

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	2022-07-08	
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



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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



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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
ADDITIVES							
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
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	
2022-01-29		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	\$2,256,021.52	\$2,256,021.52	-	-
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	
0.60 m	4.90 m	0.00 m	5.50 m		TOTAL RENTALS	RIG TIME
					\$16,159.50	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			
High Mark Well Service	4	2022-07-06	2022-07-08			
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		
15%KCL	0.00 m³	25.00 m³	-	25.00 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	0.00 m³	5,225.00 m³	-	5,225.00 m³		
# 483653						
Produced water with clay stabilizer and biocide	0.00 m³	-	-	0.00 m³		
TOTAL		5,292.00 m³	0.00 m³			

RECENT DAILY OPERATIONS - 2022-07-08

DAILY STATUS
Ran COROD, rigged out
24 HOUR SUMMARY
RIH w/ New 28.6mm ProRod 780M corod.



Spaced out, installed top drive.
Rigged out and released SR.

5,292.00 m³ Load fluid to recover from completion

NEXT 24 HOURS

Turned well over to construction for tie in.



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



BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 - Initial Completions Daily Reports
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
COMPLETION TYPE	START DATE	END DATE	OBJECTIVE		
Open Hole	2022-06-10	2022-07-08	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	\$9,805.00	\$9,805.00	\$45,983.00	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	\$12,207.40	\$12,207.40	\$58,190.40	NewWave continued to rig in Water line to river. CalFrac hauling sand.	
2022-06-13	\$50,903.47	\$50,903.47	\$109,093.87	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	\$5,215.00	\$5,215.00	\$114,308.87	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	\$37,584.25	\$37,584.25	\$151,893.12	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	\$16,426.75	\$16,426.75	\$168,319.87	CalFrac hauling sand NewWave resume installing surface water line. Heavy rains in afternoon, lease is very muddy.	
2022-06-23	\$116,498.25	\$116,498.25	\$284,818.12	Hauling sand Move in CalFrac and required services for frac	
2022-06-24	\$291,945.85	\$291,945.85	\$576,763.97	Fracced 7 zones had hose failure on blender.	
2022-06-25	\$501,623.25	\$501,623.25	\$1,078,387.22	Fracture intervals 8 to 30	
2022-06-26	\$632,984.27	\$632,984.27	\$1,711,371.49	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	\$12,522.65	\$12,522.65	\$1,723,894.14	CalFrac on site moving out sand hogs and belts, needed cat to get off location. TKO on site loading and hauling out pumps and rentals NewWave rigging out water line.	
2022-06-28	\$9,454.25	\$9,454.25	\$1,733,348.39	NewWave tearing out water line. Pile Base hauled out Buffer tanks TKO hauled remaining rig matting Sent 1 load of hose reels back to NewWave	
2022-06-29	\$74,102.59	\$74,102.59	\$1,807,450.98	NewWave continued to tear out water line. Loading trucks and hauling out equipment	
2022-07-04	\$24,988.25	\$24,988.25	\$1,832,439.23	Move in and R/U coil tubing unit	
2022-07-05	\$87,567.82	\$87,567.82	\$1,920,007.05	Opened all 52 NCS sleeves. Rigged out and released CalFrac & NCS	



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

2022-07-06	\$141,150.74	\$141,150.74	\$2,061,157.79	GNE on site, installed BPV in hanger, removed frac head assembly Moved in High Mark double rig # 4 Killed well with 15%KCL. Stung out of seal bore latch assembly, laid out 70 joints of tie back to catwalk
2022-07-07	\$31,832.60	\$31,832.60	\$2,092,990.39	Pulled and laid out remaining tie back, sent to Shawcor Nisku for inspection / repairs. Ran new 59-1800 stator on new 89mm J-55 TBG. Landed hanger, NDBOPs, NUWH and secured well for night.
2022-07-08	\$163,031.13	\$163,031.13	\$2,256,021.52	RIH w/ New 28.6mm ProRod 780M corod. Spaced out, installed top drive. Rigged out and released SR. 5,292.00 m³ Load fluid to recover from completion

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	0.60 m	4.90 m	0.00 m	5.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS	
2022-07-08	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	
10.50 hr	0.00 hr	0.00 e³m³	0.00 e³m³		0.00 kPa	0.00 kPa	
COSTS					DAILY RENTALS		
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE	COMPL. CUMULATIVE		TOTAL DAILY	COMPL. TOTAL	
\$163,031.13	\$163,031.13	\$2,256,021.52	\$2,256,021.52		\$1,154.25	\$16,159.50	
DAILY OPERATIONS					PERSONNEL		
<div>DAILY STATUS Ran COROD, rigged out</div> <div>24 HOUR SUMMARY RIH w/ New 28.6mm ProRod 780M corod. Spaced out, installed top drive. Rigged out and released SR.</div> <div>5,292.00 m³ Load fluid to recover from completion</div> <div>NEXT 24 HOURS Turned well over to construction for tie in.</div>					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER		
					Nick Stanford 403-804-0296		
					CONSULTANT Shannon Harden 780-542-1997		
					COMPLETION RIGS		
					CONTRACTOR	#	START
High Mark Well Service	4	2022-07-06	2022-07-08				
					WEATHER		
					GENERAL		
					Clear		
					ROAD CONDITION		
					Poor, muddy		
					TIME	TEMP	
					07:00	12°C	
TIME LOG							
FROM	TO	DUR	NPT CODE	DETAILS			
07:30	08:00	0.5 h		Held PJSM with High Mark, Amped and ProRod. Reviewed job scope for day to rig in gripper, run corod, space out, install top drive and rig out. Reviewed good communication rigging gripper in and out. Watch pinchpoints while building guide sections, keep hands clear of gripper at all times. Reviewed rig in and rig out procedures, reviewed stripping top drive over polish rod, reviewed rigging out SR at end of job. Reviewed vendor JSAs for applicable tasks. Good communication between services. Take time spotting equipment in mud. Stay clear of cat while towing. Do not enter tow area unless cat is at rest. If unsure of task STOP and ask prior to proceeding. R&R well pressures TSTM both sides. Spotted Amped gripper unit. Rigged pump lines into TBG, tested line to 12Mpa. Flushed TBG with 8m3 - 5%KCL at 300l/min & 1MPa.			
08:00	11:00	3.0 h		R&R well pressures TSTM both sides. Amped gripper unit blew a belt and overheated. Changed belt but has hole in rad. Waited on new gripper to arrive. ProRod on site with new rod. Wilf Brandt hauled out remaining fluid from 400bbl tanks. Hauled to secure Buck Creek. Amped replacement gripper arrived on location.			
11:00	14:00	3.0 h		Spotted gripper. Rigged in rod BOP to composite flow T. Picked up and hung rotor in well (greased) Function tested BOP - working correctly. Picked up gripper and hung with blocks. Made up arch. Ran corod thru guide and secured direct to rotor with new 1" slimhole HI-T coupling. RIH w/ 1297m 28.6mm ProRod 780M Clamped off corod, rigged down arch, rigged down gripper unit. Picked up and ran 2 plain rods and ponies w/ Polish rod. Spaced out 30" off tag bar over string weight as per Weatherford recommendation. Full rod string ran as follows: 1 - 31.75mm x 12.2m Polish rod 1 - 1" x 3" spin thru for 3-1/2" TBG 2 - 25.4mm x 31.75mm Plain Ponies - 2', 6' 2 - 25.4mm x 31.75mm Plain Rods 1297m - ProRod 28.6mm 780M Corod string, 1" pins both ends 1 - Weatherford 59-1800 Rotor Stripped on Weatherford MG top drive and secured to OilLift flow T. Secured with 8 bolt clamp and left 3" Polish rod stick up. Installed lockdown on clamp.			
14:00	16:00	2.0 h		Released ProRod transport and Amped gripper unit. Shut in well and night capped. Rigged down High Mark rig 4. Loaded tank. Pre-Tripped equipment and readied to move.			
16:00	17:00	1.0 h		Winch cat pulled equipment onto matting.			
17:00	18:00	1.0 h		High Mark rig 4 moved back to base in Drayton Valley.			
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



Daily Initial Completions Report - 2022-07-08 - Day #19
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

"15%KCL		RUNNING	6.00 m ³	0.00 m ³	6.00 m ³	0.00 m ³	0.00 m ³	6.00 m ³
NOTE	Flush tubing				10.00 m ³	0.00 m ³	25.00 m ³	
		TODAY	0.00 m ³	0.00 m ³	10.00 m ³	0.00 m ³	-10.00 m ³	10.00 m ³
		RUNNING	25.00 m ³	0.00 m ³	25.00 m ³	0.00 m ³	0.00 m ³	25.00 m ³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	36.00 m ³	0.00 m ³	36.00 m ³	0.00 m ³	0.00 m ³	36.00 m ³
"Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653								
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	5,225.00 m ³	0.00 m ³	5,225.00 m ³	0.00 m ³	0.00 m ³	5,225.00 m ³
"Produced water with clay stabilizer and biocide								
Wilf Brandt	199516, 199517			61.00 m ³		0.00 m ³	0.00 m ³	0.00 m ³
		TODAY	0.00 m ³	61.00 m ³	0.00 m ³	0.00 m ³	-61.00 m ³	0.00 m ³
		RUNNING	91.00 m ³	91.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³

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		0.60 m		4.90 m		0.00 m		5.50 m									
REPORT DETAILS																							
REPORT DATE				PERCENT COMPLETE				RIG TIME				TOTAL RIG TIME				MAN HOURS				TOTAL MAN HOURS			
2022-07-07				-				-				0.00 hr				-				0.00 hr			
TOTAL TIME				NON-PRODUCTIVE				FLARE VOLUME				TOTAL DAILY FLARE				CASING PRESSURE				TUBING PRESSURE			
12.00 hr				0.00 hr				-				0.00 e³m³				-				-			
COSTS												DAILY RENTALS											
TOTAL DAILY				COMPL. TOTAL				TOTAL CUMULATIVE				COMPL. CUMULATIVE				TOTAL DAILY				COMPL. TOTAL			
\$31,832.60				\$31,832.60				\$2,092,990.39				\$2,092,990.39				\$1,154.25				\$15,005.25			
DAILY OPERATIONS												PERSONNEL											
DAILY STATUS Pulled tieback, ran production 24 HOUR SUMMARY Pulled and laid out remaining tie back, sent to Shawcor Nisku for inspection / repairs. Ran new 59-1800 stator on new 89mm J-55 TBG. Landed hanger, NDBOPs, NUWH and secured well for night. NEXT 24 HOURS Run corod, rig out												CONSULTANT				Dustin Kreiser 403-502-4023				DRILLING AND COMPLETIONS MANAGER			
												Nick Stanford				403-804-0296				CONSULTANT			
												Shannon Harden				780-542-1997							
												COMPLETION RIGS											
												CONTRACTOR		#		START		RELEASE					
High Mark Well Service		4		2022-07-06		2022-07-08																	
WEATHER																							
GENERAL																							
Overcast / rain																							
ROAD CONDITION																							
Poor, muddy																							
TIME				TEMP																			
07:00				14°C																			
TIME LOG																							
FROM		TO		DUR		NPT CODE		DETAILS															
07:30		08:00		0.5 h				Held PJSM with crew, issued and reviewed Blackspur safe work permit. Reviewed job scope for day to kill well with 15%KCL, pull and lay out tie back, change over to 89mm & run production, rig out handling equipment, NDBOPs, NUWH and secure well. Reviewed High Mark PJSM / JSAs for applicable tasks. Lease is very muddy, take time moving equipment around. Keep catwalk clean and free of trip hazards. R&R well pressures, TSTM both sides (slight vac) Function tested BOPs, working correctly. Function tested Ekills crown saver & rig horn working correctly. Readied equipment to POOH.															
08:00		08:30		0.5 h				Pulled and laid down remaining 46 - 114mm P-110 BTC casing joints. Total 116 pulled and laid out + pups. Stinger (Packer Plus looks like new, will ship to Packers Plus Red Deer for Blackspur custom property.) NOTE: Transferred 116 joints of 114mm P-110 20.09kg/m BTC to Shawcor Nisku for inspection / repairs. Rigged out 4.5" tongs and handling equipment. Returned equipment to TKO.															
08:30		11:30		3.0 h				Changed over handling equipment to 89mm. Landed hanger with pup & TI in place. Tested pipe rams to 1.4MPa & 21MPa for 10 min each, held 100% R&R well pressures, TSTM both sides. Pulled hanger and removed. Rugged on site with Pump & BHA, offloaded & tallied BHA. Readied floor to RIH.															
11:30		13:00		1.5 h				Transferred in 89mm New J-55 Evraz TBG to catwalk with loader Picked up, tallied, drifted & RIH w/ Production string as follows: (Note all components are new except btm 5 tail joints are Blue band from battery stock) KB - THF: 4.90m 1 - 177mm x 89mm TC style TBG hanger (less top collar): 0.15m 1 - 89mm J-55 8rdd EUE Evraz TBG JT: 9.55m 1 - 89mm 10' pup joint: 3.08m 137 - 89mm J-55 8rd EUE Evraz TBG JTS: 1311.19m (Note: BTM 3 Joints are Q2 wear resistant L80 joints, # 1,2,3 in tally) 1 - 89mm 4' Boronized pup joint: 1.29m 1 - Weatherford 59-1800 Stator w/ tag bar: 10.79m - Ran at 11.20% EFF, 300RPM, 952 ft/lbs torque and full lift s/n# 10545202 1 - 177mm x 89mm 5 blade CTA NTT: 0.70m 1 - 89mm 6' handling pup: 1.89m 1 - 89mm x 73mm bottleneck XO: 0.14m 1 - Spirit Hybrid X 2 piece gas separator: 5.78m 1 - 73mm x 89mm Fishneck XO: 0.15m 5 - 89mm Blueband tail joints: 46.46m 1 - 89mm solid bull plug and collar: 0.25m 138 Full joints to pump top 143 Full joints in well Pump top at 1330.16mKb <> 49 deg INC <> 1265m TVD Pump btm at: 1340.95 <> 50 deg INC <> 1294m TVD End of TBG: 1396.32mKb <> 63 deg INC <> 1320m TVD Liner Hanger: 1570.22mKb <> 86 deg INC <> 1364m TVD Landed hanger, did in lags.															
13:00		17:00		4.0 h																			



Daily Initial Completions Report - 2022-07-07 - Day #18
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

17:00	18:30	1.5 h	Full tally in attachments. Rigged out work floor and TBG handling equipment. Stripped off Class 3 BOP stack and secured on transport spool. Rotated wellhead for operations tie in. Secured and tested seals to 2400PSI - Held solid.
18:30	19:30	1.0 h	NOTE: Wilf Brand on site, hauled produced water back to 16-5-50-1w5 battery, Wilf Brandt vac on site cleaned open top tanks and hauled fluid to Secure Buck Creek Installed new OilLift 3000# composite flow T and fitting. C/W 1.25" rod lock BOPs. Night capped well, shut in and secured. Night cap well and rig tank. SDFN.

DAILY FLUIDS							
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING
			TO	FROM	TO	FROM	TANK WELL
"3%KCL							
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	6.00 m ³	0.00 m ³	6.00 m ³	0.00 m ³	6.00 m ³
"15%KCL							
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	25.00 m ³	0.00 m ³	15.00 m ³	0.00 m ³	15.00 m ³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid							
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	36.00 m ³	0.00 m ³	36.00 m ³	0.00 m ³	36.00 m ³
"Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653							
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	5,225.00 m ³	0.00 m ³	5,225.00 m ³	0.00 m ³	5,225.00 m ³
"Produced water with clay stabilizer and biocide							
Wilf Brandt	200705	16-5-50-1w5 Bty		10.00 m ³			81.00 m ³
Wilf Brandt	200706	16-5-50-1w5 bty		10.00 m ³			71.00 m ³
Wilf Brandt	200707	16-5-50-1w5 Bty		10.00 m ³			61.00 m ³
		TODAY	0.00 m ³	30.00 m ³	0.00 m ³	0.00 m ³	-30.00 m ³
		RUNNING	91.00 m ³	30.00 m ³	0.00 m ³	0.00 m ³	61.00 m ³

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	0.60 m	4.90 m	0.00 m	5.50 m	
REPORT DETAILS								
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS		TOTAL MAN HOURS	
2022-07-06	-	-	0.00 hr		-		0.00 hr	
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE		TUBING PRESSURE	
12.50 hr	0.00 hr	-	0.00 e³m³		-		-	
COSTS					DAILY RENTALS			
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL		
\$141,150.74	\$141,150.74	\$2,061,157.79		\$2,061,157.79	\$1,154.25	\$13,851.00		
DAILY OPERATIONS					PERSONNEL			
DAILY STATUS MISR 24 HOUR SUMMARY GNE on site, installed BPV in hanger, removed frac head assembly Moved in High Mark double rig # 4 Killed well with 15%KCL. Stung out of seal bore latch assembly, laid out 70 joints of tie back to catwalk NEXT 24 HOURS Lay out tie back, run production					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER Nick Stanford 403-804-0296 CONSULTANT Shannon Harden 780-542-1997			
					COMPLETION RIGS			
					CONTRACTOR	#	START	RELEASE
					High Mark Well Service	4	2022-07-06	2022-07-08
					WEATHER			
GENERAL Overcast ROAD CONDITION Poor, very muddy TIME 07:00			TEMP 12°C					
TIME LOG								
FROM	TO	DUR	NPT CODE	DETAILS				
07:30	08:00	0.5 h		Held PJSM with GNE. Issued and reviewed Blackspur safe work permit. Reviewed job scope to rig up, R&R SICP, pull off frac tree and leave bottom BX-155 valve, install BPV, remove bonnett and remaining valve. Wait for SR to install BOPs, lube out BPV. Rig out. Reviewed rigging up in mud, confirm good rig in on picker on swamp matting. Reviewed working under pressure, good communication with rig crew when closing or opening blind rams. If unsure of task STOP and ask. Reviewed GNE safe work procedures for applicable tasks.				
08:00	09:30	1.5 h		GNE spotted picker truck and rigged in. R&R well pressures SICP: 300kPa - Fluid to surface. Closed bottom master and performed negative pressure test - held solid at 0kPa for 10 minutes. Split frac tree and rigged down. Loaded on GNE flat deck. Installed lubricator on BX-155 connection. Lubed in BPV, installed in hanger. Negative pressure test for 10 minutes - 0kPa. Removed Lubricator. Left master valve on well until rig BOPs are ready. High Mark SR on location.				
09:30	09:45	0.25 h		Held PJSM with High Mark well service rig 4. Issued and reviewed Blackspur safe work permit, Dir 33 and site ERP. Reviewed job scope for day to move in SR, tow as needed with Cat to spot, rig up, install BOPs and pressure test, pull BPV, rig in tongs to pull and lay out tie back string. Reviewed stuck and tow with cat. Stay clear of winch line. Do NOT enter area between cat and stuck unit at any time while winching. Reviewed High Mark PJSM / JSAs for applicable tasks. Take time working in mud. Take breaks as needed. Reviewed procedures to lay out tie back and use winch on heavy lifts. Spotted 4 - 8' x 40' rig matting for SR.				
09:45	11:30	1.75 h		Spotted High Mark service rig and support equipment utilizing cat to position each piece of equipment. Cannot move off swamp matting without being pulled by winch cat. Spotted equipment as per AER spacing regulations.				
11:30	14:30	3.0 h		Grounded all equipment to wellhead. Rigged up SR and support equipment. Centered over hole Decked tank and laid lines. Nelson Bros moved in 25m3 - 15%KCL to rig tank. Function tested Ekills, crown saver and rig horn, all working correctly. Spotted and rigged in TKO catwalk. Stump tested BOPs blind rams and 114mm TI valve to 1.4MPa & 21MPa for 10 min each, 100%. Great north removed 2nd BX-155 valve. Installed pup with TI valve in hanger. Crew installed Class 3 BOP stack on 3000# TBG head and secured. Pressure tested 114mm pipe ram to 1.4MPa & 21MPa for 10 min each, held 100% Tested annular to 7MPa - held solid. GNE rigged in lubricator to top of R46 BOP flange. Removed BPV, pressure 200kPa, fluid to surface and flowing to rig tank thru work spool once BPV removed and flow checked, shut in well. Rigged out and released GNE & Frac head.				
14:30	15:15	0.75 h		Rigged in work floor and 114mm handling equipment. Flow check well. Flowing full 2" to rig tank. Flowed back 0.50m3 - shut in. Pumped 5m3 15%KCL down TBG at 300l/min & 1MPa Pumped 10m3 15%KCL down annulus at 300l/mini & 0.5MPa Let well sit for 5 minutes				

15:15	15:30	0.25 h	R&R well pressures, TSTM both sides. Undid lags, closed T1 valve. Picked up to 30daN string weight. Rotated casing to right with tongs 14 times - came free from seal latch. No issues stinging out of latch. String weight is 28daN static. Pulled hanger and removed.
15:30	19:30	4.0 h	Readied well to POOH w/ casing and lay out to catwalk. POOH & laid out 70 joints of casing to catwalk. Casing pulling very clean. NOTE: Connections coming out HOT. Very tight and dry connections.
19:30	20:00	0.5 h	Shut in and secured well with pipe rams and locked. Night capped well and rig tank. SDFN

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
"15%KCL								
Nelson Bros	370596	Nelson Bros	25.00 m³				25.00 m³	0.00 m³
NOTE	Flush Casing for well kill				5.00 m³		20.00 m³	5.00 m³
NOTE	Flush annulus for well kill				10.00 m³		10.00 m³	15.00 m³
		TODAY	25.00 m³	0.00 m³	15.00 m³	0.00 m³	10.00 m³	15.00 m³
		RUNNING	25.00 m³	0.00 m³	15.00 m³	0.00 m³	10.00 m³	15.00 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	36.00 m³	0.00 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	0.00 m³
		RUNNING	5,225.00 m³	0.00 m³	5,225.00 m³	0.00 m³	0.00 m³	5,225.00 m³
"Produced water with clay stabilizer and biocide								
		TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³
		RUNNING	91.00 m³	0.00 m³	0.00 m³	0.00 m³	91.00 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	0.60 m	4.90 m	0.00 m	5.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS		TOTAL MAN HOURS
2022-07-05	-	-	0.00 hr		-		0.00 hr
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE		TUBING PRESSURE
24.00 hr	0.00 hr	-	0.00 e³m³		-		-
COSTS					DAILY RENTALS		
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL	
\$87,567.82	\$87,567.82	\$1,920,007.05		\$1,920,007.05	\$1,154.25	\$12,696.75	
DAILY OPERATIONS					PERSONNEL		
DAILY STATUS Opened 52 NCS Sleeves 24 HOUR SUMMARY Opened all 52 NCS sleeves. Rigged out and released CalFrac & NCS NEXT 24 HOURS Move in SR					CONSULTANT		
					Dustin Kreiser 403-502-4023		
					DRILLING AND COMPLETIONS MANAGER		
					Nick Stanford 403-804-0296		
					CONSULTANT		
					Shannon Harden 780-542-1997		
					WEATHER		
					GENERAL		
					Rain		
					ROAD CONDITION		
Poor, very muddy							
TIME			TEMP				
07:00			9°C				
TIME LOG							
FROM	TO	DUR	NPT CODE	DETAILS			
00:00	05:00	5.0 h		TP spotted and rigged into 400bbl tanks, coil and common line to frac head. 60 m3 sweet produced water on site to begin sleeve opening. Stabbed coil thru injector and hung with crane. Made up 4 x 10k lubricator NCS cut, prepped coil end - 60mm. Installed NCS OD coil connector. Pull tested to 7daN, 14daN, 23daN, 23daN - solid. Tested coil connector to 35MPa, held solid. Bled down to 0MPa. Toolled up NCS as follows: 1 - 79.38mm OD coil connector: 0.30m 1 - 77.80mm Crossover 2.5" SA box x 2.25" SA pin: 0.11m 1 - 73.03mm Dual Flapper check valves: 0.40m 1 - 73.03mm Disconnect tool, 0.895" ball seat: 0.43m 1 - 73.03mm Expansion joint: 1.26m 1 - 73.03mm EQ valve Innovus HD, Armoured w/ 0.375" orifice: 0.60m 1 - 95.25mm Packer top end Innovus HD w/ 70 duro elements: 0.27m 1 - 92.71mm Packer btm end Innovus Prototype: 1.62m 1 - 77.80mm Flow crossover: 0.13m 1 - 77.80mm Decompression housing: 0.51m 1 - 77.80mm Crossover 2.5" SA box x 2.5" SA Pin: 0.04m 1 - 96.27mm Bullnose: 0.15m BHA Overall: 5.99m Disconnect ball: 25.40mm Tension cone: 10 brass - 17,350daN @ 0MPa NOTE: BHA c/w gauges installed Stabbed onto wellhead. Circulated stack and testers line over to sweet produced water, removed all air back to tank thru testers 10k manifold. Pressure tested to low 2MPa, visual check, no leaks. Pressured up to high 65MPa, visual check no leaks, charted 5 min flat line. Bled down to 10MPa, bled down coil to 0MPa, performed negative test on check valves, held 100%. Bled down to 2MPa, opened up 2 x master valves 23.5 turns, readied to RIH.			
05:00	06:30	1.5 h		SICP: 1500 kPa. RIH w/ Coil, 20m/min, TP pumping at 100l/min, w/ zero back pressure applied. Set packer at 500mKb. Pressure tested to 21MPa, held solid. Un-set and continued in hole.			
06:30	06:45	0.25 h		Held PJSM with crews. 12 people on location. Issued and reviewed Blackspur safe work permits. Reviewed job scope for day to continue RIH w/ coil, open sleeves, tool down NCS, purge coil and rig out. Lease is very muddy, take time moving around location. Cat on location to assist as needed, stay clear while towing. Do NOT enter area between cat and unit until fully stopped. Reviewed vendor JSAs for applicable tasks. Hard rain expected all day, take breaks as needed to change out gear or warm up. Stay out of high pressure pump areas at all times. Spot vac in and out as needed for job.			
06:45	14:30	7.75 h		Continued in hole with coil. 20m/min. Through liner top with no issues or weight change. Stopped and located sleeve # 52, - 6.5m depth correction. Set packer at 1893.5mCT, tested packer to 10MPa - solid test. Continued in hole, circulating at 100l/min, testers maintaining 3MPa back pressure. 3100m. Stopped coil, pulled up and located 24 at 3087.9m CT. Set packer at 3078mCT, tested wellbore to 10MPa, solid pressure test. Continued in hole with no issues. Ran down to sleeve # 1 at 4023.6m CT, 1500daN run in hole weight. No issued getting to bottom, confirmed sleeve 1 is open. Opened all 52 frac sleeves and confirmed with open locate and or feed rate as needed. Set packer at 1937mCT - tested packer and wellbore to 11.1MPa, solid test, dumped EQ and readied to POOH w/ coil. NOTE: Took 56m3 to open sleeves and get coil to bottom.			

14:30	16:00	1.5 h	Fresh water mixed with produced (50-50) also mixed 2l/m3 clay stabilizer and biocide (secure product). POOH w/ coil. Cut out fluid pumps at 1900m CT. Nelson vac on site began sucking out equipment as needed. Shut in well with 2 x BX-155 master valves. Readied to break down tools & purge.
16:00	18:00	2.0 h	Tooled down NCS. BHA in excellent condition, all components recovered. Stabbed back onto well with coil connector. Purged / pigged coil with 2000scm N2 to testers.
18:00	18:30	0.5 h	Stabbed off well and removed coil connector, released NCS. CalFrac to begin rig out.
18:30	18:45	0.25 h	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 h	Cont to R/D CalFrac CT unit along with support equipment and testing equipment all equipment R/D 100%. N/D BOP and installed upper wellhead cap. Check shut in pressure TSTM. CWS demobilized 75% of equipment and remaining 25% spotted on mats ready for demobilization in the morning.

DAILY FLUIDS								
COMPANY	TICKET	SOURCE/DESTINATION	LEASE		WELL		REMAINING	
			TO	FROM	TO	FROM	TANK	WELL
"3%KCL								
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	6.00 m ³	0.00 m ³	6.00 m ³	0.00 m ³	0.00 m ³	6.00 m ³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid								
		TODAY	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³
		RUNNING	36.00 m ³	0.00 m ³	36.00 m ³	0.00 m ³	0.00 m ³	36.00 m ³
"Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653								
NOTE	get to btm and open sleeves				56.40 m ³		0.00 m ³	5,225.00 m ³
		TODAY	0.00 m ³	0.00 m ³	56.40 m ³	0.00 m ³	-56.40 m ³	56.40 m ³
		RUNNING	5,225.00 m ³	0.00 m ³	5,225.00 m ³	0.00 m ³	0.00 m ³	5,225.00 m ³
"Produced water with clay stabilizer and biocide								
Wilf Brandt	200684	16-5-50-1w5	26.00 m ³				91.00 m ³	0.00 m ³
		TODAY	26.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	26.00 m ³	0.00 m ³
		RUNNING	91.00 m ³	0.00 m ³	0.00 m ³	0.00 m ³	91.00 m ³	0.00 m ³

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	0.60 m	4.90 m	0.00 m	5.50 m					
REPORT DETAILS												
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS						
2022-07-04	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						
8.00 hr	0.00 hr	0.00 e³m³	0.00 e³m³		0.00 kPa	0.00 kPa						
COSTS					DAILY RENTALS							
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL						
\$24,988.25	\$24,988.25	\$1,832,439.23		\$1,832,439.23	\$1,154.25	\$11,542.50						
DAILY OPERATIONS					PERSONNEL							
<div>DAILY STATUS Move in and R/U coil tubing unit</div> <div>24 HOUR SUMMARY Move in and R/U coil tubing unit</div> <div>NEXT 24 HOURS Open frac sleeves</div>					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER							
					Nick Stanford 403-804-0296							
					CONSULTANT Shannon Harden 780-542-1997							
					WEATHER							
					GENERAL							
					Showers							
					ROAD CONDITION							
					Wet							
					TIME		TEMP					
					20:30		16°C					
					TIME LOG							
					FROM	TO	DUR	NPT CODE	DETAILS			
16:00	18:30	2.5 h		CalFrac day shift arrived on location. Spotted some coil equipment. Cat on site to assist as needed in spotting. Waiting for remaining equipment to come on night shift.								
18:30	18:45	0.25 h		Wilf Brandt hauled in fluid for TP pump. Produced water mixed with clay stabilizer and biocide.								
18:45	00:00	5.25 h		Held PJSM with the following discussed, spotting equipment use spotters, spotter to be in view of driver at all times and wearing Hi Viz PPE - Hand and finger placement while R/U equipment, use good communication w/ all crewmembers - Reviewed job scope for the shift and P/T requirements. All crews signed onto applicable Blackspur SWP 7-4-2022-4								
				Cont to spot and R/U CalFrac CT unit and TP pumper along w/ Strataflo flow back line. Picked up BOPs & installed on wellhead BX-155 connection with BX-155 x BX-169 crossover spool. (BOP previously stump tested in the yard and charted test is on location)								
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	36.00 m³	0.00 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	0.00 m³				
		RUNNING	5,225.00 m³	0.00 m³	5,168.60 m³	0.00 m³	56.40 m³	5,168.60 m³				
"Produced water with clay stabilizer and biocide												
Wilf Brandt	200682	16-5-50-1w5 bty		52.00 m³			52.00 m³	0.00 m³				
Wilf Brandt	200683	1-16-50-1w5		13.00 m³			65.00 m³	0.00 m³				
		TODAY	65.00 m³	0.00 m³	0.00 m³	0.00 m³	65.00 m³	0.00 m³				
		RUNNING	65.00 m³	0.00 m³	0.00 m³	0.00 m³	65.00 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	0.60 m	4.90 m	0.00 m	5.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS	TOTAL MAN HOURS	
2022-06-29	-	-	0.00 hr		-	0.00 hr	
TOTAL TIME	NON-PRODUCTIVE	FLARE VOLUME	TOTAL DAILY FLARE		CASING PRESSURE	TUBING PRESSURE	
9.50 hr	0.00 hr	-	0.00 e³m³		-	-	
COSTS					DAILY RENTALS		
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL	
\$74,102.59	\$74,102.59	\$1,807,450.98		\$1,807,450.98	\$1,154.25	\$10,388.25	
DAILY OPERATIONS					PERSONNEL		
DAILY STATUS Tearing out water line, hauling out reels & equipment 24 HOUR SUMMARY NewWave continued to tear out water line. Loading trucks and hauling out equipment NEXT 24 HOURS Wait on coil to open sleeves					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER		
					Nick Stanford 403-804-0296		
					CONSULTANT Shannon Harden 780-542-1997		
					WEATHER		
					GENERAL Sunny, Rainfall warning ROAD CONDITION Poor, muddy TIME 07:00 TEMP 14°C		
TIME LOG							
FROM	TO	DUR	NPT CODE	DETAILS			
07:30	17:00	9.5 h		Held PJSM, w/ NewWave crews, discussed hand/finger pinch points - load securement and possible debris on equipment ensure no loose debris or equipment on trailers. NewWave continued to demobilize water line and support equipment. All equipment demobilized 100%. Apply gravel around wellhead area - stack rig mats and perform general lease cleanup.			
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
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid			TODAY	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
"Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	5,225.00 m³	0.00 m³	5,168.60 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	0.60 m	4.90 m	0.00 m	5.50 m
REPORT DETAILS							
REPORT DATE	PERCENT COMPLETE	RIG TIME	TOTAL RIG TIME		MAN HOURS		TOTAL MAN HOURS
2022-06-28	-	-	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		
\$9,454.25		\$9,454.25	\$1,733,348.39		\$1,733,348.39		
DAILY OPERATIONS					PERSONNEL		
DAILY STATUS Tearing out water line 24 HOUR SUMMARY NewWave tearing out water line. Pile Base hauled out Buffer tanks TKO hauled remaining rig matting Sent 1 load of hose reels back to NewWave NEXT 24 HOURS Finish water line tear out, Load and haul out NewWave water gear					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 12°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
			RUNNING	6.00 m³	0.00 m³	6.00 m³	0.00 m³
"Fluid Energy Enviro-Syn HCR 7000 Frac Acid							
			TODAY	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
"Fresh Water Gravel Pit Source SW-5-51-2W5 - TDL # 483653							
			TODAY	0.00 m³	0.00 m³	0.00 m³	0.00 m³
			RUNNING	5,225.00 m³	0.00 m³	5,168.60 m³	56.40 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	0.60 m	4.90 m	0.00 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			
20.00 hr	0.00 hr	-	0.00 e³m³		-	-			
COSTS					DAILY RENTALS				
TOTAL DAILY	COMPL. TOTAL	TOTAL CUMULATIVE		COMPL. CUMULATIVE	TOTAL DAILY	COMPL. TOTAL			
\$12,522.65	\$12,522.65	\$1,723,894.14		\$1,723,894.14	\$1,154.25	\$8,079.75			
DAILY OPERATIONS					PERSONNEL				
DAILY STATUS Move out sand hogs and rentals 24 HOUR SUMMARY CalFrac on site moving out sand hogs and belts, needed cat to get off location. TKO on site loading and hauling out pumps and rentals NewWave rigging out water line. NEXT 24 HOURS Finish water line tare out, haul out equipment.					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		TEMP		
					07:00		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.					
06:00	20:00	14.0 h		CalFrac hauled out sand hogs and belts. Needed winch cat to move to matting and get trucks under hogs. NewWave taking down lines, stacking reels at battey. Sent 4 x pumps back to base (TKO). Rig down and released all rentals (shacks, lights, rig matting, etc) Hauled out acid tank, 400bbl tanks stayed to open sleeves.					
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	36.00 m³	0.00 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	0.00 m³
			RUNNING	5,225.00 m³	0.00 m³	5,168.60 m³	0.00 m³	56.40 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	0.60 m	4.90 m	0.00 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	
\$632,984.27	\$632,984.27	\$1,711,371.49		\$1,711,371.49	\$1,154.25	\$6,925.50	
DAILY OPERATIONS					PERSONNEL		
<div>DAILY STATUS Frac zones 31 - 52</div> <div>24 HOUR SUMMARY BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 Frac Summary</div> <div>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.</div> <div>6491m³ Fresh water pumped from: Gravel Pit Source SW-5-51-2W5 - TDL # 483653</div> <div>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</div> <div>Total Load fluid to recover from frac: 5204.60m³</div> <div>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</div> <div>All zones placed as per program.</div> <div>NEXT 24 HOURS Rig out Frac / coil & axillary services, well shut in for 7 days.</div>					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		<div>Frac Interval Sleeve #31 Start time: 00:47 Stop time: 01:13</div> <div>Frac sleeve depth: 2802.9 mKB Shifted sleeve at 17.40 MPa</div> <div>Fractured interval as follows:</div> <div>Break pressure = 17.40 MPa Min pressure = 32.0 MPa Max pressure = 37.0 MPa Avg pressure = 35.0 MPa</div> <div>Slurry Rate = 3.0 m³/min Pad 1.4 m³ <> Proppant 53.20 m³</div> <div>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.</div> <div>ISIP = 8.0 MPa</div> <div>Closed sleeve and confirmed with closed locate, Move tools to next interval</div> <div>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.</div>
01:13	01:56	0.72 h		<div>Frac Interval Sleeve #32 Start time: 01:13 Stop time: 01:56</div> <div>Frac sleeve depth: 2762.4 mKB Shifted sleeve at 17.60 MPa</div> <div>Fractured interval as follows:</div> <div>Break pressure = 12.20 MPa Min pressure = 30.0 MPa Max pressure = 38.0 MPa Avg pressure = 35.0 MPa</div> <div>Slurry Rate = 3.0 m³/min Pad 0.7 m³ <> Proppant 54.30 m³</div> <div>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.</div> <div>ISIP = 9.5 MPa</div> <div>Closed sleeve and confirmed with closed locate, Move tools to next interval</div> <div>85.4 m³ frac pumps and 12.4 m³ TP = 97.80 m³ fresh water pumped into formation</div>

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 <> Proppant 53.30 m³</p> <p>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.</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 <> Proppant 55.0 m³</p> <p>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.</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 <> Proppant 57.2 m³</p> <p>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.</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 <> Proppant 55.9 m³</p> <p>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.</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 <> Proppant 56.7 m³</p> <p>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.</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 <> Proppant 56.2 m³</p> <p>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.</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 <> Proppant 55.4 m³</p> <p>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.</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 <> Proppant 55.6 m³</p> <p>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.</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 <> Proppant 56.20 m³</p> <p>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.</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 <> Proppant 58.50 m³</p> <p>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.</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 <> Proppant 55.90 m³</p> <p>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.</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 <> Proppant 56.90 m³</p> <p>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.</p> <p>ISIP = 9.20 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
09:54	10:32	0.63 h	<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. 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 <> Proppant 57.20 m³</p> <p>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.</p> <p>ISIP = 9.50 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
10:32	11:09	0.62 h	<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. 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 <> Proppant 53.20 m³</p> <p>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.</p> <p>ISIP = 8.50 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
11:09	11:46	0.62 h	<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. 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 <> Proppant 53.90 m³</p> <p>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.</p> <p>ISIP = 9.20 MPa</p> <p>Closed sleeve and confirmed with closed locate, Move tools to next interval</p>
11:46	12:24	0.63 h	<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. 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 <> Proppant 55.60 m³</p> <p>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.</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 <> Proppant 54.10 m³</p> <p>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.</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 <> Proppant 56.50 m³</p> <p>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.</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 <> Proppant 55.20 m³</p> <p>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.</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 <> Proppant 55.10 m³</p> <p>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.</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	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								
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	36.00 m³
		RUNNING	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								
NewWave water line	0626d2022	Gravel Pit Source SW-5-51-2W5 - TDL # 483653	5,225.00 m³				5,225.00 m³	0.00 m³
NOTE	Load fluid from frac (clean)				5,168.60 m³		56.40 m³	5,168.60 m³
		TODAY	5,225.00 m³	0.00 m³	5,168.60 m³	0.00 m³	56.40 m³	5,168.60 m³
		RUNNING	5,225.00 m³	0.00 m³	5,168.60 m³	0.00 m³	56.40 m³	5,168.60 m³



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			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 <> Proppant 62.50 m³</p> <p>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.</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 <> Proppant 64.10 m³</p> <p>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.</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 & 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 <> Proppant 63.00 m³</p> <p>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.</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 <> Proppant 62.80 m³</p> <p>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.</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 <> Proppant 62.30 m³</p> <p>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.</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 <> Proppant 58.30 m³</p> <p>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.</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 <> Proppant 60.40 m³</p> <p>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.</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 <> Proppant 66.90 m³</p> <p>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.</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 <> Proppant 60.30 m³</p> <p>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.</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 <> Proppant 58.70 m³</p> <p>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.</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 <> Proppant 57.30 m³</p> <p>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.</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 <> Proppant 56.40 m³</p> <p>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.</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 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.
 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

DAILY FLUIDS

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	0.00 m³	36.00 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	0.60 m	4.90 m	0.00 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	
\$291,945.85	\$291,945.85	\$576,763.97		\$576,763.97	\$1,154.25	\$4,617.00	
DAILY OPERATIONS					PERSONNEL		
DAILY STATUS Cont to rig in frac and CT equipment - started pumping frac program. 24 HOUR SUMMARY Fraced 7 zones had hose failure on blender. NEXT 24 HOURS 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/Muddy		
					TIME		TEMP
					05:00		9°C
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 matts 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 <> Proppant 93.50 m³</p> <p>Max Conc sand @ perms = 600kg/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.</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 <> Proppant 82.70 m³</p> <p>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.</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 <> Proppant 79.30 m³</p> <p>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.</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 <> Proppant 83.40 m³</p> <p>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.</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 TO FROM TO WELL 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	0.60 m	4.90 m	0.00 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		
\$116,498.25	\$116,498.25	\$284,818.12		\$284,818.12	\$1,154.25	\$3,462.75		
DAILY OPERATIONS					PERSONNEL			
DAILY STATUS Hauling sand, move in CalFrac 24 HOUR SUMMARY Hauling sand Move in CalFrac and required services for frac NEXT 24 HOURS Fracture stimulation					CONSULTANT Dustin Kreiser 403-502-4023 DRILLING AND COMPLETIONS MANAGER Nick Stanford 403-804-0296 CONSULTANT Shannon Harden 780-542-1997			
					WEATHER			
					GENERAL			
					Overcast / rain ROAD CONDITION Poor, muddy			
					TIME 07:00			TEMP 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.				
18:30	19:00	0.5 h		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.				
19:00	00:00	5.0 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 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				
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	0.00 m³	36.00 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	0.60 m	4.90 m	0.00 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			
\$16,426.75	\$16,426.75	\$168,319.87		\$168,319.87	\$1,154.25	\$2,308.50			
DAILY OPERATIONS					PERSONNEL				
<div>DAILY STATUS</div> <div>CalFrac resumed hauling sand.</div> <div>24 HOUR SUMMARY</div> <div>CalFrac hauling sand</div> <div>NewWave resume installing surface water line.</div> <div>Heavy rains in afternoon, lease is very muddy.</div> <div>NEXT 24 HOURS</div> <div>Move in Calfrac coil</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 / 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	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	0.60 m	4.90 m	0.00 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				
\$37,584.25	\$37,584.25	\$151,893.12	\$151,893.12	\$1,154.25	\$1,154.25				
DAILY OPERATIONS				PERSONNEL					
DAILY STATUS Laying swamp matting 24 HOUR SUMMARY Chemco on site laying swamp matting on road and lease. Spotted 500 swamp mats on lease road and 25% (NW corner) of lease. NEXT 24 HOURS Haul sand, prep for frac				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 14°C					
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	0.60 m	4.90 m	0.00 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		
\$5,215.00	\$5,215.00	\$114,308.87		\$114,308.87	\$0.00	\$0.00		
DAILY OPERATIONS					PERSONNEL			
<div>DAILY STATUS</div> <div>Heavy rains overnight and throughout day, held off sand hauling</div> <div>24 HOUR SUMMARY</div> <div>Held off sand hauling and water line install due to heavy rains</div> <div>Lease and road very muddy</div> <div>Not passable with heavy loads</div> <div>NEXT 24 HOURS</div> <div>Wait on weather</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 / Heavy rains			
					ROAD CONDITION			
Poor, muddy, standing water on location								
TIME			TEMP					
07:00			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	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
			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	0.60 m	4.90 m	0.00 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		
\$50,903.47	\$50,903.47	\$109,093.87		\$109,093.87	\$0.00	\$0.00		
DAILY OPERATIONS					PERSONNEL			
DAILY STATUS Frac prep, pulled recorders and gradient 24 HOUR SUMMARY 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 NEXT 24 HOURS 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						0.00 m³	6.00 m³
			TODAY	6.00 m³	0.00 m³	6.00 m³	0.00 m³	6.00 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	36.00 m³	0.00 m³
			RUNNING	36.00 m³	0.00 m³	0.00 m³	36.00 m³	0.00 m³



Daily Initial Completions Report - 2022-06-12 - Day #3
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

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	0.60 m	4.90 m	0.00 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		
\$12,207.40	\$12,207.40	\$58,190.40	\$58,190.40	\$0.00	\$0.00		
DAILY OPERATIONS					PERSONNEL		
DAILY STATUS Hauling sand, rig in water line 24 HOUR SUMMARY NewWave continued to rig in Water line to river. CalFrac hauling sand. NEXT 24 HOURS Rig in water line, haul sand.					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		
					07:00		
					TEMP		
					15°C		



Daily Initial Completions Report - 2022-06-11 - Day #2
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

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	0.60 m	4.90 m	0.00 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		
\$9,805.00	\$9,805.00	\$45,983.00	\$45,983.00	\$0.00	\$0.00		
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 & 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



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Daily Initial Completions Report - 2022-06-10 - Day #1
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

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	2022-07-08	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	\$53,597.00	-\$53,597.00	\$0.00	\$53,597.00
9322-404 - FRAC PACKER TOOLS	\$62,500.00	\$50,032.91	\$12,467.09	\$0.00	\$50,032.91
9322-405 - WATER HEATING (FRAC)	\$38,000.00	\$49,861.80	-\$11,861.80	\$0.00	\$49,861.80
9322-406 - WATER CONTAINMENT (FRAC)	\$70,000.00	\$0.00	\$70,000.00	\$0.00	\$0.00
9322-417 - CASING SERVICES - PRODUCTION	\$0.00	\$16,083.26	-\$16,083.26	\$0.00	\$16,083.26
9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT	\$0.00	\$106,716.00	-\$106,716.00	\$0.00	\$106,716.00
9322-429 - CONTACT LABOUR (TOOL HANDS, FRAC HEAD INSTALL)	\$6,500.00	\$5,037.88	\$1,462.12	\$0.00	\$5,037.88
9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)	\$28,000.00	\$43,537.10	-\$15,537.10	\$0.00	\$43,537.10
9322-436 - ENGINEERING	\$4,500.00	\$0.00	\$4,500.00	\$0.00	\$0.00
9322-439 - EQUIPMENT RENTALS (SURFACE)	\$44,000.00	\$95,935.34	-\$51,935.34	\$0.00	\$95,935.34
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	\$23,574.33	-\$5,074.33	\$0.00	\$23,574.33
9322-444 - FLUID TRANSFER (ON-SITE)	\$0.00	\$143,653.00	-\$143,653.00	\$0.00	\$143,653.00
9322-445 - FRAC & STIMULATION (ACID)	\$1,200,000.00	\$1,236,416.58	-\$36,416.58	\$0.00	\$1,236,416.58
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	\$61,115.70	-\$11,115.70	\$0.00	\$61,115.70
9322-453 - LIQUIDS/SOLIDS DISPOSAL	\$6,500.00	\$4,777.75	\$1,722.25	\$0.00	\$4,777.75
9322-455 - LOGGING & ELINE SERVICES	\$0.00	\$4,153.10	-\$4,153.10	\$0.00	\$4,153.10
9322-456 - CRUDE OIL & CHEMICALS	\$0.00	\$670.40	-\$670.40	\$0.00	\$670.40
9322-457 - MISCELLANEOUS	\$0.00	\$23,895.00	-\$23,895.00	\$0.00	\$23,895.00
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	\$19,649.00	-\$9,649.00	\$0.00	\$19,649.00
9322-467 - SERVICE RIG	\$20,000.00	\$34,754.65	-\$14,754.65	\$0.00	\$34,754.65
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	\$27,756.00	\$2,244.00	\$0.00	\$27,756.00
9322-481 - VACUUM SERVICES	\$18,500.00	\$28,944.60	-\$10,444.60	\$0.00	\$28,944.60
9322-483 - WELLSITE SUPERVISION / CONSULTANT	\$31,500.00	\$37,800.00	-\$6,300.00	\$0.00	\$37,800.00
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
9330-503 - ARTIFICIAL LIFT EQUIPMENT (PUMPJACKS)	\$0.00	\$19,695.50	-\$19,695.50	\$0.00	\$19,695.50
9330-507 - BOTTOM HOLE PUMP - RECOVERABLE	\$0.00	\$10,598.54	-\$10,598.54	\$0.00	\$10,598.54
9330-509 - DOWNHOLE TOOLS	\$0.00	\$7,550.00	-\$7,550.00	\$0.00	\$7,550.00
9330-569 - PRODUCTION TUBING	\$0.00	\$69,299.59	-\$69,299.59	\$0.00	\$69,299.59
9330-575 - RODS / COROD	\$0.00	\$28,397.68	-\$28,397.68	\$0.00	\$28,397.68
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
9340-639 - VALVES & FITTINGS - NON-CONTROLLABLE	\$0.00	\$2,244.37	-\$2,244.37	\$0.00	\$2,244.37
9340-699 - ADMINISTRATIVE OVERHEAD (3,2,1)	\$19,105.00	\$0.00	\$19,105.00	\$0.00	\$0.00
TOTAL	\$1,919,760.00	\$2,256,021.52	-\$336,261.52	\$0.00	\$2,256,021.52



Initial Completions Daily Costs Breakdown - Week 1
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

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	2022-07-08	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	
Shawns Oilfield Service: Jan 19th blade lease and pump water off location (very muddy)						\$2,840.00		\$2,840.00	
Shawns Oilfield Service: tow cat, blade lease to try to dry						\$1,420.00		\$1,420.00	
Shawns Oilfield Service: 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	\$0.00	\$0.00	\$0.00	\$0.00	\$1,154.25	\$1,154.25	\$2,308.50	\$2,308.50
Chemco: Daily Rental Cost - 2022-06-21 - 1 Rentals						\$1,154.25	\$1,154.25	\$2,308.50	
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	\$10,792.50	\$49,727.50	\$49,727.50
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	
NewWave Energy Services Group: day rig rigging in water line							\$10,792.50	\$10,792.50	
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	\$9,805.00	\$12,207.40	\$50,903.47	\$5,215.00	\$37,584.25	\$16,426.75	\$168,319.87	
	\$36,178.00	\$45,983.00	\$58,190.40	\$109,093.87	\$114,308.87	\$151,893.12	\$168,319.87		\$168,319.87



Initial Completions Daily Costs Breakdown - Week 2
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

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	2022-07-08	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	2022-06-28	2022-06-29	TOTAL	RUN. TOTAL
9322-351 - FUEL DIESEL	\$0.00	\$0.00	\$9,500.00	\$0.00	\$0.00	\$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	\$13,595.00	\$3,160.00	\$0.00	\$0.00	\$18,175.00	\$46,747.00
Shawns Oilfield Service: tow cat	\$1,420.00							\$1,420.00	
Shawns Oilfield Service: cat 24 hours to pull equipment around location, no equipment could move once off matting without being towed. Operator on site for cat 24 hours a day				\$13,595.00				\$13,595.00	
Shawns Oilfield Service: pump water off location to try to dry					\$1,840.00			\$1,840.00	
Shawns Oilfield Service: grade county road after frac move out, blade up lease with cat to try to dry out					\$1,320.00			\$1,320.00	
9322-404 - FRAC PACKER TOOLS	\$0.00	\$0.00	\$0.00	\$40,036.34	\$0.00	\$0.00	\$0.00	\$40,036.34	\$40,036.34
NCS Multistage: tool hands, frac packer tools				\$40,036.34				\$40,036.34	
9322-405 - WATER HEATING (FRAC)	\$0.00	\$0.00	\$0.00	\$37,522.00	\$0.00	\$0.00	\$0.00	\$37,522.00	\$37,522.00
Demon Oilfield Services: water heater for entire frac				\$37,522.00				\$37,522.00	
9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT	\$39,008.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,008.00	\$39,008.00
CalFrac Well Services: coil move in and rig up	\$16,968.00							\$16,968.00	
Tryson Energy Services: 120 ton crane for coil / frac ops (entire job)	\$22,040.00							\$22,040.00	
9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,539.30
9322-439 - EQUIPMENT RENTALS (SURFACE)	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$43,897.59	\$50,823.09	\$53,131.59
Chemco: Daily Rental Cost - 2022-06-23 - 1 Rentals	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$8,079.75	
TKO Rentals Ltd: rent on 400's, buffer tanks, full combo, fuel skid, DEF for loader, light towers, dual mast light, genie, rig matting, acid tank, road signs (1 was stolen and replaced) cost for Goldies is food for lease after rig in for excessive mud conditions, roughne							\$42,743.34	\$42,743.34	
9322-441 - EQUIPMENT RENTALS (DOWNHOLE)	\$0.00	\$0.00	\$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	\$0.00	\$0.00	\$6,610.13
9322-444 - FLUID TRANSFER (ON-SITE)	\$11,390.00	\$12,772.50	\$16,230.00	\$34,970.00	\$5,938.00	\$6,700.00	\$5,925.00	\$93,925.50	\$143,653.00
NewWave Energy Services Group: water transfer finish rig in, hose failed multiple times. Had to shut down ops waiting on water. SPENT HALF THE DAY UNLOADING TRUCKS SINCE NEWWAVE TOOK EQUIPMENT TO ANOTHER JOB DURING RAIN DELAY. UNLOADED EQUIPMENT FOR 2ND TIME ON THIS JOB	\$11,390.00							\$11,390.00	
NewWave Energy Services Group: frac water pumping to site, equipment, pumps, filter pot, 24 hour crew		\$12,772.50						\$12,772.50	
NewWave Energy Services Group: water transfer for frac, personal and equipment			\$16,230.00					\$16,230.00	
Rugged Oilfield Services: truck pumps, filter pot to and from location, manpower for 4 - 24 hour shifts,				\$14,195.00				\$14,195.00	
Rugged Oilfield Services: rent on pumps (2), open top tanks, hoses, accomodations (4 days), filters, filter pot				\$4,320.00				\$4,320.00	
NewWave Energy Services Group: water transfer for frac, personal & equipment				\$16,455.00				\$16,455.00	
NewWave Energy Services Group: finish frac, begin tear out					\$5,938.00			\$5,938.00	
NewWave Energy Services Group: tear out water line						\$6,700.00		\$6,700.00	
NewWave Energy Services Group: final tear out day, load trucks, released NewWave							\$5,925.00	\$5,925.00	
9322-445 - FRAC & STIMULATION (ACID)	\$55,800.00	\$270,293.10	\$467,013.00	\$443,310.48	\$0.00	\$0.00	\$0.00	\$1,236,416.58	\$1,236,416.58
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				\$1,180,616.58	
9322-446 - FRAC HEAD / INSTALL / UNINSTALL	\$0.00	\$0.00	\$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	\$22,680.00	\$22,680.00	\$35,032.50
TKO Rentals Ltd: Return trucking on rentals, skid steer for clean up and loading, 2 loads of NewWave hoses, 1 load of pumps, 2 pick up loads (36' trailers) of NewWave parts, road crossings, Shawns Oilfield Service: haul out loader and cat while lease is shut down. To much theft in area to leave unattended							\$8,437.50	\$8,437.50	
TKO Rentals Ltd: return trucking on rig matting, light tower hot shot during frac for calfrac coil unit (generator quit during job), return light towers, hose reels, labor for rig out, haul back genie, acid tank, buffers							\$900.00	\$900.00	
							\$13,342.50	\$13,342.50	
9322-453 - LIQUIDS/SOLIDS DISPOSAL	\$0.00	\$0.00	\$0.00	\$1,515.00	\$0.00	\$0.00	\$0.00	\$1,515.00	\$1,515.00
Secure Energy Services: Fluid disposal during frac				\$1,515.00				\$1,515.00	
9322-455 - LOGGING & ELINE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,153.10
9322-456 - CRUDE OIL & CHEMICALS	\$0.00	\$0.00	\$0.00	\$0.00	\$670.40	\$0.00	\$0.00	\$670.40	\$670.40
Secure Energy Services: Biocide for fresh water treatment					\$670.40			\$670.40	
9322-457 - MISCELLANEOUS	\$0.00	\$0.00	\$0.00	\$15,455.00	\$0.00	\$0.00	\$0.00	\$15,455.00	\$15,455.00
TKO Rentals Ltd: 24 hour on site security due to excessive theft in area.				\$15,455.00				\$15,455.00	
9322-460 - PRESSURE TRUCK	\$0.00	\$0.00	\$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	\$19,649.00	\$0.00	\$0.00	\$0.00	\$19,649.00	\$19,649.00
Zephyr Safety Corp: medic 24 hours 3 days for frac				\$9,774.00				\$9,774.00	
Unlimited Safety Services: fire / shower combo for 5 shifts during frac				\$9,875.00				\$9,875.00	
9322-479 - TESTING & SURVEYS / FRAC FLOWBACK / JET PUMP	\$4,626.00	\$4,626.00	\$4,626.00	\$4,626.00	\$0.00	\$0.00	\$0.00	\$18,504.00	\$18,504.00
StrataFlo: Testers 24 hours	\$4,626.00	\$4,626.00	\$4,626.00	\$4,626.00				\$18,504.00	
9322-481 - VACUUM SERVICES	\$0.00	\$0.00	\$0.00	\$18,051.20	\$0.00	\$0.00	\$0.00	\$18,051.20	\$20,733.60
Nelson Brothers: Vac 24 hours 3 days on site				\$18,051.20				\$18,051.20	
9322-483 - WELLSITE SUPERVISION / CONSULTANT	\$3,100.00	\$3,100.00	\$3,100.00	\$3,100.00	\$1,600.00	\$1,600.00	\$1,600.00	\$17,200.00	\$26,800.00



Initial Completions Daily Costs Breakdown - Week 2
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

1777792 AB Inc: WSS	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$11,200.00	
N/A: WSS	\$1,500.00	\$1,500.00	\$1,500.00	\$1,500.00				\$6,000.00	
9322-485 - SLICKLINE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,111.90
DAILY	\$116,498.25	\$291,945.85	\$501,623.25	\$632,984.27	\$12,522.65	\$9,454.25	\$74,102.59	\$1,639,131.11	
CUMULATIVE	\$284,818.12	\$576,763.97	\$1,078,387.22	\$1,711,371.49	\$1,723,894.14	\$1,733,348.39	\$1,807,450.98		\$1,807,450.98



Initial Completions Daily Costs Breakdown - Week 3
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

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	2022-07-08	22CP0009	\$1,919,760.00			
DAILY BREAKDOWN							
CODE - COST ITEM	2022-07-04	2022-07-05	2022-07-06	2022-07-07	2022-07-08	TOTAL	RUN. TOTAL
9322-351 - FUEL DIESEL	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$19,578.00
9322-401 - ACCESS ROADS AND LEASE	\$0.00	\$1,760.00	\$910.00	\$2,080.00	\$2,100.00	\$6,850.00	\$53,597.00
Shawns Oilfield Service: cat stuck and tow		\$1,760.00	\$910.00	\$2,080.00		\$4,750.00	
Shawns Oilfield Service: Final bill on cat stuck and tow					\$2,100.00	\$2,100.00	
9322-404 - FRAC PACKER TOOLS	\$0.00	\$9,996.57	\$0.00	\$0.00	\$0.00	\$9,996.57	\$50,032.91
NCS Multistage: open sleeves		\$9,996.57				\$9,996.57	
9322-405 - WATER HEATING (FRAC)	\$0.00	\$0.00	\$0.00	\$0.00	\$12,339.80	\$12,339.80	\$49,861.80
Certarus: natural gas, trailers, prs, move in and haul out					\$12,339.80	\$12,339.80	
9322-417 - CASING SERVICES - PRODUCTION	\$0.00	\$0.00	\$0.00	\$0.00	\$16,083.26	\$16,083.26	\$16,083.26
SHAWCOR: inspect, repair 114mm 20.09kg/m P-110 casing. All 116 - yellowband. Pin / Box ends repaired as needed					\$16,083.26	\$16,083.26	
9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT	\$13,528.00	\$54,180.00	\$0.00	\$0.00	\$0.00	\$67,708.00	\$106,716.00
CalFrac Well Services: coil move in, rig up for sleeve opening	\$13,528.00					\$13,528.00	
CalFrac Well Services: Open frac sleeves		\$54,180.00				\$54,180.00	
9322-429 - CONTACT LABOUR (TOOL HANDS, FRAC HEAD INSTALL)	\$0.00	\$0.00	\$5,037.88	\$0.00	\$0.00	\$5,037.88	\$5,037.88
Great North Wellhead & Frac: installed BPV in hanger, removed frac head, waited on rig to install BOPs, lubed up and pulled BPV, rigged out and hauled equipment to Red Deer			\$5,037.88			\$5,037.88	
9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)	\$0.00	\$0.00	\$0.00	\$0.00	\$31,997.80	\$31,997.80	\$43,537.10
Secure Energy Services: water access to land owner, secure consulting charges to arrange agreements					\$31,997.80	\$31,997.80	
9322-439 - EQUIPMENT RENTALS (SURFACE)	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$38,186.75	\$42,803.75	\$95,935.34
Chemco: Daily Rental Cost - 2022-07-04 - 1 Rentals	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$5,771.25	
TKO Rentals Ltd: Final rent bill, 4.5" handling equipment, shacks, light towers, bathroom, skid steer, tanks					\$13,790.00	\$13,790.00	
Rugged Oilfield Services: final rent bill on loader					\$11,700.00	\$11,700.00	
Chemco: swamp matting rental on down days where no report was created. Totals 10 days. June 15 - 20, June 30 - July 3rd					\$11,542.50	\$11,542.50	
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)	\$1,040.00	\$585.00	\$9,674.20	\$3,450.00	\$2,215.00	\$16,964.20	\$23,574.33
Wilf Brandt Trucking: deliver produced water to open sleeves	\$1,040.00					\$1,040.00	
Wilf Brandt Trucking: deliver prod wtr from 16-5 bty		\$585.00				\$585.00	
Nelson Bros. Oilfield Services: deliver & purchase 25m3 15%KCL			\$9,674.20			\$9,674.20	
Wilf Brandt Trucking: haul fluid to battery				\$3,450.00		\$3,450.00	
Wilf Brandt Trucking: haul fluid to 16-5 battery					\$1,500.00	\$1,500.00	
Wilf Brandt Trucking: haul fluid to 16-5					\$715.00	\$715.00	
9322-444 - FLUID TRANSFER (ON-SITE)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$143,653.00
9322-445 - FRAC & STIMULATION (ACID)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,236,416.58
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)	\$1,540.00	\$0.00	\$7,068.20	\$4,000.00	\$13,475.00	\$26,083.20	\$61,115.70
Shawns Oilfield Service: move in cat and loader for sleeve opening ops, operate cat to assist coil spotting	\$1,540.00					\$1,540.00	
L&C Trucking: deliver 89mm tubing from estevan			\$7,068.20			\$7,068.20	
Rugged Oilfield Services: deliver pump from redcliff				\$4,000.00		\$4,000.00	
TKO Rentals Ltd: final trucking bill, haul out rentals, tanks, catwalk, hot shot BHA parts from Red Deer, bring blue band tail joints from battery, return good extra tubing to battery					\$15,315.00	\$15,315.00	
TKO Rentals Ltd: when taking back good tubing hauled out some junk 60mm and applied credit for purchase of junk tubing					-\$1,840.00	-\$1,840.00	
9322-453 - LIQUIDS/SOLIDS DISPOSAL	\$0.00	\$0.00	\$0.00	\$2,240.75	\$1,022.00	\$3,262.75	\$4,777.75
Secure Energy Services: dispose fluid from open top tanks (wilf bradt) & nelson bros after frac				\$2,240.75		\$2,240.75	
Secure Energy Services: fluid from rig tank cleaning, pull btms on 400's (wilf brandt)					\$966.35	\$966.35	
Secure Energy Services: dispose of fluid from buffer tanks					\$55.65	\$55.65	
9322-455 - LOGGING & ELINE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,153.10
9322-456 - CRUDE OIL & CHEMICALS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$670.40
9322-457 - MISCELLANEOUS	\$0.00	\$8,440.00	\$0.00	\$0.00	\$0.00	\$8,440.00	\$23,895.00
Tryson Energy Services: Crane for holding CTU		\$8,440.00				\$8,440.00	
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	\$0.00	\$0.00	\$0.00	\$19,649.00
9322-467 - SERVICE RIG	\$0.00	\$0.00	\$11,502.40	\$12,012.60	\$11,239.65	\$34,754.65	\$34,754.65
High Mark Well Service: SR move in, day work			\$11,502.40			\$11,502.40	
High Mark Well Service: SR day work				\$12,012.60		\$12,012.60	
High Mark Well Service: SR day work, move home					\$8,652.40	\$8,652.40	
Amped Energy: corod gripper					\$2,587.25	\$2,587.25	
9322-479 - TESTING & SURVEYS / FRAC FLOWBACK / JET PUMP	\$4,626.00	\$4,626.00	\$0.00	\$0.00	\$0.00	\$9,252.00	\$27,756.00
StrataFlo: testers 24 hours, open sleeves	\$4,626.00					\$4,626.00	
StrataFlo: testers 24 hours to open sleeves		\$4,626.00				\$4,626.00	
9322-481 - VACUUM SERVICES	\$0.00	\$3,726.00	\$0.00	\$1,800.00	\$2,685.00	\$8,211.00	\$28,944.60
Nelson Bros. Oilfield Services: vac on site to open sleeves		\$3,726.00				\$3,726.00	



Initial Completions Daily Costs Breakdown - Week 3
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

Wilf Brandt Trucking: clean open top tanks, go to disposal					\$1,800.00		\$1,800.00	
Wilf Brandt Trucking: vac clean rig tank, pull bottoms on 400bbl tanks						\$2,250.00	\$2,250.00	
Miktye Trucking Ltd: clean out pile base buffer tank in yard						\$435.00	\$435.00	
9322-483 - WELLSITE SUPERVISION / CONSULTANT	\$3,100.00	\$3,100.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$11,000.00	\$37,800.00
1777792 AB Inc: WSS	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$1,600.00	\$8,000.00	
NLFisher Supervision and Engineering: WSS	\$1,500.00	\$1,500.00					\$3,000.00	
9322-485 - SLICKLINE SERVICES	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,111.90
9330-503 - ARTIFICIAL LIFT EQUIPMENT (PUMPJACKS)	\$0.00	\$0.00	\$19,695.50	\$0.00	\$0.00	\$0.00	\$19,695.50	\$19,695.50
Weatherford: top drive, motor, flow T, stuffing box			\$19,695.50				\$19,695.50	
9330-507 - BOTTOM HOLE PUMP - RECOVERABLE	\$0.00	\$0.00	\$10,598.54	\$0.00	\$0.00	\$0.00	\$10,598.54	\$10,598.54
Weatherford: 59-1800, pup joint, NTT			\$10,598.54				\$10,598.54	
9330-509 - DOWNHOLE TOOLS	\$0.00	\$0.00	\$7,550.00	\$0.00	\$0.00	\$0.00	\$7,550.00	\$7,550.00
Mantl: hybrid x gas sep, crossovers, pup, bull plug, ,collars			\$7,550.00				\$7,550.00	
9330-569 - PRODUCTION TUBING	\$0.00	\$0.00	\$65,804.59	\$3,495.00	\$0.00	\$0.00	\$69,299.59	\$69,299.59
Trimark Tubulars: 89mm J-55 Evraz new tbq			\$65,804.59				\$65,804.59	
Mantl: 3 89mm wear joints - polish rod				\$3,495.00			\$3,495.00	
9330-575 - RODS / COROD	\$0.00	\$0.00	\$555.18	\$0.00	\$27,842.50		\$28,397.68	\$28,397.68
Weatherford: rod couplings, 1 - pony rod			\$555.18				\$555.18	
Mantl: 1297m 780M corod						\$27,842.50	\$27,842.50	
9340-639 - VALVES & FITTINGS - NON-CONTROLLABLE	\$0.00	\$0.00	\$0.00	\$0.00	\$2,244.37	\$2,244.37	\$2,244.37	\$2,244.37
APEX DISTRIBUTION INC.: Fittings for wellhead					\$2,244.37		\$2,244.37	
DAILY	\$24,988.25	\$87,567.82	\$141,150.74	\$31,832.60	\$163,031.13		\$448,570.54	
CUMULATIVE	\$1,832,439.23	\$1,920,007.05	\$2,061,157.79	\$2,092,990.39	\$2,256,021.52			\$2,256,021.52



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

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	2022-07-08	22CP0009	\$1,919,760.00	
vendor// 1777792 AB INC					VENDOR TOTAL \$28,800.00
cost code// 9322-483 - WELLSITE SUPERVISION / CONSULTANT					TOTAL \$28,800.00
DAILY REPORT	VENDOR CODE	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
2022-06-28		WSS		DK-218	\$1,600.00
2022-06-29		WSS		DK-218	\$1,600.00
2022-07-04		WSS		DK-220	\$1,600.00
2022-07-05		WSS		DK-220	\$1,600.00
2022-07-06		WSS		DK-220	\$1,600.00
2022-07-07		WSS		DK-220	\$1,600.00
2022-07-08		WSS		DK-220	\$1,600.00
vendor// AMPED ENERGY					VENDOR TOTAL \$2,587.25
cost code// 9322-467 - SERVICE RIG					TOTAL \$2,587.25
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		corod gripper		TMX10-1099	\$2,587.25
vendor// APEX DISTRIBUTION INC.					VENDOR TOTAL \$2,244.37
cost code// 9340-639 - VALVES & FITTINGS - NON-CONTROLLABLE					TOTAL \$2,244.37
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		Fittings for wellhead		200-204058-00	\$2,244.37
vendor// CALFRAC WELL SERVICES					VENDOR TOTAL \$1,321,092.58
cost code// 9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT					TOTAL \$84,676.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-23		coil move in and rig up		169257	\$16,968.00
2022-07-04		coil move in, rig up for sleeve opening		169258	\$13,528.00
2022-07-05		Open frac sleeves		169259	\$54,180.00
cost code// 9322-445 - FRAC & STIMULATION (ACID)					TOTAL \$1,236,416.58
DAILY REPORT	VENDOR CODE	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
vendor// CERTARUS					VENDOR TOTAL \$12,339.80
cost code// 9322-405 - WATER HEATING (FRAC)					TOTAL \$12,339.80
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		natural gas, trailers, prs, move in and haul out		23637	\$12,339.80
vendor// CHEMCO					VENDOR TOTAL \$48,194.00
cost code// 9322-401 - ACCESS ROADS AND LEASE					TOTAL \$20,492.00
DAILY REPORT	VENDOR CODE	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 \$27,702.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-21		Daily Rental Cost - 2022-06-21 - 1 Rentals			\$1,154.25
2022-06-22		Daily Rental Cost - 2022-06-22 - 1 Rentals			\$1,154.25
2022-06-23		Daily Rental Cost - 2022-06-23 - 1 Rentals			\$1,154.25
2022-06-24		Daily Rental Cost - 2022-06-24 - 1 Rentals			\$1,154.25
2022-06-25		Daily Rental Cost - 2022-06-25 - 1 Rentals			\$1,154.25
2022-06-26		Daily Rental Cost - 2022-06-26 - 1 Rentals			\$1,154.25
2022-06-27		Daily Rental Cost - 2022-06-27 - 1 Rentals			\$1,154.25
2022-06-28		Daily Rental Cost - 2022-06-28 - 1 Rentals			\$1,154.25
2022-06-29		Daily Rental Cost - 2022-06-29 - 1 Rentals			\$1,154.25
2022-07-04		Daily Rental Cost - 2022-07-04 - 1 Rentals			\$1,154.25
2022-07-05		Daily Rental Cost - 2022-07-05 - 1 Rentals			\$1,154.25
2022-07-06		Daily Rental Cost - 2022-07-06 - 1 Rentals			\$1,154.25
2022-07-07		Daily Rental Cost - 2022-07-07 - 1 Rentals			\$1,154.25
2022-07-08		swamp matting rental on down days where no report was created. Totals 10 days. June 15 - 20, June 30 - July 3rd		EST	\$11,542.50
2022-07-08		Daily Rental Cost - 2022-07-08 - 1 Rentals			\$1,154.25
vendor// DANDY OIL PRODUCTS LTD					VENDOR TOTAL \$19,578.00
cost code// 9322-351 - FUEL DIESEL					TOTAL \$19,578.00
DAILY REPORT	VENDOR CODE	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
vendor// DEMON OILFIELD SERVICES					VENDOR TOTAL \$37,522.00
cost code// 9322-405 - WATER HEATING (FRAC)					TOTAL \$37,522.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26		water heater for entire frac		2855	\$37,522.00
vendor// ELDORADO PRESSURE SERVICES					VENDOR TOTAL \$7,200.00
cost code// 9322-460 - PRESSURE TRUCK					TOTAL \$7,200.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10		10k pressure truck and tank truck with 3%KCL		172126	\$7,200.00



BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 - Initial Completions Cost Summary
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vendor// FLUID ENERGY GROUP LTD					VENDOR TOTAL \$11,539.30
cost code// 9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)					TOTAL \$11,539.30
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-13		synthetic acid		4835	\$9,499.95
2022-06-13		synthetic acid 2nd load		4836	\$2,039.35
vendor// GREAT NORTH WELLHEAD & FRAC					VENDOR TOTAL \$14,056.92
cost code// 9322-429 - CONTACT LABOUR (TOOL HANDS, FRAC HEAD INSTALL)					TOTAL \$5,037.88
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-06		installed BPV in hanger, removed frac head, waited on rig to install BOPs, lubed up and pulled BPV, rigged out and hauled equipment to Red Deer		65588	\$5,037.88
cost code// 9322-446 - FRAC HEAD / INSTALL / UNINSTALL					TOTAL \$9,019.04
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10		install frac head & press test		65703	\$3,158.04
2022-06-10		coil frac head rental		RR1388	\$5,861.00
vendor// HAULIN ACID					VENDOR TOTAL \$6,610.13
cost code// 9322-443 - FLUID HAULING (TANK TRUCKS)					TOTAL \$6,610.13
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-13		deliver acid		3595	\$2,031.00
2022-06-13		deliver acid		3290	\$4,579.13
vendor// HIGH MARK WELL SERVICE					VENDOR TOTAL \$32,167.40
cost code// 9322-467 - SERVICE RIG					TOTAL \$32,167.40
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-06		SR move in, day work		HMW-004-198-1581	\$11,502.40
2022-07-07		SR day work		HMW-004-198-1582	\$12,012.60
2022-07-08		SR day work, move home		HMW-004-198-1583	\$8,652.40
vendor// L&C TRUCKING					VENDOR TOTAL \$7,068.20
cost code// 9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)					TOTAL \$7,068.20
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-06		deliver 89mm tubing from estevan		120619	\$7,068.20
vendor// MANTL					VENDOR TOTAL \$38,887.50
cost code// 9330-509 - DOWNHOLE TOOLS					TOTAL \$7,550.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-06		hybrid x gas sep, crossovers, pup, bull plug, collars		31191	\$7,550.00
cost code// 9330-569 - PRODUCTION TUBING					TOTAL \$3,495.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-07		3 89mm wear joints - polish rod		31219	\$3,495.00
cost code// 9330-575 - RODS / COROD					TOTAL \$27,842.50
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		1297m 780M corod		31308	\$27,842.50
vendor// MIKTYE TRUCKING LTD					VENDOR TOTAL \$435.00
cost code// 9322-481 - VACUUM SERVICES					TOTAL \$435.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		clean out pile base buffer tank in yard		101805	\$435.00
vendor// N/A					VENDOR TOTAL \$6,000.00
cost code// 9322-483 - WELLSITE SUPERVISION / CONSULTANT					TOTAL \$6,000.00
DAILY REPORT	VENDOR CODE	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
vendor// NCS MULTISTAGE					VENDOR TOTAL \$50,032.91
cost code// 9322-404 - FRAC PACKER TOOLS					TOTAL \$50,032.91
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26		tool hands, frac packer tools		FS56871	\$40,036.34
2022-07-05		open sleeves		FS57219	\$9,996.57
vendor// NELSON BROS. OILFIELD SERVICES					VENDOR TOTAL \$16,082.60
cost code// 9322-443 - FLUID HAULING (TANK TRUCKS)					TOTAL \$9,674.20
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-06		deliver & purchase 25m3 15%KCL		370596	\$9,674.20
cost code// 9322-481 - VACUUM SERVICES					TOTAL \$6,408.40
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-12		hydrovac clean culverts for water line crossings		357921	\$2,682.40
2022-07-05		vac on site to open sleeves		374624	\$3,726.00
vendor// NELSON BROTHERS					VENDOR TOTAL \$18,051.20
cost code// 9322-481 - VACUUM SERVICES					TOTAL \$18,051.20
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26		Vac 24 hours 3 days on site		5690-01	\$18,051.20
vendor// NEWWAVE ENERGY SERVICES GROUP					VENDOR TOTAL \$121,298.00
cost code// 9322-444 - FLUID TRANSFER (ON-SITE)					TOTAL \$121,298.00
DAILY REPORT	VENDOR CODE	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
2022-06-22		day rig rigging in water line		14-03 WTCJ-272-05	\$10,792.50
2022-06-23		water transfer finish rig in, hose failed multiple times. Had to shut down ops waiting on water. SPENT HALF THE DAY UNLOADING TRUCKS SINCE NEWWAVE TOOK EQUIPMENT TO ANOTHER JOB DURING RAIN DELAY. UNLOADED EQUIPMENT FOR 2ND TIME ON THIS JOB		14-03 WTCJ-272-06	\$11,390.00
2022-06-24		frac water pumping to site, equipment, pumps, filter pot, 24 hour crew		14-03 WTCJ-272-07	\$12,772.50



BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 - Initial Completions Cost Summary
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2022-06-25	water transfer for frac, personal and equipment	14-03 WTCJ-272-08	\$16,230.00
2022-06-26	water transfer for frac, personal & equipment	14-03 WTCJ-272-09	\$16,455.00
2022-06-27	finish frac, begin tear out	14-03 WTCJ-272-10	\$5,938.00
2022-06-28	tear out water line	14-03 WTCJ-272-11	\$6,700.00
2022-06-29	final tear out day, load trucks, released NewWave	14-03 WTCJ-272-12	\$5,925.00

Vendor// NLFISHER SUPERVISION AND ENGINEERING					VENDOR TOTAL \$3,000.00
cost code// 9322-483 - WELLSITE SUPERVISION / CONSULTANT					TOTAL \$3,000.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-04		WSS		BOC000006	\$1,500.00
2022-07-05		WSS		BOC000006	\$1,500.00

Vendor// QUICK SILVER WIRELINE SERVICES LTD					VENDOR TOTAL \$14,477.40
cost code// 9322-441 - EQUIPMENT RENTALS (DOWNHOLE)					TOTAL \$6,365.50
DAILY REPORT	VENDOR CODE	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	VENDOR CODE	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

Vendor// RUGGED OILFIELD SERVICES					VENDOR TOTAL \$34,215.00
cost code// 9322-439 - EQUIPMENT RENTALS (SURFACE)					TOTAL \$11,700.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		final rent bill on loader		6854	\$11,700.00
cost code// 9322-444 - FLUID TRANSFER (ON-SITE)					TOTAL \$18,515.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26		rent on pumps (2), open top tanks, hoses, accomodations (4 days), filters, filter pot		6975	\$4,320.00
2022-06-26		truck pumps, filter pot to and from location, manpower for 4 - 24 hour shifts,		6974	\$14,195.00
cost code// 9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)					TOTAL \$4,000.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-07		deliver pump from redcliff		6884	\$4,000.00

Vendor// SECURE ENERGY SERVICES					VENDOR TOTAL \$37,445.95
cost code// 9322-431 - COMPLETIONS FLUIDS (FRESH WATER & BRINES OR KILL FLUID)					TOTAL \$31,997.80
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		water access to land owner, secure consulting charges to arrange agreements		3570002	\$31,997.80
cost code// 9322-453 - LIQUIDS/SOLIDS DISPOSAL					TOTAL \$4,777.75
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-26		Fluid disposal during frac		BCFST-001464-1	\$1,515.00
2022-07-07		dispose fluid from open top tanks (wilf bradt) & nelson bros after frac		BCFST-001617	\$2,240.75
2022-07-08		dispose of fluid from buffer tanks		DVFST-027253	\$55.65
2022-07-08		fluid from rig tank cleaning, pull btms on 400's (wilf brandt)		BCFST-001645	\$966.35
cost code// 9322-456 - CRUDE OIL & CHEMICALS					TOTAL \$670.40
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-27		Biocide for fresh water treatment		CSO053557	\$670.40

Vendor// SHAWCOR					VENDOR TOTAL \$16,083.26
cost code// 9322-417 - CASING SERVICES - PRODUCTION					TOTAL \$16,083.26
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-07-08		inspect, repair 114mm 20.09kg/m P-110 casing. All 116 - yellowband. Pin / Box ends repaired as needed		Y20499837	\$16,083.26

Vendor// SHAWNS OILFIELD SERVICE					VENDOR TOTAL \$23,975.00
cost code// 9322-401 - ACCESS ROADS AND LEASE					TOTAL \$17,695.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-10		deliver winch cat		5448	\$400.00
2022-06-13		grade lease road		5455	\$540.00
2022-06-26		cat 24 hours to pull equipment around location, no equipment could move once off matting without being towed. Operator on site for cat 24 hours a day		5497	\$13,595.00
2022-06-27		grade county road after frac move out, blade up lease with cat to try to dry out		5499	\$1,320.00
2022-06-27		pump water off location to try to dry		5500	\$1,840.00
cost code// 9322-444 - FLUID TRANSFER (ON-SITE)					TOTAL \$3,840.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-13		gravel for water line crossings		5454	\$3,840.00
cost code// 9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)					TOTAL \$2,440.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-29		haul out loader and cat while lease is shut down. To much theft in area to leave unattended		5501	\$900.00
2022-07-04		move in cat and loader for sleeve opening ops, operate cat to assist coil spotting		5503	\$1,540.00

Vendor// SHAWNS OILFIELD SERVICE					VENDOR TOTAL \$15,410.00
cost code// 9322-401 - ACCESS ROADS AND LEASE					TOTAL \$15,410.00
DAILY REPORT	VENDOR CODE	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
2022-07-05		cat stuck and tow		5529	\$1,760.00
2022-07-06		cat stuck and tow		5531	\$910.00
2022-07-07		cat stuck and tow		5530	\$2,080.00
2022-07-08		Final bill on cat stuck and tow		5532	\$2,100.00

Vendor// STRATAFLO					VENDOR TOTAL \$27,756.00
cost code// 9322-479 - TESTING & SURVEYS / FRAC FLOWBACK / JET PUMP					TOTAL \$27,756.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	PURCHASE ORDER	TICKET	AMOUNT
2022-06-23		Testers 24 hours		MF220623	\$4,626.00
2022-06-24		testers 24 hours		MF220624	\$4,626.00
2022-06-25		testers 24 hours		MF220625	\$4,626.00



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

2022-06-26	testers 24 hours	MF220626	\$4,626.00
2022-07-04	testers 24 hours, open sleeves	BG220704	\$4,626.00
2022-07-05	testers 24 hours to open sleeves	BG0705	\$4,626.00
Vendor// TKO RENTALS LTD			
cost code// 9322-439 - EQUIPMENT RENTALS (SURFACE)			VENDOR TOTAL \$119,595.84
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-06-29		rent on 400's, buffer tanks, full combo, fuel skid, DEF for loader, light towers, dual mast light, genie, rig matting, acid tank, road signs (1 was stolen and replaced) cost for Goldies is food for lease after rig in for excessive mud conditions, roughne	DV-1871-1
2022-07-08		Final rent bill, 4.5" handling equipment, shacks, light towers, bathroom, skid steer, tanks	DV-1871-6
cost code// 9322-447 - EQUIPMENT HAULING (PICKER/BED TRUCK ETC)			TOTAL \$56,533.34
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-06-10		deliver rig matting, deliver loader, deliver light towers, combo unit, fill shack water, deliver 2 buffer tanks, deliver fuel skid	DV-1871-2
2022-06-29		Return trucking on rentals, skid steer for clean up and loading, 2 loads of NewWave hoses, 1 load of pumps, 2 pick up loads (36' trailers) of NewWave parts, road crossings,	DV-1871-5
2022-06-29		return trucking on rig matting, light tower hot shot during frac for calfrac coil unit (generator quit during job), return light towers, hose reels, labor for rig out, haul back genie, acid tank, buffers	DV-1871-3
2022-07-08		when taking back good tubing hauled out some junk 60mm and applied credit for purchase of junk tubing	DV-1871-8
2022-07-08		final trucking bill, haul out rentals, tanks, catwalk, hot shot BHA parts from Red Deer, bring blue band tail joints from battery, return good extra tubing to battery	DV-1871-7
cost code// 9322-457 - MISCELLANEOUS			TOTAL \$47,607.50
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-06-26		24 hour on site security due to excessive theft in area.	DV-1874-4
cost code// 9322-457 - MISCELLANEOUS			TOTAL \$15,455.00
Vendor// TRIMARK TUBULARS			
cost code// 9330-569 - PRODUCTION TUBING			VENDOR TOTAL \$65,804.59
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-07-06		89mm J-55 Evraz new tbq	7-1079
cost code// 9330-569 - PRODUCTION TUBING			TOTAL \$65,804.59
Vendor// TRYSON ENERGY SERVICES			
cost code// 9322-423 - COILED TUBING SERVICES / CONFIRMATIONS RUNS / CLEAN OUT			VENDOR TOTAL \$30,480.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-06-23		120 ton crane for coil / frac ops (entire job)	13876
cost code// 9322-457 - MISCELLANEOUS			TOTAL \$22,040.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-07-05		Crane for holding CTU	14255
cost code// 9322-457 - MISCELLANEOUS			TOTAL \$8,440.00
Vendor// UNLIMITED SAFETY SERVICES			
cost code// 9322-465 - SAFETY SERVICES			VENDOR TOTAL \$9,875.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-06-26		fire / shower combo for 5 shifts during frac	5606
cost code// 9322-465 - SAFETY SERVICES			TOTAL \$9,875.00
Vendor// VOLTAGE WIRELINE INC			
cost code// 9322-455 - LOGGING & ELINE SERVICES			VENDOR TOTAL \$4,153.10
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-06-10		CNL log	65831
cost code// 9322-455 - LOGGING & ELINE SERVICES			TOTAL \$4,153.10
Vendor// WEATHERFORD			
cost code// 9330-503 - ARTIFICIAL LIFT EQUIPMENT (PUMPJACKS)			VENDOR TOTAL \$30,849.22
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-07-06		top drive, motor, flow T, stuffing box	F1031496SO1491181
cost code// 9330-507 - BOTTOM HOLE PUMP - RECOVERABLE			TOTAL \$19,695.50
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-07-06		59-1800, pup joint, NTT	F1031488SO1491188
cost code// 9330-575 - RODS / COROD			TOTAL \$10,598.54
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-07-06		rod couplings, 1 - pony rod	F1031491SO1491188
cost code// 9330-575 - RODS / COROD			TOTAL \$555.18
Vendor// WILF BRANDT TRUCKING			
cost code// 9322-443 - FLUID HAULING (TANK TRUCKS)			VENDOR TOTAL \$11,340.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-07-04		deliver produced water to open sleeves	200683
2022-07-04		deliver produced water to open sleeves	200682
2022-07-05		deliver prod wtr from 16-5 bty	200684
2022-07-07		haul fluid to battery	200694
2022-07-07		haul fluid to battery	199516
2022-07-07		haul fluid to battery	200705
2022-07-08		haul fluid to 16-5	200695
2022-07-08		haul fluid to 16-5 battery	199517
2022-07-08		haul fluid to 16-5	200708
cost code// 9322-481 - VACUUM SERVICES			TOTAL \$4,050.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-07-07		clean open top tanks, go to disposal	EST
2022-07-08		vac clean rig tank, pull bottoms on 400bbl tanks	EST
cost code// 9322-481 - VACUUM SERVICES			TOTAL \$2,250.00
Vendor// ZEPHYR SAFETY CORP			
cost code// 9322-465 - SAFETY SERVICES			VENDOR TOTAL \$9,774.00
DAILY REPORT	VENDOR CODE	DESCRIPTION	TICKET
2022-06-26		medic 24 hours 3 days for frac	0994
cost code// 9322-465 - SAFETY SERVICES			TOTAL \$9,774.00
GRAND TOTAL			\$2,256,021.52



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
513 C Grade matts	Chemco	\$1,154.25		14	\$16,159.50



Daily Rentals Breakdown
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	
ITEM	VENDOR	COST	06-10	06-11	06-12	06-13	06-14	06-21	06-22	TOTAL	RUNNING
513 C Grade matts	Chemco	\$1,154.25						•	•	\$2,308.50	\$2,308.50
DAILY TOTAL			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,154.25	\$1,154.25	\$2,308.50	
RUNNING TOTAL			\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,154.25	\$2,308.50		\$2,308.50



Daily Rentals Breakdown
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
ITEM	VENDOR	COST	06-23	06-24	06-25	06-26	06-27	06-28	06-29	TOTAL	RUNNING
513 C Grade matts	Chemco	\$1,154.25	•	•	•	•	•	•	•	\$8,079.75	\$10,388.25
DAILY TOTAL			\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$8,079.75	
RUNNING TOTAL			\$3,462.75	\$4,617.00	\$5,771.25	\$6,925.50	\$8,079.75	\$9,234.00	\$10,388.25		\$10,388.25



Daily Rentals Breakdown
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
ITEM	VENDOR	COST	07-04	07-05	07-06	07-07	07-08	TOTAL	RUNNING
513 C Grade matts	Chemco	\$1,154.25	•	•	•	•	•	\$5,771.25	\$16,159.50
DAILY TOTAL			\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$1,154.25	\$5,771.25	
RUNNING TOTAL			\$11,542.50	\$12,696.75	\$13,851.00	\$15,005.25	\$16,159.50		\$16,159.50



Completions 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
NAME	START DATE	END DATE	AFE #	AFE AMOUNT
Completions	2022-06-10	2022-07-08	22CP0009	\$1,919,760.00
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	2022-07-08	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 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	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. 05:00 No water on location
06:29	06:30	WARNING: Missing Time	
06:30	06:45	0.25 hr	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 & 65MPa. Negative 10MPa test on check valves.
06:45	08:00	1.25 hr	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.
08:00	13:00	5.00 hr	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. 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
13:00	13:30	0.50 hr	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.
13:30	15:42	2.20 hr	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 <> Proppant 93.50 m³ Max Conc sand @ perfs = 600kg/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 = 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.
15:42	16:44	1.03 hr	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 <> Proppant 82.70 m³ Max Conc sand @ perfs = 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 = 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.
16:44	17:39	0.92 hr	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 <> Proppant 79.30 m³ Max Conc sand @ perfs = 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 = 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.
17:39	18:40	1.02 hr	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 <> Proppant 83.40 m³ Max Conc sand @ perfs = 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 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 hr	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 @ perfs = 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 hr	Wait on NuWave to repair water line and build sufficient water volume before starting next frac
21:07	21:45	0.63 hr	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 @ perfs = 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	0.90 hr	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 @ perfs = 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 hr	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.

TOTAL23.97 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 = 41.10 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 @ 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 85.10 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 @ 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 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 @ 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 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 @ 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 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 @ 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 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 @ 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 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 @ 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 (Note: took extra time to locate the frac 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 @ 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 = 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 @ 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 = 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 @ 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 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 @ 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 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 @ 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 = 8.0 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 @ 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 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.
TOTAL23.22 hr			
Completions Daily Report • 2022-06-27			
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.
06:00	20:00	14.00 hr	CalFrac hauled out sand hogs and belts. Needed winch cat to move to matting and get trucks under hogs. NewWave taking down lines, stacking reels at battey. Sent 4 x pumps back to base (TKO). Rig down and released all rentals (shacks, lights, rig matting, etc) Hauled out acid tank, 400bbl tanks stayed to open sleeves.
TOTAL20.00 hr			
Completions Daily Report • 2022-06-28			
TOTAL0.00 hr			
Completions Daily Report • 2022-06-29			

07:30	17:00	9.50 hr	Held PJSM, w/ NewWave crews, discussed hand/finger pinch points - load securement and possible debris on equipment ensure no loose debris or equipment on trailers. NewWave continued to demobilize water line and support equipment. All equipment demobilized 100%. Apply gravel around wellhead area - stack rig mats and perform general lease cleanup.
TOTAL9.50 hr			Completions Daily Report • 2022-07-04
16:00	18:30	2.50 hr	CalFrac day shift arrived on location. Spotted some coil equipment. Cat on site to assist as needed in spotting. Waiting for remaining equipment to come on night shift. Wilf Brandt hauled in fluid for TP pump. Produced water mixed with clay stabilizer and biocide.
18:30	18:45	0.25 hr	Held PJSM with the following discussed, spotting equipment use spotters, spotter to be in view of driver at all times and wearing Hi Viz PPE - Hand and finger placement while R/U equipment, use good communication w/ all crewmembers - Reviewed job scope for the shift and P/T requirements. All crews signed onto applicable Blackspur SWP 7-4-2022-4
18:45	00:00	5.25 hr	Cont to spot and R/U CalFrac CT unit and TP pumper along w/ Strataflo flow back line. Picked up BOPs & installed on wellhead BX-155 connection with BX-155 x BX-169 crossover spool. (BOP previously stump tested in the yard and charted test is on location)
TOTAL8.00 hr			Completions Daily Report • 2022-07-05
00:00	05:00	5.00 hr	TP spotted and rigged into 400bbl tanks, coil and common line to frac head. 60 m3 sweet produced water on site to begin sleeve opening. Stabbed coil thru injector and hung with crane. Made up 4 x 10k lubricator NCS cut, prepped coil end - 60mm. Installed NCS OD coil connector. Pull tested to 7daN, 14daN, 23daN, 23daN - solid. Tested coil connector to 35MPa, held solid. Bled down to 0MPa. Toolled up NCS as follows: 1 - 79.38mm OD coil connector: 0.30m 1 - 77.80mm Crossover 2.5" SA box x 2.25" SA pin: 0.11m 1 - 73.03mm Dual Flapper check valves: 0.40m 1 - 73.03mm Disconnect tool, 0.895" ball seat: 0.43m 1 - 73.03mm Expansion joint: 1.26m 1 - 73.03mm EQ valve Innovus HD, Armoured w/ 0.375" orifice: 0.60m 1 - 95.25mm Packer top end Innovus HD w/ 70 duro elements: 0.27m 1 - 92.71mm Packer btm end Innovus Prototype: 1.62m 1 - 77.80mm Flow crossover: 0.13m 1 - 77.80mm Decompression housing: 0.51m 1 - 77.80mm Crossover 2.5" SA box x 2.5" SA Pin: 0.04m 1 - 96.27mm Bullnose: 0.15m BHA Overall: 5.99m Disconnect ball: 25.40mm Tension cone: 10 brass - 17,350daN @ 0MPa NOTE: BHA c/w gauges installed Stabbed onto wellhead. Circulated stack and testers line over to sweet produced water, removed all air back to tank thru testers 10k manifold. Pressure tested to low 2MPa, visual check, no leaks. Pressured up to high 65MPa, visual check no leaks, charted 5 min flat line. Bled down to 10MPa, bled down coil to 0MPa, performed negative test on check valves, held 100%. Bled down to 2MPa, opened up 2 x master valves 23.5 turns, readied to RIH. SICP: 1500 kPa.
05:00	06:30	1.50 hr	RIH w/ Coil, 20m/min, TP pumping at 100l/min, w/ zero back pressure applied. Set packer at 500mKb. Pressure tested to 21MPa, held solid. Un-set and continued in hole.
06:30	06:45	0.25 hr	Held PJSM with crews. 12 people on location. Issued and reviewed Blackspur safe work permits. Reviewed job scope for day to continue RIH w/ coil, open sleeves, tool down NCS, purge coil and rig out. Lease is very muddy, take time moving around location. Cat on location to assist as needed, stay clear while towing. Do NOT enter area between cat and unit until fully stopped. Reviewed vendor JSAs for applicable tasks. Hard rain expected all day, take breaks as needed to change out gear or warm up. Stay out of high pressure pump areas at all times. Spot vac in and out as needed for job.
06:45	14:30	7.75 hr	Continued in hole with coil. 20m/min. Through liner top with no issues or weight change. Stopped and located sleeve # 52, - 6.5m depth correction. Set packer at 1893.5mCT, tested packer to 10MPa - solid test. Continued in hole, circulating at 100l/min, testers maintaining 3MPa back pressure. 3100m. Stopped coil, pulled up and located 24 at 3087.9m CT. Set packer at 3078mCT, tested wellbore to 10MPa, solid pressure test. Continued in hole with no issues. Ran down to sleeve # 1 at 4023.6m CT, 1500daN run in hole weight. No issued getting to bottom, confirmed sleeve 1 is open. Opened all 52 frac sleeves and confirmed with open locate and or feed rate as needed. Set packer at 1937mCT - tested packer and wellbore to 11.1MPa, solid test, dumped EQ and readied to POOH w/ coil. NOTE: Took 56m3 to open sleeves and get coil to bottom. Fresh water mixed with produced (50-50) also mixed 2l/m3 clay stabilizer and biocide (secure product).
14:30	16:00	1.50 hr	POOH w/ coil. Cut out fluid pumps at 1900m CT. Nelson vac on site began sucking out equipment as needed. Shut in well with 2 x BX-155 master valves. Readied to break down tools & purge.
16:00	18:00	2.00 hr	Toolled down NCS. BHA in excellent condition, all components recovered. Stabbed back onto well with coil connector. Purged / pigged coil with 2000scm N2 to testers.
18:00	18:30	0.50 hr	Stabbed off well and removed coil connector, released NCS. CalFrac to begin rig out.
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	Cont to R/D CalFrac CT unit along with support equipment and testing equipment all equipment R/D 100%. N/D BOP and installed upper wellhead cap. Check shut in pressure TSTM. CWS demobilized 75% of equipment and remaining 25% spotted on mats ready for demobilization in the morning.
TOTAL24.00 hr			Completions Daily Report • 2022-07-06
07:30	08:00	0.50 hr	Held PJSM with GNE. Issued and reviewed Blackspur safe work permit. Reviewed job scope to rig up, R&R SICP, pull off frac tree and leave bottom BX-155 valve, install BPV, remove bonnett and remaining valve. Wait for SR to install BOPs, lube out BPV. Rig out. Reviewed rigging up in mud, confirm good rig in on picker on swamp matting. Reviewed working under pressure, good communication with rig crew when closing or opening blind rams. If unsure of task STOP and ask. Reviewed GNE safe work procedures for applicable tasks.
08:00	09:30	1.50 hr	GNE spotted picker truck and rigged in. R&R well pressures SICP: 300kPa - Fluid to surface. Closed bottom master and performed negative pressure test - held solid at 0kPa for 10 minutes. Split frac tree and rigged down. Loaded on GNE flat deck. Installed lubricator on BX-155 connection. Lubed in BPV, installed in hanger. Negative pressure test for 10 minutes - 0kPa. Removed Lubricator. Left master valve on well until rig BOPs are ready.
09:30	09:45	0.25 hr	High Mark SR on location. Held PJSM with High Mark well service rig 4. Issued and reviewed Blackspur safe work permit, Dir 33 and site ERP. Reviewed job scope for day to move in SR, tow as needed with Cat to spot, rig up, install BOPs and pressure test, pull BPV, rig in tongs to pull and lay out tie back string. Reviewed stuck and tow with cat. Stay clear of winch line. Do NOT enter area between cat and stuck unit at any time while winching. Reviewed High Mark PJSM / JSAs for applicable tasks. Take time working in mud. Take breaks as needed. Reviewed procedures to lay out tie back and use winch on heavy lifts.
09:45	11:30	1.75 hr	Spotted 4 - 8' x 40' rig matting for SR. Spotted High Mark service rig and support equipment utilizing cat to position each piece of equipment. Cannot move off swamp matting without being pulled by winch cat. Spotted equipment as per AER spacing regulations. Grounded all equipment to wellhead.
11:30	14:30	3.00 hr	Rigged up SR and support equipment. Centered over hole Decked tank and laid lines. Nelson Bros moved in 25m3 - 15%KCL to rig tank. Function tested Eklis, crown saver and rig horn, all working correctly. Spotted and rigged in TKO catwalk. Stump tested BOPs blind rams and 114mm TI valve to 1.4MPa & 21MPa for 10 min each, 100%. Great north removed 2nd BX-155 valve. Installed pup with TI valve in hanger. Crew installed Class 3 BOP stack on 3000# TBG head and secured. Pressure tested 114mm pipe ram to 1.4MPa & 21MPa for 10 min each, held 100% Tested annular to 7MPa - held solid. GNE rigged in lubricator to top of R46 BOP flange. Removed BPV, pressure 200kPa, fluid to surface and flowing to rig tank thru work spool once BPV removed and flow checked, shut in well. Rigged out and released GNE & Frac head. Rigged in work floor and 114mm handling equipment.

14:30	15:15	0.75 hr	Flow check well. Flowing full 2" to rig tank. Flowed back 0.50m3 - shut in. Pumped 5m3 15%KCL down TBG at 300l/min & 1MPa Pumped 10m3 15%KCL down annulus at 300l/min & 0.5MPa Let well sit for 5 minutes R&R well pressures, TSTM both sides.
15:15	15:30	0.25 hr	Undid lags, closed TI valve. Picked up to 30daN string weight. Rotated casing to right with tongs 14 times - came free from seal latch. No issues stinging out of latch. String weight is 28daN static. Pulled hanger and removed. Readied well to POOH w/ casing and lay out to catwalk.
15:30	19:30	4.00 hr	POOH & laid out 70 joints of casing to catwalk. Casing pulling very clean. NOTE: Connections coming out HOT. Very tight and dry connections.
19:30	20:00	0.50 hr	Shut in and secured well with pipe rams and locked. Night capped well and rig tank. SDFN
TOTAL12.50 hr			
Completions Daily Report • 2022-07-07			
07:30	08:00	0.50 hr	Held PJSM with crew, issued and reviewed Blackspur safe work permit. Reviewed job scope for day to kill well with 15%KCL, pull and lay out tie back, change over to 89mm & run production, rig out handling equipment, NDBOPs, NUWH and secure well. Reviewed High Mark PJSM / JSAs for applicable tasks. Lease is very muddy, take time moving equipment around. Keep catwalk clean and free of trip hazards.
08:00	08:30	0.50 hr	R&R well pressures, TSTM both sides (slight vac) Function tested BOPs, working correctly. Function tested Ekills crown saver & rig horn working correctly. Readied equipment to POOH.
08:30	11:30	3.00 hr	Pulled and laid down remaining 46 - 114mm P-110 BTC casing joints. Total 116 pulled and laid out + pups. Stinger (Packer Plus looks like new, will ship to Packers Plus Red Deer for Blackspur custom property.) NOTE: Transferred 116 joints of 114mm P-110 20.09kg/m BTC to Shawcor Nisku for inspection / repairs. Rigged out 4.5" tongs and handling equipment. Returned equipment to TKO.
11:30	13:00	1.50 hr	Changed over handling equipment to 89mm. Landed hanger with pup & TI in place. Tested pipe rams to 1.4MPa & 21MPa for 10 min each, held 100% R&R well pressures, TSTM both sides. Pulled hanger and removed. Rugged on site with Pump & BHA, offloaded & tallied BHA. Readied floor to RIH. Transferred in 89mm New J-55 Evraz TBG to catwalk with loader
13:00	17:00	4.00 hr	Picked up, tallied, drifted & RIH w/ Production string as follows: (Note all components are new except btm 5 tail joints are Blue band from battery stock) KB - THF: 4.90m 1 - 177mm x 89mm TC style TBG hanger (less top collar): 0.15m 1 - 89mm J-55 8rdd EUE Evraz TBG JT: 9.55m 1 - 89mm 10' pup joint: 3.08m 137 - 89mm J-55 8rd EUE Evraz TBG JTS: 1311.19m (Note: BTM 3 Joints are Q2 wear resistant L80 joints, # 1,2,3 in tally) 1 - 89mm 4' Boronized pup joint: 1.29m 1 - Weatherford 59-1800 Stator w/ tag bar: 10.79m - Ran at 11.20% EFF, 300RPM, 952 ft/lbs torque and full lift s/n# 10545202 1 - 177mm x 89mm 5 blade CTA NTT: 0.70m 1 - 89mm 6' handling pup: 1.89m 1 - 89mm x 73mm bottleneck XO: 0.14m 1 - Spirit Hybrid X 2 piece gas separator: 5.78m 1 - 73mm x 89mm Fishneck XO: 0.15m 5 - 89mm Blueband tail joints: 46.46m 1 - 89mm solid bull plug and collar: 0.25m 138 Full joints to pump top 143 Full joints in well Pump top at 1330.16mKb <- 49 deg INC <- 1265m TVD Pump btm at: 1340.95 <- 50 deg INC <- 1294m TVD End of TBG: 1396.32mKb <- 63 deg INC <- 1320m TVD Liner Hanger: 1570.22mKb <- 86 deg INC <- 1364m TVD Landed hanger, did in lags. Full tally in attachments.
17:00	18:30	1.50 hr	Rigged out work floor and TBG handling equipment. Stripped off Class 3 BOP stack and secured on transport spool. Rotated wellhead for operations tie in. Secured and tested seals to 2400PSI - Held solid. NOTE: Wilf Brand on site, hauled produced water back to 16-5-50-1w5 battery, Wilf Brandt vac on site cleaned open top tanks and hauled fluid to Secure Buck Creek
18:30	19:30	1.00 hr	Installed new OilLift 3000# composite flow T and fitting. C/W 1.25" rod lock BOPs. Night capped well, shut in and secured. Night cap well and rig tank. SDFN.
TOTAL12.00 hr			
Completions Daily Report • 2022-07-08			
07:30	08:00	0.50 hr	Held PJSM with High Mark, Amped and ProRod. Reviewed job scope for day to rig in gripper, run corod, space out, install top drive and rig out. Reviewed good communication rigging gripper in and out. Watch pinchpoints while building guide sections, keep hands clear of gripper at all times. Reviewed rig in and rig out procedures, reviewed stripping top drive over polish rod, reviewed rigging out SR at end of job. Reviewed vendor JSAs for applicable tasks. Good communication between services. Take time spotting equipment in mud. Stay clear of cat while towing. Do not enter tow area unless cat is at rest. If unsure of task STOP and ask prior to proceeding.
08:00	11:00	3.00 hr	R&R well pressures TSTM both sides. Spotted Amped gripper unit. Rigged pump lines into TBG, tested line to 12MPa. Flushed TBG with 8m3 - 5%KCL at 300l/min & 1MPa. R&R well pressures TSTM both sides. Amped gripper unit blew a belt and overheated. Changed belt but has hole in rad. Waited on new gripper to arrive. ProRod on site with new rod. Wilf Brandt hauled out remaining fluid from 400bbl tanks. Hauled to secure Buck Creek.
11:00	14:00	3.00 hr	Amped replacement gripper arrived on location. Spotted gripper. Rigged in rod BOP to composite flow T. Picked up and hung rotor in well (greased) Function tested BOP - working correctly. Picked up gripper and hung with blocks. Made up arch. Ran corod thru guide and secured direct to rotor with new 1" slimhole HI-T coupling. RIH w/ 1297m 28.6mm ProRod 780M Clamped off corod, rigged down arch, rigged down gripper unit. Picked up and ran 2 plain rods and ponies w/ Polish rod. Spaced out 30" off tag bar over string weight as per Weatherford recommendation. Full rod string ran as follows: 1 - 31.75mm x 12.2m Polish rod 1 - 1" x 3" spin thru for 3-1/2" TBG 2 - 25.4mm x 31.75mm Plain Ponies - 2', 6' 2 - 25.4mm x 31.75mm Plain Rods 1297m - ProRod 28.6mm 780M Corod string, 1" pins both ends 1 - Weatherford 59-1800 Rotor Stripped on Weatherford MG top drive and secured to OilLift flow T. Secured with 8 bolt clamp and left 3" Polish rod stick up. Installed lockdown on clamp. Released ProRod transport and Amped gripper unit.
14:00	16:00	2.00 hr	Shut in well and night capped. Rigged down High Mark rig 4. Loaded tank. Pre-Tripped equipment and readied to move.
16:00	17:00	1.00 hr	Winch cat pulled equipment onto matting.
17:00	18:00	1.00 hr	High Mark rig 4 moved back to base in Drayton Valley.
TOTAL10.50 hr			



BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 - Initial Completions - Non-Productive Time
BLACKSPUR HZ LEDUC-WB 16-11-51-2 - Leo #4 • 100/16-11-051-02W5/00 • #0502001

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	2022-07-08	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	2022-07-08	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
15%KCL									
NOTE Nelson Bros									
DATE	COMPANY	TICKET	SOURCE/DEST	LEASE		WELL		REMAINING	
				TO	FROM	TO	FROM	TANK	WELL
2022-07-06	Nelson Bros	370596	Nelson Bros	25.00 m³				25.00 m³	0.00 m³
2022-07-06	NOTE Flush Casing for well kill					5.00 m³		20.00 m³	5.00 m³
2022-07-06	NOTE Flush annulus for well kill					10.00 m³		10.00 m³	15.00 m³
2022-07-08	NOTE Flush tubing					10.00 m³		0.00 m³	25.00 m³
TOTAL				25.00 m³	0.00 m³	25.00 m³	0.00 m³	0.00 m³	25.00 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	5,225.00 m³				5,225.00 m³	0.00 m³
2022-06-26	NOTE Load fluid from frac (clean)					5,168.60 m³		56.40 m³	5,168.60 m³
2022-07-05	NOTE get to btm and open sleeves					56.40 m³		0.00 m³	5,225.00 m³
TOTAL				5,225.00 m³	0.00 m³	5,225.00 m³	0.00 m³	0.00 m³	5,225.00 m³
Produced water with clay stabilizer and biocide									
NOTE 16-5-50-1w5 bty									
DATE	COMPANY	TICKET	SOURCE/DEST	LEASE		WELL		REMAINING	
				TO	FROM	TO	FROM	TANK	WELL
2022-07-04	Wilf Brandt	200682	16-5-50-1w5 bty	52.00 m³				52.00 m³	0.00 m³
2022-07-04	Wilf Brandt	200683	1-16-50-1w5	13.00 m³				65.00 m³	0.00 m³
2022-07-05	Wilf Brandt	200684	16-5-50-1w5	26.00 m³				91.00 m³	0.00 m³
2022-07-07	Wilf Brandt	200705	16-5-50-1w5 Bty			10.00 m³		81.00 m³	0.00 m³
2022-07-07	Wilf Brandt	200706	16-5-50-1w5 bty			10.00 m³		71.00 m³	0.00 m³
2022-07-07	Wilf Brandt	200707	16-5-50-1w5 Bty			10.00 m³		61.00 m³	0.00 m³
2022-07-08	Wilf Brandt	199516, 199517	16-5-50-1w5 Bty			61.00 m³		0.00 m³	0.00 m³
TOTAL				91.00 m³	91.00 m³	0.00 m³	0.00 m³	0.00 m³	0.00 m³

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	2022-07-08	22CP0009	\$1,919,760.00
Initial Completions Remarks				