

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
2022-01-25	2,770.00 m	12.00 hr	905.00 m	39.78 m/hr	132.00 hr	1,057.00 hr	0.00 hr
MUD		RENTALS	COSTS				
MUD	CUM. MUD	RENTALS	CUM. RENTALS	DRILLING DAILY	DRILLING TOTAL	EVENT DAILY	EVENT TOTAL
\$2,459.00	\$65,969.85	\$12,256.50	\$72,657.00	\$64,675.05	\$973,257.84	\$64,675.05	\$1,057,112.84
DAILY OPERATIONS							
MORNING OPERATIONS No safety concerns or environmental issues to report. Drill 159mm Lateral section f/ 2770mKB - 3015mKB Rotating ROP - 110m/Hr, Sliding ROP - 45m/Hr, Vis- 40, Mud Wt - 1100Kg/m, WL - 7, Gamma - 78API, Gas - 400units. Currently 0.28m below & 0.28m Left of line, Slid -11%, Rotate -89% Last survey @ 2991m, Inc: 90.7deg, Azm: 50deg, TVD: 1362.43m.							
DAILY OPERATIONAL SUMMARY Discussed with CVE Calgary Drilling Superintendent Derek Rae upcoming days operations of drilling 159mm main hole. The rig is running well with no safety or environmental issues to report. Drill 159mm Lateral section f/ 1865mKB - 2770mKB Rotating ROP - 120m/Hr, Sliding ROP - 45m/Hr, Vis- 39, Mud Wt - 1100Kg/m, WL - 8, Gamma - 78API, Gas - 263units. Engage agitator @ 2500mKB - (2000Kpa increase in pump pressure).							
DAILY FORECAST Drill ahead 159mm lateral section as per Phoenix Directional Plan # 5. Planned TD @ 4202mKB.							
TIMELOG					WEATHER		
FROM	TO	DUR	NPT CODE	DETAILS	TIME	TEMP	CONDITIONS
00:00	03:30	3.5 h	2	Drill 159mm lateral section from 1865m to 2005m	06:00	-5 °C	CLEAR
03:30	06:30	3.0 h	20A	Directional surveys, connections, work pipe	WIND STRENGTH		ROAD CONDITION
06:30	06:45	0.25 h	21	Crew change handover meeting	CALM		GOOD
06:45	07:45	1.0 h	2	Drill 159mm lateral section from 2005m to 2030m	PERSONNEL		
07:45	08:00	0.25 h	7	Rig Service/ function pipe rams 5 secs to close	DRILLING ENGINEER - On Site Derek Rae 403-701-0899		
08:00	12:45	4.75 h	2	Drill 159MM lateral section fr/ 2030m- 2463m	DRILLING CONSULTANT - On Site Mike Bowen 403-348-9127		
12:45	15:45	3.0 h	20A	Directional surveys , connections , worked pipe	DRILLING CONSULTANT - On Site Darren Burton 780-518-7767		
15:45	16:00	0.25 h	7	Rig Service f/t hcr 2 secs to open	DRILLING MANAGER - On Site Nick Stanford 403-804-0296		
16:00	17:30	1.5 h	2	Drill 159MM lateral section fr/ 2463m- 2556m , drop ball for agitator at 2500m , 2000kpa increase	MUD ADDITIVES		
17:30	18:30	1.0 h	20A	Directional surveys , connections , worked pipe	PRODUCT	AMOUNT	UNIT
18:30	18:45	0.25 h	21	crew hand over	UNIPAC HVD	2	sacks
18:45	20:45	2.0 h	2	Drill 159mm lateral section fr/ 2556m- 2770m	UNIPAC LVD	3	sacks
20:45	23:45	3.0 h	20A	Directional surveys, connections, work pipe	UNISTAR	6	sacks
23:45	00:00	0.25 h	7	Rig Service/ function annular 18 secs to close	GRAPHITE	28	sacks
					WALNUTS	8	sacks
					ENGINEERING	1	Chk
BOTTOM HOLE ASSEMBLY (LAST)					MUD RECORD		
#	DESCRIPTION	OD	ID	LENGTH	TIME	DEPTH	DENSITY
1	BIT	159.0 mm	0.0 mm	0.2 m	07:45	2,109.00 m	1,060.00 kg/m³
1	MUD MOTOR	176.0 mm	0.0 mm	8.38 m	VISCOSITY	WATER LOSS	FLUID pH
1	PONY SLICK COLLAR	160.0 mm	70.0 mm	2.88 m	36.00 s/l	5.00 ml/30	9
1	FLEX NMDC	160.0 mm	69.0 mm	9.33 m	PVT	SOLIDS	OIL
1	GAP SUB	163.0 mm	74.0 mm	1.7 m	28	-	-
1	FLEX NMDC	160.0 mm	69.0 mm	9.27 m	LOCATION		
1	X/O	165.0 mm	64.0 mm	1.18 m	shakers		
1	DP(4.5 DS40)	165.0 mm	97.2 mm	9.58 m	TIME	DEPTH	DENSITY
1	REAMER	165.0 mm	62.0 mm	4.07 m	23:30	2,767.00 m	1,110.00 kg/m³
6	DP(4.5 DS40)	165.0 mm	97.2 mm	56.87 m	VISCOSITY	WATER LOSS	FLUID pH
1	JARS-HYD	165.0 mm	0.71 mm	4.0 m	40.00 s/l	8.00 ml/30	8.5
66	DP(4.5 DS40)	165.0 mm	97.2 mm	627.55 m	PVT	SOLIDS	OIL
1	AGITATOR	165.0 mm	0.0 mm	5.48 m	25.9	-	-
214	DP(4.5 DS40)	165.0 mm	97.2 mm	2,036.46 m	LOCATION		
					SHAKERS		
BIT RECORDS					FUEL USE		
#	SIZE	MANUFACTURER	TYPE	IN	OUT	HRS	
	(mm)			(m)	(m)		
3	159.0 REED	TKC63-B1	1,615.0	0.0	3.75 hr		
3	159.0 REED	TKC63-B1	1,615.0	0.0	4.75 hr		
3	159.0 REED	TKC63-B1	1,615.0	0.0	3.50 hr		
TOTAL					12.00 hr		
DRILLING PARAMETERS							
From Time	To Time	From Depth	To Depth	Activity	Rotary RPM	Weight on Bit	
00:00	07:30	1,865.0 m	2,030.0 m	DRILL	45	8.0 kdaN	
08:00	15:45	2,030.0 m	2,463.0 m	DRILL	45	9.5 kdaN	
16:00	23:30	2,463.0 m	2,770.0 m	DRILL	45	9.5 kdaN	
DEVIATION SURVEYS							
WELLBORE	MD	TVD	DEVIATION	DIRECTION	METHOD		
Original Hole	1,868.18 m	1,366.32 m	90.70°	77.70°			
Original Hole	1,877.69 m	1,366.23 m	90.40°	76.10°			
Original Hole	1,887.16 m	1,366.15 m	90.50°	73.40°			
FUEL				USAGE			
Marked Diesel				5,427.0 L			
PUMPS							
Pump #1	Work Force	Pump #2	Work Force				
Model	1300	Model	1300				
Duplex	TRIPLEX	Duplex	TRIPLEX				
SPM	76	SPM	76				
Pressure	20,000 kpa	Pressure	20,000 kpa				
Hours Run	24.0 hr	Hours Run	24.0 hr				
Liner Size	114.0 mm	Liner Size	114.0 mm				

Original Hole	1,896.65 m	1,366.10 m	90.10°	71.70°
Original Hole	1,906.32 m	1,366.08 m	90.20°	69.40°
Original Hole	1,915.77 m	1,366.10 m	89.60°	67.50°
Original Hole	1,925.35 m	1,366.15 m	89.80°	65.60°
Original Hole	1,934.94 m	1,366.12 m	90.50°	63.90°
Original Hole	1,944.34 m	1,365.93 m	91.80°	62.00°
Original Hole	1,953.98 m	1,365.64 m	91.70°	60.00°
Original Hole	1,963.65 m	1,365.41 m	91.00°	57.90°
Original Hole	1,973.13 m	1,365.29 m	90.50°	56.60°
Original Hole	1,992.34 m	1,365.24 m	89.80°	54.00°
Original Hole	2,011.43 m	1,365.42 m	89.10°	53.90°
Original Hole	2,030.49 m	1,365.60 m	89.80°	52.20°
Original Hole	2,049.59 m	1,365.87 m	88.60°	50.90°
Original Hole	2,068.76 m	1,366.37 m	88.40°	50.00°
Original Hole	2,087.82 m	1,366.65 m	89.90°	50.20°
Original Hole	2,106.78 m	1,366.65 m	90.10°	49.50°
Original Hole	2,125.72 m	1,366.49 m	90.90°	51.20°
Original Hole	2,144.66 m	1,366.31 m	90.20°	51.20°
Original Hole	2,163.82 m	1,366.32 m	89.70°	50.68°
Original Hole	2,182.88 m	1,366.46 m	89.50°	50.80°
Original Hole	2,201.87 m	1,366.34 m	91.20°	50.20°
Original Hole	2,221.09 m	1,365.95 m	91.10°	49.90°
Original Hole	2,240.14 m	1,365.65 m	90.70°	50.50°
Original Hole	2,259.13 m	1,365.51 m	90.20°	50.40°
Original Hole	2,278.18 m	1,365.47 m	90.00°	50.20°
Original Hole	2,297.15 m	1,365.44 m	90.20°	50.20°
Original Hole	2,316.22 m	1,365.39 m	90.10°	49.60°
Original Hole	2,335.11 m	1,365.34 m	90.20°	49.30°
Original Hole	2,354.15 m	1,365.17 m	90.80°	48.60°
Original Hole	2,373.12 m	1,365.01 m	90.20°	49.30°
Original Hole	2,392.01 m	1,364.84 m	90.80°	49.20°
Original Hole	2,411.06 m	1,364.51 m	91.20°	49.30°
Original Hole	2,430.03 m	1,364.28 m	90.20°	49.90°
Original Hole	2,449.13 m	1,364.23 m	90.10°	51.20°
Original Hole	2,467.98 m	1,364.43 m	88.70°	50.80°
Original Hole	2,487.10 m	1,364.88 m	88.60°	50.60°
Original Hole	2,506.21 m	1,365.13 m	89.90°	50.70°
Original Hole	2,525.18 m	1,365.24 m	89.40°	50.80°
Original Hole	2,544.19 m	1,365.54 m	88.80°	51.00°
Original Hole	2,563.14 m	1,365.77 m	89.80°	49.80°
Original Hole	2,582.26 m	1,365.76 m	90.30°	49.00°
Original Hole	2,601.41 m	1,365.67 m	90.20°	49.60°
Original Hole	2,620.51 m	1,365.66 m	89.90°	50.00°
Original Hole	2,639.57 m	1,365.69 m	89.90°	49.00°
Original Hole	2,658.70 m	1,365.62 m	90.50°	47.80°
Original Hole	2,677.63 m	1,365.36 m	91.10°	48.10°
Original Hole	2,696.54 m	1,364.98 m	91.20°	48.70°
Original Hole	2,715.60 m	1,364.78 m	90.00°	47.90°
Original Hole	2,734.54 m	1,364.75 m	90.20°	48.40°
Original Hole	2,753.47 m	1,364.75 m	89.80°	48.50°

HOLE CONDITION				
DRAG UP	DRAG DN	TORQUE	FILL	DEPTH
6.0 kdaN	18.0 kdaN	10,000.0 Nm	0.0 m	-
7.0 kdaN	20.0 kdaN	85.0 Nm	0.0 m	-
10.0 kdaN	25.0 kdaN	10,000.0 Nm	0.0 m	-

SOLIDS CONTROL			
NAME	INTAKE	OVERFLOW	UNDERFLOW
CENTRIFUGE	1,080 kg/m³	1,060 kg/m³	1,890 kg/m³
centrifuge	1,060 kg/m³	1,030 kg/m³	1,900 kg/m³

DAILY COSTS		
VENDOR	#	TOTAL
ARRIVAL	1	\$395.00
BLACK DIAMOND	1	\$464.50
CODECO-VANOCO	1	\$3,000.00
GFL	1	\$45.00
GREAT NORTH WELLHEAD & FRAC	2	\$9,321.67
HORIZON DRILLING	4	\$22,745.00
IMPULSE DOWN HOLE TOOLS	1	\$3,000.00
LIQUIDS TRANSLOADING LTD.	3	\$3,400.00
MOOSE DOKTOR	1	\$70.00
PASON	1	\$1,800.00
PHOENIX DIRECTIONAL SERVICES	1	\$6,575.00
PRECISION RENTALS	1	\$1,130.00
ROCKBUSTERS OILFIELD PERFORMANCE LTD	2	\$2,780.00
TALLMAN GEOLOGICAL	1	\$2,500.00
TANGO DELTA	1	\$252.00
TROJAN SAFETY	1	\$660.00
UNIQ ENERGY SOLUTIONS	1	\$2,459.00
WINALTA TRANSPORT	1	\$2,762.88
WTS	1	\$1,315.00
TOTAL	26	\$64,675.05