

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
2022-01-20	300.00 m	0.50 hr	29.00 m	58.00 m/hr	132.00 hr	397.00 hr	0.00 hr
MUD		RENTALS		COSTS			
MUD	CUM. MUD	RENTALS	CUM. RENTALS	DRILLING DAILY	DRILLING TOTAL	EVENT DAILY	EVENT TOTAL
\$1,139.75	\$2,094.25	\$10,986.50	\$24,394.50	\$139,447.14	\$407,742.81	\$139,447.14	\$491,102.81
DAILY OPERATIONS							
MORNING OPERATIONS No safety concerns or environmental issues to report. Drill 159mm Vertical section f/ 300mKB mKB - 630mKB Rotating ROP - 150m/Hr, Sliding ROP - 60m/Hr, Silicate content @ 12% Vis- 28, Mud Wt - 1030Kg/m, Gamma - 87API, Gas - 144units. Currently 2m North & 0.5m East.							
DAILY OPERATIONAL SUMMARY Continue to back ream out of hole, Lay down DCs & Directional Assembly. Rig in powertongs & run 24Jts, 244.5mm, 53.7Kg/m, J55 Casing. On bottom @ 06:15. Condition mud & circ hole clean, Rig in Trican & cement casing, Pump 3m3 water, pressure test lines. Pump 15t (14.09m3)(80% XS) of TSC 1700-S Bulk Cement (1700kg/m3) with 0.4% TLA, 0.4% AFA-7, 2% Calcium Chloride. Drop plug & displace with 10.43m3 of fresh water ,bump plug 5Mpa over circulation pressure, hold for 5 min., bleed off & check floats pressure test the casing to 1.4MPa low & 14MPa high for 11min each. Plug down @ 07:24, (4.5m3 good cement returns). WOC, Cut conductor & Csg, weld on bowl, nipple up & pressure test well control equipment, clean tanks,wax rig & mud tanks. Make up directional assembly w/ 222mm Halliburton GTD54RM on 2.12deg FXD 7/8Lobe, 5 Stage motor, RIH, drill out float & shoe @ 23:25. Drill ahead 222mm vertical section F/ 271mKB - 300mKB Discussed with CVE Calgary Drilling Superintendent Derek Rae upcoming days operations of running csg, cementing, nipple up, pressure testing & handling BHA. The rig is running well with no safety or environmental issues to report. Planned KOP @ 1013mKB, Planned pump tangent @ 1433mKB - 1463mKB, Planned Heel @ 1575mKB, Planned TD 4204mKB.							
DAILY FORECAST Drill ahead 159mm vertical/build section as per Phoenix Directional Plan # 4							
TIMELOG					WEATHER		
FROM TO	DUR	NPT	CODE	DETAILS	TIME	TEMP	CONDITIONS
00:00 02:00	2.0 h	3B		Back ream to tools	06:00	-10 °C	OVERCAST
02:00 02:15	0.25 h	21		Safety meeting with directional	WIND STRENGTH		ROAD CONDITION
02:15 03:15	1.0 h	20		lay out directional tools	CALM		VERY POOR
03:15 04:00	0.75 h	12A		Rig up to run casing	PERSONNEL		
04:00 04:15	0.25 h	21		Safety meeting with tonghand	DRILLING ENGINEER - On Site		
04:15 06:00	1.75 h	12B		Run 24 joints of 244.5mm 53.57kg/m J55 LT/C casing to 271mKB.	Derek Rae 403-701-0899		
06:00 06:30	0.5 h	5		Condition mud & circulate	DRILLING CONSULTANT - On Site		
06:30 06:45	0.25 h	21		crew change & Trican safety meeting	Mike Bowen 403-348-9127		
06:45 07:15	0.5 h	12		rig in cementers	DRILLING CONSULTANT - On Site		
07:15 08:00	0.75 h	12C		Pump 1m3 water. Stop & P/T lines to 19mpa. Pump 2m3 dyed water,14.08m3 (15 tonne)TSC 1700-S bulk cement with 0.4%AFA-7,0.4%TLA, 2%CaCl2. Drop plug & displace with 10.44m3 fresh water. 4.5m3 good cement returns. Plug down @ 07:24am.	Darren Burton 780-518-7767		
08:00 09:00	1.0 h	12C		Cementing,flush conductor, rig out cementers	DRILLING MANAGER - On Site		
09:00 10:15	1.25 h	14C		prepare to cut conductor	Nick Stanford 403-804-0296		
10:15 12:30	2.25 h	25		cut conductor and casing, clean cut on casing weld on bowl	MUD ADDITIVES		
12:30 14:30	2.0 h	14B		Nipple down BOPs	PRODUCT		
14:30 14:45	0.25 h	21		Safety meeting with pressure tester	POTASSIUM CARBONATE	7	AMOUNT
14:45 16:00	1.25 h	15A		Pressure test kill line ,, manual valve , manifold valves @ 14000kpa	ENGINEERING	1	UNIT
16:00 18:30	2.5 h	15A		Pressure test BOPs annular , pipe rams , blind rams, hcr @ 14000kpa	sacks		
18:30 18:45	0.25 h	21		crew hand over	Chk		
18:45 19:00	0.25 h	15B		Function test BOPs start press. 19000kpa, annular 17 secs to close , 7800kpa loss press. / pipe rams 5 secs to close , 2100kpa loss press. / hcr 2 secs to open , 100kpa loss press. / remaining press. 9200kpa, time to recharge 1min, 59secs, f/t motor kills ,pre-charge =6800kpa, N2 bottles #1=2400 2400psi, #2=2400psi,#3=2500psi,#4=2400psi	PUMPS		
19:00 19:15	0.25 h	21		Safety meeting with directional	Pump #1	Work Force	Pump #2
19:15 21:00	1.75 h	20		Make up directional tools	Model	1300	Model
21:00 22:00	1.0 h	6A		Trip in hole	Duplex	1300	Duplex
22:00 22:30	0.5 h	21A		BOP drill with rig crew, companyman and rig manager	TRIPLEX	54	TRIPLEX
22:30 23:30	1.0 h	2C		Drill cement/drill out cement/drill float&shoe	SPM	54	SPM
23:30 00:00	0.5 h	2		Drill 222mm hole from 271m to 300m	Pressure	6,000 kpa	Pressure
BOTTOM HOLE ASSEMBLY (LAST)					Hours Run	5.0 hr	Hours Run
#	DESCRIPTION	OD	ID	LENGTH	Liner Size	152.0 mm	Liner Size
1	BIT	311.0 mm	0.0 mm	0.28 m	HOLE CONDITION		
1	MUD MOTOR	175.0 mm	0.0 mm	8.88 m	DRAG UP	DRAG DN	TORQUE
1	PONY SLICK COLLAR	160.0 mm	71.0 mm	4.09 m	1.0 kdaN	1.0 kdaN	4,000.0 Nm
1	FLEX NMDC	160.0 mm	72.0 mm	9.18 m	FILL		
1	GAP SUB	163.0 mm	74.0 mm	1.66 m	DEPTH		
1	FLEX NMDC	160.0 mm	72.0 mm	9.35 m	-		
1	JARS-HYD/MECH	165.0 mm	57.2 mm	4.8 m			
1	X/O	165.0 mm	0.71 mm	0.77 m			
27	HWDP (4.5 DS40)	114.0 mm	72.0 mm	255.94 m			

BIT RECORDS						
#	SIZE (mm)	MANUFACTURER	TYPE	IN (m)	OUT (m)	HRS
2	222.0	halliburton	GTD54RM	271.0	0.0	0.50 hr
TOTAL						0.50 hr
DRILLING PARAMETERS						
From Time	To Time	From Depth	To Depth	Activity	Rotary RPM	Weight on Bit
23:30	00:00	271.0 m	300.0 m	DRILL	20	7.0 kdaN
DAILY COSTS						
VENDOR				#	TOTAL	
ARRIVAL				1	\$395.00	
BLACK DIAMOND				1	\$564.50	
BULLDOG				1	\$130.00	
CARTEL ENERGY SERVICES LTD				1	\$7,800.00	
CODECO-VANOCO				1	\$3,000.00	
D.LESLIE WELDING				1	\$2,530.00	
DEREK CASING				1	\$2,375.00	
DIRECT CASING ACCESSORIES				1	\$1,370.95	
FLEX TANK & VAC				1	\$2,185.00	
GFL				1	\$45.00	
HALLIBURTON DRILL BITS & SERVICE				1	\$13,500.00	
HORIZON DRILLING				4	\$22,060.00	
IMPULSE DOWN HOLE TOOLS				1	\$1,500.00	
LIQUIDS TRANSLOADING LTD.				3	\$3,400.00	
MOOSE DOKTOR				1	\$70.00	
PASON				1	\$1,800.00	
PHOENIX DIRECTIONAL SERVICES				1	\$11,680.00	
PRECISION RENTALS				1	\$1,130.00	
ROCKBUSTERS OILFIELD PERFORMANCE LTD				2	\$1,460.00	
SEMERRA				1	\$3,633.00	
TALLMAN GEOLOGICAL				1	\$2,000.00	
TANGO DELTA				1	\$252.00	
TRICAN WELL SERVICES				1	\$14,898.94	
TRIMARK TUBULARS				1	\$38,553.00	
TROJAN SAFETY				1	\$660.00	
UNIQ ENERGY SOLUTIONS				1	\$1,139.75	
WTS				1	\$1,315.00	
TOTAL				33	\$139,447.14	