

LOCATION DATA							
NAME		LICENSE #	UWI	EVENT	AFE #	AFE \$	
BLACKSPUR HZ LEDUC-WB 16-11-51-2		0502001	100/16-11-051-02W5/00	Initial Drill	21DR0012	\$1,657,265.00	
DRILLING DATA							
EVENT	STAGE	MOVE DATE	SPUD DATE	RELEASE DATE	RIG		
Initial Drill	DRILLING	2022-01-17	2022-01-19		Horizon #43		
SURVEYED	CUT / FILL	KB > GROUND	CF > GROUND	GROUND	KB ELEVATION	CF ELEVATION	
742.30 m	-0.29 m	5.50 m	0.00 m	742.01 m	747.51 m	742.01 m	
DAILY REPORT DETAILS							
REPORT DATE	DEPTH	DRILLING TIME	PROGRESS	AVG ROP	MAN HOURS	CUM. HOURS	NON-PRODUCTIVE
2022-01-21	1,292.00 m	12.50 hr	992.00 m	44.09 m/hr	132.00 hr	529.00 hr	0.00 hr
MUD		RENTALS		COSTS			
MUD	CUM. MUD	RENTALS	CUM. RENTALS	DRILLING DAILY	DRILLING TOTAL	EVENT DAILY	EVENT TOTAL
\$10,900.00	\$17,994.25	\$9,091.50	\$31,591.00	\$78,895.49	\$481,053.30	\$78,895.49	\$564,413.30
DAILY OPERATIONS							
MORNING OPERATIONS No safety concerns or environmental issues to report. Drill 159mm Vertical section f/ 1292mKB mKB - 1410mKB Rotating ROP - 60m/Hr, Sliding ROP - 30m/Hr, Vis- 48, Mud Wt - 1060Kg/m, Gamma - 95API, Gas - 344units. Currently 1.2 below & 1.5 Left of line Drill into the top of Mannville formation @ 50.2deg Inc.							
DAILY OPERATIONAL SUMMARY No safety concerns or environmental issues to report. Drill 159mm Vertical section f/ 300mKB mKB - 1292mKB, Rotating ROP - 100m/Hr, Sliding ROP - 60m/Hr, Silicate content @ 12%, Vis- 45, Mud Wt - 1050Kg/m, Gamma - 87API, Gas - 144units. KOP @ 1007mKB, Mud up @ 1100mKB. Build section last 24 hours 1007.0-1292m 280m drilled Slid 196.9m (77%) Rot 83.1m (23%) Discussed with CVE Calgary Drilling Superintendent Derek Rae upcoming days operations of Drilling ahead, connections & handling chemicals. The rig is running well with no safety or environmental issues to report.							
DAILY FORECAST Drill to heel ~ 1560mKB, Condition mud & circulate hole clean, back ream to KOP @ 1007mKB, trip out to shoe @ 271mKB, run/wash back to bottom, condition mud & circ hole clean, POOH f/ 177.8mm Csg.							
TIMELOG				WEATHER			
FROM TO	DUR	NPT CODE	DETAILS	TIME	TEMP	CONDITIONS	
00:00 03:00	3.0 h	2	Drill 222mm hole from 300m to 640m	06:00	1 °C	PARTLY CLOUDY	
03:00 06:30	3.5 h	20A	Directional surveys, connections, work pipe	WIND STRENGTH		ROAD CONDITION	
06:30 06:45	0.25 h	21	Crew change handover meeting	UP TO 19 KM/H		VERY POOR	
06:45 07:45	1.0 h	2	Drill 222mm hole from 640 to 700m	PERSONNEL			
07:45 08:00	0.25 h	7	Rig Service/ function pipe rams 5 secs to close	DRILLING ENGINEER - On Site			
08:00 08:15	0.25 h	21A	bop drill with crew members well secure in 90 secs , discuss crew positions, kick warning signs	Derek Rae 403-701-0899			
08:15 11:45	3.5 h	2	Drill 222mm hole fr/ 700m- 1006m	DRILLING CONSULTANT - On Site			
11:45 13:15	1.5 h	20A	Directional surveys , connections , worked pipe	Mike Bowen 403-348-9127			
13:15 13:45	0.5 h	2	Drill 222mm build section fr/ 1006m-1082m	DRILLING CONSULTANT - On Site			
13:45 15:45	2.0 h	20A	Directional surveys ,connections , worked pipe	Darren Burton 780-518-7767			
15:45 16:00	0.25 h	7	Rig Service f/t ann. 17 secs to close	DRILLING MANAGER - On Site			
16:00 17:30	1.5 h	2	Drill 222mm build section fr/ 1082m- 1158m	Nick Stanford 403-804-0296			
17:30 18:30	1.0 h	20A	Directional surveys , connections , worked pipe	MUD ADDITIVES			
18:30 18:45	0.25 h	21	crew hand over	PRODUCT	AMOUNT	UNIT	
18:45 21:45	3.0 h	2	Drill 222mm build section fr/ 1158m - 1292m	C 107 FLOC POLYMER	5	sacks	
21:45 23:45	2.0 h	20A	Directional surveys, connections, work pipe	HYPERDRILL 247	2	sacks	
23:45 00:00	0.25 h	7	Rig Service/ function HCR 2 secs to open	UNIPAC HVD HIGH VIS	6	sacks	
BOTTOM HOLE ASSEMBLY (LAST)				UNIPAC LVD LOW VIS	6	sacks	
#	DESCRIPTION	OD	ID	LENGTH	UNIPAC HVD	6	sacks
1	BIT	311.0 mm	0.0 mm	0.28 m	UNIPAC LVD	2	sacks
1	MUD MOTOR	175.0 mm	0.0 mm	8.88 m	POLYZAN	4	sacks
1	PONY SLICK COLLAR	160.0 mm	71.0 mm	4.09 m	UNISTAR	4	sacks
1	FLEX NMDC	160.0 mm	72.0 mm	9.18 m	ENGINEERING	1	Chk
1	GAP SUB	163.0 mm	74.0 mm	1.66 m	SILICATE	8	m3
1	FLEX NMDC	160.0 mm	72.0 mm	9.35 m	MUD RECORD		
1	JARS-HYD/MECH	165.0 mm	57.2 mm	4.8 m	TIME	DEPTH	DENSITY
1	X/O	165.0 mm	0.71 mm	0.77 m	01:00	816.00 m	1,050.00 kg/m³
70	HWDP (4.5 DS40)	114.0 mm	72.0 mm	664.15 m	VISCOSITY	WATER LOSS	FLUID pH
				30.00 s/l	0.00 ml/30	0	
				PVT	SOLIDS	OIL	
				29.4	-	-	
BIT RECORDS				LOCATION SHAKERS			
#	SIZE	MANUFACTURER	TYPE	IN	OUT	HRS	
	(mm)			(m)	(m)		
2	222.0 halliburton		GTD54RM	271.0	0.0	4.00 hr	TIME
2	222.0 halliburton		GTD54RM	271.0	0.0	4.00 hr	21:00
2	222.0 halliburton		GTD54RM	271.0	0.0	4.50 hr	DEPTH
TOTAL						12.50 hr	1,221.00 m
DRILLING PARAMETERS				VISCOSITY	WATER LOSS	DENSITY	
From Time	To Time	From Depth	To Depth	Activity	Rotary RPM	Weight on Bit	1,050.00 kg/m³
00:00	07:30	300.0 m	700.0 m	DRILL	45	8.0 kdaN	FLUID pH
08:15	15:45	700.0 m	1,082.0 m	DRILL	45	10.0 kdaN	12
16:00	23:30	1,082.0 m	1,292.0 m	DRILL	45	10.0 kdaN	OIL
DEVIATION SURVEYS				PVT	SOLIDS	-	
WELLBORE	MD	TVD	DEVIATION	LOCATION SHAKER			
Original Hole	345.42 m	345.37 m	0.80°	SHAKER			
				PUMPS			
				Pump #1	Work Force	Pump #2	Work Force
				Model	1300	Model	1300
				Duplex	TRIPLEX	Duplex	TRIPLEX
				SPM	62	SPM	62

Original Hole	402.33 m	402.27 m	0.30°	207.10°
Original Hole	459.25 m	459.19 m	0.30°	101.80°
Original Hole	516.39 m	516.33 m	0.60°	178.40°
Original Hole	573.24 m	573.18 m	0.90°	241.20°
Original Hole	630.06 m	629.99 m	1.00°	243.40°
Original Hole	687.16 m	687.08 m	0.70°	274.00°
Original Hole	744.19 m	744.11 m	0.30°	220.20°
Original Hole	801.31 m	801.23 m	0.50°	21.50°
Original Hole	858.15 m	858.07 m	0.20°	107.90°
Original Hole	915.15 m	915.07 m	0.30°	214.20°
Original Hole	971.98 m	971.90 m	0.40°	226.30°
Original Hole	990.96 m	990.88 m	0.10°	159.60°
Original Hole	1,000.54 m	1,000.46 m	0.40°	247.10°
Original Hole	1,009.99 m	1,009.91 m	0.90°	73.10°
Original Hole	1,019.47 m	1,019.38 m	3.10°	75.90°
Original Hole	1,028.95 m	1,028.84 m	5.30°	72.30°
Original Hole	1,038.53 m	1,038.36 m	6.80°	73.90°
Original Hole	1,048.01 m	1,047.76 m	8.00°	75.50°
Original Hole	1,057.44 m	1,057.09 m	8.70°	79.80°
Original Hole	1,066.91 m	1,066.44 m	9.50°	88.10°
Original Hole	1,076.53 m	1,075.92 m	10.60°	88.30°
Original Hole	1,086.19 m	1,085.39 m	12.00°	81.70°
Original Hole	1,095.70 m	1,094.67 m	13.50°	82.30°
Original Hole	1,105.16 m	1,103.84 m	14.60°	81.20°
Original Hole	1,114.65 m	1,112.99 m	16.20°	85.80°
Original Hole	1,124.19 m	1,122.07 m	19.50°	85.20°
Original Hole	1,133.70 m	1,130.96 m	22.00°	85.10°
Original Hole	1,143.20 m	1,139.69 m	24.50°	80.20°
Original Hole	1,152.83 m	1,148.40 m	26.20°	76.40°
Original Hole	1,162.35 m	1,156.89 m	27.40°	75.80°
Original Hole	1,171.82 m	1,165.25 m	28.60°	74.70°
Original Hole	1,181.30 m	1,173.52 m	30.00°	76.90°
Original Hole	1,190.77 m	1,181.64 m	31.90°	78.50°
Original Hole	1,200.25 m	1,189.63 m	33.20°	82.30°
Original Hole	1,209.70 m	1,197.49 m	34.30°	87.10°
Original Hole	1,219.26 m	1,205.32 m	35.70°	91.30°
Original Hole	1,228.73 m	1,212.94 m	37.20°	92.60°
Original Hole	1,238.23 m	1,220.46 m	38.20°	91.80°
Original Hole	1,247.72 m	1,227.85 m	39.50°	91.80°
Original Hole	1,257.30 m	1,235.17 m	40.80°	92.60°
Original Hole	1,266.78 m	1,242.24 m	42.70°	90.60°
Original Hole	1,276.27 m	1,249.18 m	43.40°	89.00°

Pressure	10,000 kpa	Pressure	10,000 kpa	
Hours Run	24.0 hr	Hours Run	24.0 hr	
Liner Size	152.0 mm	Liner Size	152.0 mm	
HOLE CONDITION				
DRAG UP	DRAG DN	TORQUE	FILL	DEPTH
3.0 kdaN	2.0 kdaN	5,000.0 Nm	0.0 m	-
5.0 kdaN	4.0 kdaN	2,050.0 Nm	0.0 m	-
5.0 kdaN	5.0 kdaN	5,500.0 Nm	0.0 m	-
SOLIDS CONTROL				
NAME	INTAKE	OVERFLOW	UNDERFLOW	
CENTRIFUGE	1,040 kg/m³	1,030 kg/m³	1,855 kg/m³	

DAILY COSTS		
VENDOR	#	TOTAL
BLACK DIAMOND	2	\$1,827.00
BULLDOG	1	\$130.00
CODECO-VANOCO	1	\$3,000.00
GFL	1	\$45.00
HORIZON DRILLING	4	\$22,745.00
LIQUIDS TRANSLOADING LTD.	3	\$3,400.00
MOOSE DOKTOR	1	\$70.00
PASON	1	\$1,800.00
PETRO CANADA	1	\$19,405.99
PHOENIX DIRECTIONAL SERVICES	1	\$6,250.00
PRECISION RENTALS	2	\$3,668.00
ROCKBUSTERS OILFIELD PERFORMANCE LTD	1	\$300.00
SKS LOGISTICS LTD	1	\$1,127.50
TALLMAN GEOLOGICAL	1	\$2,000.00
TANGO DELTA	1	\$252.00
TROJAN SAFETY	1	\$660.00
UNIQ ENERGY SOLUTIONS	1	\$10,900.00
WTS	1	\$1,315.00
TOTAL	25	\$78,895.49