

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	
2022-01-26	3,651.00 m	10.75 hr	881.00 m	38.73 m/hr	132.00 hr	1,189.00 hr	0.00 hr	
MUD		RENTALS		COSTS				
MUD	CUM. MUD	RENTALS	CUM. RENTALS	DRILLING DAILY	DRILLING TOTAL	EVENT DAILY	EVENT TOTAL	
\$7,494.00	\$75,183.85	\$11,781.50	\$80,638.50	\$64,284.57	\$1,035,462.41	\$64,284.57	\$1,119,317.41	
DAILY OPERATIONS								
<b>MORNING OPERATIONS</b> No safety concerns or environmental issues to report. Drill 159mm Lateral section f/ 3651mKB - 3880mKB Rotating ROP - 100m/Hr, Sliding ROP -30m/Hr, Vis- 39, Mud Wt - 1080Kg/m, Gamma - 65API, Gas - 826units. Currently 0.35m Above & 1.1m Left of line, Sliding -5.5%, Rotate -94.5% Last survey @ 3865m, Inc: 89deg, Azm: 49deg, TVD: 1358.49m.								
<b>DAILY OPERATIONAL SUMMARY</b> 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/ 2770mKB - 3651mKB Rotating ROP - 110m/Hr, Sliding ROP - 35m/Hr, Vis- 39, Mud Wt - 1080Kg/m, Gamma - 71API, Gas - 585units.								
<b>DAILY FORECAST</b> Drill ahead 159mm lateral section as per Phoenix Directional Plan # 5 to planned TD @ 4202mKB. Condition mud & circulate hole clean, wiper trip to intermediate csg shoe, RIH, ream & clean any tight spots & doglegs 4deg & greater.								
TIMELOG					WEATHER			
FROM	TO	DUR	NPT CODE	DETAILS	TIME	TEMP	CONDITIONS	
00:00	03:00	3.0 h	2	Drill 159mm lateral section from 2770m to 3030m	06:00	0 °C	OVERCAST	
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	CALM		GOOD	
06:45	07:45	1.0 h	2	Drill 159mm lateral section from 3030m 3050m	PERSONNEL			
07:45	08:00	0.25 h	7	Rig Service/ function pipe rams 5 secs to close	DRILLING ENGINEER - On Site			
08:00	11:15	3.25 h	2	Drill 159MM lateral section fr/ 3050M- 3384M	Derek Rae 403-701-0899			
11:15	15:45	4.5 h	20A	Directional surveys , connections , worked pipe	DRILLING CONSULTANT - On Site			
15:45	16:00	0.25 h	7	Rig Service f/t hcr 2 secs to open	Mike Bowen 403-348-9127			
16:00	17:30	1.5 h	2	Drill 159mm lateral section fr/ 3384m- 3498m	DRILLING CONSULTANT - On Site			
17:30	18:30	1.0 h	20A	Directional surveys , connections , worked pipe	Darren Burton 780-518-7767			
18:30	18:45	0.25 h	21	crew hand over	DRILLING MANAGER - On Site			
18:45	20:45	2.0 h	2	Drill 159mm lateral section fr/ 3498m- 3651m	Nick Stanford 403-804-0296			
20:45	23:45	3.0 h	20A	Directional surveys, connections, work pipe	MUD ADDITIVES			
23:45	00:00	0.25 h	7	Rig Service/ Function Annular 18 secs to close	PRODUCT	AMOUNT	UNIT	
					UNIPAC HVD	2	sacks	
					UNIPAC LVD	7	sacks	
					UNISTAR	7	sacks	
					WALNUTS	33	sacks	
					GRAPHITE	55	sacks	
					HUMALITE	20	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	06:00	3,032.00 m	1,100.00 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	42.00 s/l	7.50 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	29	-	-	
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	23:00	3,631.00 m	1,080.00 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	37.00 s/l	15.00 ml/30	7	
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	32	0%	0%	
224	DP( 4.5 DS40 )	165.0 mm	97.2 mm	2,131.68 m	LOCATION			
70	HWDP (4.5 DS40)	165.0 mm	68.0 mm	664.13 m	SHAKERS			
BIT RECORDS					FUEL USE			
#	SIZE (mm)	MANUFACTURER	TYPE	IN (m)	OUT (m)	HRS	FUEL	
3	159.0 REED	TKC63-B1		1,615.0	0.0	4.00 hr	USAGE	
3	159.0 REED	TKC63-B1		1,615.0	0.0	3.25 hr	Marked Diesel	5,698.0 L
3	159.0 REED	TKC63-B1		1,615.0	0.0	3.50 hr	PUMPS	
TOTAL						10.75 hr	Pump #1	Pump #2
							Model	Work Force
							1300	1300
							Duplex	TRIPLEX
							SPM	SPM
							70	70
							Pressure	Pressure
							21,500 kpa	21,500 kpa
							Hours Run	Hours Run
							24.0 hr	24.0 hr
DRILLING PARAMETERS								
From Time	To Time	From Depth	To Depth	Activity	Rotary RPM	Weight on Bit		
00:00	07:30	2,770.0 m	3,050.0 m	DRILL	45	9.5 kdaN		
08:00	15:45	3,050.0 m	3,384.0 m	DRILL	45	9.5 kdaN		
16:00	23:30	3,384.0 m	3,651.0 m	DRILL	45	9.0 kdaN		
DEVIATION SURVEYS								
WELLBORE	MD	TVD	DEVIATION	DIRECTION	METHOD			
Original Hole	2,772.44 m	1,364.66 m	90.70°	48.40°				
Original Hole	2,791.58 m	1,364.46 m	90.50°	48.50°				
Original Hole	2,810.66 m	1,364.23 m	90.90°	48.60°				

Original Hole	2,829.75 m	1,364.05 m	90.20°	48.50°	Liner Size	114.0 mm	Liner Size	114.0 mm
Original Hole	2,848.70 m	1,363.90 m	90.70°	49.20°	HOLE CONDITION			
Original Hole	2,858.17 m	1,363.85 m	89.90°	49.00°	DRAG UP	DRAG DN	TORQUE	FILL
Original Hole	2,877.02 m	1,363.68 m	91.10°	50.00°	10.0 kdaN	25.0 kdaN	10,000.0 Nm	0.0 m
Original Hole	2,895.88 m	1,363.32 m	91.10°	50.30°	33.0 kdaN	37.0 kdaN	13,500.0 Nm	0.0 m
Original Hole	2,914.76 m	1,363.06 m	90.50°	49.90°	40.0 kdaN	30.0 kdaN	15,000.0 Nm	0.0 m
Original Hole	2,933.88 m	1,362.91 m	90.40°	49.70°	SOLIDS CONTROL			
Original Hole	2,952.80 m	1,362.83 m	90.10°	49.60°	NAME	INTAKE	OVERFLOW	UNDERFLOW
Original Hole	2,971.78 m	1,362.68 m	90.80°	49.50°	CENTRIFUGE	1,080 kg/m³	1,065 kg/m³	1,900 kg/m³
Original Hole	2,990.82 m	1,362.43 m	90.70°	50.00°				
Original Hole	3,009.79 m	1,362.29 m	90.10°	50.20°				
Original Hole	3,028.75 m	1,362.33 m	89.70°	50.10°				
Original Hole	3,047.71 m	1,362.48 m	89.40°	50.40°				
Original Hole	3,066.65 m	1,362.66 m	89.50°	51.30°				
Original Hole	3,085.61 m	1,362.92 m	88.90°	50.90°				
Original Hole	3,104.61 m	1,363.29 m	88.90°	49.90°				
Original Hole	3,123.54 m	1,363.44 m	90.20°	50.10°				
Original Hole	3,142.54 m	1,363.29 m	90.70°	50.30°				
Original Hole	3,161.57 m	1,363.10 m	90.40°	50.20°				
Original Hole	3,180.56 m	1,362.99 m	90.30°	50.40°				
Original Hole	3,199.67 m	1,363.04 m	89.40°	50.10°				
Original Hole	3,218.55 m	1,363.34 m	88.80°	49.50°				
Original Hole	3,237.47 m	1,363.53 m	90.00°	48.80°				
Original Hole	3,256.45 m	1,363.37 m	91.00°	48.60°				
Original Hole	3,275.45 m	1,363.09 m	90.70°	48.40°				
Original Hole	3,294.39 m	1,362.99 m	89.90°	48.50°				
Original Hole	3,313.56 m	1,362.90 m	90.60°	47.90°				
Original Hole	3,332.55 m	1,362.51 m	91.80°	47.90°				
Original Hole	3,351.53 m	1,361.88 m	92.00°	48.90°				
Original Hole	3,370.46 m	1,361.33 m	91.30°	49.00°				
Original Hole	3,389.36 m	1,361.02 m	90.60°	49.10°				
Original Hole	3,408.38 m	1,360.90 m	90.10°	49.20°				
Original Hole	3,427.28 m	1,360.95 m	89.60°	49.30°				
Original Hole	3,446.26 m	1,360.88 m	90.80°	49.40°				
Original Hole	3,465.20 m	1,360.57 m	91.10°	49.50°				
Original Hole	3,484.13 m	1,360.31 m	90.50°	49.30°				
Original Hole	3,503.31 m	1,360.36 m	89.20°	47.70°				
Original Hole	3,522.30 m	1,360.65 m	89.00°	46.20°				
Original Hole	3,541.25 m	1,360.74 m	90.50°	47.10°				
Original Hole	3,560.51 m	1,360.79 m	89.20°	46.90°				
Original Hole	3,579.79 m	1,360.80 m	90.70°	48.10°				
Original Hole	3,598.97 m	1,360.45 m	91.40°	49.10°				
Original Hole	3,617.99 m	1,360.09 m	90.80°	49.40°				
Original Hole	3,637.17 m	1,359.67 m	91.70°	50.10°				
DAILY COSTS								
VENDOR		#		TOTAL				
ARRIVAL		1		\$395.00				
BLACK DIAMOND		1		\$464.50				
CARTEL ENERGY SERVICES LTD		1		\$1,950.00				
CODECO-VANOCO		1		\$3,000.00				
FORCE INSPECTION SERVICES		1		\$385.00				
GFL		1		\$45.00				
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				
OCULUS TRANSPORT LTD		1		\$6,679.07				
PASON		1		\$1,800.00				
PHOENIX DIRECTIONAL SERVICES		1		\$6,575.00				
PRECISION RENTALS		1		\$1,130.00				
ROCKBUSTERS OILFIELD PERFORMANCE LTD		1		\$300.00				
SKS LOGISTICS LTD		1		\$600.00				
TALLMAN GOELOGICAL		1		\$2,500.00				
TANGO DELTA		1		\$252.00				
TROJAN SAFETY		1		\$660.00				
UNIQ ENERGY SOLUTIONS		1		\$7,494.00				
WTS		1		\$840.00				
<b>TOTAL</b>		<b>26</b>		<b>\$64,284.57</b>				