

N.E.B. COPY

## Wellsite Geological Report

on deviated re-entry of

Para et al Bovie C-76A  
60° 20' 122° 45'

for

**Paramount Resources Ltd.**

Prepared by:

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1-403-621-1276

MICROFILMED  
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# Deviation / Directional Survey Report

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<b>Directional Drilling Company:</b>	United Geocom
<b>Directional Drillers:</b>	Trevor Huculak / Dave Goin
<b>Measured While Drilling (MWD) Hands:</b>	Fritz Hudon / Clayton Reynar
<b>Survey Type:</b>	magnetic
<b>Survey Mode:</b>	MWD
<b>Survey Date:</b>	12/16/98
<b>Survey Calculation Method:</b>	minimum curvature
<b>Vertical Section Calculated on:</b>	225.00 ° plane

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## Survey Tie-In Information

<b>Tie-In Depths</b>	<b>Measured Depth:</b>	<b>True Vertical Depth (TVD):</b>
<b>Tie-In Node</b>	<b>Latitude:</b>	<b>Longitude:</b>
<b>Tie-In Co-Ordinates</b>		
N / S:		
E / W:		

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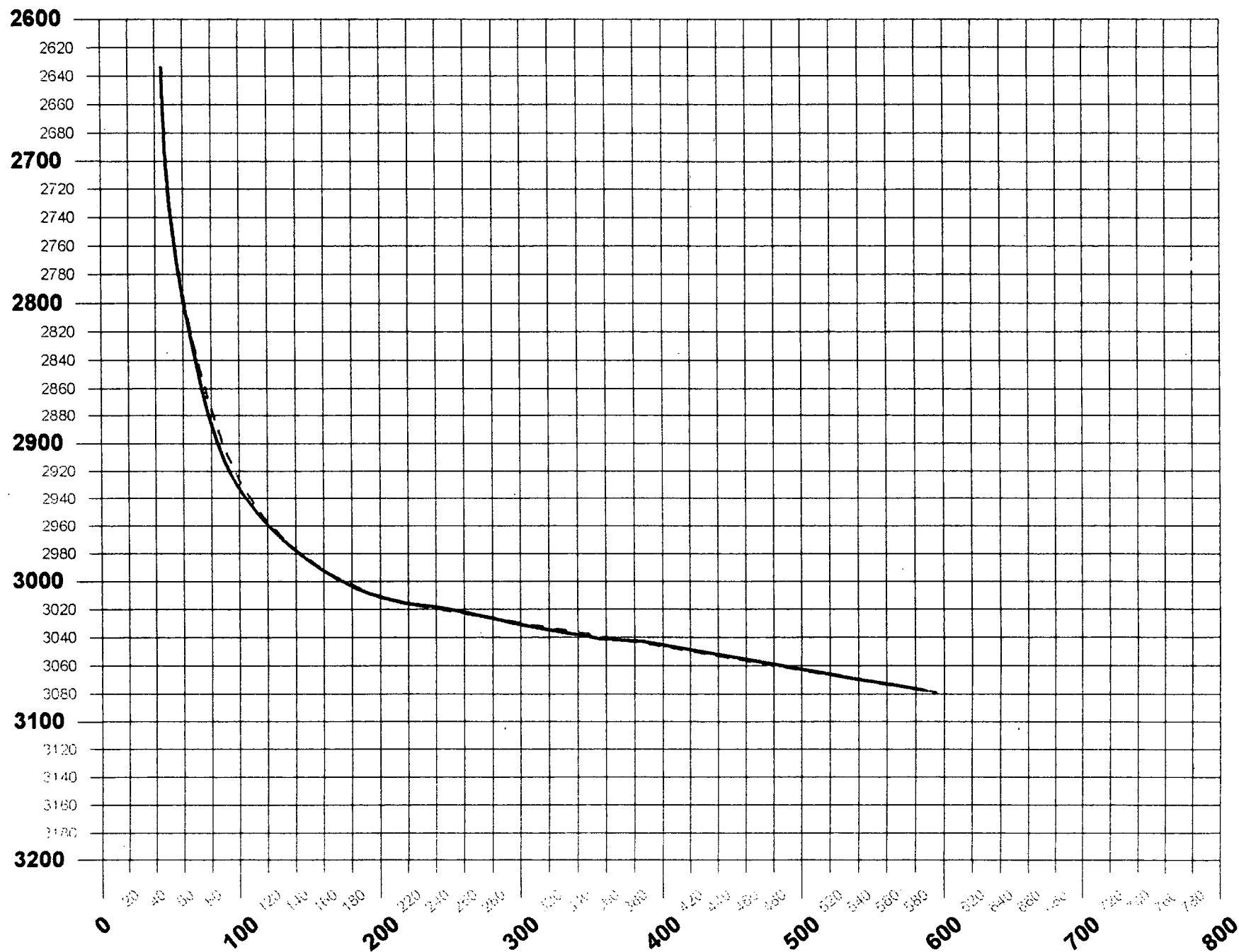
## Kick-Off (Whipstock) Information

<b>Kick-Off Depths</b>	<b>Measured Depth:</b>	2,657.00	<b>True Vertical Depth (TVD):</b>	2,655.90
<b>Kick-Off Node</b>	<b>Latitude:</b>	60.1514830	<b>Longitude:</b>	122.5922340
<b>Kick-Off Co-Ordinates</b>				
N / S: 3.1m South of NE corner of C-76				
E / W: 280.0m West of NE corner of C-76				

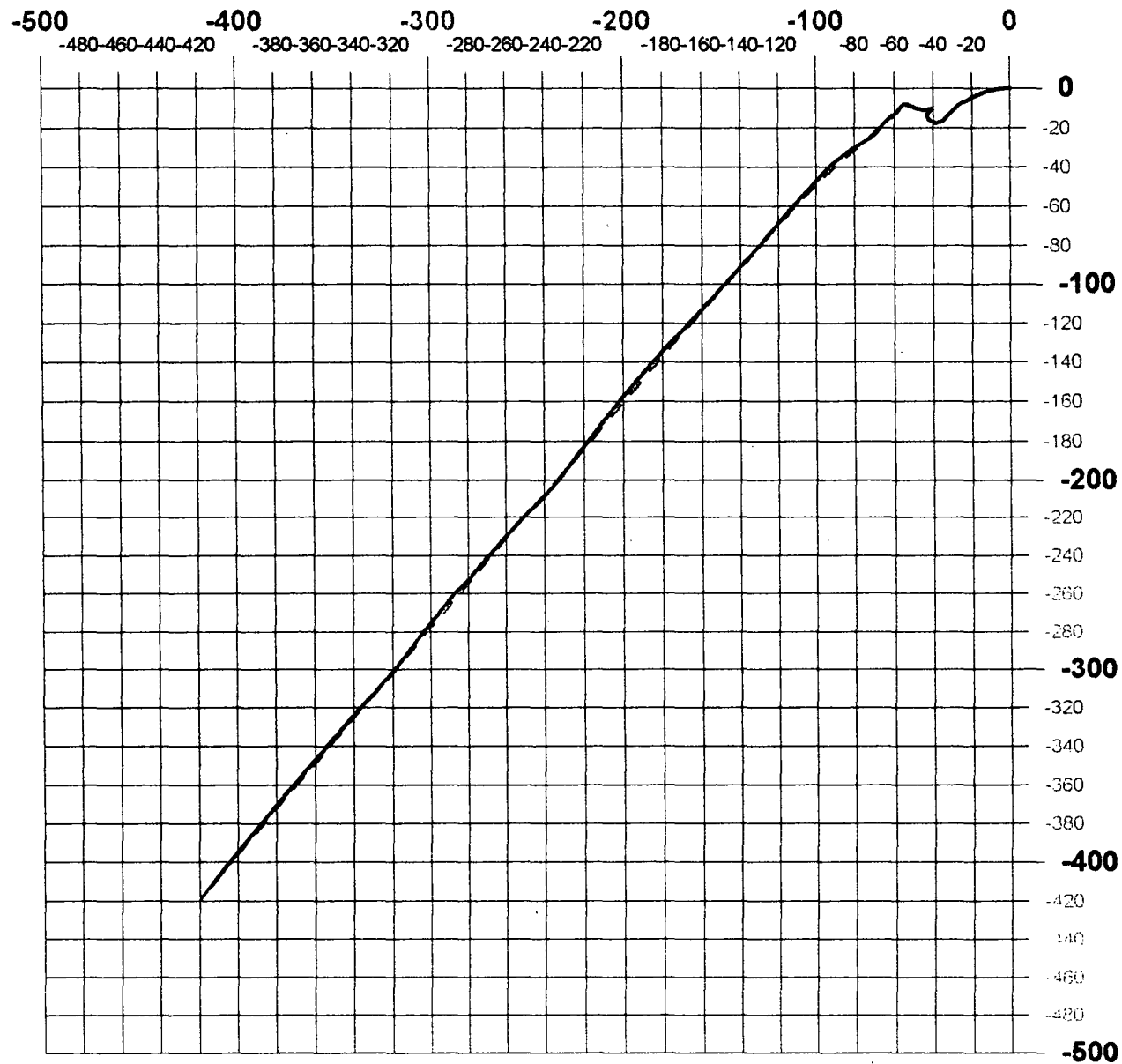
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**Remarks:** Surveyed with gyro to 2335m. Overheating problems. Numerous trips for washed pulsor subs.

# PARAMOUNT etal BOVIE LAKE C76A



**PARAMOUNT etal BOVIE LAKE C76A**  
**V-SECTION CALCULATED ON AZI 225°**



# Survey Points

Storage Units: Metric

Measured Depth	T.V.D.	Drift Angle (°)	Azimuth (°)	+N / -S Distance	+E / -W Distance	Vertical Section	DogLeg Severity
122.20	122.19	1.420	1.42	-0.30	-1.51	1.10	0.35
275.00	262.72	2.700	274.89	-0.53	-6.98	5.31	0.25
427.80	427.59	1.250	251.99	-1.51	-12.13	9.64	0.29
580.60	580.36	0.990	245.65	-2.57	-14.92	12.36	0.06
733.40	733.11	1.860	249.43	-3.98	-18.44	15.86	0.17
886.20	885.84	1.590	238.28	-5.97	-22.57	20.18	0.08
1,039.00	1,038.57	2.060	237.76	-8.55	-26.69	24.92	0.09
1,191.80	1,191.24	2.640	222.55	-12.60	-31.40	31.11	0.17
1,344.60	1,343.94	1.400	222.93	-16.56	-35.05	36.50	0.24
1,497.30	1,496.59	1.660	277.23	-17.65	-38.51	39.71	0.28
1,650.10	1,649.33	1.750	308.13	-15.93	-42.54	41.35	0.18
1,802.90	1,802.09	1.310	40.65	-13.17	-43.24	39.89	0.44
1,955.70	1,954.86	0.980	46.47	-10.94	-41.16	36.84	0.07
2,108.50	2,107.66	0.860	244.96	-10.53	-41.25	36.61	0.36
2,261.30	2,260.41	1.990	269.26	-11.05	-44.94	39.59	0.25
2,414.10	2,413.14	1.430	300.25	-10.12	-49.24	41.97	0.21
2,566.90	2,565.89	1.670	286.32	-8.53	-53.02	43.53	0.09
2,635.00	2,633.95	1.930	276.19	-8.13	-55.12	44.72	0.18
2,677.81	2,676.73	3.050	216.13	-8.97	-56.50	46.30	1.87
2,687.56	2,686.46	2.960	213.38	-9.39	-56.80	46.80	0.52
2,697.30	2,696.19	3.520	211.74	-9.86	-57.09	47.34	1.75
2,707.20	2,705.88	4.510	214.34	-10.80	-57.43	48.25	3.11
2,716.75	2,715.58	5.260	212.41	-11.49	-57.89	49.06	2.37
2,726.42	2,725.21	5.230	218.92	-12.21	-59.08	50.90	4.41
2,736.10	2,734.84	6.300	228.32	-12.91	-59.08	50.90	4.41
2,745.84	2,744.51	7.840	233.84	-13.66	-60.01	52.09	5.18
2,755.49	2,754.07	7.560	235.51	-14.40	-61.07	53.36	1.11
2,765.14	2,763.63	7.950	230.44	-14.81	-62.13	54.41	2.45
2,774.90	2,773.29	8.720	222.72	-15.78	-63.16	55.82	4.17
2,784.25	2,782.53	8.870	222.36	-16.84	-64.12	57.25	0.51
2,793.96	2,792.09	10.930	221.67	-18.08	-65.24	58.91	6.38
2,803.16	2,801.11	11.890	221.24	-19.44	-66.44	60.73	3.14
2,813.41	2,811.14	12.050	216.55	-21.10	-67.78	62.84	2.88
2,823.16	2,820.67	12.080	220.92	-22.69	69.05	64.87	2.81
2,842.22	2,839.33	11.770	235.00	-25.31	-71.95	68.77	4.59
2,851.45	2,848.35	12.240	239.45	-26.35	-73.56	70.65	3.37

2,861.14	2,857.81	12.900	244.09	-27.34	-75.42	72.66	3.73
2,870.88	2,867.29	13.320	241.60	-28.84	-77.29	75.04	5.20
2,880.58	2,876.68	15.780	236.19	-30.10	-79.37	77.41	8.68
2,890.31	2,885.97	18.660	238.35	-31.66	-81.79	80.22	9.09
2,900.02	2,895.18	18.320	232.90	-33.39	-84.33	83.25	5.44
2,909.74	2,904.37	19.840	232.84	-35.31	-86.87	86.39	4.69
2,919.11	2,913.09	23.340	230.44	-37.04	-89.60	89.55	11.55
2,928.84	2,921.92	26.330	226.04	-39.77	-92.64	93.62	10.83
2,938.53	2,930.46	29.830	225.86	-42.94	-95.91	98.18	10.84
2,948.21	2,938.66	34.520	221.93	-46.66	-99.48	103.33	15.91
2,957.93	2,946.43	39.120	222.70	-50.97	-103.40	109.15	14.27
2,967.32	2,953.64	40.670	224.90	-55.32	-107.56	115.17	6.84
2,977.04	2,960.87	43.110	222.42	-60.02	-112.04	121.66	9.10
2,986.95	2,967.96	45.660	221.21	-65.18	-116.66	128.58	8.13
2,996.48	2,974.44	48.640	221.23	-70.44	-121.26	135.55	9.38
3,006.22	2,980.69	51.480	221.28	-76.05	-126.18	143.00	8.75
3,015.93	2,986.56	54.090	222.90	-81.78	-131.38	150.72	8.99
3,025.66	2,992.03	57.450	222.14	-87.71	-136.81	158.76	10.54
3,035.35	2,997.03	60.530	221.45	-93.90	-142.34	167.05	9.71
3,045.04	3,001.58	63.460	222.94	-100.49	-147.80	175.57	13.06
3,054.56	3,005.53	67.490	222.40	-107.24	-153.22	184.17	13.31
3,064.47	3,008.93	72.340	222.94	-113.44	-160.27	192.05	14.76
3,074.16	3,011.61	75.470	223.41	-120.23	-166.64	200.58	9.79
3,083.83	3,013.97	76.300	222.90	-127.07	-173.05	209.18	3.00
3,093.53	3,015.88	81.050	222.52	-134.06	-179.50	217.86	14.74
3,103.23	3,017.14	83.940	220.81	-141.24	-185.89	226.57	10.36
3,113.91	3,018.25	84.190	220.97	-149.27	-192.85	236.13	0.83
3,123.55	3,019.53	80.400	220.97	-156.36	-199.25	251.45	11.79
3,133.25	3,021.19	79.900	220.97	-163.69	-205.41	260.99	1.55
3,142.95	3,022.92	79.700	217.17	-171.42	-211.02	261.57	2.90
3,152.69	3,024.65	79.800	218.10	-179.01	-216.87	269.95	2.84
3,162.24	3,026.43	78.700	218.00	-186.39	-222.66	278.78	3.47
3,171.97	3,028.40	78.000	216.80	-193.96	-228.44	286.49	4.22
3,181.68	3,030.27	79.800	218.40	-201.51	-234.26	294.81	7.38
3,191.38	3,031.94	80.230	220.71	-208.88	-240.34	303.31	7.20
3,201.09	3,033.53	80.900	222.71	-216.03	-246.71	311.99	6.37
3,210.77	3,035.06	80.900	222.90	-223.04	-253.21	320.73	0.58
3,220.52	3,036.59	81.000	223.00	-230.09	-259.77	329.54	0.43
3,230.21	3,038.11	81.000	222.80	-237.10	-266.28	338.29	0.61
3,239.91	3,039.64	80.900	222.10	-244.17	-272.75	347.02	2.16

3,249.61	3,041.27	79.700	222.00	-251.27	-279.15	355.71	3.72
3,259.29	3,042.96	80.100	221.40	-258.26	285.63	384.59	2.21
3,269.03	3,044.57	80.900	220.60	-265.51	-291.94	394.17	3.46
3,278.38	3,046.07	80.600	218.80	-272.61	-297.83	403.36	5.78
3,288.09	3,047.67	80.400	217.20	-280.15	-303.73	412.87	4.91
3,297.82	3,049.30	80.400	217.30	-287.92	-309.39	420.42	0.30
3,307.55	3,050.93	80.400	217.60	-295.53	-315.23	429.99	0.91
3,317.29	3,052.55	80.400	219.30	-303.05	-321.20	439.58	5.16
3,327.01	3,054.18	80.200	221.00	-310.25	-327.52	450.97	5.21
3,336.69	3,055.82	80.300	222.90	-317.34	-333.89	460.50	5.81
3,346.12	3,057.44	79.900	221.70	-324.22	-340.15	469.77	3.97
3,355.79	3,059.11	80.200	220.60	-331.39	-346.41	479.28	3.49
3,363.42	3,060.42	80.200	221.20	-337.07	-351.34	486.77	2.32
3,381.49	3,063.51	80.100	220.40	-350.54	-362.97	504.53	1.32
3,391.18	3,065.17	80.200	220.40	-357.81	-369.16	514.05	0.31
3,400.92	3,066.89	79.400	220.30	-365.12	-375.36	523.60	2.48
3,410.64	3,068.68	79.400	219.90	-372.43	-381.52	533.12	1.21
3,420.36	3,070.32	81.200	219.90	-379.78	-387.66	542.66	5.56
3,430.03	3,071.81	81.000	219.90	-387.11	-393.79	552.18	0.62
3,439.71	3,073.39	80.200	218.70	-394.50	-399.84	561.68	4.43
3,449.45	3,075.06	80.000	218.20	-402.12	-405.71	571.22	1.64
3,464.00	3,077.56	79.700	217.45	-413.44	-414.49	585.43	1.64



## Formation Top Summary

Storage Units:

Metric

Kelly Bushing Elevation:

432.91

Casing Flange Elevation:

Ground Elevation:

426.80

**\*\* All Depths measured from Kelly Bushing Elevation \*\***

<b>Group Formation Member</b>	<b>Prognosis (TVD)</b>	<b>Sample Top (MD)</b>	<b>Sample Top (TVD)</b>	<b>Log Top (MD)</b>	<b>Log Top (TVD)</b>	<b>Subsea</b>	<b>Thickness</b>
<b>Muskwa</b>	2,856.00	2,862.00	2,856.60			-2,423.69	35.24
<b>Slave Point</b>	2,889.00	2,896.50	2,891.84			-2,458.93	
<b>Watt Mountain</b>	3,007.00					-2,574.09	11.00
<b>Sulphur Point</b>	3,018.00	3,105.00	3,017.30			-2,584.39	

## Formation Evaluations

Storage Units:

Metric

Kelly Bushing Elevation: 432.91  
Ground Elevation: 426.80

Casing Flange Elevation:

*All Depths Measured from Kelly Bushing Elevation*

Group:  
Formation: Muskwa  
Member:  
Boundary Type: conformable  
Fault Type:

Era: Paleozoic  
Series: upper  
Period: Devonian  
Stage:  
Age (Approx): Million years.

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2,862.00	2,856.60	-2,423.69	35.24
Log Top				

**Evaluation:**

Muskwa is SHALE dark gray, dark gray to black, fissile, platy to blocky, slickenside in part, common nodular and disseminated pyrite

**Conclusion:**

No reservoir potential.

Group:  
Formation: Slave Point  
Member:  
Boundary Type: conformable  
Fault Type:

Era: Paleozoic  
Series: middle  
Period: Devonian  
Stage:  
Age (Approx): Million years.

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	2,896.50	2,891.84	-2,458.93	
Log Top				

**Evaluation:**

The upper Slave Point was drilled underbalanced and as such a dramatic gas increase was recorded by the gas detector upon penetration. The high levels of background gas make it difficult to determine what is a significant gas response. It does indicate however, that the upper 40m MD of the Slave Point is highly charged with gas. The upper Slave Point has interbeds of LIMESTONE but is predominately DOLOMITE mottled light to dark gray, cryptocrystalline to finely crystalline, mudstone to packstone, slightly argillaceous, intercrystalline bitumen infilling, trace of intercrystalline porosity 3-4%, DOLOMITE sparry, clean, white to translucent, pearly, lithographic to cryptocrystalline, tight, minor coarse dolomite crystals, clear, drusy, vuggy porosity 6-8%, very low permeability. The intercrystalline porosity occurs in the upper 10 meters. The predominant porosity is vuggy and appears to be associated almost entirely with the very low permeability recrystallized spar. The lower Slave point is predominantly tight LIMESTONE with a little vuggy porosity in recrystallized dolomites between 3025 and 3045m and a possible porous fracture zone from 3088.4 to 3088.6m MD.

**Conclusion:**

Good gas potential but not much for permeability. Probably the best horizon for a horizontal program.

## Formation Evaluations

Storage Units:

Metric

Kelly Bushing Elevation: 432.91  
Ground Elevation: 426.80

Casing Flange Elevation:

*All Depths Measured from Kelly Bushing Elevation*

Group:  
Formation: Watt Mountain  
Member:  
Boundary Type: disconformable  
Fault Type:

Era: Paleozoic  
Series: middle  
Period: Devonian  
Stage:  
Age (Approx): Million years.

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top				
Log Top				

**Evaluation:**

Not identified in sample.

**Conclusion:**

Group:  
Formation: Sulphur Point  
Member:  
Boundary Type: conformable  
Fault Type:

Era: Paleozoic  
Series: middle  
Period: Devonian  
Stage:  
Age (Approx): Million years.

	Measured Depth	True Vertical Depth	Subsea	Thickness
Sample Top	3,105.00	3,017.30	-2,584.39	
Log Top				

**Evaluation:**

Had a drilling break at 3105.2 to 3106m and from 3107.8 to 3108.5m. 60 minutes later we took a gas kick and shut the well in. SICP was 800 kpa. No sample, washed away by the increased flow. Indications are that there are two porous fracture zones in the LIMESTONE country rock. The upper fracture zone appears to be dominated by dolomite and the lower by a vitreous crystalline chert lining. There is disseminated pyrite associated with both. There is probably a third healed fracture zone at 3111m but it doesn't seem to be porous. There is a probable fracture at 3148.2m in LIMESTONE with associated CHERT. There was a little liberated gas in vuggy recrystallized DOLOMITE from 3154 to 3157m but no apparent permeability. The SULPHUR POINT above 3168m is predominantly tight LIMESTONE whereas below this point it is almost exclusively DOLOMITE mottled medium to dark gray brown, light gray brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no apparent intercrystalline porosity, common sparry recrystallized dolomite, white to translucent, pearly, scattered vugs, occasional CHERT. Possible healed fractures in DOLOMITE at 3221.5 and 3231.5m. No effective porosity or permeability. Possible fracture at 3277.4 to 3277.6m in DOLOMITE. Slight gas effect. Probable fracture porosity from 3364.4 to 3364.8m MD. Minor gas effect. Had a little liberated gas from 3402 to 3409m. Probable scattered vuggy porosity. Probable fracture porosity in DOLOMITE from 3406.6 to 3407.4m and 3423.6 to 3424.0m MD. Minor gas effect from both zones. Called TD in a LIMESTONE at 3464m ( 3077.5 TVD ) when Pulsur sub washed out.

**Conclusion:**

Reservoir potential in fractures throughout section.

## Sample Descriptions

Storage Units:      Metric

2,655.00 to 2,660.00 (5.00)	100% <b>CEMENT</b> plug, casing scrapings, etc. trace of SHALE dark gray, fissile, platy
2,660.00 to 2,665.00 (5.00)	70% <b>CEMENT</b> as above
	30% <b>SHALE</b> medium to dark gray, fissile, platy
2,665.00 to 2,670.00 (5.00)	90% <b>SHALE</b> medium to dark gray, fissile, platy, slightly dolomitic in part
	10% <b>CEMENT</b> as above
2,670.00 to 2,680.00 (10.00)	100% <b>SHALE</b> medium gray, medium to dark gray, fissile, platy to blocky
2,680.00 to 2,685.00 (5.00)	100% <b>SHALE</b> medium gray, fissile, platy to blocky
2,685.00 to 2,690.00 (5.00)	100% <b>SHALE</b> medium gray, medium to dark gray, fissile, platy to blocky
2,690.00 to 2,695.00 (5.00)	100% <b>SHALE</b> medium gray, medium to dark gray, fissile, platy to blocky
2,695.00 to 2,700.00 (5.00)	100% <b>SHALE</b> medium gray, medium to dark gray, fissile, platy to blocky
2,700.00 to 2,705.00 (5.00)	100% <b>SHALE</b> medium gym medium to dark gray, fissile, platy to blocky
2,705.00 to 2,710.00 (5.00)	100% <b>SHALE</b> medium gray, medium to dark gray, fissile, platy to blocky
2,710.00 to 2,715.00 (5.00)	100% <b>SHALE</b> medium gray, medium to dark gray, fissile, platy to blocky
2,715.00 to 2,720.00 (5.00)	100% <b>SHALE</b> medium to dark gray, fissile, platy to blocky
2,720.00 to 2,725.00 (5.00)	100% <b>SHALE</b> medium to dark gray, fissile, platy to blocky
2,725.00 to 2,730.00 (5.00)	100% <b>SHALE</b> medium to dark gray, fissile, platy to blocky
2,730.00 to 2,735.00 (5.00)	100% <b>SHALE</b> medium to dark gray, fissile, platy to blocky
2,735.00 to 2,740.00 (5.00)	100% <b>SHALE</b> medium to dark gray, fissile, platy to blocky

## Sample Descriptions

Storage Units: Metric

2,745.00 to 2,750.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,750.00 to 2,755.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,755.00 to 2,760.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,760.00 to 2,765.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,765.00 to 2,770.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,770.00 to 2,775.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,775.00 to 2,780.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,780.00 to 2,785.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,785.00 to 2,790.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,790.00 to 2,795.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,795.00 to 2,800.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,800.00 to 2,805.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,805.00 to 2,810.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,810.00 to 2,815.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,815.00 to 2,820.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,820.00 to 2,825.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, fissile, platy to blocky	
2,825.00 to 2,830.00	100% <b>SHALE</b>	
(5.00)	dark gray to black, fissile, platy, slickenside in part, minor disseminated pyrite	
2,830.00 to 2,835.00	100% <b>SHALE</b>	
(5.00)	medium to dark gray, dark gray, fissile, platy to blocky, slickenside in part	

## Sample Descriptions

Storage Units: Metric

2,835.00 to 2,840.00 (5.00)	100% <b>SHALE</b> medium to dark gray, fissile, platy to blocky, minor dark gray slickenside
2,840.00 to 2,845.00 (5.00)	100% <b>SHALE</b> medium to dark gray, medium gray, fissile, platy to blocky, trace slickenside, trace of disseminated pyrite
2,845.00 to 2,850.00 (5.00)	100% <b>SHALE</b> medium to dark gray, medium gray, fissile, platy to blocky, trace slickenside, trace of disseminated pyrite
2,850.00 to 2,855.00 (5.00)	100% <b>SHALE</b> medium to dark gray, medium gray, fissile, platy to blocky, trace slickenside, trace of disseminated pyrite
2,855.00 to 2,860.00 (5.00)	100% <b>SHALE</b> medium to dark gray, fissile, platy to blocky, slickenside in part, common disseminated and nodular pyrite
2,860.00 to 2,865.00 (5.00)	100% <b>SHALE</b> medium to dark gray, dark gray, fissile, predominately platy, slickenside in part, common nodular and disseminated pyrite
2,865.00 to 2,870.00 (5.00)	100% <b>SHALE</b> dark gray, dark gray to black, fissile, platy to blocky, slickenside in part, common nodular and disseminated pyrite
2,870.00 to 2,875.00 (5.00)	100% <b>SHALE</b> dark gray, dark gray to black, fissile, platy to blocky, slickenside in part, common nodular and disseminated pyrite
2,875.00 to 2,880.00 (5.00)	100% <b>SHALE</b> dark gray, dark gray to black, fissile, platy to blocky, common nodular and disseminated pyrite
2,880.00 to 2,885.00 (5.00)	100% <b>SHALE</b> dark gray, dark gray to black, fissile, platy to blocky, minor disseminated pyrite
2,885.00 to 2,890.00 (5.00)	100% <b>SHALE</b> dark gray, dark gray to black, fissile, platy to blocky, minor disseminated pyrite, trace with calcareous laminae
2,890.00 to 2,895.00 (5.00)	50% <b>SHALE</b> as above
	40% <b>LIMESTONE</b> mottled light to medium gray brown, predominately cryptocrystalline mudstone, argillaceous, no visible porosity
	10% <b>DOLOMITE</b> white to translucent, sparry, cryptocrystalline to finely crystalline, mudstone to wackest, no visible porosity

2,895.00 to 2,900.00 (5.00)	60%	<b>DOLOMITE</b> 40 % mottled light to medium gray, cryptocrystalline to finely crystalline, mudstone to packstone, slightly argillaceous, intercrystalline bitumen infilling, trace of intercrystalline porosity 3-4% DOLOMITE 20% sparry, clean, white to translucent, pearly, lithographic to cryptocrystalline, tight, minor coarse dolomite crystals, clear, drusy, vuggy porosity 6-8%, very low permeability
	20%	<b>LIMESTONE</b> as above
	20%	<b>SHALE</b> as above
2,900.00 to 2,905.00 (5.00)	90%	<b>DOLOMITE</b> 60% mottled light to dark gray, gray white, microcrystalline to finely crystalline, wackestone to packstone, slightly argillaceous, bitumen and argillaceous infilling, no visible porosity, DOLOMITE 30% sparry, clean, white to translucent, pearly, lithographic to cryptocrystalline, tight, trace of coarse clear dolomite crystals, probable vuggy porosity to 8%
	10%	<b>SHALE</b> as above
2,905.00 to 2,910.00 (5.00)	70%	<b>DOLOMITE</b> 40% medium gray, cryptocrystalline to finely crystalline, wackestone to packstone, minor argillaceous infilling, intercrystalline bitumen in part, no visible porosity, DOLOMITE 30% sparry, clean, white to translucent, pearly, trace of clear drusy crystals
	20%	<b>LIMESTONE</b> dark gray brown, cryptocrystalline, slightly argillaceous in part, tight
	10%	<b>SHALE</b> dark gray, slightly calcareous, fissile, platy
2,910.00 to 2,915.00 (5.00)	80%	<b>DOLOMITE</b> 40%, mottled light to dark gray, gray white, microcrystalline to finely crystalline, wackestone to packstone, intercrystalline bitumen in part, no visible porosity, DOLOMITE 40% sparry, white to translucent, clean, lithographic to finely crystalline, trace of drusy dolomite crystals
	20%	<b>SHALE</b> dark gray brown, slightly calcareous, fissile, platy
2,915.00 to 2,920.00 (5.00)	80%	<b>DOLOMITE</b> predominately light gray white to translucent, cryptocrystalline to medium crystalline, wackestone to packstone, common intercrystalline bitumen, no visible porosity
	20%	<b>SHALE</b> dark gray to black, fissile, platy

## Sample Descriptions

Storage Units:

Metric

2,920.00 to 2,925.00 (5.00)	60%	<b>DOLOMITE</b> predominately light gray white to translucent, cryptocrystalline to medium crystalline, wackestone to packstone, common intercrystalline bitumen, no visible porosity
	30%	<b>LIMESTONE</b> medium gray brown, mottled light to dark gray brown, cryptocrystalline to microcrystalline, tight
	10%	<b>SHALE</b> as above
2,925.00 to 2,930.00 (5.00)	60%	<b>DOLOMITE</b> light gray, white to translucent, cryptocrystalline to finely crystalline, wackestone to packstone, intxn bitumen in part, no visible porosity
	30%	<b>LIMESTONE</b> medium gray brown, mottled light to dark gray brown, cryptocrystalline to microcrystalline, tight
	10%	<b>SHALE</b> dark gray to black, fissile, platy
2,930.00 to 2,935.00 (5.00)	60%	<b>DOLOMITE</b> as above
	40%	<b>LIMESTONE</b> as above
2,935.00 to 2,940.00 (5.00)	80%	<b>LIMESTONE</b> buff to light brown mottled dark, dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, no visible porosity
	20%	<b>DOLOMITE</b> as above
2,940.00 to 2,945.00 (5.00)	100%	<b>LIMESTONE</b> buff, light brown, medium to dark brown, mottled in part, cryptocrystalline, mudstone, tight
2,945.00 to 2,950.00 (5.00)	100%	<b>LIMESTONE</b> light brown, buff, medium to dark brown, mottled in part, cryptocrystalline, mudstone, tight
2,950.00 to 2,955.00 (5.00)	100%	<b>LIMESTONE</b> buff, light brown, mottled medium to dark gray brown, cryptocrystalline, mudstone, dolomitic, no visible porosity, minor SHALE, dark brown, calcareous, fissile, platy
2,955.00 to 2,960.00 (5.00)	100%	<b>LIMESTONE</b> light brown to buff, mottled medium to dark brown, slightly argillaceous in part, cryptocrystalline, mudstone, slightly dolomitic, tight, minor SHALE dark gray brown laminae



## Sample Descriptions

Storage Units:      Metric

2,960.00 to 2,965.00 (5.00)	100%	<b>LIMESTONE</b> light gray brown, mottled light to dark gray brown, cryptocrystalline, mudstone, no porosity, minor SHALE laminae
2,965.00 to 2,970.00 (5.00)	100%	<b>LIMESTONE</b> predominately mottled light to medium gray brown, dark gray brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity
2,970.00 to 2,975.00 (5.00)	60%	<b>LIMESTONE</b> as above, dark gray, dark gray brown, argillaceous, cryptocrystalline, trace slickenside, tight
	40%	<b>SHALE</b> dark gray, calcareous to dolomitic, fissile, platy to blocky, slickenside in part
2,975.00 to 2,980.00 (5.00)	70%	<b>SHALE</b> dark gray to black, dark gray brown, calcareous, fissile, platy to blocky, slickenside in part
	30%	<b>LIMESTONE</b> as above
2,980.00 to 2,985.00 (5.00)	90%	<b>SHALE</b> dark gray to black, calcareous, fissile, platy to blocky, slickenside in part
	10%	<b>LIMESTONE</b> as above
2,985.00 to 2,990.00 (5.00)	60%	<b>SHALE</b> as above
	40%	<b>LIMESTONE</b> medium to dark gray brown, mottled light in part, cryptocrystalline, mudstone, argillaceous in part, tight
2,990.00 to 2,995.00 (5.00)	90%	<b>LIMESTONE</b> medium gray brown, mottled light in part, cryptocrystalline, mudstone, tight
	10%	<b>SHALE</b> as above
2,995.00 to 3,000.00 (5.00)	90%	<b>LIMESTONE</b> as above
	10%	<b>SHALE</b> as above
3,000.00 to 3,005.00 (5.00)	100%	<b>LIMESTONE</b> mottled light to medium gray brown, medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, argillaceous in part, no porosity, minor SHALE laminae

## Sample Descriptions

Storage Units:

Metric

3,005.00 to 3,010.00 (5.00)	80%	<b>LIMESTONE</b> medium to dark gray, minor light to medium gray, cryptocrystalline, mudstone, argillaceous in part, no porosity
	20%	<b>SHALE</b> dark gray to black, fissile, platy
3,010.00 to 3,015.00 (5.00)	80%	<b>LIMESTONE</b> medium to dark gray brown, mottled light to medium gray brown in part, cryptocrystalline to microcrystalline, predominately mudstone, no visible porosity, trace slickenside
	20%	<b>SHALE</b> dark gray to black, fissile, platy
3,015.00 to 3,020.00 (5.00)	80%	<b>LIMESTONE</b> as above
	20%	<b>SHALE</b> as above
3,020.00 to 3,025.00 (5.00)	90%	<b>LIMESTONE</b> medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, minor wackestone, slickenside in part, no porosity
	10%	<b>SHALE</b> dark gray to black, fissile, platy
3,025.00 to 3,030.00 (5.00)	100%	<b>LIMESTONE</b> medium gray, medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, trace slickenside, no porosity, minor SHALE laminae
3,030.00 to 3,035.00 (5.00)	60%	<b>LIMESTONE</b> as above
	40%	<b>DOLOMITE</b> sparry, white to translucent pearly, clean, lithographic to finely crystalline, trace of intercrystalline bitumen, no visible porosity, minor coarse drusy dolomite crystals, probable vuggy porosity 10-12%
3,035.00 to 3,040.00 (5.00)	80%	<b>DOLOMITE</b> light gray to white translucent, pearly, clean, predominately lithographic, minor finely crystalline, trace of intercrystalline bitumen, no visible porosity, minor coarse dolomite crystals, probable vuggy porosity
	20%	<b>LIMESTONE</b> as above
3,040.00 to 3,045.00 (5.00)	70%	<b>DOLOMITE</b> as above
	30%	<b>LIMESTONE</b> medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, no porosity

## Sample Descriptions

Storage Units:      Metric

3,045.00 to 3,050.00 (5.00)	80%	<b>LIMESTONE</b> medium to dark gray brown, predominately cryptocrystalline, mudstone, tight, trace of bitumen
	20%	<b>DOLOMITE</b> light gray to sparry white to translucent, pearly, predominately lithographic, minor finely crystalline, trace of intercrystalline bitumen, trace of drusy dolomite crystals
3,050.00 to 3,055.00 (5.00)	100%	<b>LIMESTONE</b> medium to dark gray brown, medium gray brown, predominately cryptocrystalline, mudstone, tight, minor DOLOMITE as above
3,055.00 to 3,060.00 (5.00)	100%	<b>LIMESTONE</b> medium to dark brown, mottled light, cryptocrystalline, mudstone, no porosity
3,060.00 to 3,065.00 (5.00)	100%	<b>LIMESTONE</b> medium to dark brown, mottled light, cryptocrystalline, mudstone, tight
3,065.00 to 3,070.00 (5.00)	100%	<b>LIMESTONE</b> mottled light to dark brown, dark gray brown in part, cryptocrystalline, mudstone, minor SHALE laminae, dark gray to black, very calcareous, fissile, platy
3,070.00 to 3,075.00 (5.00)	100%	<b>LIMESTONE</b> medium to dark gray brown, cryptocrystalline, mudstone, tight, common cavings
3,075.00 to 3,080.00 (5.00)	100%	<b>LIMESTONE</b> medium to dark gray brown, mottled light in part, cryptocrystalline, mudstone, no porosity, minor SHALE laminae, dark gray to black, fissile, platy, calcareous
3,080.00 to 3,085.00 (5.00)	100%	<b>LIMESTONE</b> mottled light to dark brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, trace of DOLOMITE light gray, pearly translucent, lithographic to finely crystalline, minor intercrystalline bitumen, no visible porosity
3,085.00 to 3,090.00 (5.00)	100%	<b>LIMESTONE</b> as above
3,090.00 to 3,095.00 (5.00)	100%	<b>LIMESTONE</b> mottled light to dark brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity
3,095.00 to 3,100.00 (5.00)	100%	<b>LIMESTONE</b> mottled medium to light brown, medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, no porosity, trace of sparry veining
3,100.00 to 3,108.00 (8.00)	-1%	<b>No Sample</b> Washed away by gas kick.
3,108.00 to 3,110.00 (2.00)	60%	<b>LIMESTONE</b> mottled light to medium gray brown, cryptocrystalline, mudstone, tight, commonly slickenside, trace of probable fossil fragments

## Sample Descriptions

Storage Units:

Metric

- 3,108.00 to 3,110.00 20% **CHERT**  
(2.00) dark gray to black, vitreous lustre, mass to finely crystalline
- 20% **DOLOMITE**  
clear, white, translucent, light brown to dark gray black, cryptocrystalline to finely crystalline, trace drusy, mudstone to packstone, trace sucrosic, cherty in part, intercrystalline bitumen in part, minor disseminated pyrite, intercrystalline, vuggy and probable fracture porosity
- 3,110.00 to 3,115.00 90% **LIMESTONE**  
(5.00) mottled light to medium gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, minor DOLOMITE as above
- 10% **CHERT**  
dark gray brown to black, clear in part, mass to finely crystalline, vitreous lustre
- 3,115.00 to 3,120.00 90% **LIMESTONE**  
(5.00) mottled light to medium gray brown, medium brown, cryptocrystalline to microcrystalline, predominately wackestone, no porosity
- 5% **CHERT**  
as above
- 5% **SHALE**  
medium gray, fissile, platy slightly calcareous
- 3,120.00 to 3,125.00 80% **LIMESTONE**  
(5.00) medium to dark gray brown, medium gray, predominately cryptocrystalline, mudstone, tight, trace of DOLOMITE white to translucent, mass, trace of drusy crystals
- 20% **CHERT**  
medium to dark gray brown, white to translucent, vitreous lustre
- 3,125.00 to 3,130.00 100% **LIMESTONE**  
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, cherty in part, tight, minor CHERT as above
- 3,130.00 to 3,135.00 100% **LIMESTONE**  
(5.00) mottled light to medium, medium to dark gray brown, predominately microcrystalline, cryptocrystalline in part, mudstone to wackestone, no porosity, common cavings
- 3,135.00 to 3,140.00 100% **LIMESTONE**  
(5.00) mottled medium to dark gray brown, mottled light to medium brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, minor white sparry calcite laminae
- 3,140.00 to 3,145.00 90% **LIMESTONE**  
(5.00) medium to dark gray brown, mottled in part, slightly argillaceous in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity

## Sample Descriptions

Storage Units:      Metric

3,140.00 to 3,145.00 (5.00)	10%	<b>CHERT</b> dark gray brown to black, occasional dolomitic crystal inclusions, vitreous lustre, probable fracture at 3148.2m
3,145.00 to 3,150.00 (5.00)	100%	<b>LIMESTONE</b> light, medium, dark gray brown, mottled, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity
3,150.00 to 3,155.00 (5.00)	50%	<b>DOLOMITE</b> sparry, white, minor translucent, trace coarsely crystalline, trace of intercrystalline porosity with argillaceous infilling, probable minor vuggy porosity
	50%	<b>LIMESTONE</b> dark gray, dark gray brown, argillaceous in part, predominately cryptocrystalline, minor microcrystalline, mudstone, cherty in part, tight
3,155.00 to 3,160.00 (5.00)	60%	<b>LIMESTONE</b> dark gray, dark gray brown, argillaceous in part, cryptocrystalline to microcrystalline, mudstone to wackestone, cherty in part, tight, trace of chert dark gray to clear, vitreous
	40%	<b>DOLOMITE</b> sparry, white to translucent, pearly, occasional coarsely crystalline, trace of intercrystalline porosity, argillaceous infilling
3,160.00 to 3,165.00 (5.00)	50%	<b>DOLOMITE</b> sparry, white, pearly, minor coarsely crystalline, trace of drusy dolomite crystals, minor vuggy porosity, no permeability.
	50%	<b>LIMESTONE</b> medium gray brown, dark gray brown, mottled in part, predominately cryptocrystalline, minor microcrystalline, mudstone to wackestone, no porosity
3,165.00 to 3,170.00 (5.00)	50%	<b>DOLOMITE</b> as above
	50%	<b>LIMESTONE</b> as above
3,170.00 to 3,175.00 (5.00)	70%	<b>LIMESTONE</b> dark gray, dark gray brown, argillaceous in part, cryptocrystalline to microcrystalline, mudstone to wackestone, tight
	30%	<b>DOLOMITE</b> sparry, white, pearly, tight
3,175.00 to 3,180.00 (5.00)	70%	<b>DOLOMITE</b> mottled medium to dark gray brown, clear to light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor DOLOMITE sparry, white to translucent, pearly, tight
	30%	<b>LIMESTONE</b> medium to dark gray brown, cryptocrystalline, mudstone, tight

## Sample Descriptions

Storage Units:      Metric

3,180.00 to 3,185.00 (5.00)	70% <b>DOLOMITE</b> as above
	30% <b>LIMESTONE</b> as above
3,185.00 to 3,190.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, calcareous in part, no visible porosity, minor sparry, white to translucent, mass, tight
3,190.00 to 3,195.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, no visible porosity, minor sparry dolomite, trace of drusy crystals
3,195.00 to 3,200.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, calcareous in part, tight, minor sparry dolomite veining
3,200.00 to 3,205.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, cryptocrystalline to microcrystalline, predominately mudstone, slightly argillaceous, trace of sparry dolomite
3,205.00 to 3,210.00 (5.00)	100% <b>DOLOMITE</b> mottled dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, tight, minor dark gray SHALE laminae, trace of sparry dolomite
3,210.00 to 3,215.00 (5.00)	100% <b>DOLOMITE</b> medium to dark gray brown, predominately microcrystalline, cryptocrystalline in part, mudstone to wackestone, trace of intercrystalline porosity, minor sparry white, pearly, trace of clear drusy dolomite crystals, probable scattered vuggy porosity, no apparent permeability
3,215.00 to 3,220.00 (5.00)	100% <b>DOLOMITE</b> as above
3,220.00 to 3,225.00 (5.00)	100% <b>DOLOMITE</b> medium to dark gray brown, predominately microcrystalline, cryptocrystalline in part, mudstone to wackestone, minor sparry white, pearly, trace of clear drusy dolomite crystals, probable scattered vuggy porosity, no permeability
3,225.00 to 3,230.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light gray brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no porosity, minor sparry dolomite veining, white to translucent, pearly, trace of CHERT clear prismatic, white, dark gray to black, trace of dis pyrite, possible healed fractures at 3221.5 and 3231.5m
3,230.00 to 3,235.00 (5.00)	100% <b>DOLOMITE</b> as above

## Sample Descriptions

Storage Units:

Metric

- 3,235.00 to 3,240.00 100% **DOLOMITE**  
(5.00) mottled medium to dark gray brown, light brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity, sparry dolomite veining
- 3,240.00 to 3,245.00 100% **DOLOMITE**  
(5.00) mottled medium to dark gray brown, light brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity, common sparry dolomite veining, white to translucent, pearly, probable scattered vuggy porosity, no apparent permeability
- 3,245.00 to 3,250.00 100% **DOLOMITE**  
(5.00) mottled light to medium brown, medium to dark brown, cryptocrystalline to microcrystalline, mudstone to wackestone, tight, common sparry dolomite veining, white to translucent, pearly, no visible porosity
- 3,250.00 to 3,255.00 100% **DOLOMITE**  
(5.00) as above, common sparry dolomite, white to translucent, pearly, trace coarsely crystalline, dolomitic cement, scattered intercrystalline bitumen, tight, minor cavings
- 3,255.00 to 3,260.00 100% **DOLOMITE**  
(5.00) mottled light to dark gray brown, light to medium gray, cryptocrystalline to microcrystalline, mudstone to wackestone, minor argillaceous laminae, no porosity, common sparry dolomite, white to translucent, pearly, trace coarsely crystalline with scattered intercrystalline bitumen, trace of drusy crystals, probable scattered vug porosity, no apparent permeability
- 3,260.00 to 3,265.00 100% **DOLOMITE**  
(5.00) as above
- 3,265.00 to 3,270.00 100% **DOLOMITE**  
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, no visible porosity, common sparry dolomite, white to translucent, pearly, trace finely crystalline, tight, trace of clear prismatic chert
- 3,270.00 to 3,275.00 100% **DOLOMITE**  
(5.00) as above
- 3,275.00 to 3,280.00 100% **DOLOMITE**  
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, no visible porosity, common sparry dolomite, trace of LIMESTONE, light to medium brown, cryptocrystalline, mudstone, tight
- 3,280.00 to 3,285.00 100% **DOLOMITE**  
(5.00) as above, trace of chert
- 3,285.00 to 3,290.00 100% **DOLOMITE**  
(5.00) mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, minor SHALE laminae, medium gray brown, dolomitic, trace of DOLOMITE light gray, coarsely crystalline, intercrystalline bitumen, no apparent porosity

## Sample Descriptions

Storage Units: Metric

3,290.00 to 3,295.00 (5.00)	100% <b>DOLOMITE</b> mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, tight, common sparry dolomite, white to translucent, pearly, tight
3,295.00 to 3,300.00 (5.00)	100% <b>DOLOMITE</b> as above
3,300.00 to 3,305.00 (5.00)	100% <b>DOLOMITE</b> mottled light to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no apparent porosity, common sparry dolomite
3,305.00 to 3,310.00 (5.00)	100% <b>DOLOMITE</b> medium to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white, pearly, tight
3,310.00 to 3,315.00 (5.00)	100% <b>DOLOMITE</b> as above
3,315.00 to 3,320.00 (5.00)	100% <b>DOLOMITE</b> medium to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, trace of clear prismatic chert
3,320.00 to 3,325.00 (5.00)	100% <b>DOLOMITE</b> as above, trace of LIMESTONE, mottled medium gray brown, cryptocrystalline, mudstone, tight
3,325.00 to 3,330.00 (5.00)	100% <b>DOLOMITE</b> medium to dark gray brown, mottled light to medium in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white, pearly, tight
3,330.00 to 3,335.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light to medium gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight, trace of prismatic chert
3,335.00 to 3,340.00 (5.00)	100% <b>DOLOMITE</b> as above
3,340.00 to 3,345.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light to medium in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, tight
3,345.00 to 3,350.00 (5.00)	100% <b>DOLOMITE</b> as above
3,350.00 to 3,355.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor sparry dolomite, white to translucent, pearly, tight, trace of SHALE laminae



## Sample Descriptions

Storage Units: Metric

3,355.00 to 3,360.00 (5.00)	100% <b>DOLOMITE</b> as above, trace of SHALE medium gray cavings
3,360.00 to 3,365.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light gray brown in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous in part, tight, minor sparry dolomite, trace of cavings, possible fracture porosity 3364.4 to 3464.8.
3,365.00 to 3,370.00 (5.00)	100% <b>DOLOMITE</b> as above
3,370.00 to 3,375.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor sparry dolomite, white to translucent, pearly, tight
3,375.00 to 3,380.00 (5.00)	100% <b>DOLOMITE</b> as above
3,380.00 to 3,385.00 (5.00)	100% <b>DOLOMITE</b> medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, minor sparry dolomite
3,385.00 to 3,390.00 (5.00)	100% <b>DOLOMITE</b> as above, trace of DOLOMITE light to dark gray brown, coarsely crystalline, intercrystalline bitumen, trace of disseminated pyrite, trace of chert
3,390.00 to 3,395.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight
3,395.00 to 3,400.00 (5.00)	100% <b>DOLOMITE</b> medium to dark gray brown, mottled in part, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, slightly argillaceous, no visible porosity, common sparry dolomite, white to translucent, pearly, tight
3,400.00 to 3,405.00 (5.00)	100% <b>DOLOMITE</b> as above. cherty in part, trace slickenside, trace of prismic chert, trace of coarsely crystalline dolomite with intercrystalline bitumen, probable scattered vuggy porosity
3,405.00 to 3,410.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, cherty in part, common sparry dolomite, trace of coarse dolomite crystals, probable minor vuggy porosity, minor prismatic chert, probable fracture porosity from 3406.6 to 3407.4
3,410.00 to 3,415.00 (5.00)	100% <b>DOLOMITE</b> as above
3,415.00 to 3,420.00 (5.00)	100% <b>DOLOMITE</b> mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, trace coarsely crystalline with intercrystalline

## Sample Descriptions

Storage Units:

Metric

bitumen, tight, trace of clear prismatic chert, probable scattered vuggy porosity

3,420.00 to 3,425.00 100% **DOLOMITE**  
(5.00) as above

3,425.00 to 3,430.00 100% **DOLOMITE**  
(5.00) mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight, trace of chert, minor SHALE laminae

3,430.00 to 3,435.00 100% **DOLOMITE**  
(5.00) as above

3,435.00 to 3,440.00 100% **DOLOMITE**  
(5.00) mottled medium to dark gray brown, light to medium gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight

3,440.00 to 3,445.00 100% **DOLOMITE**  
(5.00) mottled medium to dark gray brown, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight, trace of chert

3,445.00 to 3,450.00 100% **DOLOMITE**  
(5.00) as above

3,450.00 to 3,455.00 100% **DOLOMITE**  
(5.00) mottled medium to dark gray brown, light gray in part, cryptocrystalline to microcrystalline, mudstone to wackestone, no visible porosity, common sparry dolomite, white to translucent, pearly, tight, trace of chert

3,455.00 to 3,460.00 90% **DOLOMITE**  
(5.00) as above

10% **LIMESTONE**  
mottled light to medium brown, predominately cryptocrystalline, minor microcrystalline, mudstone, tight

3,460.00 to 3,464.00 70% **DOLOMITE**  
(4.00) as above

30% **LIMESTONE**  
mottled light to medium brown, prdly cryptocrystalline, mudstone, tight