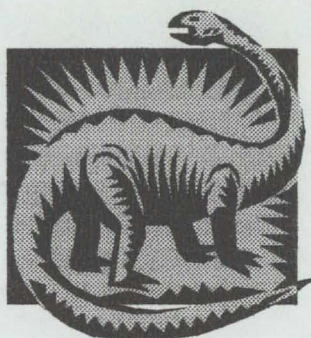


Geological Report
NEB

PARAMOUNT ET AL NETLA
M-23



HIGHWOOD WELLSITE SERVICES INC.

GEOLOGIST: JEFF BOULTER

41 RIVERVIEW CIRCLE

COCHRANE ALBERTA

JANUARYY 15 1999

MICROFILMED
SUR MICROFILM:

PARAMOUNT ET AL NETLA

M-23

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WELL HISTORY STRIPLOG:

Back Pocket

DRILLING SUMMARY

WELL NAME: Paramount et al Netla M-23 **LOCATION:** M-23 60 Deg 50' 123Deg 00'
ELEVATION: Grd.: 273.1 m **KB:** 278.25 m **Final Total Depth:** 2280.0 m
SURFACE CO-ORDINATES: Lat: 60 42' 58.402" Long: 123 05' 12.126"
SPUD DATE: December 17, @ 01:15 hrs. **WELL STATUS:** gas well
CONTRACTOR: Precision Drilling Corporation **RIG No:** 379

HOLE DATA:

SURFACE	444.5 mm.	To	499.0 m.	No. of Bits Used: -
INTERMEDIATE	222.0 mm.	To	1889.0 m.	No. of Bits Used: 4
MAIN	156 mm	To	2280.0 m	No. of Bits Used: 3

CASING DATA:

SURFACE: 339.7 mm. OD Wt.: 81.18 kg/m K-55 Landed @ 499.0 m KB
CEMENTED WITH: 68.0 tonnes of Class "G" cement + 1.5 % CaCl₂
INTERMEDIATE: 177.8 mm OD Wt.: 34.22 kg/m 8 LTC L-80 Landed @ 1889.0 m KB
CEMENTED: 15.0 tonnes of 1-1-2 Class "G" & 24.0 tonnes 0-1-0 Class G

GEOLOGICAL MARKERS

KB Elev.: 278.25 m.

FORMATION	PROGNOSIS	SAMPLE	LOG md	SUBSEA
Scatter	117.5	n/a	117.5	162.3
Garbutt	143.0	n/a	143.0	136.8
Banff	245.0	n/a	245.0	34.8
Exshaw	487.0	n/a	487.0	-207.2
Kotcho	499.5	502.0	-	-
Tetcho	876.5	867.0	866.5	-588.25
Kakisa	968.5	1030.0	1027.0	-748.75
Ft. Simpson	1048.5	1057.0	1061.5	-783.25
Muskwa	1904.5	1790.0	1792.0	-1513.75
Devonian	1995.5	1878.0	1878.0	-1599.75
Headless	2108.5	1972.0	1968.0	-1689.75
Landry	2132.5	2002.0	1999.0	-1720.75
Arnica	2190.5	2074.0	2122.0	-1843.75
Total Depth	2327.5	2280.0	2277.3	-1999.05

LOGGING SUMMARY

LOG TYPE	INTERVAL	SCALE
Sonic/GR	499.0 - 2277.3	1: 600, 1: 240
GR/DENSITY/NEUTRON	499.0 - 2280.0	1: 600, 1: 240
HDIL/GR	499.0 - 2280.0	1: 600, 1: 240
CBIL/HEXDIP LOG	1889.0 - 2273.0	1: 600, 1: 240

Logging Services By: BAKER ATLAS

DRILLING HISTORY

DATE	SAM DEPTH	MUD PROPERTIES				OPERATIONS CONDUCTED
		WT.	VIS.	W.L	pH	
Dec 14	499	-	-	-	-	Spot rig and rig up
Dec 15	499	-	-	-	-	Rig up and nipple BOP and pressure test
Dec 16	499	-	-	-	-	Continue to nipple up, pressure test, pick BHA, run in hole, pressure test
Dec 17	499	-	-	-	-	Displace hole with invert, tag cement, drill out cement and shoe, drill ahead 222 mm hole
Dec 18	553	910	74	19	-	Drill ahead 222 mm hole and survey
Dec 19	675	930	90	19	-	Fan hole due to deviation problems
Dec 20	772	910	74	19	-	Fan hole to depth of 772 m, pull out of hole, pick up directional tools, run in hole and directional drill 222 mm
Dec 21	823	915	70	19	-	Directional drill, motor failure, pull out of hole to change motor and run in hole with new motor, directional drill ahead
Dec 22	954	915	60	19	-	Directional drill ahead
Dec 23	1045	920	58	10	-	Bit played out, pull out of hole, pick up new and run in hole, directional drill ahead 222 mm hole
Dec 24	1235	915	58	20	-	Directional Drill ahead 222 mm hole
Dec 25	1473	920	60	20	-	Directional drill ahead 222 mm hole, bit played out start to pull out of hole
Dec 26	1615	915	55	20	-	Pul out of hole, make up new motor and bit, run in hole, directional drill ahead 222 mm hole
Dec 27	1751	915	54	20	-	Directional drill 222 mm hole
Dec 28	1887	920	51	20	-	Directional drill 222 mm hole to intermediate casing point, circulate to condition mud, wiper trip, pull out to run open hole logs
Dec 29	1889	960	54	18	-	Finish pulling out of hole, rig in loggers, run open hole logs, rig out loggers, run in hole

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Dec 30	1889	1000	58	18	-	Run in hole, circulate, pull out of hole and lay down collars, run casing
Dec 31	1889	1000	57	18	-	Run casing, circulate and cement casing, nipple up and rig in Alpine testers
Jan 1	1889	990	58	18	-	Pressure test, continue to nipple up, run in hole and pressure test pipe rams
Jan 2	1889	990	60	18	-	Pressure test rotating BOP, drill out cement, displace fluid in hole, drill ahead 156 mm hole underbalanced
Jan 3	1955	980	57	-	-	Drill ahead 156 mm hole underbalanced
Jan 4	2023	990	59			Drill ahead 156 mm hole underbalanced, gained water from formation, shut down N2, loss circulation, mix LCM, drill ahead
Jan 5	2062	1000	73			Drill ahead 156 mm hole, pull out to change bit, run in hole w/ new bit
Jan 6	2080	940	58	-	-	Drill ahead 156 mm hole to core point, circulate sample, condition mud, pull out of hole
Jan 7	2080	1040	57	-	-	Finish pulling out of hole, pick up core barrel, run in hole, cut core, pull out of hole and recover core, run with bit
Jan 8	2092	1050	65	-	-	Finish running in hole and drill ahead
Jan 9	2133	1045	48	-	-	Drill ahead 156 mm hole
Jan 10	2159	1060	48	-	-	Drill ahead 156 mm hole and survey
Jan 11	2188	980	46	-	-	Drill ahead 156 mm hole, pull out of hole, run in with new bit, drill ahead
Jan 12	2207	1020	48	-	-	Drill ahead 156 mm hole and survey
Jan 13	2244	1020	46	-	-	Drill ahead 156 mm hole
Jan 14	2280	1020	46	-	-	Drill to 2280.0 m total depth, circulate sample, wiper trip, pull out to run logs, run first log, lost X-Mac down hole on second run, wait on fishing tools
Jan 15	2280	1020	46	-	-	Wait on fishing tools, run in hole with fishing tool, pull out fish
Jan 16	2280	1020	54	-	-	Recover fish, run Hexdip/Cbil tool, Sonic tool failure, run new Sonic tool
Jan 17	2280	1020	48	-	-	Run in hole for DST#1

DEVIATION SUMMARY

MD (m)	Incl (deg)	Dir (deg)	TVD (m)	Vert Sec (m)	Rectangular Offsets (m)	DLS (/30m)
501.8	2.07	0.0	501.69	9.06	9.06 m N 0 m E	0.12
559.31	2.62	359.45	559.15	11.42	11.42 m N -0.01 m E	0.29
615.69	2.78	0.36	615.47	14.07	14.07 m N -0.02 m E	0.09
673.16	3.2	0.83	672.86	17.07	17.07 m N 0.02 m E	0.22
729.93	3.43	4.54	729.54	20.35	20.35 m N 0.17 m E	0.17
758.31	3.34	3.5	757.87	22.02	22.02 m N 0.29 m E	0.12
771.05	3.58	359.71	770.58	22.79	22.79 m N 0.31 m E	0.78
780.41	3.38	0.16	779.93	23.36	23.36 m N 0.31 m E	0.65
789.47	3.24	357.53	788.97	23.88	23.88 m N 0.30 m E	0.68
798.84	3.00	359.40	798.33	24.39	24.39 m N 0.29 m E	0.83
808.22	2.60	358.10	807.70	24.85	24.85 m N 0.28 m E	1.30
817.94	2.4	356.30	817.41	25.27	25.27 m N 0.26 m E	0.66
827.24	2.0	353.50	826.70	25.62	25.62 m N 0.23 m E	1.34
836.87	1.70	343.40	836.33	25.93	25.93 m N 0.17 m E	1.38
846.55	1.20	324.80	846.00	26.15	26.15 m N 0.07 m E	2.11
856.22	1.00	295.70	855.67	26.27	26.27 m N -0.07 m E	1.82
865.91	1.10	278.50	865.36	26.32	26.32 m N -0.24 m E	1.02
875.60	1.20	278.60	875.05	26.35	26.35 m N -0.43 m E	0.31
884.95	1.30	271.40	884.39	26.36	26.36 m N -0.63 m E	0.60
894.28	1.40	262.72	893.72	26.35	26.35 m N -0.85 m E	0.73
903.59	1.50	256.90	903.03	26.31	26.31 m N -1.08 m E	0.57
912.93	1.50	253.00	912.37	26.25	26.25 m N -1.32 m E	0.33
921.28	1.40	253.50	920.71	26.19	26.19 m N -1.52 m E	0.36
931.62	1.40	250.60	931.05	26.11	26.11 m N -1.76 m E	0.21
940.97	1.40	247.80	940.40	26.03	26.03 m N -1.97 m E	0.22
950.67	1.50	249.70	950.09	25.94	25.94 m N -2.20 m E	0.34
960.06	1.50	250.40	959.48	25.85	25.85 m N -2.43 m E	0.06
969.44	1.30	258.40	968.86	25.79	25.79 m N -2.65 m E	0.89
978.79	0.90	254.90	978.21	25.75	25.75 m N -2.83 m E	1.30
988.15	0.70	221.20	987.57	25.69	25.69 m N -2.94 m E	1.61

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997.49	1.10	200.10	996.90	25.56	25.56 m N -3.01 m E	1.65
1007.16	1.90	192.40	1006.57	25.32	25.32 m N -3.07 m E	2.55
1016.56	2.50	190.40	1015.96	24.97	24.97 m N -3.14 m E	1.93
1026.28	3.00	193.80	1025.67	24.51	24.51 m N -3.24 m E	1.62
1037.76	3.40	196.30	1037.13	23.89	23.89 m N -3.41 m E	1.11
1046.63	3.20	195.10	1045.99	23.40	23.40 m N -3.55 m E	0.72
1056.03	3.40	198.30	1055.37	22.88	22.88 m N -3.70 m E	0.87
1065.75	3.40	198.50	1065.08	22.33	22.33 m N -3.88 m E	0.04
1075.09	3.50	197.50	1074.40	21.80	21.80 m N -4.06 m E	0.37
1084.76	3.50	192.90	1084.05	21.23	21.23 m N -4.21 m E	0.87
1094.55	3.50	187.20	1093.82	20.64	20.64 m N -4.32 m E	1.07
1103.95	3.50	181.10	1103.21	20.07	20.07 m N -4.36 m E	1.19
1113.30	3.70	173.10	1112.54	19.49	19.49 m N -4.33 m E	1.73
1122.65	3.80	172.20	1121.87	18.88	18.88 m N -4.25 m E	0.37
1132.34	3.50	179.20	1131.54	18.27	18.27 m N -4.20 m E	1.66
1141.67	3.40	182.50	1140.85	17.71	17.71 m N -4.21 m E	0.71
1151.02	3.30	187.90	1150.19	17.16	17.16 m N -4.26 m E	1.06
1160.73	3.10	191.30	1159.88	16.63	16.63 m N -4.35 m E	0.85
1170.41	3.20	191.40	1169.55	16.11	16.11 m N -4.45 m E	0.31
1179.80	3.30	189.20	1178.92	15.58	15.58 m N -4.55 m E	0.51
1189.46	3.30	187.30	1188.56	15.03	15.03 m N -4.63 m E	0.34
1198.43	3.20	185.00	1197.52	14.53	14.53 m N -4.68 m E	0.55
1207.81	2.60	182.90	1206.89	14.05	14.05 m N -4.72 m E	1.95
1217.17	2.80	179.00	1216.24	13.61	13.61 m N -4.72 m E	0.87
1226.56	2.70	174.40	1225.62	13.16	13.16 m N -4.70 m E	0.77
1236.25	2.80	170.60	1235.30	12.70	12.70 m N -4.64 m E	0.64
1245.60	2.50	165.70	1244.64	12.28	12.28 m N -4.55 m E	1.21
1255.29	2.10	166.10	1254.32	11.90	11.90 m N -4.45 m E	1.24
1264.95	1.70	168.70	1263.97	11.59	11.59 m N -4.38 m E	1.27
1274.32	1.40	180.30	1273.34	11.34	11.34 m N -4.36 m E	1.39
1284.01	1.30	190.80	1283.03	11.11	11.11 m N -4.38 m E	0.82
1293.69	1.30	196.20	1292.70	10.90	10.90 m N -4.43 m E	0.38
1312.77	1.50	179.70	1311.78	10.44	10.44 m N -4.49 m E	0.70
1322.19	1.90	166.60	1321.19	10.17	10.17 m N -4.45 m E	1.77
1332.46	2.20	156.30	1331.46	9.82	9.82 m N -4.33 m E	1.38
1341.88	2.40	152.10	1340.87	9.48	9.48 m N -4.17 m E	0.83
1351.58	2.60	155.40	1350.56	9.10	9.10 m N -3.98 m E	0.76
1360.94	2.60	154.40	1359.91	8.72	8.72 m N -3.80 m E	0.15
1370.64	2.50	158.00	1369.60	8.32	8.32 m N -3.63 m E	0.58
1379.99	2.20	169.30	1378.94	7.96	7.96 m N -3.52 m E	1.77
1389.35	1.90	180.50	1388.30	7.63	7.63 m N -3.49 m E	1.60
1399.04	1.40	196.00	1397.98	7.35	7.35 m N -3.52 m E	2.06
1408.74	1.10	208.40	1407.68	7.15	7.15 m N -3.60 m E	1.24
1418.43	0.90	190.40	1417.37	7.00	7.00 m N -3.65 m E	1.15

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1427.80	0.90	177.10	1426.74	6.85	6.85 m N -3.66 m E	0.67
1437.17	1.00	147.00	1436.11	6.71	6.71 m N -3.62 m E	1.61
1446.50	1.40	137.50	1445.44	6.56	6.56 m N -3.49 m E	1.43
1455.88	1.60	134.00	1454.81	6.38	6.38 m N -3.32 m E	0.70
1465.58	1.50	132.40	1464.51	6.20	6.20 m N -3.13 m E	0.34
1475.27	1.30	139.10	1474.20	6.03	6.03 m N -2.97 m E	0.80
1484.64	1.40	138.50	1483.56	5.87	5.87 m N -2.82 m E	0.32
1493.97	1.40	142.90	1492.89	5.69	5.69 m N -2.68 m E	0.35
1503.32	1.30	137.40	1502.24	5.52	5.52 m N -2.54 m E	0.52
1512.69	1.20	140.90	1511.61	5.37	5.37 m N -2.40 m E	0.40
1521.72	1.20	142.10	1520.63	5.22	5.22 m N -2.28 m E	0.08
1531.51	1.20	145.20	1530.42	5.06	5.06 m N -2.16 m E	0.20
1541.22	1.20	141.60	1540.13	4.89	4.89 m N -2.04 m E	0.23
1550.90	1.20	144.70	1549.1	4.73	4.73 m N -1.92 m E	0.20
1560.68	1.10	148.80	1559.59	4.57	4.57 m N -1.81 m E	0.40
1570.53	1.00	155.90	1569.43	4.41	4.41 m N -1.73 m E	0.50
1580.28	0.80	140.90	1579.18	4.28	4.28 m N -1.65 m E	0.95
1590.04	1.00	133.60	1588.94	4.16	4.16 m N -1.55 m E	0.71
1599.79	1.00	129.60	1598.69	4.04	4.05 m N -1.42 m E	0.21
1609.53	0.90	122.60	1608.43	3.96	3.96 m N -1.29 m E	0.47
1619.28	0.70	130.00	1618.18	3.88	3.88 m N -1.18 m E	0.69
1629.01	0.80	131.60	1627.91	3.79	3.79 m N -1.08 m E	0.31
1636.22	0.30	171.10	1635.12	3.74	3.74 m N -1.04 m E	2.50
1638.74	1.40	138.20	1637.64	3.71	3.71 m N -1.02 m E	13.80
1648.45	2.00	131.30	1647.34	3.51	3.51 m N -0.81 m E	1.96
1658.22	2.40	131.90	1657.10	3.26	3.26 m N -0.53 m E	1.23
1667.95	2.10	125.20	1666.83	3.02	3.02 m N -0.24 m E	1.23
1677.70	1.40	114.60	1676.57	2.87	2.87 m N 0.02 m E	2.36
1687.41	0.70	135.40	1686.28	2.78	2.78 m N 0.17 m E	2.43
1697.14	0.70	191.60	1696.01	2.68	2.68 m N 0.20 m E	2.03
1706.89	1.40	218.30	1705.76	2.53	2.53 m N 0.11 m E	2.57
1716.60	1.90	216.80	1715.46	2.31	2.31 m N -0.06 m E	1.55
1726.43	1.40	209.20	1725.29	2.07	2.07 m N -0.21 m E	1.66
1736.22	0.30	171.10	1735.08	1.94	1.94 m N -0.27 m E	2.61
1745.41	0.90	43.20	1744.27	1.93	1.93 m N -0.15 m E	3.36
1755.32	1.50	44.40	1754.18	2.08	2.08 m N -0.01 m E	1.82
1765.11	1.60	47.10	1763.96	2.26	2.26 m N 0.01 m E	0.38
1774.90	1.60	51.90	1773.75	2.44	2.44 m N 0.39 m E	0.41
1784.70	1.30	68.30	1783.55	2.56	2.56 m N 0.60 m E	1.56
1794.48	1.00	70.00	1793.32	2.63	2.63 m N 0.70 m E	0.93
1804.28	0.70	42.10	1803.12	2.71	2.71 m N 0.91 m E	1.54
1813.98	0.80	0.50	1812.82	2.82	2.82 m N 0.95 m E	1.67
1823.70	1.40	326.40	1822.54	2.99	2.99 m N 0.88 m E	2.66
1833.43	1.80	319.30	1832.27	3.20	3.20 m N 0.72 m E	1.37

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1843.18	2.10	320.90	1842.01	3.46	3.46 m N 0.50 m E	0.94
1852.96	2.10	322.00	1851.78	3.74	3.74 m N 0.28 m E	0.12
1862.71	1.50	316.60	1861.53	3.97	3.97 m N 0.08 m E	1.92
1872.42	1.50	315.30	1871.24	4.15	4.15 m N -0.09 m E	0.11
1874.05	1.50	317.60	1872.87	4.18	4.18 m N -0.12 m E	1.11
1889.05	1.50	317.60	1887.86	4.47	4.47 m N -0.39 m E	0.00
2002.0	1.5					
2085.0	2.75					
2123.0	3.75					
2203.0	2.5					

BIT RECORD

No.	SIZE	MAKE	TYPE	DEPTH OUT	HOURS	CONDITION
1	222	VAREL	L127T-XG	778.0	54.25	3-1-In
2	222	REED	EHT-11	1045.0	34.50	3-3-In
3	222	HUGHES	GT-520	1615	51.25	1-3-In
4	222	HUGHES	GT-S30	1889	39.75	3-2-1mm
1B	156	REED	EHP-53A	2070.0	59	3-2-1mm
2B	156	VAREL	ETD537	2080.0	4.5	1-1-1mm
1C	156	ARC	325	2083.2	1.36	
2RR	156	VAREL	ETD537	2189	76.25	2-3-In
3B	156	SMITH	F3	2280	54.5	1-2-1mm

CORE # 1

INTERVAL	2080.0 - 2083.2 m
CUT	3.2 m.
RECOVERED	3.4 m.
FORMATION	Arnica

CORING TIMES (min/0.2 m) :

2-2-6-2-4	4-5-5-5-8	6-7-7-6-6	21
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CORE DESCRIPTION:

2080-2080.45:	DOLOMITE - white with slight greyish brown moldic appearance, cryptocrystalline to partly microcrystalline, partly bituminous, brown dolomite inclusions, tight;
2080.45-2081.03:	DOLOMITE - marble brownish grey with white dolomite veins, cryptocrystalline to partly fine crystalline, in part euhedral to subhedral crystals, dense to slight pitted texture, pyrite, bituminous, limy, fractured, sparse very poor microporosity and intercrystalline porosity;
2081.03-2081.48:	DOLOMITE - white with slight greyish brown moldic appearance, cryptocrystalline to partly microcrystalline, partly bituminous, brown dolomite inclusions, tight;
2081.48-2082.45:	DOLOMITE - marble grey brown to brown with white dolomite veins, cryptocrystalline to partly fine crystalline, rare euhedral and subhedral crystals, dense to slight friable texture, bitumin micro fractures, calcite infilling, fractured, patchy very poor intercrystalline porosity;
2082.45-2083.05:	DOLOMITE - brown, micritic, slight waxy lustre, smooth texture, slightly pitted, minor bitumin partings, white dolomite fractures, argillaceous, tight;
2083.05-2083.4	DOLOMITE - marble brownish grey and white dolomite veins, cryptocrystalline to fine crystalline, in part subhedral to euhedral crystals, dense to slight friable texture,

SAMPLE DESCRIPTIONS

500-505:	SHALE [100] - light grey to greyish brown to brown, very fine to fine texture, firm, in part micromicaceous, pyrite, calcareous, blocky, in part grades to limestone;
505-510:	SHALE [100] - light to medium greyish brown, very fine texture, earthy to waxy lustre, firm, partly calcareous, blocky;
510-515:	SHALE [100] - light grey to greyish brown, very fine to fine texture, firm, calcareous, blocky, in part grades to argillaceous limestone;
515-520:	SHALE [100] - light grey to partly greyish brown, very fine to fine texture, firm, partly micromicaceous, calcareous, blocky, in part grades to argillaceous limestone;
520-525:	SHALE [100] - light grey to slightly greyish brown, very fine to rough texture, firm, slightly micromicaceous, calcareous, blocky, grades to limestone;
525-530:	SHALE [100] - light grey, very fine to rough texture, firm, partly micromicaceous, calcareous, blocky, grading to argillaceous limestone;
530-535:	SHALE [100] - light grey to grey, fine to rough texture, firm, in part micromicaceous, calcareous, blocky, partly grades to argillaceous limestone;
535-540:	SHALE [100] - light to medium grey, slightly greyish brown, very fine to fine texture, in part slight waxy lustre, firm, micromicaceous, calcareous, blocky;
540-545:	SHALE [100] - light to medium grey, very fine to fine texture, partly waxy lustre, firm, partly micromicaceous, calcareous, blocky to subfissile;
545-550:	SHALE [100] - light to medium grey to greyish brown, very fine to slight rough texture, slight waxy lustre, firm, micromicaceous, calcareous, blocky to subfissile;
550-555:	SHALE [100] - light grey to greyish brown, very fine to rough texture, firm, micromicaceous, calcareous, blocky to partly subfissile;
555-560:	SHALE [100] - light grey to greyish brown, smooth to rough texture, firm, micromicaceous, calcareous, blocky to subfissile;
560-565:	SHALE [100] - light grey, very fine to fine texture, firm, micromicaceous, calcareous, trace pyrite, blocky to partly subfissile;
565-570:	SHALE [100] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, blocky to slightly subfissile;
570-575:	SHALE [100] - light to medium grey, slightly greyish brown, smooth to rough texture, firm, micromicaceous, calcareous, blocky, in part grades to argillaceous limestone;

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- 575-580: SHALE [90] - light grey, very fine to fine texture, firm, micromicaceous, calcareous, blocky;
LIMESTONE [10] - grey offwhite, microcrystalline, dense texture, partly argillaceous, no visible porosity;
- 580-585: SHALE [80] - light grey to greyish brown, very fine to rough texture, firm, partly micromicaceous, calcareous, blocky;
LIMESTONE [20] - brownish grey to tan, cryptocrystalline to partly microcrystalline, dense texture, tight;
- 585-590: SHALE [90] - light to medium grey, very fine to fine texture, firm, in part micromicaceous, calcareous, blocky;
LIMESTONE [10] - greyish offwhite to brownish grey, cryptocrystalline to microcrystalline, dense texture, partly argillaceous no visible porosity;
- 590-595: SHALE [90] - light grey to slightly greyish brown, very fine to fine grained, firm, partly micromicaceous, slightly calcareous, blocky;
LIMESTONE [10] - tan to greyish brown, cryptocrystalline, dense texture, tight;
- 595-600: SHALE [70] - light grey, very fine to rough texture, firm, micromicaceous, calcareous, blocky, grades to argillaceous limestone;
LIMESTONE [30] - tan to greyish white, cryptocrystalline to slightly microcrystalline, dense texture, rare fossil debris, tight;
- 600-605: SHALE [100] - light to partly medium grey, fine to rough texture, firm, micromicaceous, in part calcareous, blocky;
- 605-610: SHALE [100] - light grey, very fine to fine texture, firm, partly micromicaceous, calcareous, blocky, in part grades to argillaceous limestone;
- 610-615: SHALE [90] - light grey, fine to rough texture, firm, partly micromicaceous, calcareous, trace pyrite, blocky;
LIMESTONE [10] - light brown to greyish brown, cryptocrystalline to partly microcrystalline, dense texture, partly argillaceous, tight;
- 615-620: SHALE [85] - light to medium grey to greyish brown, fine to rough texture, firm, partly micromicaceous, calcareous, blocky;
LIMESTONE [15] - brownish grey to tan, cryptocrystalline to occasionally microcrystalline, dense texture, argillaceous, tight;
- 620-625: SHALE [70] - light to medium grey to greyish brown, very fine to rough texture, slight earthy lustre, firm, partly micromicaceous, calcareous, blocky;
LIMESTONE [30] - brownish grey to tan, cryptocrystalline to occasionally microcrystalline, dense texture, argillaceous, tight;
- 625-630: SHALE [80] - light to medium grey to greyish brown, very fine to rough texture, slight earthy lustre, firm, partly micromicaceous, calcareous, blocky;
LIMESTONE [20] - brownish grey to tan, cryptocrystalline to occasionally microcrystalline, dense texture, argillaceous, rare fossil debris, tight;

- 630-635: SHALE [60] - light to medium grey, fine to rough texture, firm, in part micromicaceous, calcareous, blocky, grades to argillaceous limestone; LIMESTONE [40] - greyish offwhite, microcrystalline, dense texture, argillaceous, tight;
- 635-640: SHALE [80] - light to medium grey, fine to rough texture, firm, in part micromicaceous, calcareous, blocky, grades to argillaceous limestone; LIMESTONE [20] - greyish offwhite, microcrystalline to partly cryptocrystalline, dense texture, argillaceous, tight;
- 640-645: SHALE [100] - light to medium grey, very fine to rough texture, firm, micromicaceous, calcareous, blocky, slight chalky greyish offwhite limestone stringers;
- 645-650: SHALE [100] - light to medium grey, smooth to rough texture, firm, micromicaceous, calcareous, trace pyrite, blocky to partly subfissile, grades to argillaceous limestone;
- 650-660: SHALE [80] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, blocky to subfissile; LIMESTONE [20] - greyish offwhite, microcrystalline, dense to slight chalky texture, argillaceous, tight;
- 660-665: SHALE [100] - light to medium grey to greyish brown, smooth to fine texture, firm, micromicaceous, calcareous, blocky to subfissile, in part grades to limestone;
- 665-670: SHALE [100] - light to medium grey to greyish brown, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to blocky;
- 670-675: SHALE [100] - light to medium grey to greyish brown, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to blocky, greyish offwhite argillaceous limestone stringers;
- 675-680: SHALE [100] - light to medium grey to greyish brown, smooth to rough texture, firm, micromicaceous, calcareous, blocky to subfissile, minor limestone stringers;
- 680-685: SHALE [100] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, trace pyrite, blocky to subfissile, in part grades to limestone;
- 685-690: SHALE [100] - light to medium grey to slight brownish grey, very fine to rough texture, firm, micromicaceous, calcareous, subfissile to blocky, mottled greyish offwhite limestone stringers;
- 690-695: SHALE [100] - light to medium grey, slightly smooth to rough texture, firm, micromicaceous, calcareous, trace pyrite, subfissile to blocky, in part grades to argillaceous limestone;
- 695-700: SHALE [100] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to blocky;
- 700-705: SHALE [100] - light to medium grey, smooth to fine texture, slight waxy lustre, firm, micromicaceous, calcareous, subfissile to blocky, minor limestone stringers;

705-710:	SHALE [100] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to blocky, minor limestone stringers;
710-715:	SHALE [95] - light to medium grey, smooth to rough texture, firm, micromicaceous, calcareous, subfissile to blocky; LIMESTONE [05] - greyish offwhite, microcrystalline, dense to slight chalky texture, argillaceous, tight;
715-720:	SHALE [100] - light to medium grey, very fine to fine texture, firm, micromicaceous, calcareous, subfissile to blocky;
720-725:	SHALE [90] - light to medium grey, very fine to slight rough texture, firm, micromicaceous, calcareous, subfissile to blocky; LIMESTONE [10] - greyish offwhite, microcrystalline, dense texture, argillaceous, tight;
725-730:	SHALE [100] - light to medium grey to slight greyish brown, very fine to rough texture, firm, micromicaceous, calcareous, minor argillaceous limestone stringers;
730-735:	SHALE [100] - light to medium grey to slight greyish brown, very fine to rough texture, firm, micromicaceous, calcareous, minor argillaceous limestone stringers;
735-740:	SHALE [90] - light to medium grey, partly greyish brown, very fine to slight rough texture, firm, micromicaceous, calcareous, subfissile to blocky; LIMESTONE [10] - greyish offwhite, microcrystalline, dense texture, argillaceous, tight;
740-750:	SHALE [100] - light to medium grey to greyish brown, partly smooth to rough texture, firm, in part micromicaceous, calcareous, subfissile to blocky, minor argillaceous limestone stringers;
750-760:	SHALE [100] - light to medium grey to partly greyish brown, smooth to rough texture, firm, in part micromicaceous, calcareous, subfissile to blocky, partly grades to argillaceous limestone;
760-765:	SHALE [100] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to slightly platy;
765-770:	SHALE [100] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to slightly blocky, minor argillaceous limestone stringers;
770-775:	SHALE [100] - light to medium grey, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to slightly blocky, in part grades to argillaceous limestone;
775-785:	SHALE [90] - light to medium grey to partly greyish brown, smooth to rough texture, slight waxy lustre, firm, micromicaceous, calcareous, subfissile to partly platy; LIMESTONE [10] - greyish white, microcrystalline, dense texture, argillaceous, tight;
785-790:	SHALE [100] - light to medium grey to brownish grey, smooth to fine texture, firm, micromicaceous, calcareous, subfissile to blocky to platy, minor argillaceous limestone stringers;

- 790-795: SHALE [90] - light to medium grey to partly greyish brown, smooth to rough texture, slight waxy lustre, firm, micromicaceous, calcareous, subfissile to partly platy;
LIMESTONE [10] - greyish white, microcrystalline, dense texture, argillaceous, tight;
- 795-805: SHALE [90] - light to medium grey to partly greyish brown, smooth to rough texture, slight waxy lustre, firm, micromicaceous, calcareous, minor pyrite, subfissile to partly platy;
LIMESTONE [10] - greyish white, microcrystalline, dense texture, argillaceous, tight;
- 805-810: SHALE [85] - greyish brown to medium grey, very fine to rough texture, firm, micromicaceous, calcareous, blocky to subfissile;
LIMESTONE [15] - light brown, microcrystalline, dense to chalky texture, soft, argillaceous, tight;
- 810-815: SHALE [75] - greyish brown to medium grey, very fine to rough texture, firm, micromicaceous, calcareous, blocky to subfissile;
LIMESTONE [25] - light brown, microcrystalline, dense to chalky texture, soft, argillaceous, tight;
- 815-820: SHALE [90] - greyish brown to medium grey, very fine to rough texture, firm, micromicaceous, calcareous, blocky to subfissile;
LIMESTONE [10] - light brown, microcrystalline, dense to chalky texture, soft, argillaceous, tight;
- 820-825: SHALE [100] - light to medium grey to dark greyish brown, very fine to partly rough texture, firm, micromicaceous, calcareous, subfissile to blocky, in part grades to argillaceous limestone;
- 825-830: SHALE [90] - greyish brown to medium grey, very fine to rough texture, firm, micromicaceous, calcareous, blocky to subfissile;
LIMESTONE [10] - light brown, microcrystalline, dense to chalky texture, soft, argillaceous, tight;
- 830-835: SHALE [100] - light to medium grey, very fine to fine texture, firm, micromicaceous, calcareous, subfissile to blocky;
- 835-840: SHALE [80] - light to medium grey to dark greyish black, fine to rough texture, firm, in part micromicaceous, calcareous, partly carbonaceous, rare calcite crystals, blocky;
LIMESTONE [20] - light brown to brownish white, microcrystalline, dense to slight chalky texture, argillaceous, tight;
- 840-845: SHALE [75] - light to medium grey to dark greyish black, fine to rough texture, firm, in part micromicaceous, calcareous, partly carbonaceous, trace pyrite, blocky;
LIMESTONE [25] - light brown to brownish black, microcrystalline, dense to slight chalky texture, soft to firm, argillaceous, tight;
- 845-850: SHALE [60] - light to medium grey to dark greyish black, fine to rough texture, firm, in part micromicaceous, calcareous, partly carbonaceous, trace pyrite, blocky;
LIMESTONE [40] - cream to brownish black, microcrystalline to partly very fine crystalline, dense to slight chalky texture, soft to firm, argillaceous, tight;

- 850-855: SHALE [65] - light to medium grey to dark greyish black, fine to rough texture, firm, in part micromicaceous, calcareous, blocky;
LIMESTONE [35] - cream to brownish black, cryptocrystalline to partly very fine crystalline, dense to slight chalky texture, soft to firm, argillaceous, tight;
- 855-860: SHALE [65] - light to medium grey to dark greyish black, fine to rough texture, firm, in part micromicaceous, calcareous, blocky;
LIMESTONE [35] - cream to brownish black, cryptocrystalline to microcrystalline, dense to slight chalky texture, soft to firm, slightly dolomitic, argillaceous, tight;
- 860-865: LIMESTONE [80] - light brown to buff to cream, cryptocrystalline to microcrystalline, in part micritic, dense to slight chalky texture, partly argillaceous, tight;
SHALE [10] - light to medium grey, fine to rough texture, firm, micromicaceous, calcareous, blocky to subfissile;

TETCHO 866.5 m (-588.25)

- 865-870: LIMESTONE [100] - buff to greyish brown to dark brown, cryptocrystalline to microcrystalline, partly micritic, dense to partly chalky texture, in part argillaceous, tight;
- 870-875: LIMESTONE [100] - creamy to brownish offwhite, microcrystalline to partly cryptocrystalline, chalky to dense texture, friable to hard, partly argillaceous, tight;
- 875-880: LIMESTONE [100] - buff to greyish brown to dark brown, cryptocrystalline to microcrystalline, partly micritic, dense to partly chalky texture, hard to friable, in part argillaceous, tight;
- 880-885: LIMESTONE [100] - light brown to cream, tan, cryptocrystalline to microcrystalline, in part micritic, dense to partly chalky texture, hard to partly friable, slightly argillaceous, minor shale stringers, no visible porosity;
- 885-890: LIMESTONE [100] - cream to mottle brownish offwhite, partly tan, cryptocrystalline to microcrystalline, partly micritic, dense to slight chalky texture, hard to friable, argillaceous, tight;
- 890-895: LIMESTONE [100] - medium to dark brownish grey, brown, cryptocrystalline to occasionally microcrystalline, micritic, dense texture, hard, argillaceous, tight;
- 895-900: LIMESTONE [100] - medium to dark brownish grey, brown, cryptocrystalline to occasionally microcrystalline, micritic, dense texture, hard, argillaceous, tight, minor shale stringers;
- 900-905: LIMESTONE [100] - medium to dark brownish grey, offwhite to light brown, cryptocrystalline to occasionally microcrystalline, micritic, dense to chalky texture, hard to partly friable, argillaceous, tight;
- 905-910: LIMESTONE [100] - tan to light brown, cryptocrystalline, micritic, dense texture, hard, partly argillaceous, tight;

- 910-920: LIMESTONE [100] - tan to light brown to brownish offwhite, cryptocrystalline to partly microcrystalline, micritic, dense to slightly chalky texture, hard to partly friable, partly argillaceous, tight;
- 920-930: LIMESTONE [100] - medium to dark greyish brown to tan to brownish offwhite, cryptocrystalline to occasionally microcrystalline, micritic, dense to slight chalky texture, hard to friable, partly argillaceous, tight, minor calcareous shale stringers;
- 930-935: LIMESTONE [90] - medium brownish grey to tan to offwhite, cryptocrystalline to microcrystalline, micritic, dense texture, hard to partly friable, argillaceous, tight;
SHALE [10] - medium to dark brownish grey, fine texture, firm to hard, calcareous, blocky;
- 935-940: LIMESTONE [100] - medium to dark brownish grey, cryptocrystalline, micritic, dense texture, argillaceous, hard, tight;
- 940-945: DOLOMITE [100] - greyish green to greyish brown offwhite, very fine crystalline, slightly silty, calcareous, no visible porosity;
- 945-950: DOLOMITE [70] - light grey to greyish brown, very fine to fine crystalline, microsucrosic, silty, moderately packed to dense, argillaceous, no visible porosity;
LIMESTONE [10] - light brown offwhite, micromicaceous, chalky texture, argillaceous, soft, tight;
SHALE [20] - grey to greyish brown black, very fine to fine texture, firm, dolomitic, blocky;
- 950-960: DOLOMITE [85] - light greyish brown to grey, very fine crystalline, partly microsucrosic, partly calcareous, moderately packed to dense, hard to firm, in part argillaceous, no visible porosity;
SHALE [15] - light to medium greyish brown, very fine to fine texture, firm, dolomitic, blocky;
- 960-970: DOLOMITE [90] - light greyish green to greyish brown, very fine crystalline, in part microsucrosic, silty, calcareous, moderately packed to dense, firm to hard, partly argillaceous, no visible porosity;
SHALE [10] - light to medium greyish brown, fine texture, firm, partly dolomitic, blocky;
- 970-975: SHALE [80] - light to medium grey to brownish grey, very fine to fine texture, firm, micromicaceous, slightly dolomitic, silty, blocky to subfissile;
DOLOMITE [20] - light greyish green to greyish brown, very fine crystalline, in part microsucrosic, silty, calcareous, moderately packed to dense, firm to hard, partly argillaceous, no visible porosity;
- 975-980: SHALE [60] - light to medium grey to brownish grey, very fine to fine texture, firm, micromicaceous, slightly dolomitic, silty, blocky to subfissile;
DOLOMITE [40] - light greyish green to greyish brown, very fine crystalline, in part microsucrosic, silty, calcareous, moderately packed to dense, firm to hard, partly argillaceous, no visible porosity;

- 980-985: LIMESTONE [80] - mottled brownish offwhite yellow, microcrystalline to partly cryptocrystalline, in part micritic, slightly dolomitic, minor pyrite, rare fossil debris, no visible porosity;
SHALE [20] - light to medium greyish brown, very fine to rough texture, firm, slightly micromicaceous, in part calcareous, blocky;
- 985-995: SHALE [50] - light to medium grey to brownish grey, very fine to fine texture, firm, micromicaceous, slightly dolomitic, silty, blocky to subfissile;
DOLOMITE [50] - light greyish green to greyish brown, very fine crystalline, in part microsucrosic, silty, calcareous, moderately packed to dense, firm to hard, partly argillaceous, no visible porosity;
- 995-1000: DOLOMITE [90] - light brown to greyish brown, very fine crystalline to partly microcrystalline, slightly microsucrosic, calcareous, moderately indurated, firm, in part argillaceous, no visible porosity;
SHALE [10] - medium grey to greyish brown, very fine to fine texture, firm, partly micromicaceous, subfissile to blocky;
- 1000-1005: SHALE [100] - medium to partly dark grey to greyish brown, very fine to fine texture, firm, micromicaceous, subfissile to blocky;
- 1005-1010: SHALE [100] - medium to dark grey to partly greyish brown, very fine to fine texture, firm, micromicaceous, slightly calcareous, subfissile to blocky;
- 1010-1015: SHALE [100] - medium to dark grey to partly greyish brown, very fine to fine texture, firm, micromicaceous, slightly calcareous, subfissile to blocky;
- 1015-1020: SHALE [90] - medium to dark grey, very fine to partly rough texture, firm, micromicaceous, in part slightly calcareous, subfissile to blocky;
LIMESTONE [10] - light brownish offwhite, microcrystalline, slight chalky texture, argillaceous, friable, tight;
- 1020-1025: SHALE [90] - medium to dark grey, very fine to partly rough texture, firm, micromicaceous, in part slightly calcareous, rare pyrite, subfissile to blocky;
LIMESTONE [10] - light brownish offwhite, microcrystalline, slight chalky texture, argillaceous, friable, tight;
- 1025-1030: LIMESTONE [100] - light brown to buff to slightly creamy, microcrystalline to occasionally very fine crystalline, dense texture, dolomitic, in part argillaceous, no visible porosity;

KAKISA 1030.0 m (-751.75)

- 1030-1040: LIMESTONE [60] - light brown to buff to slightly creamy, microcrystalline to occasionally very fine crystalline, dense texture, dolomitic, in part argillaceous, no visible porosity;
SHALE [40] - medium to dark grey, very fine to partly rough texture, firm, micromicaceous, in part slightly calcareous, rare pyrite, subfissile to blocky;

- 1040-1045: LIMESTONE [80] - light brown to buff to dark brownish grey, microcrystalline, dense to slight chalky texture, partly dolomitic, slightly argillaceous, no visible porosity;
SHALE [20] - medium to dark grey, very fine texture, firm to hard, partly micromicaceous, partly calcareous, blocky;
- 1045-1050: LIMESTONE [100] - light brown to buff, cryptocrystalline to microcrystalline, dense to chalky texture, in part dolomitic, partly argillaceous, no visible porosity;
- 1050-1055: LIMESTONE [100] - light brown to tan to buff, cryptocrystalline to microcrystalline, dense to chalky texture, slightly dolomitic, tight;

FORT SIMPSON 1052.0 m (-773.75)

- 1055-1060: LIMESTONE [70] - light brown to buff, cryptocrystalline to microcrystalline, dense to slight chalky texture, shale partings, argillaceous, tight;
SHALE [30] - medium to dark grey to slightly greyish brown, very fine to rough texture, firm, slightly micromicaceous, partly calcareous, blocky to subfissile;
- 1060-1065: LIMESTONE [20] - light brown to buff, cryptocrystalline to microcrystalline, dense to slight chalky texture, shale partings, argillaceous, tight;
SHALE [80] - medium to dark grey to slightly greyish brown, very fine to rough texture, firm, slightly micromicaceous, partly calcareous, blocky to subfissile;
- 1065-1070: SHALE [100] - medium to dark grey, very fine to fine texture, firm, in part micromicaceous, slightly calcareous, blocky to subfissile;
- 1070-1075: SHALE [100] - medium to dark grey, very fine to fine texture, firm, in part micromicaceous, slightly calcareous, blocky to subfissile;
- 1075-1080: SHALE [100] - medium to dark grey, very fine to slight rough texture, firm, micromicaceous, blocky to subfissile, minor argillaceous limestone stringers;
- 1080-1085: SHALE [100] - medium to dark grey, very fine to slight rough texture, firm, micromicaceous, partly calcareous, blocky to subfissile;
- 1085-1095: SHALE [100] - medium to dark grey, very fine texture, slight waxy lustre, firm, partly calcareous, subfissile to blocky;
- 1095-1100: SHALE [100] - medium to dark grey, very fine to slight rough texture, firm, slightly micromicaceous, partly calcareous, blocky to subfissile;
- 1100-1105: SHALE [100] - medium to dark grey, very fine to slight rough texture, firm, micromicaceous, partly calcareous, blocky to subfissile;
- 1105-1110: SHALE [100] - medium to dark grey, very fine to slight smooth texture, firm, partly calcareous, blocky to subfissile;
- 1110-1115: SHALE [100] - medium to dark grey, very fine to slight rough texture, firm, partly calcareous, blocky to subfissile;

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- 1115-1120: SHALE [100] - medium to dark grey, very fine to slight smooth texture, firm, partly platy, partly calcareous, blocky to subfissile;
- 1120-1130: SHALE [100] - medium to dark grey, very fine to fine texture, firm, in part micromicaceous, slightly platy, in part calcareous, blocky to subfissile;
- 1130-1140: SHALE [100] - medium to dark grey to slight greyish white, very fine to rough texture, firm, partly micromicaceous, slightly calcareous, blocky to subfissile minor argillaceous limestone stringers;
- 1140-1150: SHALE [100] - medium to dark grey, very fine to rough texture, slight waxy lustre, firm, slightly micromicaceous, partly calcareous, blocky to subfissile;
- 1150-1160: SHALE [100] - medium to dark grey, very fine to rough texture, firm, partly micromicaceous, in part calcareous, blocky to white, white calcite crystals;
- 1160-1170: SHALE [80] - medium to dark grey, very fine to fine texture, firm, in part micromicaceous, slightly calcareous, blocky to subfissile;
LIMESTONE [20] - medium greyish white brown, very fine crystalline, slight granular to dense texture, partly silty, argillaceous, tight;
- 1170-1180: SHALE [90] - medium to dark grey, very fine to fine texture, firm, in part micromicaceous, slightly calcareous, blocky to subfissile;
LIMESTONE [10] - light brownish offwhite, microcrystalline, dense to slight chalky texture, friable, argillaceous, tight;
- 1180-1190: SHALE [100] - medium to dark grey, very fine to rough texture, firm, partly micromicaceous, in part calcareous, blocky to white, white calcite crystals;
- 1190-1200: SHALE [100] - medium to dark grey, very fine to rough texture, slight waxy lustre, firm, slightly micromicaceous, partly calcareous, blocky to subfissile, minor argillaceous limestone stringers;
- 1200-1210: SHALE [95] - medium to dark grey, very fine to fine texture, firm, in part micromicaceous, slightly calcareous, blocky to subfissile;
LIMESTONE [05] - light brownish offwhite, microcrystalline, dense to slight chalky texture, friable, argillaceous, tight;
- 1210-1220: SHALE [90] - light to medium grey, very fine to rough texture, firm, slightly micromicaceous, in part calcareous, blocky to subfissile;
LIMESTONE [10] - light greyish white, microcrystalline, dense texture, firm, argillaceous, tight;
- 1220-1230: SHALE [100] - light to medium grey, very fine to rough texture, firm, micromicaceous, slightly calcareous, blocky to subfissile;
- 1230-1240: SHALE [100] - medium to dark grey, very fine to rough texture, slight waxy lustre, firm, slightly micromicaceous, partly calcareous, blocky to subfissile, minor argillaceous limestone stringers;
- 1240-1250: SHALE [100] - medium to dark grey, very fine to rough texture, firm, slightly micromicaceous, partly calcareous, blocky to subfissile, minor argillaceous limestone stringers;

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1250-1260:	SHALE [100] - medium to dark grey, very fine to fine texture, slight waxy lustre, firm, micromicaceous, partly calcareous, subfissile to platy;
1260-1270:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
1270-1280:	SHALE [100] - medium to dark grey, very fine to fine texture, partly waxy lustre, firm, micromicaceous, subfissile to blocky, minor limestone stringers;
1280-1285:	SHALE [100] - light to medium grey, very fine to rough texture, firm, micromicaceous, slightly calcareous, blocky to subfissile;
1285-1290:	SHALE [90] - light to medium grey, very fine to rough texture, firm, slightly micromicaceous, in part calcareous, blocky to subfissile; LIMESTONE [10] - light greyish white, microcrystalline, dense texture, firm, argillaceous, tight;
1290-1300:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, slightly micromicaceous, partly calcareous, blocky to subfissile, minor argillaceous limestone stringers;
1300-1310:	SHALE [100] - medium to dark grey, very fine to fine texture, partly waxy lustre, firm, micromicaceous, subfissile to blocky, minor limestone stringers;
1310-1320:	SHALE [100] - dark grey, very fine to fine texture, slight waxy lustre, firm, micromicaceous, subfissile to blocky;
1320-1330:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
1330-1340:	SHALE [100] - dark grey, very fine to fine texture, slight waxy lustre, firm, micromicaceous, subfissile to blocky;
1340-1350:	SHALE [100] - medium to dark grey, very fine to fine texture, firm, micromicaceous, slightly calcareous, subfissile to blocky;
1350-1360:	SHALE [100] - medium to dark grey, smooth to fine texture, firm, micromicaceous, blocky to subfissile;
1360-1370:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
1370-1380:	SHALE [100] - medium grey, very fine to fine texture, firm, micromicaceous, blocky to subfissile;
1380-1390:	SHALE [100] - medium to dark grey, smooth to rough texture, firm, micromicaceous, blocky to subfissile;
1390-1400:	SHALE [100] - medium to dark grey, smooth to fine texture, firm, micromicaceous, blocky to subfissile;

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1400-1410:	SHALE [100] - dark grey, very fine to fine texture, slight waxy lustre, firm, micromicaceous, subfissile to blocky;
1410-1420:	SHALE [100] - medium grey, very fine to fine texture, firm, micromicaceous, blocky to subfissile;
1420-1430:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
1430-1440:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
1440-1450:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
1450-1460:	SHALE [100] - medium to dark grey, very fine to fine texture, firm, micromicaceous, trace pyrite, blocky to subfissile;
1460-1470:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
1470-1480:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, subfissile to blocky;
1480-1490:	SHALE [100] - medium to dark grey, smooth to fine texture, firm, micromicaceous, blocky to subfissile;
1490-1500:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, subfissile to blocky;
1500-1510:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
1510-1520:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, subfissile to blocky;
1520-1530:	SHALE [100] - medium to dark grey, smooth to fine texture, firm, micromicaceous, blocky to subfissile;
1530-1540:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, subfissile to blocky;
1540-1550:	SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
1550-1560:	SHALE [100] - medium to dark grey, smooth to fine texture, firm, micromicaceous, blocky to subfissile;

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- 1560-1570: SHALE [95] - light to medium grey, very fine to rough texture, firm, slightly micromicaceous, in part calcareous, blocky to subfissile;
LIMESTONE [05] - light greyish white, microcrystalline, dense texture, firm, argillaceous, tight;
- 1570-1580: SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
- 1580-1590: SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
- 1590-1600: SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, subfissile to blocky;
- 1600-1610: SHALE [100] - medium to slightly dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile, minor argillaceous limestone stringers;
- 1610-1620: SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky, minor argillaceous limestone stringers;
- 1620-1630: SHALE [100] - medium to dark grey, very fine to fine texture, firm, micromicaceous, blocky to subfissile;
- 1630-1640: SHALE [100] - medium to slightly dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile, minor argillaceous limestone stringers;
- 1640-1650: SHALE [100] - medium to dark grey, very fine to rough texture, firm, micromicaceous, slightly platy, subfissile to blocky;
- 1650-1660: SHALE [100] - dark grey, very fine to rough texture, firm, in part micromicaceous, blocky to subfissile;
- 1660-1670: SHALE [100] - medium to dark grey, very fine to fine texture, firm, micromicaceous, blocky to subfissile;
- 1670-1680: SHALE [100] - dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
- 1680-1690: SHALE [100] - medium to dark grey, very fine to fine texture, firm, micromicaceous, blocky to subfissile;
- 1690-1700: SHALE [100] - medium to slightly dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile, minor argillaceous limestone stringers;
- 1700-1705: SHALE [100] - medium to dark grey, very fine to fine texture, firm, micromicaceous, blocky to subfissile;
- 1705-1710: SHALE [100] - medium to slightly dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile, minor argillaceous limestone stringers;

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1710-1720:	SHALE [100] - dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
1720-1730:	SHALE [100] - dark grey to greyish black to blackish brown, smooth to rough texture, firm to soft, partly micromicaceous, in part carbonaceous, slightly dolomitic, blocky to subfissile;
1730-1740:	SHALE [100] - medium to slightly dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile, minor argillaceous limestone stringers;
1740-1750:	SHALE [100] - dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
1750-1760:	SHALE [100] - dark grey, very fine to rough texture, firm, micromicaceous, in part calcareous, blocky to subfissile;
1760-1770:	SHALE [100] - dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
1770-1780:	SHALE [100] - dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile;
1780-1790:	SHALE [100] - medium to slightly dark grey, very fine to rough texture, firm, micromicaceous, blocky to subfissile, minor argillaceous limestone stringers;

MUSKWA 1790.0 m (-1511.75)

1790-1800:	SHALE [100] - dark grey, very fine to fine texture, slight waxy lustre, firm, partly micromicaceous, trace pyrite, in part bituminous, subfissile to blocky
1800-1810:	SHALE [100] - dark greyish black, very fine to fine texture, firm to soft, slightly micromicaceous, trace pyrite, bituminous, subfissile to blocky;
1810-1820:	SHALE [100] - dark grey to greyish black, very fine to fine texture, firm, pyrite, bituminous, subfissile to splintery;
1820-1825:	SHALE [100] - dark greyish black, very fine to fine texture, firm to soft, slightly micromicaceous, trace pyrite, bituminous, subfissile to blocky;
1825-1830:	SHALE [100] - dark blackish grey, very fine to fine texture, slight earthy lustre, firm to soft, bituminous, pyrite, blocky to subfissile;
1830-1840:	SHALE [100] - black to dark greyish black, very fine to fine texture, earthy lustre, firm to soft, bituminous, pyrite, blocky to subfissile;
1840-1850:	SHALE [100] - dark blackish grey, very fine to fine texture, slight earthy lustre, firm to soft, bituminous, pyrite, blocky to subfissile;
1850-1860:	SHALE [100] - black, very fine to fine texture, earthy lustre, firm to soft, bituminous, minor pyrite, blocky to subfissile, minor creamy dolomitic limestone stringers;

- 1860-1870: SHALE [100] - black to dark brownish black, fine to rough texture, earthy lustre, firm to soft, in part calcareous, bituminous, pyrite, blocky;
- 1870-1878: SHALE [100] - dark greyish black to black to brownish black, fine to rough texture, earthy lustre, firm to soft, slightly calcareous, bituminous, pyrite, blocky;

DEVONIAN 1878.0 m (-1599.75)

- 1878-1880: CHERT [100] - orange yellow, opaque, hard, loose grains, gypsum crystals, hydrocarbon staining, dull yellow fluorescence, weak yellow cut;
- 1880-1885: LIMESTONE [100] - greyish black offwhite to grey, microcrystalline to partly very fine crystalline, dense to chalky texture, argillaceous, partly bituminous, loose chert grains, gypsum crystals, no visible porosity, no shows;
- 1885-1889: LIMESTONE [100] - greyish black offwhite to grey, microcrystalline to partly very fine crystalline, dense to chalky texture, argillaceous, partly bituminous, loose chert grains, gypsum crystals, no visible porosity, no shows;
- 1889-1895: LIMESTONE [100] - dark greyish black to black, in part microcrystalline, mudstone, dense texture, argillaceous, shaley, tight;
- 1895-1900: LIMESTONE [100] - black to dark greyish black, mudstone, earthy to smooth texture, dense, argillaceous, shale partings, tight;
- 1900-1905: LIMESTONE [100] - dark brown to tan to greyish brown, in part microcrystalline, mudstone, smooth to earthy texture, dense, argillaceous, calcite veins, shaley, tight;
- 1905-1910: LIMESTONE [100] - medium to dark brown to brownish grey to grey, mudstone, in part microcrystalline, earthy to smooth texture, dense, argillaceous, shaley, trace pyrite, tight;
- 1910-1915: LIMESTONE [100] - dark greyish brown to medium to dark brown, mottled grey, in part microcrystalline, mudstone, earthy to slight smooth texture, dense, argillaceous, shaley, rare calcite crystals, trace pyrite, tight;
- 1915-1920: LIMESTONE [100] - medium to dark greyish brown to dark brown, partly mottled grey, in part microcrystalline, partly mudstone, earthy to dense texture, argillaceous, shaley, calcite crystals, tight;
- 1920-1925: LIMESTONE [100] - mottled greyish brown, medium to dark brown, microcrystalline, in part mudstone, dense to earthy texture, argillaceous, in part shaley, trace pyrite, tight;
- 1925-1930: LIMESTONE [100] - dark brown to brownish black, mottled greyish brown, microcrystalline, mudstone, earthy to dense texture, argillaceous, shaley, minor calcite crystals, rare pyrite, tight;

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- 1930-1935: LIMESTONE [100] - dark brownish black to medium brown, in part mottled brownish grey, microcrystalline, mudstone, dense to earthy texture, partly smooth texture, argillaceous, in part shaley, rare calcite crystals, tight;
- 1935-1940: LIMESTONE [100] - medium to dark brown to brownish black, microcrystalline, mudstone, earthy to smooth texture, dense, argillaceous, shaley, tight;
- 1940-1945: LIMESTONE [100] - medium to dark brown to brownish black to mottled brown grey, microcrystalline, mudstone, earthy to smooth texture, dense, argillaceous, shaley, tight;
- 1945-1958: LIMESTONE [100] - medium to dark brown to brownish black to tan, microcrystalline, mudstone, earthy to slightly smooth texture, dense, argillaceous, in part shaley, tight;
- 1958-1960: DOLOMITE [100] - cream to white to light grey, medium to partly coarse crystalline, euhedral crystals, slight porcelaneous lustre, partly bituminous, no visible to trace very poor intercrystalline porosity, no shows;
- 1960-1965: DOLOMITE [100] - cream to white to light grey, medium to partly coarse crystalline, euhedral crystals, slight porcelaneous lustre, partly bituminous, trace pyrite, no visible to trace very poor intercrystalline porosity, no shows;
- 1965-1970: DOLOMITE [100] - cream to white to light grey, medium to partly coarse crystalline, euhedral to subhedral crystals, slight porcelaneous lustre, partly bituminous, trace pyrite, shale partings, no visible to rare very poor intercrystalline porosity, no shows;

HEADLESS 1972.0 m (-1693.75)

- 1970-1975: LIMESTONE [100] - dark brown to brownish black, in part microcrystalline, mudstone, earthy to smooth texture, dense, argillaceous, shale partings, tight;
- 1975-1980: LIMESTONE [70] - dark brown to brownish black to mottled grey brown, in part microcrystalline, mudstone, earthy to smooth texture, dense, argillaceous, pyrite, shale partings, tight;
DOLOMITE [30] - light grey to white to cream, fine to medium crystalline, subhedral to euhedral crystals, partly bituminous, shale partings, no visible porosity, no shows;
- 1980-1985: LIMESTONE [100] - dark brown to brownish black to mottled brownish grey, in part microcrystalline, mudstone, earthy to partly smooth texture, dense, argillaceous, shaley, tight;
- 1985-1990: LIMESTONE [100] - light to dark brown to tan, mudstone, smooth to earthy texture, dense, tight;
- 1990-1995: LIMESTONE [90] - light to dark brown to tan to dark brownish grey, partly microcrystalline, mudstone, smooth to earthy texture, dense, argillaceous, tight;
SHALE [10] - light grey, very fine texture, smooth, slight waxy lustre, firm, pyrite, slightly calcareous, blocky;

1995-2000: LIMESTONE [90] - light to dark brown to tan to dark brownish grey, partly microcrystalline, mudstone, smooth to earthy texture, dense, argillaceous, pyrite, tight;
SHALE [10] - light grey, very fine texture, smooth, slight waxy lustre, firm, pyrite, grades to limestone, blocky;

LANDRY 2002.0 m (-1723.75)

2000-2005: DOLOMITE [100] - creamy to white, fine to medium crystalline, subhedral to euhedral crystals, partly bituminous, shaley, pyrite, no visible porosity to very poor intercrystalline porosity, no shows;

2005-2010: DOLOMITE [100] - creamy white to greyish black to mottled white and black, in part medium crystalline, subhedral to euhedral crystals, bituminous, shaley, pyrite, no visible to poor intercrystalline and fracture porosity, no shows;

2010-2015: DOLOMITE [100] - smoky grey to creamy white to greyish black to mottled white and black, in part medium crystalline, subhedral to euhedral crystals, bituminous, shaley, pyrite, no visible to poor intercrystalline and fracture porosity, no shows minor stringers of light grey waxy shale;

2015-2020: DOLOMITE [100] - light to dark greyish white black, mottled grey, in part creamy white, partly medium crystalline, scattered subhedral to euhedral crystals, shaley, partly bituminous, pyrite, no visible porosity;

2020-2025: DOLOMITE [100] - light to dark greyish white black, mottled grey, in part creamy white, partly medium crystalline, scattered subhedral to euhedral crystals, shaley, partly interstitial bitumen, rare anhydrite, pyrite, no visible porosity;

2025-2030: DOLOMITE [100] - creamy white to dark greyish white black, in part fine to medium crystalline, scattered subhedral to euhedral crystals, bituminous, shale partings, trace pyrite, no visible porosity;

2030-2035: DOLOMITE [100] - creamy white to mottled greyish black white, very fine crystalline, dense texture, bituminous, shale partings, minor pyrite, possible fracture porosity, no shows;

2035-2040: DOLOMITE [100] - creamy white to mottled greyish black white, very fine crystalline, dense texture, slightly bituminous, minor shale partings, possible fracture porosity, no shows, sample contaminated with LCM;

2040-2045: DOLOMITE [100] - creamy white to smoky grey to greyish white black, very fine crystalline, dense texture, rare pyrite, poor fracture porosity, no shows, sample contaminated with LCM;

2045-2050: DOLOMITE [100] - white to partly smoky grey, cryptocrystalline to partly very fine crystalline, dense texture, possible fracture porosity, no shows, sample contaminated with LCM;

- 2050-2055: DOLOMITE [100] - white to smoky grey to mottled greyish white black, cryptocrystalline to partly very fine crystalline, dense texture, slightly bituminous, becoming shaley, scattered fracture porosity, no shows;
- 2055-2060: DOLOMITE [95] - white to smoky grey to greyish white black, cryptocrystalline to partly very fine crystalline, dense texture, partly bituminous, possible fracture porosity, no shows;
LIMESTONE [05] - smoky grey to greyish white, cryptocrystalline, dense texture, partly argillaceous, tight;
- 2060-2065: DOLOMITE [100] - white to smoky grey, cryptocrystalline to partly very fine crystalline, dense texture, minor calcite infilling, in part bituminous, fractured, no visible porosity, no shows;
- 2065-2070: DOLOMITE [100] - white to smoky grey, grey, cryptocrystalline to partly very fine crystalline, dense texture, becoming limy, partly bituminous, fractured, no visible porosity, no shows;

ARNICA 2074.0 m (-1795.75)

- 2070-2075: DOLOMITE [100] - white to light brown, cryptocrystalline to microcrystalline, in part glassy lustre, dense to slight fragmented texture, slightly bituminous, trace pyrite, no visible porosity, no shows;
- 2075-2077.5: DOLOMITE [100] - brown to mottled dark greyish brown, microcrystalline, glassy lustre, minor subhedral to euhedral crystals, fragmented to dense texture, rare pyrite, tight with occasionally very poor pinpoint porosity, no shows;
- 2077.5-2080: DOLOMITE [95] - white to in part mottled greyish brown, in part light yellow white, cryptocrystalline to partly microcrystalline, porcelaneous lustre, fragmented to slight chalky texture, fractured, no shows;
LIMESTONE [05] - white to slightly dirty white, microcrystalline, chalky texture, soft, tight;
- 2080-2085: DOLOMITE [100] - white to greyish brown to brown, cryptocrystalline to partly fine crystalline, in part micritic, fragmented to dense texture, slight argillaceous, rare pyrite, calcite infilling, fractured, tight to rare very poor intercrystalline porosity;
- 2085-2090: DOLOMITE [100] - greyish brown to white, cryptocrystalline to partly microcrystalline, in part micritic, dense to fragmented texture, slightly bituminous, partly fractured, tight;
- 2090-2095: DOLOMITE [100] - white to greyish brown to smoky grey, cryptocrystalline to partly microcrystalline, in part micritic, fragmented to dense texture, slightly bituminous, rare pyrite, fractured, no visible porosity;
- 2095-2100: DOLOMITE [100] - white, cryptocrystalline, dense texture, fragmented, fractured, possible micro fracture porosity, no shows;

2100-2105:	DOLOMITE [100] - white to light brown to brownish grey, cryptocrystalline, dense texture, in part fragmented, fractured, in part limy, calcite infilling, possible micro fracture porosity, no shows;
2105-2110:	DOLOMITE [100] - white to light brown to dark greyish brown, cryptocrystalline to partly very fine crystalline, dense texture, rare euhedral crystals, partly fragmented, slightly bituminous, calcite infilling, fractured, no visible porosity, no shows;
2110-2115:	DOLOMITE [100] - light brown to white, cryptocrystalline to microcrystalline, dense texture, in part fragmented, no visible porosity, no shows;
2115-2120:	DOLOMITE [100] - white to light brownish grey, slightly greyish white, cryptocrystalline to microcrystalline, dense to fragmented texture, rare pyrite, slightly bituminous, no visible porosity, no shows;
2120-2125:	DOLOMITE [100] - white to light to medium brownish grey, partly greyish white, cryptocrystalline to microcrystalline, dense to partly fragmented texture, slightly bituminous, calcite infilling, no visible porosity, no shows;
2125-2130:	DOLOMITE [100] - light brown to white to greyish white, cryptocrystalline to partly microcrystalline, dense texture, partly fragmented, in part bituminous, calcite infilling, no visible porosity, no shows;
2130-2135:	DOLOMITE [100] - white to light to medium brownish grey, partly greyish white, cryptocrystalline to microcrystalline, dense to partly fragmented texture, slightly bituminous, calcite infilling, no visible porosity, no shows;
2135-2140:	DOLOMITE [100] - light brown to tan, microcrystalline to partly very fine crystalline, in part dense texture, slight calcite infilling, no visible porosity, no shows;
2140-2145:	DOLOMITE [100] - light brown to dark brownish grey, white, cryptocrystalline to microcrystalline, dense texture, in part fragmented, trace pyrite, no visible porosity, no shows;
2145-2150:	DOLOMITE [100] - light brown to dark greyish brown, cryptocrystalline to microcrystalline, dense to partly fragmental texture, rare subhedral to euhedral crystals, slightly bituminous, slight calcite infilling, no visible porosity, no shows;
2150-2155:	DOLOMITE [100] - light brown to dark brownish grey, cryptocrystalline to partly microcrystalline, dense to partly fragmental texture, in part limy, no visible porosity, no shows;
2155-2160:	DOLOMITE [100] - mottled brownish grey to light brown, in part dark brownish black, cryptocrystalline to partly very fine crystalline, dense to partly fragmented texture, partly sucrosic, in part bituminous, no visible to patchy very poor intercrystalline porosity, no shows, chalky offwhite limestone stringers;
2160-2165:	DOLOMITE [100] - mottled brownish grey to brownish white, cryptocrystalline to partly microcrystalline, dense texture, minor calcite infilling, chalky limestone stringers, no visible porosity, no shows;

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2165-2170:	DOLOMITE [100] - mottled brownish grey to light brown, in part dark brownish black, cryptocrystalline to partly very fine crystalline, dense to partly fragmented texture, partly sucrosic, in part bituminous, no visible porosity, no shows, chalky offwhite limestone stringers;
2170-2175:	DOLOMITE [100] - mottled brownish grey to light brown, in part dark brownish black, cryptocrystalline to partly microcrystalline, dense to partly fragmented texture, in part bituminous, no visible to porosity, no shows;
2175-2180:	DOLOMITE [100] - light brown to tan, cryptocrystalline to partly microcrystalline, partly micritic, dense to smooth texture, no visible porosity, no shows;
2180-2185:	DOLOMITE [85] - mottled brownish white to greyish brown, microcrystalline, dense texture, in part calcareous, no visible porosity, no shows; LIMESTONE [15] - greyish offwhite to greyish brown, microcrystalline, slight chalky texture, partly argillaceous, slightly dolomitic, no visible porosity;
2185-2190:	DOLOMITE [100] - greyish brown to grey to brownish white, microcrystalline, dense texture, slightly calcareous, no visible porosity, no shows;
2190-2195:	DOLOMITE [100] - greyish brown to grey to brownish white, microcrystalline, dense texture, slightly calcareous, no visible porosity, no shows;
2195-2200:	DOLOMITE [100] - brownish grey to brownish white, microcrystalline, dense texture, rare calcite infilling, no visible porosity, no shows;
2200-2205:	DOLOMITE [100] - light brown to tan, cryptocrystalline to microcrystalline, in part micritic, dense texture, no visible porosity no shows;
2205-2210:	DOLOMITE [100] - light brown to tan to greyish brown, microcrystalline, micritic, dense texture, in part argillaceous, no visible porosity, no shows;
2210-2215:	DOLOMITE [100] - light to dark brown to brownish grey, micritic, microcrystalline, dense texture, argillaceous, minor calcite infilling, no visible porosity, no shows;
2215-2220:	DOLOMITE [100] - light to dark brown, brownish grey to tan, micritic, in part microcrystalline, dense texture, partly argillaceous, minor chalky limestone stringers, no visible porosity, no shows;
2220-2225:	DOLOMITE [70] - mottled brownish white to brownish grey, microcrystalline, dense texture, calcareous, no visible porosity, no shows; LIMESTONE [30] - greyish offwhite to greyish brown, microcrystalline, slight chalky texture, no visible porosity;
2225-2230:	DOLOMITE [95] - mottled brownish white to brownish grey, in part white microcrystalline, dense texture, calcareous, partly fractured, no visible porosity, no shows; LIMESTONE [05] - greyish offwhite to greyish brown, microcrystalline, slight chalky texture, no visible porosity;

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2230-2235:	DOLOMITE [95] - mottled brownish white to dark brownish grey, in part white microcrystalline, dense texture, calcareous, partly fractured, trace pyrite, no visible porosity, no shows; LIMESTONE [05] - greyish offwhite to greyish brown, microcrystalline, slight chalky texture, no visible porosity;
2235-2240:	DOLOMITE [100] - light brown to tan, micritic, in part microcrystalline, dense texture, minor shaley partings, no visible porosity, no shows;
2240-2245:	DOLOMITE [100] - light to dark brown to tan, in part light yellow, micritic, in part microcrystalline, dense to slight chalky texture, firm to soft, in part argillaceous, slightly anhydritic, partly calcareous, no visible porosity, faint yellow ring cut;
2245-2247.5:	DOLOMITE [100] - light to dark brown to brownish grey to light yellow, micritic, partly microcrystalline, dense to chalky texture, firm to soft, argillaceous, partly anhydritic, shaley partings, no visible porosity, faint yellow ring cut;
2247.4-2250:	DOLOMITE [100] - light brown to tan to partly dark brownish grey, micritic, microcrystalline, dense texture, firm, no visible porosity, no shows;
2250-2255:	DOLOMITE [100] - light to dark brown to greyish brown, mottled brown, microcrystalline, dense texture, firm, partly calcareous, slightly argillaceous, mineral filled fractures, rare sand grains, no visible porosity, no shows;
2255-2257.5:	DOLOMITE [90] - greyish brown to mottled brown, microcrystalline, dense texture, firm, partly calcareous, pyrite, mineral filled fractures, patchy micro porosity, no shows, minor stringers of light brown very fine crystalline dolostone; LIMESTONE [10] - greyish offwhite, microcrystalline, chalky texture, partly argillaceous, no visible porosity;
2257.5-2260:	DOLOMITE [100] - dark brownish grey to blackish brown, microcrystalline, dense texture, argillaceous, no visible porosity, no shows;
2260-2265:	DOLOMITE [95] - light to dark brown, micritic, microcrystalline, dense texture, in part argillaceous, pyrite, shale partings, calcareous, no visible porosity, no shows; LIMESTONE [05] - offwhite, microcrystalline, chalky texture, argillaceous, no visible porosity;
2265-2270:	DOLOMITE [90] - light to dark brown, micritic, microcrystalline, dense texture, in part argillaceous, calcareous, no visible porosity, no shows; LIMESTONE [10] - offwhite, microcrystalline, chalky texture, argillaceous, no visible porosity;
2270-2275:	DOLOMITE [80] - light to dark brown, mottled, micritic, microcrystalline, dense texture, in part argillaceous, calcareous, no visible porosity, no shows; LIMESTONE [20] - offwhite, microcrystalline, chalky texture, argillaceous, no visible porosity;
2275-2280:	DOLOMITE [100] - dark brown to brownish black, microcrystalline, dense texture, argillaceous, calcareous, no visible porosity, no shows;

TOTAL DEPTH 2280.0 m January 14,1999 @ 03:45 hours

