbore to 14MPa, held solid Ran down to sleeve # 1 and set. Ready to frac. Opened sleeve and spotted acid to soak. NOTE: While coil was running in hole Frac tested all surface iron to 65MPa, held and charted solid. 2 - pop valves in line. 1 - 55MPa, 2 - 68MPa</p>
13:00	13:30	0.50 hr	<p>Held Pre Pump meeting with everyone on location. Reviewed CalFrac safe work procedures. Reviewed job scope. All services contributed to meeting. Everyone clear on job scope and task. Lease is very muddy, stay clear of cat while performing stuck and tow. On matting stay 2 matts back.</p>
13:30	15:42	2.20 hr	<p>Frac Interval Sleeve # 1 Start time: 13:30 Stop time: 14:22 Frac sleeve depth: 4020.8 mKB Shifted sleeve at 17.40 MPa Fractured interval as follows: Break pressure = 11.90 MPa Min pressure = 29.90 MPa Max pressure = 43.80 MPa Slurry Rate = 3.0 m³/min Pad 28.30 m³ &lt;&gt; Proppant 93.50 m³ Max Conc sand @ perfs = 600kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out. ISIP = 6.90 MPa Closed sleeve and confirmed with closed locate, Pressure tested sleeve and confirmed closed and holding. 144.90 m³ frac pumps and 37.50 m³ TP = 182.90 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. NOTE: 1 hour delay. NewWave trying to stop leaks on hoses / filter pot. Had to re-rig in, borrow parts from Demon to make work without leaks. Could not frac as not sufficient water in buffers for next zone.</p>
15:42	16:44	1.03 hr	<p>Frac Interval Sleeve # 2 Start time: 15:42 Stop time: 16:25 Frac sleeve depth: 3980.10 mKB Shifted sleeve at 17.60 MPa Fractured interval as follows: Break pressure = 13.40 MPa Min pressure = 29.40 MPa Max pressure = 45.30 MPa Slurry Rate = 3.0 m³/min Pad 5.3 m³ &lt;&gt; Proppant 82.70 m³ Max Conc sand @ perfs = 700kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out. ISIP = 7.80 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 108.00 m³ frac pumps and 23.30 m³ TP = 131.80 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
16:44	17:39	0.92 hr	<p>Frac Interval Sleeve # 3 Start time: 16:44 Stop time: 17:25 Frac sleeve depth: 3940.40 mKB Shifted sleeve at 17.30 MPa Fractured interval as follows: Break pressure = 14.30 MPa Min pressure = 27.80 MPa Max pressure = 48.50 MPa Slurry Rate = 3.0 m³/min Pad 5.0 m³ &lt;&gt; Proppant 79.30 m³ Max Conc sand @ perfs = 700kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out. ISIP = 7.90 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 105.50 m³ frac pumps and 22.50 m³ TP = 128.5 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
17:39	18:40	1.02 hr	<p>Frac Interval Sleeve # 4 Start time: 17:39 Stop time: 18:22 Frac sleeve depth: 3899.80 mKB Shifted sleeve at 17.50 MPa Fractured interval as follows: Break pressure = 12.70 MPa Min pressure = 28.20 MPa Max pressure = 47.80 MPa Slurry Rate = 3.0 m³/min Pad 4.0 m³ &lt;&gt; Proppant 83.40 m³ Max Conc sand @ perfs = 700kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out. ISIP = 8.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 108.30 m³ frac pumps and 22.40 m³ TP = 130.70 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
18:40	19:18	0.63 hr	<p>Held PJSM w/ the following discussed, high pressure lines and all non essential personnel stay clear of the hot zone good communication w/ all contractors on location muddy/wet location watch footing CalFrac Coil and frac supervisors discussed daily operations - max pressure and rates - follow applicable procedures for all tasks being performed. Cont to Frac Interval Sleeve # 5 Start time:18:40 Stop time: 19:18 Frac sleeve depth: 3859 mKB Shifted sleeve at 17.70 MPa Fractured interval as follows: Break pressure = 12.50 MPa Min pressure = 27 MPa Max pressure = 46 MPa Slurry Rate = 3.0 m³/min Pad 5.0 m³ &lt;&gt; Proppant 68.1 m³ Max Conc sand @ perfs = 700kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out. ISIP = 8.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 109.70 m³ frac pumps and 31.2 m³ TP = 140.90 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
19:18	21:07	1.82 hr	<p>Wait on NuWave to repair water line and build sufficient water volume before starting next frac</p>
21:07	21:45	0.63 hr	<p>Frac Interval Sleeve # 6 Start time:21:07 Stop time: 21:45 Frac sleeve depth: 3818.4 mKB Shifted sleeve at 18.30 MPa Fractured interval as follows: Break pressure = 12.10 MPa Min pressure = 27 MPa Max pressure = 46 MPa Slurry Rate = 3.0 m³/min Pad 5.0 m³ &lt;&gt; Proppant 68.8 m³ Max Conc sand @ perfs = 800kg/m³ &lt;&gt; Total sand pumped 35.00 tonne &lt;&gt; Total sand in formation 35.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 33.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out. ISIP = 8.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 108.90 m³ frac pumps and 32.2 m³ TP = 141.10 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
21:45	22:39	0.90 hr	<p>Frac Interval Sleeve # 7 Start time:21:45 Stop time: 22:39 Frac sleeve depth: 3777.7 mKB Shifted sleeve at 18.60 MPa Fractured interval as follows: Break pressure = 14.10 MPa Min pressure = 29 MPa Max pressure = 45 MPa Slurry Rate = 3.0 m³/min Pad 5.0 m³ &lt;&gt; Proppant 64.6 m³ Max Conc sand @ perfs = 800kg/m³ &lt;&gt; Total sand pumped 34.00 tonne &lt;&gt; Total sand in formation 34.00 tonne &lt;&gt; 2.00 tonne 50/140 Local proppant &lt;&gt; 32.00 tonne 16/30 Northern White &lt;&gt; 0.00 tonne circulated out. ISIP = 8.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 102.40 m³ frac pumps and 30.2 m³ TP = 132.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.</p>
22:39	00:00	1.35 hr	<p>Blender blew hydraulic hose "return supply hose from augers" unable to repair hose on location. Prepare to R/D blender and move in spare blender enroute from Red Deer base. NOTE: located sleeve # 8 and displaced acid into formation. Closed sleeve and let NCS tool hang below NCS sleeve. Concurrent operations R/D the blender.</p>

TOTAL 23.97 hr

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00:00	05:38	5.63 hr	Cont to WO on blender - blender on location spot and rig in blender.
05:38	06:27	0.82 hr	Frac Interval Sleeve # 8 Start time: 5:38 Stop time: 6:17 Frac sleeve depth: 3736.7 mKB Shifted sleeve at 18.20 MPa Fractured interval as follows: Break pressure = 15.40 MPa Min pressure = 32.00 MPa Max pressure = 50.00 MPa Avg pressure = 43.00 MPa Slurry Rate = 3.0 m³/min Pad 5.0 m³ <> Proppant 66.0 m³ Max Conc sand @ perfs = 800kg/m³ <> Total sand pumped 36.00 tonne <> Total sand in formation 36.00 tonne <> 2.00 tonne 50/140 Local proppant <> 34.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 7.70 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 93.30 m³ frac pumps and 20.20 m³ TP = 114.00 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
06:27	06:28	0.02 hr	Morning safety meeting with crew, 44 people on location. Reviewed job scope for day to continue frac operations. Lease very muddy, take time moving equipment. Stay clear of cat. Keep out of hot zone at all times, use spotters to move all equipment. Any issues alert van.
06:28	07:26	0.97 hr	Frac Interval Sleeve # 9 Start time: 6:27 Stop time: 7:14 Frac sleeve depth: 3696.4 mKB Shifted sleeve at 18.00 MPa Fractured interval as follows: Break pressure = 14.20 MPa Min pressure = 33.40 MPa Max pressure = 45.40 MPa Avg pressure = 41.40 MPa Slurry Rate = 3.0 m³/min Pad 4.20 m³ <> Proppant 72.50 m³ Max Conc sand @ perfs = 900kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.20 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 98.90 m³ frac pumps and 23.30 m³ TP = 122.70 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
07:26	08:13	0.78 hr	Frac Interval Sleeve # 10 Start time: 7:26 Stop time: 8:00 Frac sleeve depth: 3656.0 mKB Shifted sleeve at 16.90 MPa Fractured interval as follows: Break pressure = 14.20 MPa Min pressure = 29.80 MPa Max pressure = 45.80 MPa Avg pressure = 41.10 MPa Slurry Rate = 3.0 m³/min Pad 3.0 m³ <> Proppant 61.60 m³ Max Conc sand @ perfs = 900kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.90 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 86.60 m³ frac pumps and 22.50 m³ TP = 109.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
08:13	09:03	0.83 hr	Frac Interval Sleeve # 11 Start time: 8:13 Stop time: 8:52 Frac sleeve depth: 3615.20 mKB Shifted sleeve at 18.00 MPa Fractured interval as follows: Break pressure = 11.80 MPa Min pressure = 34.70 MPa Max pressure = 46.40 MPa Avg pressure = 42.50 MPa Slurry Rate = 3.0 m³/min Pad 4.60 m³ <> Proppant 66.10 m³ Max Conc sand @ perfs = 900kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.70 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 92.40 m³ frac pumps and 17.30 m³ TP = 110.20 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
09:03	09:46	0.72 hr	Frac Interval Sleeve # 12 Start time: 9:03 Stop time: 9:37 Frac sleeve depth: 3574.6 mKB Shifted sleeve at 19.10 MPa Fractured interval as follows: Break pressure = 14.20 MPa Min pressure = 31.50 MPa Max pressure = 48.60 MPa Avg pressure = 42.10 MPa Slurry Rate = 3.0 m³/min Pad 3.00 m³ <> Proppant 64.20 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 88.50 m³ frac pumps and 17.70 m³ TP = 106.7 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
09:46	10:32	0.77 hr	Frac Interval Sleeve # 13 Start time: 9:46 Stop time: 10:20 Frac sleeve depth: 3534.10 mKB Shifted sleeve at 17.10 MPa Fractured interval as follows: Break pressure = 16.30 MPa Min pressure = 31.50 MPa Max pressure = 45.00 MPa Avg pressure = 40.00 MPa Slurry Rate = 3.0 m³/min Pad 2.60 m³ <> Proppant 62.30 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.20 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 86.00 m³ frac pumps and 17.70 m³ TP = 104.2 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
10:32	11:15	0.72 hr	Frac Interval Sleeve # 14 Start time: 10:32 Stop time: 11:04 Frac sleeve depth: 3493.20 mKB Shifted sleeve at 18.00 MPa Fractured interval as follows: Break pressure = 14.90 MPa Min pressure = 29.90 MPa Max pressure = 45.60 MPa Avg pressure = 40.50 MPa Slurry Rate = 3.0 m³/min Pad 2.60 m³ <> Proppant 60.80 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.50 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 84.60 m³ frac pumps and 17.90 m³ TP = 103.00 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
11:15	11:55	0.67 hr	Frac Interval Sleeve # 15 Start time: 11:15 Stop time: 11:48 Frac sleeve depth: 3452.70 mKB Shifted sleeve at 17.90 MPa Fractured interval as follows: Break pressure = 17.80 MPa Min pressure = 29.20 MPa Max pressure = 46.00 MPa Avg pressure = 39.50 MPa Slurry Rate = 3.0 m³/min Pad 2.70 m³ <> Proppant 60.50 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.60 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 84.10 m³ frac pumps and 17.90 m³ TP = 102.50 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
11:55	12:46	0.85 hr	Frac Interval Sleeve # 16 Start time: 11:55 Stop time: 12:32 Frac sleeve depth: 3412.00 mKB Shifted sleeve at 17.80 MPa Fractured interval as follows: Break pressure = 14.90 MPa Min pressure = 34.00 MPa Max pressure = 43.10 MPa Avg pressure = 39.10 MPa Slurry Rate = 3.0 m³/min Pad 1.80 m³ <> Proppant 61.90 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.90 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 84.40 m³ frac pumps and 18.70 m³ TP = 103.6 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
12:46	14:09	1.38 hr	Frac Interval Sleeve # 17 Start time: 12:46 Stop time: 13:19 Frac sleeve depth: 3371.40 mKB Shifted sleeve at 17.40 MPa Fractured interval as follows: Break pressure = 13.90 MPa Min pressure = 29.50 MPa Max pressure = 39.80 MPa Avg pressure = 36.70 MPa Slurry Rate = 3.0 m³/min Pad 2.30 m³ <> Proppant 63.20 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.60 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 85.90 m³ frac pumps and 16.20 m³ TP = 102.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Extra time for minor hydration unit repairs (check valve)
14:09	14:49	0.67 hr	Frac Interval Sleeve # 18 Start time: 14:09 Stop time: 14:41 Frac sleeve depth: 3331.10 mKB Shifted sleeve at 17.90 MPa Fractured interval as follows: Break pressure = 14.60 MPa Min pressure = 28.30 MPa Max pressure = 42.90 MPa Avg pressure = 37.70 MPa Slurry Rate = 3.0 m³/min Pad 1.90 m³ <> Proppant 62.50 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.90 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 84.70 m³ frac pumps and 17.60 m³ TP = 102.80 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
14:49	16:00	1.18 hr	Frac Interval Sleeve # 19 Start time: 14:49 Stop time: 15:24 Frac sleeve depth: 3290.40 mKB Shifted sleeve at 17.80 MPa Fractured interval as follows: Break pressure = 14.60 MPa Min pressure = 27.80 MPa Max pressure = 42.90 MPa Avg pressure = 38.40 MPa Slurry Rate = 3.0 m³/min Pad 1.20 m³ <> Proppant 64.10 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.60 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 85.40 m³ frac pumps and 14.20 m³ TP = 100.10 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. NOTE: Extra time on zone clean out gel pumps & load gel prior to starting next zone.



16:00	16:43	0.72 hr	Frac Interval Sleeve # 20 Start time: 16:00 Stop time: 16:34 Frac sleeve depth: 3249.9 mKB Shifted sleeve at 17.30 MPa Fractured interval as follows: Break pressure = 21.30 MPa Min pressure = 30.30 MPa Max pressure = 42.30 MPa Avg pressure = 38.00 MPa Slurry Rate = 3.0 m³/min Pad 2.10 m³ <> Proppant 63.00 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.60 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 85.10 m³ frac pumps and 14.00 m³ TP = 99.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
16:43	17:26	0.72 hr	Frac Interval Sleeve # 21 Start time: 16:43 Stop time: 17:17 Frac sleeve depth: 3209.30 mKB Shifted sleeve at 17.60 MPa Fractured interval as follows: Break pressure = 14.20 MPa Min pressure = 29.80 MPa Max pressure = 43.20 MPa Avg pressure = 38.10 MPa Slurry Rate = 3.0 m³/min Pad 2.20 m³ <> Proppant 62.80 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 84.70 m³ frac pumps and 14.50 m³ TP = 99.70 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
17:26	17:58	0.53 hr	Frac Interval Sleeve # 22 Start time: 17:26 Stop time: 17:58 Frac sleeve depth: 3168.70 mKB Shifted sleeve at 17.60 MPa Fractured interval as follows: Break pressure = 13.90 MPa Min pressure = 27.20 MPa Max pressure = 41.30 MPa Avg pressure = 35.50 MPa Slurry Rate = 3.0 m³/min Pad 1.30 m³ <> Proppant 62.30 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.60 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 93.40 m³ frac pumps and 14.0 m³ TP = 107.40 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
17:58	18:40	0.70 hr	Frac Interval Sleeve # 23 Start time: 17:58 Stop time: 18:40 Frac sleeve depth: 3128.0 mKB Shifted sleeve at 18.40 MPa Fractured interval as follows: Break pressure = 14.20 MPa Min pressure = 29.0 MPa Max pressure = 38.30 MPa Avg pressure = 35.0 MPa Slurry Rate = 3.0 m³/min Pad 1.30 m³ <> Proppant 58.30 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.40 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 88.70 m³ frac pumps and 14.8 m³ TP = 103.50 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
18:40	19:23	0.72 hr	Frac Interval Sleeve # 24 Start time: 18:40 Stop time: 19:23 Frac sleeve depth: 3087.2 mKB Shifted sleeve at 17.20 MPa Fractured interval as follows: Break pressure = 16.20 MPa Min pressure = 33.0 MPa Max pressure = 43.0 MPa Avg pressure = 39.0 MPa Slurry Rate = 3.0 m³/min Pad 2.0 m³ <> Proppant 60.40 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.10 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 91.30 m³ frac pumps and 13.8 m³ TP = 105.0 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
19:23	20:06	0.72 hr	Frac Interval Sleeve # 25 Start time: 19:23 Stop time: 20:06 Frac sleeve depth: 3047.0 mKB Shifted sleeve at 17.70 MPa Fractured interval as follows: Break pressure = 14.0 MPa Min pressure = 32.0 MPa Max pressure = 41.30 MPa Avg pressure = 36.0 MPa Slurry Rate = 3.0 m³/min Pad 2.0 m³ <> Proppant 66.90 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.90 MPa Unable to confirm sleeve closed after several attempts - P/T 13 mPa good test 97.90 m³ frac pumps and 12.3 m³ TP = 110.20 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
20:06	21:02	0.93 hr	Frac Interval Sleeve # 26 Start time: 20:06 Stop time: 21:02 Frac sleeve depth: 3006.4 mKB Shifted sleeve at 18.10 MPa Fractured interval as follows: Break pressure = 12.80 MPa Min pressure = 31.0 MPa Max pressure = 38.0 MPa Avg pressure = 36.0 MPa Slurry Rate = 3.0 m³/min Pad 1.20 m³ <> Proppant 60.30 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.90 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval (Note: took extra time to locate the sleeve) 90.40 m³ frac pumps and 12.7 m³ TP = 103.10 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
21:02	21:45	0.72 hr	Frac Interval Sleeve # 27 Start time: 21:02 Stop time: 21:41 Frac sleeve depth: 2965.5 mKB Shifted sleeve at 17.80 MPa Fractured interval as follows: Break pressure = 12.40 MPa Min pressure = 31.0 MPa Max pressure = 39.0 MPa Avg pressure = 36.0 MPa Slurry Rate = 3.0 m³/min Pad .60 m³ <> Proppant 58.70 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 7.30 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 90.50 m³ frac pumps and 13.5 m³ TP = 104.0 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
21:45	21:53	WARNING: Missing Time	
21:53	22:21	0.47 hr	Frac Interval Sleeve # 28 Start time: 21:53 Stop time: 22:21 Frac sleeve depth: 2924.6 mKB Shifted sleeve at 17.80 MPa Fractured interval as follows: Break pressure = 12.40 MPa Min pressure = 30.0 MPa Max pressure = 37.0 MPa Avg pressure = 36.0 MPa Slurry Rate = 3.0 m³/min Pad 2.0 m³ <> Proppant 57.30 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 7.50 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 91.0 m³ frac pumps and 12.3 m³ TP = 103.30 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
22:21	23:02	0.68 hr	Frac Interval Sleeve # 29 Start time: 22:21 Stop time: 23:02 Frac sleeve depth: 2883.9 mKB Shifted sleeve at 17.80 MPa Fractured interval as follows: Break pressure = 12.70 MPa Min pressure = 30.0 MPa Max pressure = 37.0 MPa Avg pressure = 34.0 MPa Slurry Rate = 3.0 m³/min Pad 1.0 m³ <> Proppant 56.40 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.20 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 89.30 m³ frac pumps and 12.3 m³ TP = 101.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
23:02	23:46	0.73 hr	Frac Interval Sleeve # 30 Start time: 23:02 Stop time: 23:46 Frac sleeve depth: 2843.2 mKB Shifted sleeve at 18.20 MPa Fractured interval as follows: Break pressure = 12.80 MPa Min pressure = 23.0 MPa Max pressure = 39.0 MPa Avg pressure = 36.0 MPa Slurry Rate = 3.0 m³/min Pad 0.6 m³ <> Proppant 56.90 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.60 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 89.1 m³ frac pumps and 13.5 m³ TP = 102.60 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. Perform maintenance and reset data van - fix hose clamp on water pump at water source
TOTAL			23.65 hr
Completions Daily Report • 2022-06-26			
00:47	01:13	0.43 hr	Frac Interval Sleeve #31 Start time: 00:47 Stop time: 01:13 Frac sleeve depth: 2802.9 mKB Shifted sleeve at 17.40 MPa Fractured interval as follows: Break pressure = 17.40 MPa Min pressure = 32.0 MPa Max pressure = 37.0 MPa Avg pressure = 35.0 MPa Slurry Rate = 3.0 m³/min Pad 1.4 m³ <> Proppant 53.20 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.0 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 85.5 m³ frac pumps and 12.3 m³ TP = 97.80 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
01:13	01:56	0.72 hr	Frac Interval Sleeve #32 Start time: 01:13 Stop time: 01:56 Frac sleeve depth: 2762.4 mKB Shifted sleeve at 17.60 MPa Fractured interval as follows: Break pressure = 12.20 MPa Min pressure = 30.0 MPa Max pressure = 38.0 MPa Avg pressure = 35.0 MPa Slurry Rate = 3.0 m³/min Pad 0.7 m³ <> Proppant 54.30 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <>

			33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.5 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 85.4 m³ frac pumps and 12.4 m³ TP = 97.80 m³ fresh water pumped into formation 0.50 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
01:56	02:35	0.65 hr	Frac Interval Sleeve #33 Start time: 01:56 Stop time: 02:35 Frac sleeve depth: 2721.9 mKB Shifted sleeve at 17.60 MPa Fractured interval as follows: Break pressure = 12.30 MPa Min pressure = 30.0 MPa Max pressure = 36.0 MPa Avg pressure = 34.0 MPa Slurry Rate = 3.0 m³/min Pad 0.6 m³ <> Proppant 53.30 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.2 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 86.7 m³ frac pumps and 12.8 m³ TP = 99.50 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
02:35	03:13	0.63 hr	Frac Interval Sleeve #34 Start time: 02:35 Stop time: 03:13 Frac sleeve depth: 2681.7 mKB Shifted sleeve at 17.60 MPa Fractured interval as follows: Break pressure = 12.40 MPa Min pressure = 30.0 MPa Max pressure = 35.0 MPa Avg pressure = 32.0 MPa Slurry Rate = 3.0 m³/min Pad 0.5 m³ <> Proppant 55.0 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.9 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 85.3 m³ frac pumps and 11.3 m³ TP = 96.60 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
03:13	03:54	0.68 hr	Frac Interval Sleeve #35 Start time: 03:13 Stop time: 03:54 Frac sleeve depth: 2640.8 mKB Shifted sleeve at 18.00 MPa Fractured interval as follows: Break pressure = 12.10 MPa Min pressure = 30.0 MPa Max pressure = 37.0 MPa Avg pressure = 33.0 MPa Slurry Rate = 3.0 m³/min Pad 0.8 m³ <> Proppant 57.2 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.8 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 87.4 m³ frac pumps and 11.2 m³ TP = 98.60 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. NOTE: having problems w/ pumps stopped and flushed pumps
03:54	04:34	0.67 hr	Frac Interval Sleeve #36 Start time: 03:13 Stop time: 03:54 Frac sleeve depth: 2600.4 mKB Shifted sleeve at 16.50 MPa Fractured interval as follows: Break pressure = 11.60 MPa Min pressure = 29.0 MPa Max pressure = 32.0 MPa Avg pressure = 30.0 MPa Slurry Rate = 3.0 m³/min Pad 0.8 m³ <> Proppant 55.9 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.4 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 86.6 m³ frac pumps and 11.2 m³ TP = 97.80 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil. NOTE: having problem w/ frac pump removed one pump to offline
04:34	05:16	0.70 hr	Frac Interval Sleeve #37 Start time: 04:34 Stop time: 05:16 Frac sleeve depth: 2560.0 mKB Shifted sleeve at 16.20 MPa Fractured interval as follows: Break pressure = 11.90 MPa Min pressure = 29.0 MPa Max pressure = 32.0 MPa Avg pressure = 30.0 MPa Slurry Rate = 3.0 m³/min Pad 0.5 m³ <> Proppant 56.7 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.4 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 86.5 m³ frac pumps and 11.4 m³ TP = 96.90 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
05:16	05:53	0.62 hr	Frac Interval Sleeve #38 Start time: 04:34 Stop time: 05:16 Frac sleeve depth: 2520.2 mKB Shifted sleeve at 16.50 MPa Fractured interval as follows: Break pressure = 11.90 MPa Min pressure = 27.0 MPa Max pressure = 33.0 MPa Avg pressure = 31.0 MPa Slurry Rate = 3.0 m³/min Pad 0.6 m³ <> Proppant 56.2 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.9 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 86.0 m³ frac pumps and 11.3 m³ TP = 97.30 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
05:53	05:54	0.02 hr	Held PJSM with day shift. Reviewed job scope for day to continuing frac operations. 44 people on shift. Continue to use spotters to move all equipment. Keep lease entrance organized. Stay focused near end of job. Keep mind on task. Any questions, concerns, problems bring to attention of supervisor immediately. Reviewed CalFrac PJSM / JSAs for applicable tasks. Noted lease is very rutted up, watch footing. Will have skid steer working to level lease as best we can throughout the day to minimize trip hazards.
05:54	06:40	0.77 hr	Frac Interval Sleeve #39 Start time: 06:03 Stop time: 06:31 Frac sleeve depth: 2479.40 mKB Shifted sleeve at 17.30 MPa Fractured interval as follows: Break pressure = 11.40 MPa Min pressure = 24.50 MPa Max pressure = 33.3 MPa Avg pressure = 29.8 MPa Slurry Rate = 3.0 m³/min Pad 0.5 m³ <> Proppant 55.4 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.5 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 72.1 m³ frac pumps and 11.0 m³ TP = 83.80 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
06:40	07:20	0.67 hr	Frac Interval Sleeve #40 Start time: 06:40 Stop time: 07:10 Frac sleeve depth: 2439.10 mKB Shifted sleeve at 17.30 MPa Fractured interval as follows: Break pressure = 15.50 MPa Min pressure = 27.30 MPa Max pressure = 31.30 MPa Avg pressure = 28.90 MPa Slurry Rate = 3.0 m³/min Pad 2.40 m³ <> Proppant 55.6 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.40 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 74.0 m³ frac pumps and 11.7 m³ TP = 86.40 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
07:20	07:59	0.65 hr	Frac Interval Sleeve #41 Start time: 07:20 Stop time: 07:50 Frac sleeve depth: 2398.50 mKB Shifted sleeve at 16.30 MPa Fractured interval as follows: Break pressure = 13.20 MPa Min pressure = 25.40 MPa Max pressure = 29.40 MPa Avg pressure = 27.40 MPa Slurry Rate = 3.0 m³/min Pad 1.80 m³ <> Proppant 56.20 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.30 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 73.80 m³ frac pumps and 11.3 m³ TP = 85.80 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
07:59	08:38	0.65 hr	Frac Interval Sleeve #42 Start time: 07:59 Stop time: 08:30 Frac sleeve depth: 2357.7 mKB Shifted sleeve at 15.90 MPa Fractured interval as follows: Break pressure = 15.90 MPa Min pressure = 25.80 MPa Max pressure = 30.50 MPa Avg pressure = 28.80 MPa Slurry Rate = 3.0 m³/min Pad 1.60 m³ <> Proppant 58.50 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.10 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 75.8 m³ frac pumps and 11.4 m³ TP = 87.90 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
08:38	09:17	0.65 hr	Frac Interval Sleeve #43 Start time: 08:38 Stop time: 09:08 Frac sleeve depth: 2316.7 mKB Shifted sleeve at 15.60 MPa Fractured interval as follows: Break pressure = 14.50 MPa Min pressure = 24.20 MPa Max pressure = 40.30 MPa Avg pressure = 26.70 MPa Slurry Rate = 3.0 m³/min Pad 0.80 m³ <> Proppant 55.90 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 72.00 m³ frac pumps and 11.2 m³ TP = 83.90 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
09:17	09:54	0.62 hr	Frac Interval Sleeve #44 Start time: 09:17 Stop time: 09:46 Frac sleeve depth: 2276.40 mKB Shifted sleeve at 16.30 MPa Fractured interval as follows: Break pressure = 14.20 MPa Min pressure = 23.80 MPa Max pressure = 32.60 MPa Avg pressure = 28.00 MPa Slurry Rate = 3.0 m³/min Pad 1.10 m³ <> Proppant 56.90 m³ Max Conc sand @ perfs = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.20 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 73.20 m³ frac pumps and 11.2 m³ TP = 85.10 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.



09:54	10:32	0.63 hr	Frac Interval Sleeve #45 Start time: 09:54 Stop time: 10:23 Frac sleeve depth: 2235.60 mKB Shifted sleeve at 16.70 MPa Fractured interval as follows: Break pressure = 14.70 MPa Min pressure = 23.50 MPa Max pressure = 31.50 MPa Avg pressure = 29.70 MPa Slurry Rate = 3.0 m³/min Pad 0.80 m³ <> Proppant 57.20 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.50 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 73.00 m³ frac pumps and 10.80 m³ TP = 84.50 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
10:32	11:09	0.62 hr	Frac Interval Sleeve #46 Start time: 10:32 Stop time: 11:00 Frac sleeve depth: 2194.90 mKB Shifted sleeve at 15.80 MPa Fractured interval as follows: Break pressure = 14.00 MPa Min pressure = 24.40 MPa Max pressure = 32.30 MPa Avg pressure = 28.30 MPa Slurry Rate = 3.0 m³/min Pad 0.90 m³ <> Proppant 53.20 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.50 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 69.00 m³ frac pumps and 11.10 m³ TP = 80.80 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
11:09	11:46	0.62 hr	Frac Interval Sleeve #47 Start time: 11:09 Stop time: 11:37 Frac sleeve depth: 2154.20 mKB Shifted sleeve at 16.80 MPa Fractured interval as follows: Break pressure = 13.20 MPa Min pressure = 25.40 MPa Max pressure = 28.80 MPa Avg pressure = 27.30 MPa Slurry Rate = 3.0 m³/min Pad 1.10 m³ <> Proppant 53.90 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.20 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 69.50 m³ frac pumps and 11.30 m³ TP = 81.50 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
11:46	12:24	0.63 hr	Frac Interval Sleeve #48 Start time: 11:46 Stop time: 12:15 Frac sleeve depth: 2113.6 mKB Shifted sleeve at 16.70 MPa Fractured interval as follows: Break pressure = 13.00 MPa Min pressure = 24.20 MPa Max pressure = 27.40 MPa Avg pressure = 26.50 MPa Slurry Rate = 3.0 m³/min Pad 3.00 m³ <> Proppant 55.60 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.60 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 73.00 m³ frac pumps and 11.40 m³ TP = 85.10 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
12:24	13:02	0.63 hr	Frac Interval Sleeve #49 Start time: 12:24 Stop time: 12:52 Frac sleeve depth: 2073.0 mKB Shifted sleeve at 16.70 MPa Fractured interval as follows: Break pressure = 13.50 MPa Min pressure = 23.50 MPa Max pressure = 29.00 MPa Avg pressure = 26.80 MPa Slurry Rate = 3.0 m³/min Pad 3.00 m³ <> Proppant 54.10 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.10 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 69.20 m³ frac pumps and 11.40 m³ TP = 81.30 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
13:02	13:37	0.58 hr	Frac Interval Sleeve #50 Start time: 13:02 Stop time: 13:31 Frac sleeve depth: 2032.6 mKB Shifted sleeve at 17.00 MPa Fractured interval as follows: Break pressure = 14.10 MPa Min pressure = 24.50 MPa Max pressure = 27.70 MPa Avg pressure = 26.20 MPa Slurry Rate = 3.0 m³/min Pad 1.00 m³ <> Proppant 56.50 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.00 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 71.50 m³ frac pumps and 11.10 m³ TP = 83.30 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
13:37	14:25	0.80 hr	Frac Interval Sleeve #51 Start time: 13:37 Stop time: 14:12 Frac sleeve depth: 1992.2 mKB Shifted sleeve at 16.10 MPa Fractured interval as follows: Break pressure = 12.60 MPa Min pressure = 19.60 MPa Max pressure = 27.50 MPa Avg pressure = 24.00 MPa Slurry Rate = 3.0 m³/min Pad 1.30 m³ <> Proppant 55.20 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 9.80 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 70.00 m³ frac pumps and 11.60 m³ TP = 82.30 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
14:25	15:09	0.73 hr	Frac Interval Sleeve #52 Start time: 14:25 Stop time: 14:52 Frac sleeve depth: 1951.50 mKB Shifted sleeve at 15.90 MPa Fractured interval as follows: Break pressure = 13.20 MPa Min pressure = 23.00 MPa Max pressure = 28.70 MPa Avg pressure = 25.60 MPa Slurry Rate = 3.0 m³/min Pad 1.30 m³ <> Proppant 55.10 m³ Max Conc sand @ perms = 1000kg/m³ <> Total sand pumped 35.00 tonne <> Total sand in formation 35.00 tonne <> 2.00 tonne 50/140 Local proppant <> 33.00 tonne 16/30 Northern White <> 0.00 tonne circulated out. ISIP = 8.90 MPa Closed sleeve and confirmed with closed locate, Move tools to next interval 70.00 m³ frac pumps and 13.00 m³ TP = 83.70 m³ fresh water pumped into formation 0.70 m³ Fluid Energy HCR 7000Frac pumped as acid spearhead down coil.
15:09	16:00	0.85 hr	Pulled off last sleeve with tool and set packer at 1935mKb. Pressure tested packer and wellbore to 21MPa for 10 minutes, held solid. Unset packer and hung in well. Flushed wellbore as follows: 5m3 x-link fluid 18m3 linear gel with 2l/m3 MFR 9m3 slick water Pumped at 3m3 /min. Displaced linear gel into lateral with MFR for sleeve opening run. Flushed wellbore with cross link out toe for any residual sand in well. Set tool and pressure tested to 14MPa, held solid. Readied to POOH w/ coil
16:00	16:01	0.02 hr	BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 Frac Summary CalFrac Well Service Dyna Aqua - 1 Pumps in June 23, 2022 13:30 HRS Pumps out June 26, 2022 14:52 HRS Program # FCMD0058-5 Pumped as per Program. 6491m³ Fresh water pumped from: Gravel Pit Source SW-5-51-2W5 - TDL # 483653 Load Fluids: Frac Clean: 4317.0m³ TP Clean: 851.60m³ Total Clean to Formation: 5168.60m³ (99.4m³ / stage average) Fluid Energy Enviro-Syn HCR 7000 Frac Acid: 36.00m³ Total Load fluid to recover from frac: 5204.60m³ 105.67 tonne 50/140 Local pumped to well, 105.67 tonne placed, 0 tonne circulated out 1717.15 tonne 16/30 Northern White pumped to well, 1717.15 tonne placed, 0 tonne circulated out All zones placed as per program.
16:01	17:30	1.48 hr	POOH w/ coil. Tagged out in lubricator, shut in 2 x master valves to secure well.
17:30	18:30	1.00 hr	Tool down NCS BHA, release tool hands. Packer / BHA in good condition, no issues, concerns or missing components. Stabbed onto well and readied to purge / pig coil to testers.
18:30	18:45	0.25 hr	Held Pre Job Safety Meeting with the following discussed, rigging down equipment watch hand and finger placement - congested location watch trapped between loads use spotters while reversing - good communication w/ all contractors while moving equipment on location - all contractors to follow their applicable SOPs for each task being performed.
18:45	00:00	5.25 hr	Pig and purge coil - coil purged out start rigging down of coil unit concurrent operations R/D filter and water transfer unit, test vessel and other frac support items. NuWave pigged water line and rigged out equipment at the source.
<b>TOTAL23.22 hr</b>			
<b>Completions Daily Report • 2022-06-27</b>			
00:00	06:00	6.00 hr	Cont to R/D CalFrac CT unit 100% and released same along w/ Tryson crane unit. NuWave at source rolling up water transfer line.
<b>TOTAL6.00 hr</b>			



WELL DATA				
NAME	LICENSE #	COST CENTRE	UWI	LOCATION
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4	0502001	TBD	100/16-11-051-02W5/00	LEDUC-WB AB, Canada
COMPLETIONS DETAIL				
COMPLETIONS TYPE	START DATE	FINISH DATE	OBJECTIVE	
Open Hole	2022-06-10		Initial completion, HZ annular fracture	
NON-PRODUCTIVE TIME EVENTS				
No NPT events available				

WELL DATA									
NAME				LICENSE #	COST CENTRE	UWI	LOCATION		
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4				0502001	TBD	100/16-11-051-02W5/00		LEDUC-WB AB, Canada	
COMPLETIONS DETAIL									
COMPLETIONS TYPE		START DATE	FINISH DATE	OBJECTIVE					
Open Hole		2022-06-10		Initial completion, HZ annular fracture					
DAILY FLUID MOVEMENT									
3%KCL									
NOTE Eldorado yard									
DATE	COMPANY	TICKET	SOURCE/DEST	LEASE		WELL		REMAINING	
				TO	FROM	TO	FROM	TANK	WELL
2022-06-13	Eldorado	172126	Eldorado yard	6.00 m³				6.00 m³	0.00 m³
2022-06-13	NOTE pressure test and DFIT					6.00 m³		0.00 m³	6.00 m³
TOTAL				6.00 m³	0.00 m³	6.00 m³	0.00 m³	0.00 m³	6.00 m³
Fluid Energy Enviro-Syn HCR 7000 Frac Acid									
NOTE Fluid Energy									
DATE	COMPANY	TICKET	SOURCE/DEST	LEASE		WELL		REMAINING	
				TO	FROM	TO	FROM	TANK	WELL
2022-06-13	Hauling Acid	3290	Fluid Energy	30.00 m³				30.00 m³	0.00 m³
2022-06-13	Hauling Acid	3595	Fluid Energy	6.00 m³				36.00 m³	0.00 m³
2022-06-26	NOTE spear head during frac					36.00 m³		0.00 m³	36.00 m³
TOTAL				36.00 m³	0.00 m³	36.00 m³	0.00 m³	0.00 m³	36.00 m³
Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653									
NOTE Gravel Pit Source SW-5-51-2W5 - TDL # 483653									
DATE	COMPANY	TICKET	SOURCE/DEST	LEASE		WELL		REMAINING	
				TO	FROM	TO	FROM	TANK	WELL
2022-06-26	NewWave water line	0626d2022	Gravel Pit Source SW-5-51-2W5 - TDL # 483653	5,375.00 m³				5,375.00 m³	0.00 m³
2022-06-26	NOTE Load fluid from frac (clean)					5,168.60 m³		206.40 m³	5,168.60 m³
TOTAL				5,375.00 m³	0.00 m³	5,168.60 m³	0.00 m³	206.40 m³	5,168.60 m³

WELL DATA				
NAME	LICENSE #	COST CENTRE	UWI	LOCATION
<b>BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4</b>	<b>0502001</b>	<b>TBD</b>	<b>100/16-11-051-02W5/00</b>	<b>LEDUC-WB AB, Canada</b>
COMPLETIONS DATA				
NAME	START DATE	END DATE	AFE #	AFE AMOUNT
<b>Initial Completions</b>	<b>2022-06-10</b>		<b>22CP0009</b>	<b>\$1,919,760.00</b>
Initial Completions Remarks				