

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
2022-01-22	1,615.00 m	8.25 hr	323.00 m	23.07 m/hr	132.00 hr	661.00 hr	0.00 hr
MUD		RENTALS		COSTS			
MUD	CUM. MUD	RENTALS	CUM. RENTALS	DRILLING DAILY	DRILLING TOTAL	EVENT DAILY	EVENT TOTAL
\$19,413.00	\$37,407.25	\$9,091.50	\$40,682.50	\$63,574.50	\$545,127.80	\$63,574.50	\$628,487.80
DAILY OPERATIONS							
<b>MORNING OPERATIONS</b> No safety concerns or environmental issues to report. Continue to RIH f/ 872mKB - 1615mKB, (on bottom @ 02:30). Clean bridges @ 1030m,1366m. Condition mud & circulate hole clean, POOH f/ 177.8mm Csg. Currently @ 795mKB							
<b>DAILY OPERATIONAL SUMMARY</b> 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. Drill 159mm Build section f/ 1292mKB mKB - 1615mKB (Heel @ 14:30) Extrap. to Bit: 1615mKB, Inc: 85.4deg, Azm: 87.2deg, TVD: 1367.9m Circulate hole clean, back ream to KOP @ 1007mKB, Circ hole clean, POOH to surface csg shoe @ 271mKB. RIH to 872mKB. (Clean bridges @ 705m,810m,865m) Rotating ROP - 60m/Hr, Sliding ROP - 30m/Hr, (Sliding: 35%, Rotating: 65%) Vis- 76, Mud Wt - 1060Kg/m, Gamma - 75API, Gas - 165units. Drill into the top of Mannville formation @ 50.2deg Inc. Pump Tangent: 1431mKB - 1463mKB							
<b>DAILY FORECAST</b> Finish tripping out. Lay down directional assembly, rig in powertongs & eTorque, run 131Jts, 177.8mm, 34.2Kg/m, P110, Geoconn Casing, condition mud & circulate hole clean, rig in Trican & cement w/ 90%XS, rig out cementers, nipple down, cut & flare csg, install tubing hanger, nipple up & pressure test breaks.							
TIMELOG					WEATHER		
FROM	TO	DUR	NPT CODE	DETAILS	TIME	TEMP	CONDITIONS
00:00	04:00	4.0 h	2	Drill 222mm build section fr/ 1292m to 1420m	06:00	4 °C	OVERCAST
04:00	06:30	2.5 h	20A	Directional surveys , connections , worked pipe	WIND STRENGTH		ROAD CONDITION
06:30	06:45	0.25 h	21	crew hand over	CALM		VERY POOR
06:45	07:45	1.0 h	2	Drill 222mm build section fr/ 1420m to 1463m	PERSONNEL		
07:45	08:00	0.25 h	7	Rig Service/ function pipe rams 5 secs to close	DRILLING ENGINEER - <a href="#">On Site</a>		
08:00	11:00	3.0 h	20A	Directional surveys , connections , worked pipe	Derek Rae 403-701-0899		
11:00	14:30	3.5 h	2	Drill 222mm build section fr/ 1463m- 1615, Pump tangent 1431mKB- 1463mKB	DRILLING CONSULTANT - <a href="#">On Site</a>		
14:30	15:00	0.5 h	5D	Circulate hole clean	Mike Bowen 403-348-9127		
15:00	15:15	0.25 h	7	Rig Service f/t hcr 2 secs to open	DRILLING CONSULTANT - <a href="#">On Site</a>		
15:15	16:00	0.75 h	6M	Wiper Trip , back ream build section to 1479m	Darren Burton 780-518-7767		
16:00	18:30	2.5 h	6M	Wiper Trip , back ream build section to 1000m	DRILLING MANAGER - <a href="#">On Site</a>		
18:30	18:45	0.25 h	21	crew hand over	Nick Stanford 403-804-0296		
18:45	19:15	0.5 h	5D	Circulate hole clean	MUD ADDITIVES		
19:15	21:30	2.25 h	6M	Wiper Trip to shoe, flow check @ 266m, hole fill meas. 4.83m3, calc. 3.69m3, diff. + 1.14m3	PRODUCT	AMOUNT	UNIT
21:30	23:45	2.25 h	6A	Trip in hole, Clean Bridges @ 705m, 810m, 865m	CONTONE	35	sacks
23:45	00:00	0.25 h	7	Rig Service/ function HCR 3 secs to close	NANOBLOK	29	sacks
BOTTOM HOLE ASSEMBLY (LAST)					PRIMOSSU	29	sacks
#	DESCRIPTION	OD	ID	LENGTH	UNISEAL	29	sacks
1	BIT	311.0 mm	0.0 mm	0.28 m	HYPERDRILL 247	1	sacks
1	MUD MOTOR	175.0 mm	0.0 mm	8.88 m	UNIPAC HVD	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	BLOK	9	sacks
1	GAP SUB	163.0 mm	74.0 mm	1.66 m	ULTRA SEAL	6	sacks
1	FLEX NMDC	160.0 mm	72.0 mm	9.35 m	PRIMA-SEAL MEDIUM	6	sacks
1	JARS-HYD/MECH	165.0 mm	57.2 mm	4.8 m	POLYZAN	7	sacks
1	X/O	165.0 mm	0.71 mm	0.77 m	ENGINEERING	1	Chk
70	HWDP (4.5 DS40)	114.0 mm	72.0 mm	664.15 m	SILICATE	12	m3
BIT RECORDS					MUD RECORD		
#	SIZE (mm)	MANUFACTURER	TYPE	IN (m)	OUT (m)	HRS	
2	222.0	halliburton	GTD54RM	271.0	0.0	4.75 hr	TIME
2	222.0	halliburton	GTD54RM	271.0	0.0	3.50 hr	07:45
2	222.0	halliburton	GTD54RM	271.0	0.0	0.00 hr	DEPTH
TOTAL						8.25 hr	1,446.00 m
DRILLING PARAMETERS					DENSITY		
From Time	To Time	From Depth	To Depth	Activity	Rotary RPM	Weight on Bit	
00:00	07:30	1,292.0 m	1,463.0 m	DRILL	45	8.0 kdaN	1,060.00 kg/m³
07:45	14:15	1,463.0 m	1,615.0 m	DRILL	45	10.0 kdaN	VISCOSITY
DEVIATION SURVEYS					48.00 s/l	WATER LOSS	FLUID pH
WELLBORE	MD	TVD	DEVIATION	DIRECTION	METHOD		
Original Hole	1,285.75 m	1,255.98 m	44.90°	87.10°			6.00 ml/30
Original Hole	1,295.22 m	1,262.59 m	46.60°	87.10°			12
Original Hole	1,304.87 m	1,269.10 m	48.50°	87.40°			OIL
Original Hole	1,314.34 m	1,275.41 m	48.00°	87.00°			19
Original Hole	1,324.00 m	1,281.84 m	48.50°	87.10°			0%
					LOCATION SHAKERS		
					FUEL USE		
					FUEL	USAGE	
					Marked Diesel	3,852.0 L	
					PUMPS		

Original Hole	1,333.45 m	1,288.07 m	49.10°	87.00°
Original Hole	1,342.94 m	1,294.17 m	50.80°	86.80°
Original Hole	1,352.54 m	1,300.03 m	54.00°	86.60°
Original Hole	1,362.01 m	1,305.34 m	57.80°	86.90°
Original Hole	1,371.60 m	1,310.29 m	60.00°	87.30°
Original Hole	1,381.16 m	1,314.98 m	61.20°	88.20°
Original Hole	1,390.65 m	1,319.46 m	62.50°	88.00°
Original Hole	1,400.13 m	1,323.65 m	65.00°	88.10°
Original Hole	1,409.61 m	1,327.54 m	66.60°	87.60°
Original Hole	1,419.06 m	1,331.21 m	67.70°	88.00°
Original Hole	1,428.52 m	1,334.67 m	69.30°	88.20°
Original Hole	1,437.98 m	1,337.95 m	70.20°	87.50°
Original Hole	1,447.41 m	1,341.17 m	69.80°	87.70°
Original Hole	1,456.90 m	1,344.47 m	69.60°	87.40°
Original Hole	1,466.34 m	1,347.66 m	70.80°	88.10°
Original Hole	1,475.84 m	1,350.58 m	73.40°	87.30°
Original Hole	1,485.33 m	1,353.13 m	75.50°	87.40°
Original Hole	1,494.99 m	1,355.40 m	77.30°	87.80°
Original Hole	1,504.47 m	1,357.38 m	78.60°	87.60°
Original Hole	1,513.92 m	1,359.14 m	79.90°	88.20°
Original Hole	1,523.42 m	1,360.64 m	81.90°	88.70°
Original Hole	1,532.90 m	1,361.83 m	83.70°	88.80°
Original Hole	1,542.47 m	1,362.75 m	85.30°	89.00°
Original Hole	1,552.12 m	1,363.36 m	87.40°	88.60°
Original Hole	1,561.72 m	1,363.90 m	86.20°	87.90°
Original Hole	1,571.24 m	1,364.54 m	86.10°	87.70°
Original Hole	1,580.70 m	1,365.21 m	85.80°	87.40°
Original Hole	1,590.17 m	1,365.91 m	85.70°	87.50°
Original Hole	1,599.00 m	1,366.59 m	85.40°	87.20°

Pump #1		Pump #2	
Model	Work Force	Model	Work Force
	1300		1300
Duplex	TRIPLEX	Duplex	TRIPLEX
SPM	62	SPM	62
Pressure	12,000 kpa	Pressure	12,000 kpa
Hours Run	18.0 hr	Hours Run	18.0 hr
Liner Size	152.0 mm	Liner Size	152.0 mm

HOLE CONDITION				
DRAG UP	DRAG DN	TORQUE	FILL	DEPTH
7.0 kdaN	6.0 kdaN	6,500.0 Nm	0.0 m	-
8.0 kdaN	8.0 kdaN	6,500.0 Nm	0.0 m	-

SOLIDS CONTROL			
NAME	INTAKE	OVERFLOW	UNDERFLOW
CENTRIFUGE	1,060 kg/m³	1,040 kg/m³	1,690 kg/m³

DAILY COSTS		
VENDOR	#	TOTAL
BLACK DIAMOND	1	\$564.50
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
PHOENIX DIRECTIONAL SERVICES	1	\$6,250.00
PRECISION RENTALS	1	\$1,130.00
ROCKBUSTERS OILFIELD PERFORMANCE LTD	1	\$300.00
TALLMAN GEOLOGICAL	1	\$2,500.00
TANGO DELTA	1	\$252.00
TROJAN SAFETY	1	\$660.00
UNIQ ENERGY SOLUTIONS	1	\$19,413.00
WTS	1	\$1,315.00
<b>TOTAL</b>	<b>21</b>	<b>\$63,574.50</b>