



Drilling Daily Report - 2022-01-23 - Day 7
BLACKSPUR HZ LEDUC-WB 16-11-51-2 • 100/16-11-051-02W5/00 • #0502001

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
2022-01-23	1,615.00 m	0.00 hr	0.00 m	0.00 m/hr	132.00 hr	793.00 hr	0.00 hr
MUD		RENTALS		COSTS			
MUD	CUM. MUD	RENTALS	CUM. RENTALS	DRILLING DAILY	DRILLING TOTAL	EVENT DAILY	EVENT TOTAL
\$1,536.60	\$52,431.85	\$9,091.50	\$49,774.00	\$75,694.60	\$634,310.40	\$75,694.60	\$717,670.40
DAILY OPERATIONS							
MORNING OPERATIONS							
No safety concerns or environmental issues to report. Held safety meeting w/ cements, Cement w/ Trican. Pump 1m3 Optimum Flush, Pressure test to 36MPa, Pump 2m3 Optimum Flush at 1160kg/m3 containing 5Kg/m3 Optimum Flush + 36L/m3 MW-2W Mud Wash. Pump 3m3 (1.42t) Scavenger, Titanium 1400-S @ 1300Kg/m3 with 2% OGC-60 + 4% AFA-7. Pump 23.2m3 (14.57t) lead cement Titanium 1400-S @ 1400Kg/m3 with 2% OGC-60 + 4% AFA-7. Pump 17.04m3 tail cement at 1600 kg/m3 (16t) T.A.C.-S with 0.2% AFA-7 + 0.4% TWR-4 + 0.5% Gel + 0.2% TDH-2 + 0.2% CFR-12. Drop plug. Displace w/ 32.86m3 fresh water, Bump plug @ 5 MPa over circulating pressure and hold for 5 minutes. Bleed back & check floats, floats held with 200L back. 9m3 good cement returns to surface. Plug down @ 01:45. Pressure test the casing to 1.4MPa low & 14MPa high for 11min each. Flush BOP, Nipple down & lift stack, install slips & seal, set slips @ 40DaN, cut casing, lay out spools, install Tubing Head & X/O spool, nipple up.							
DAILY OPERATIONAL SUMMARY							
Discussed with CVE Calgary Drilling Superintendent Derek Rae upcoming days operations of Tripping handling BHA & running casing. The rig is running well with no safety 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. lay down directional assembly. Rig in powertongs & eTorque & run 131Jts, 177.8mm, 34.2Kg/m, P110, Geoconn Casing, circulate bottoms up @ 996mKB, run in casing to 1320mKB, Circulate casing in f/ 1320mKB - 1615mKB (on bottom @ 22:15), Condition mud & circulate hole clean.							
DAILY FORECAST							
Finish nipple up, Pressure test breaks, install wear bushing, pick up directional assembly w/ 159mm Reed TKC63-B1, on 6/7 Lobe, 6.4Stg Adj motor set @ 1.83deg, MWD Tool, Typhoon reamer and ball drop agitator 700 meters above the BHA. RIH, Slip & Cut drillline, drill out float & shoe, drill ahead 159mm lateral section as per Phoenix directional plan # 5							
TIMELOG					WEATHER		
FROM	TO	DUR	NPT CODE	DETAILS	TIME	TEMP	CONDITIONS
00:00	02:15	2.25 h	6A	Trip in hole, ream @ 1026m, 1365m, and wash down from 1510m to 1615m	06:00	3 °C	OVERCAST
02:15	03:30	1.25 h	5	Circulate hole clean	WIND STRENGTH		ROAD CONDITION
03:30	06:30	3.0 h	6B	Trip out of hole, flow check @ 1366m, 796m	CALM		VERY POOR
06:30	06:45	0.25 h	21	crew change handover meeting	PERSONNEL		
06:45	08:00	1.25 h	6B	continue to trip out of hole	DRILLING ENGINEER - On Site		
08:00	08:15	0.25 h	6B	Trip out of hole flow check @ 40m, 0m , trip record calc.=6.29m3, meas.=8.01m3, diff.= 1.72m3	Derek Rae 403-701-0899		
08:15	08:30	0.25 h	21	Safety meeting with dir. hands	DRILLING CONSULTANT - On Site		
08:30	09:30	1.0 h	20	Directional work , l/d dir. tools	Mike Bowen 403-348-9127		
09:30	10:15	0.75 h	12A	Rig up/clean floor to run casing	DRILLING CONSULTANT - On Site		
10:15	10:30	0.25 h	21	Safety meeting with power tong operator	Darren Burton 780-518-7767		
10:30	16:00	5.5 h	12B	Run casing to 996m	DRILLING MANAGER - On Site		
16:00	16:15	0.25 h	5D	Circulate bottoms up	Nick Stanford 403-804-0296		
16:15	18:30	2.25 h	12B	Run casing to 1320m	MUD ADDITIVES		
18:30	18:45	0.25 h	21	crew hand over, safety meeting with tong hand	PRODUCT	AMOUNT	UNIT
18:45	22:15	3.5 h	12B	Run casing, wash in from 1320m to 1615m	BARITE	42	sacks
22:15	00:00	1.75 h	5	Condition mud & circulate	ENGINEERING	1	Chk
BOTTOM HOLE ASSEMBLY (LAST)					MUD RECORD		
#	DESCRIPTION	OD	ID	LENGTH	TIME	DEPTH	DENSITY
1	BIT	311.0 mm	0.0 mm	0.28 m	03:00	1,615.00 m	1,060.00 kg/m³
1	MUD MOTOR	175.0 mm	0.0 mm	8.88 m	VISCOSITY	WATER LOSS	FLUID pH
1	PONY SLICK COLLAR	160.0 mm	71.0 mm	4.09 m	78.00 s/l	6.00 ml/30	12
1	FLEX NMDC	160.0 mm	72.0 mm	9.18 m	PVT	SOLIDS	OIL
1	GAP SUB	163.0 mm	74.0 mm	1.66 m	25.6	-	-
1	FLEX NMDC	160.0 mm	72.0 mm	9.35 m	LOCATION		
1	JARS-HYD/MECH	165.0 mm	57.2 mm	4.8 m	shakers		
1	X/O	165.0 mm	0.71 mm	0.77 m	FUEL USE		
70	HWDP (4.5 DS40)	114.0 mm	72.0 mm	664.15 m	FUEL	USAGE	
BIT RECORDS					Marked Diesel 4,004.0 L		
#	SIZE (mm)	MANUFACTURER	TYPE	IN (m)	OUT (m)	HRS	PUMPS
2	222.0	halliburton	GTD54RM	271.0	0.0	0.00 hr	Pump #1 Model Work Force Pump #2 Model Work Force
2	222.0	halliburton	GTD54RM	271.0	1,615.0	0.00 hr	Duplex 1300 Duplex 1300
TOTAL							SPM 62 SPM 120
DAILY COSTS							Pressure 4,000 kpa Pressure 4,000 kpa
VENDOR				#	TOTAL		
BLACK DIAMOND				1	\$564.50		
BULLDOG				1	\$130.00		
CODECO-VANOCO				1	\$3,000.00		
DEREK CASING				1	\$13,067.50		
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	\$16,929.00		
PHOENIX DIRECTIONAL SERVICES				1	\$6,250.00		
							Liner Size 152.0 mm Liner Size 114.0 mm



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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	\$1,536.60
WTS	1	\$1,315.00
TOTAL	23	\$75,694.60