



END OF WELL REPORT

Prepared For:

**EnCana Oil & Gas (USA) Inc
Rodman Bruntz 2B-26H
Ensign 124
Weld County, CO**

Prepared By:

***Seth Burstad
Rockies Region Well Planner
Scientific Drilling***

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Project: DJ Wattenberg
Site: S26-T2N-R66W (Rodman Bruntz)
Well: Rodman Bruntz 2B-26H
Wellbore: Hz
Design: Plan 5



↑ T M
Azimuths to True North
Magnetic North: 8.62°

Magnetic Field
Strength: 52812.4snT
Dip Angle: 66.77°
Date: 1/21/2013
Model: IGRF2010

WELL DETAILS: Rodman Bruntz 2B-26H

GL 5079' & KB 13' @ 5092.00ft (Ensign 124)	5079.00		
Northing	Easting	Latitude	Longitude
1285804.60	3209815.60	40.115490	-104.749790

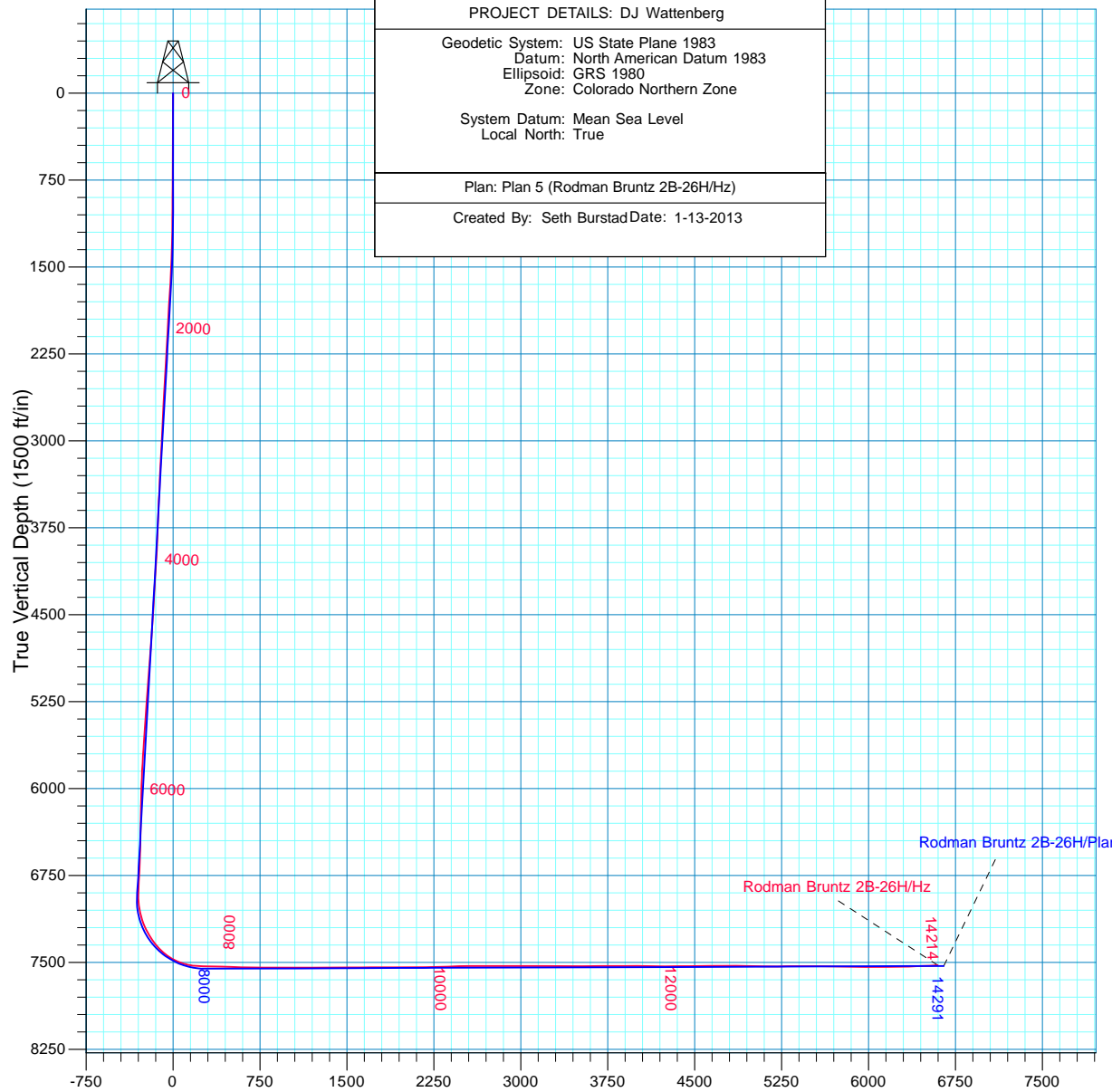
PROJECT DETAILS: DJ Wattenberg

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

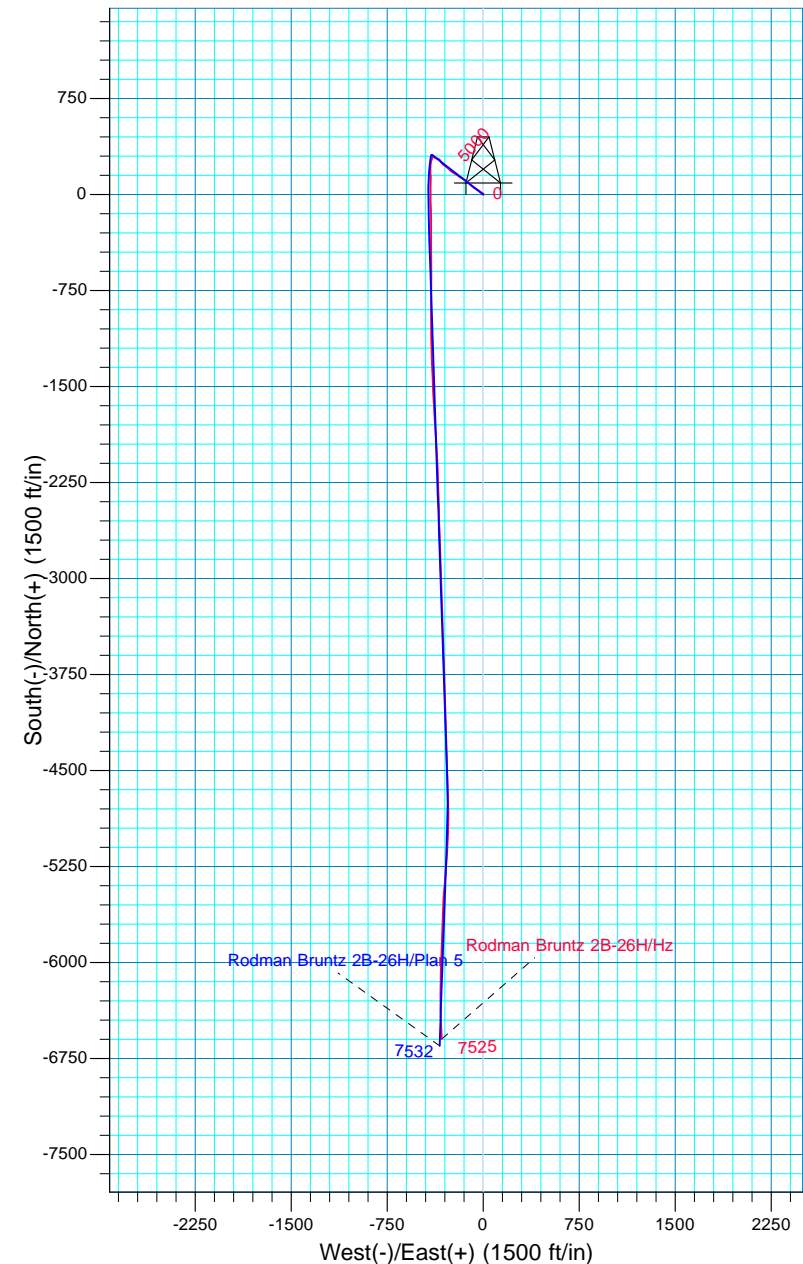
System Datum: Mean Sea Level
Local North: True

Plan: Plan 5 (Rodman Bruntz 2B-26H/Hz)

Created By: Seth Burstad Date: 1-13-2013



Vertical Section at 180.00° (1500 ft/in)





EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S26-T2N-R66W (Rodman Bruntz)

Rodman Bruntz 2B-26H

Hz

Design: Hz

Standard Survey Report

13 January, 2014





Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Rodman Bruntz 2B-26H
Project:	DJ Wattenberg	TVD Reference:	GL 5079' & KB 13' @ 5092.00ft (Ensign 124)
Site:	S26-T2N-R66W (Rodman Bruntz)	MD Reference:	GL 5079' & KB 13' @ 5092.00ft (Ensign 124)
Well:	Rodman Bruntz 2B-26H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Project	DJ Wattenberg		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	S26-T2N-R66W (Rodman Bruntz)				
Site Position:		Northing:	1,285,915.36 usft	Latitude:	40.115810
From:	Lat/Long	Easting:	3,209,123.83 usft	Longitude:	-104.752260
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.48 °

Well	Rodman Bruntz 2B-26H					
Well Position	+N/-S	0.00 ft	Northing:	1,285,804.60 usft	Latitude:	40.115490
	+E/-W	0.00 ft	Easting:	3,209,815.60 usft	Longitude:	-104.749790
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,079.00 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/21/2013	8.62	66.77	52,812

Design	Hz				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	180.00	

Survey Program	Date	1/13/2014			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
527.00	1,264.00	Survey #1 - Surface (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1	
1,450.00	7,799.00	Survey #2 - Intermediate (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1	
7,830.00	14,214.00	Survey #3 - Lateral (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
527.00	0.35	38.74	527.00	1.26	1.01	-1.26	0.07	0.07	0.00
First SDI MWD Survey									
806.00	0.36	22.25	805.99	2.73	1.87	-2.73	0.04	0.00	-5.91
898.00	0.77	320.46	897.99	3.48	1.59	-3.48	0.74	0.45	-67.16
991.00	0.44	308.74	990.98	4.18	0.91	-4.18	0.38	-0.35	-12.60
1,084.00	0.61	323.38	1,083.98	4.80	0.34	-4.80	0.23	0.18	15.74
1,172.00	1.29	320.82	1,171.97	5.95	-0.57	-5.95	0.77	0.77	-2.91
1,264.00	1.48	299.08	1,263.94	7.33	-2.26	-7.33	0.60	0.21	-23.63

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Well:	Rodman Bruntz 2B-26H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,450.00	4.57	301.22	1,449.66	12.34	-10.70	-12.34	1.66	1.66	1.15
1,636.00	5.93	309.55	1,634.88	22.29	-24.44	-22.29	0.84	0.73	4.48
1,822.00	6.18	304.20	1,819.84	34.04	-40.13	-34.04	0.33	0.13	-2.88
2,010.00	5.79	295.60	2,006.82	43.83	-57.06	-43.83	0.52	-0.21	-4.57
2,199.00	5.56	307.79	2,194.90	53.56	-72.89	-53.56	0.65	-0.12	6.45
2,389.00	5.49	304.22	2,384.02	64.31	-87.68	-64.31	0.18	-0.04	-1.88
2,578.00	4.44	323.88	2,572.32	75.30	-99.47	-75.30	1.05	-0.56	10.40
2,768.00	3.56	314.18	2,761.86	85.35	-108.03	-85.35	0.58	-0.46	-5.11
2,958.00	5.08	305.70	2,951.31	94.37	-119.10	-94.37	0.87	0.80	-4.46
3,147.00	5.01	306.50	3,139.58	104.17	-132.53	-104.17	0.05	-0.04	0.42
3,336.00	4.06	304.35	3,327.99	112.85	-144.68	-112.85	0.51	-0.50	-1.14
3,526.00	5.29	305.69	3,517.35	121.76	-157.35	-121.76	0.65	0.65	0.71
3,715.00	3.23	296.77	3,705.82	129.24	-169.18	-129.24	1.14	-1.09	-4.72
3,905.00	4.96	307.32	3,895.33	136.63	-180.49	-136.63	0.99	0.91	5.55
4,094.00	6.78	302.01	4,083.33	147.50	-196.45	-147.50	1.00	0.96	-2.81
4,284.00	5.54	298.38	4,272.23	157.80	-214.03	-157.80	0.68	-0.65	-1.91
4,473.00	7.25	304.38	4,460.05	168.87	-231.90	-168.87	0.97	0.90	3.17
4,664.00	6.25	307.06	4,649.73	181.95	-250.15	-181.95	0.55	-0.52	1.40
4,853.00	6.88	313.94	4,837.49	196.00	-266.51	-196.00	0.53	0.33	3.64
5,043.00	6.33	310.41	5,026.23	210.69	-282.68	-210.69	0.36	-0.29	-1.86
5,233.00	6.53	303.46	5,215.04	223.43	-299.67	-223.43	0.42	0.11	-3.66
5,422.00	6.07	312.73	5,402.90	236.14	-315.97	-236.14	0.59	-0.24	4.90
5,612.00	5.36	321.04	5,591.96	249.86	-328.93	-249.86	0.57	-0.37	4.37
5,802.00	3.60	340.14	5,781.38	262.37	-336.54	-262.37	1.20	-0.93	10.05
5,991.00	1.69	325.64	5,970.17	270.25	-340.13	-270.25	1.06	-1.01	-7.67
6,180.00	2.60	307.67	6,159.04	275.17	-345.10	-275.17	0.59	0.48	-9.51
6,370.00	2.77	279.20	6,348.84	278.54	-353.04	-278.54	0.70	0.09	-14.98
6,559.00	5.01	291.70	6,537.39	282.32	-365.22	-282.32	1.26	1.19	6.61
6,748.00	5.73	302.40	6,725.57	290.43	-380.85	-290.43	0.65	0.38	5.66
6,906.00	3.81	308.90	6,883.01	297.95	-391.60	-297.95	1.26	-1.22	4.11
6,938.00	3.21	291.60	6,914.95	298.95	-393.26	-298.95	3.78	-1.88	-54.06
6,969.00	3.04	240.08	6,945.91	298.86	-394.78	-298.86	8.77	-0.55	-166.19
7,001.00	5.58	211.79	6,977.82	297.11	-396.33	-297.11	10.12	7.94	-88.41
7,033.00	7.66	200.95	7,009.61	293.80	-397.92	-293.80	7.56	6.50	-33.88
7,064.00	10.24	197.88	7,040.23	289.25	-399.50	-289.25	8.46	8.32	-9.90
7,096.00	14.27	198.73	7,071.50	282.80	-401.64	-282.80	12.61	12.59	2.66
7,127.00	16.76	195.99	7,101.36	274.89	-404.10	-274.89	8.37	8.03	-8.84
7,159.00	18.33	194.06	7,131.87	265.57	-406.59	-265.57	5.23	4.91	-6.03
7,191.00	20.19	192.55	7,162.08	255.30	-409.02	-255.30	6.02	5.81	-4.72
7,222.00	23.26	187.34	7,190.88	244.00	-410.96	-244.00	11.69	9.90	-16.81
7,254.00	27.29	183.84	7,219.81	230.41	-412.26	-230.41	13.43	12.59	-10.94
7,285.00	29.41	182.20	7,247.09	215.71	-413.03	-215.71	7.28	6.84	-5.29
7,317.00	31.08	180.41	7,274.74	199.60	-413.39	-199.60	5.93	5.22	-5.59



Scientific Drilling International
Survey Report



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Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,349.00	34.29	177.71	7,301.67	182.33	-413.09	-182.33	11.02	10.03	-8.44
7,380.00	37.78	177.09	7,326.73	164.11	-412.26	-164.11	11.32	11.26	-2.00
7,412.00	39.40	177.59	7,351.74	144.17	-411.33	-144.17	5.16	5.06	1.56
7,443.00	41.93	179.44	7,375.26	123.98	-410.82	-123.98	9.04	8.16	5.97
7,475.00	46.11	180.60	7,398.26	101.75	-410.83	-101.75	13.30	13.06	3.63
7,507.00	50.49	182.13	7,419.55	77.87	-411.41	-77.87	14.14	13.69	4.78
7,538.00	53.38	182.05	7,438.66	53.49	-412.30	-53.49	9.32	9.32	-0.26
7,570.00	56.88	180.87	7,456.95	27.24	-412.97	-27.24	11.35	10.94	-3.69
7,601.00	61.33	179.47	7,472.86	0.65	-413.04	-0.65	14.87	14.35	-4.52
7,633.00	66.18	179.14	7,487.01	-28.04	-412.69	28.04	15.18	15.16	-1.03
7,665.00	69.27	178.83	7,499.14	-57.64	-412.16	57.64	9.70	9.66	-0.97
7,696.00	72.12	178.37	7,509.39	-86.89	-411.45	86.89	9.30	9.19	-1.48
7,728.00	76.01	178.39	7,518.17	-117.64	-410.58	117.64	12.16	12.16	0.06
7,799.00	85.05	178.87	7,529.84	-187.58	-408.91	187.58	12.75	12.73	0.68
7,830.00	87.54	179.61	7,531.84	-218.51	-408.50	218.51	8.38	8.03	2.39
7,923.00	89.02	179.74	7,534.63	-311.46	-407.97	311.46	1.60	1.59	0.14
8,016.00	88.15	180.53	7,536.93	-404.43	-408.19	404.43	1.26	-0.94	0.85
8,109.00	87.82	179.19	7,540.20	-497.37	-407.96	497.37	1.48	-0.35	-1.44
8,202.00	88.76	180.12	7,542.98	-590.33	-407.40	590.33	1.42	1.01	1.00
8,295.00	89.26	179.34	7,544.58	-683.31	-406.97	683.31	1.00	0.54	-0.84
8,388.00	89.26	180.74	7,545.78	-776.30	-407.03	776.30	1.51	0.00	1.51
8,481.00	90.54	180.76	7,545.95	-869.29	-408.25	869.29	1.38	1.38	0.02
8,574.00	89.66	179.83	7,545.78	-962.29	-408.73	962.29	1.38	-0.95	-1.00
8,667.00	90.27	179.31	7,545.84	-1,055.29	-408.03	1,055.29	0.86	0.66	-0.56
8,760.00	90.03	179.60	7,545.60	-1,148.28	-407.14	1,148.28	0.40	-0.26	0.31
8,853.00	90.34	177.28	7,545.30	-1,241.24	-404.61	1,241.24	2.52	0.33	-2.49
8,946.00	89.70	177.29	7,545.26	-1,334.13	-400.21	1,334.13	0.69	-0.69	0.01
9,039.00	90.47	177.85	7,545.13	-1,427.05	-396.26	1,427.05	1.02	0.83	0.60
9,132.00	90.37	177.96	7,544.44	-1,519.99	-392.86	1,519.99	0.16	-0.11	0.12
9,226.00	90.07	176.37	7,544.08	-1,613.87	-388.22	1,613.87	1.72	-0.32	-1.69
9,321.00	91.11	176.44	7,543.11	-1,708.67	-382.26	1,708.67	1.10	1.09	0.07
9,416.00	90.07	176.15	7,542.13	-1,803.47	-376.12	1,803.47	1.14	-1.09	-0.31
9,511.00	89.66	176.63	7,542.35	-1,898.28	-370.14	1,898.28	0.66	-0.43	0.51
9,606.00	89.66	176.49	7,542.91	-1,993.11	-364.44	1,993.11	0.15	0.00	-0.15
9,701.00	90.13	178.18	7,543.09	-2,088.00	-360.02	2,088.00	1.85	0.49	1.78
9,795.00	91.14	177.35	7,542.05	-2,181.92	-356.36	2,181.92	1.39	1.07	-0.88
9,890.00	91.51	178.48	7,539.85	-2,276.83	-352.90	2,276.83	1.25	0.39	1.19
9,985.00	92.28	178.19	7,536.71	-2,371.74	-350.14	2,371.74	0.87	0.81	-0.31
10,080.00	91.58	178.78	7,533.51	-2,466.65	-347.63	2,466.65	0.96	-0.74	0.62
10,175.00	90.27	177.91	7,531.98	-2,561.59	-344.89	2,561.59	1.66	-1.38	-0.92
10,270.00	89.60	177.88	7,532.08	-2,656.53	-341.40	2,656.53	0.71	-0.71	-0.03
10,365.00	90.40	178.46	7,532.08	-2,751.48	-338.37	2,751.48	1.04	0.84	0.61
10,460.00	89.80	178.81	7,531.92	-2,846.45	-336.10	2,846.45	0.73	-0.63	0.37
10,555.00	90.27	177.90	7,531.86	-2,941.41	-333.38	2,941.41	1.08	0.49	-0.96

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Well:	Rodman Bruntz 2B-26H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,649.00	89.87	177.97	7,531.74	-3,035.35	-329.99	3,035.35	0.43	-0.43	0.07
10,743.00	89.93	177.36	7,531.91	-3,129.27	-326.16	3,129.27	0.65	0.06	-0.65
10,838.00	89.36	177.89	7,532.50	-3,224.19	-322.22	3,224.19	0.82	-0.60	0.56
10,933.00	89.60	178.41	7,533.36	-3,319.13	-319.16	3,319.13	0.60	0.25	0.55
11,028.00	90.10	177.78	7,533.61	-3,414.08	-316.00	3,414.08	0.85	0.53	-0.66
11,123.00	90.20	179.08	7,533.36	-3,509.04	-313.39	3,509.04	1.37	0.11	1.37
11,217.00	90.47	177.28	7,532.81	-3,602.99	-310.41	3,602.99	1.94	0.29	-1.91
11,312.00	90.44	178.03	7,532.06	-3,697.91	-306.52	3,697.91	0.79	-0.03	0.79
11,407.00	90.00	178.47	7,531.69	-3,792.86	-303.62	3,792.86	0.66	-0.46	0.46
11,502.00	89.60	179.02	7,532.02	-3,887.84	-301.54	3,887.84	0.72	-0.42	0.58
11,596.00	90.74	178.92	7,531.74	-3,981.82	-299.85	3,981.82	1.22	1.21	-0.11
11,691.00	88.39	177.06	7,532.46	-4,076.75	-296.52	4,076.75	3.15	-2.47	-1.96
11,785.00	89.46	178.15	7,534.23	-4,170.65	-292.59	4,170.65	1.62	1.14	1.16
11,880.00	90.13	178.05	7,534.57	-4,265.59	-289.44	4,265.59	0.71	0.71	-0.11
11,974.00	90.54	178.26	7,534.02	-4,359.54	-286.42	4,359.54	0.49	0.44	0.22
12,069.00	90.91	179.59	7,532.82	-4,454.52	-284.63	4,454.52	1.45	0.39	1.40
12,164.00	90.47	179.17	7,531.67	-4,549.50	-283.61	4,549.50	0.64	-0.46	-0.44
12,259.00	90.13	177.72	7,531.18	-4,644.46	-281.03	4,644.46	1.57	-0.36	-1.53
12,354.00	90.20	177.32	7,530.90	-4,739.37	-276.92	4,739.37	0.43	0.07	-0.42
12,449.00	90.67	179.37	7,530.18	-4,834.33	-274.17	4,834.33	2.21	0.49	2.16
12,543.00	89.03	181.44	7,530.43	-4,928.32	-274.84	4,928.32	2.81	-1.74	2.20
12,638.00	88.42	182.52	7,532.54	-5,023.23	-278.12	5,023.23	1.31	-0.64	1.14
12,734.00	89.19	183.31	7,534.54	-5,119.09	-283.00	5,119.09	1.15	0.80	0.82
12,828.00	90.27	183.57	7,534.99	-5,212.91	-288.64	5,212.91	1.18	1.15	0.28
12,923.00	90.74	185.03	7,534.15	-5,307.64	-295.76	5,307.64	1.61	0.49	1.54
13,018.00	89.93	184.84	7,533.59	-5,402.29	-303.94	5,402.29	0.88	-0.85	-0.20
13,112.00	90.94	183.56	7,532.88	-5,496.03	-310.82	5,496.03	1.73	1.07	-1.36
13,207.00	89.06	181.95	7,532.88	-5,590.91	-315.39	5,590.91	2.61	-1.98	-1.69
13,302.00	88.76	181.81	7,534.69	-5,685.84	-318.50	5,685.84	0.35	-0.32	-0.15
13,397.00	88.79	182.39	7,536.72	-5,780.76	-321.98	5,780.76	0.61	0.03	0.61
13,491.00	89.43	182.62	7,538.18	-5,874.65	-326.09	5,874.65	0.72	0.68	0.24
13,586.00	89.33	181.28	7,539.21	-5,969.59	-329.32	5,969.59	1.41	-0.11	-1.41
13,681.00	89.97	181.48	7,539.79	-6,064.56	-331.61	6,064.56	0.71	0.67	0.21
13,776.00	91.11	181.17	7,538.89	-6,159.53	-333.81	6,159.53	1.24	1.20	-0.33
13,870.00	90.44	180.07	7,537.62	-6,253.51	-334.82	6,253.51	1.37	-0.71	-1.17
13,965.00	91.54	179.56	7,535.98	-6,348.50	-334.52	6,348.50	1.28	1.16	-0.54
14,060.00	92.58	178.15	7,532.56	-6,443.41	-332.62	6,443.41	1.84	1.09	-1.48
14,151.00	92.82	176.72	7,528.28	-6,534.22	-328.55	6,534.22	1.59	0.26	-1.57
Last SDI MWD Survey									
14,214.00	92.82	176.72	7,525.18	-6,597.04	-324.95	6,597.04	0.00	0.00	0.00
Projection to TD									



Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Rodman Bruntz 2B-26H
Project:	DJ Wattenberg	TVD Reference:	GL 5079' & KB 13' @ 5092.00ft (Ensign 124)
Site:	S26-T2N-R66W (Rodman Bruntz)	MD Reference:	GL 5079' & KB 13' @ 5092.00ft (Ensign 124)
Well:	Rodman Bruntz 2B-26H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
527.00	527.00	1.26	1.01	First SDI MWD Survey
14,151.00	7,528.28	-6,534.22	-328.55	Last SDI MWD Survey
14,214.00	7,525.18	-6,597.04	-324.95	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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JOB NO.:	98152	Report Time:	2400	1 of 13
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-38181	
LOCATION:		WORK ORDER#		
RIG NAME:	Ensign 124	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	66W	26
WELL NAME:	Rodman Bruntz 2B -26H	Company Man	Mike Roane / Rich Borner	
Lead Directional :	Steven Schlamp (10800)	2nd Dir Hand :	Dustin Smith (10319)	

From Tuesday, December 31, 2013 at 0000 to Tuesday, December 31, 2013 at 2400

DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	97.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	398.00	1	844	18.00	0.25	1,114.00	2.17	1.00	3.42	1,132.00	339.60
Below Rot Hrs.	2.00										
Total Drilled:	301.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 1			
Avg. Total ROP:	376.25	WOB: 10		Weight: 0		Bit No: 1		Baker Q506 8" Titan TD Motor 8" Steel X-Over 6 1/2" NMPC 6 1/2" NMDC 6 1/2" Orient Sub 6 1/2" Gap Sub 6 1/2" NMDC 6 1/2" NMPC XT39 - 4 1/2 XH X-O Sub 135 Jnts. 4" DP (45 Stands)			
Slide Footage:	7.00	Rot Wt: 50		Visc: 0		Model Baker Q506					
Slide Hours	0.13	Pick UP: 50		Chlorides: 0		SN.: 7142815					
Avg. Slide ROP:	52.50	Slack Off: 50		YP: 0		MFG. BAKER					
Rotate Footage:	294.00	SPP: 600		PV: 0		Type PDC					
Rotary Hours	0.67	Flow: 0 - 432		PH: 0		IADC					
Avg. Rot ROP:	441.00	SPM: 120		GAS: 0		JETS 6-15					
Circ Hours	0.00	Rot. RPM 16 - 30		SAND: 0		TFA: 1.035					
Ream Hours	0.00	Mot RPM: -		WL: 0		Hole ID: 12 1/4					
Rotary Hrs%:	83.33	Incl. In: 0		SOLID: 0		Bit Hrs: 2.42					
Slide Hrs%:	16.67	Azm. In: 0		BHT°: 0		Bit Ftg: 1132.00					
Rotary Ftg%:	97.67	Incl. Out: 0		Flow T°: 0		PUMPS					
Slide Ftg%:	2.33	Azm. Out: 0		Oil %: 0		Liner 0 0					
Casing											
Size	Lb/Ft	MD	COST BREAKDOWN					Stroke 0 0			
								Effic. 95.00% 95.00%			
								Gal/Stk 0.00 0.00			
								BBL/Stk 0.000 0.000			

JOB NO.:	98152	Report Time:	2400	2 of 13
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-38181	
LOCATION:		WORK ORDER#		
RIG NAME:	Ensign 124	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	66W	26
WELL NAME:	Rodman Bruntz 2B -26H	Company Man	Mike Roane / Rich Borner	
Lead Directional :	Steven Schlamp (10800)	2nd Dir Hand :	Dustin Smith (10319)	

From Wednesday, January 01, 2014 at 0000 to Wednesday, January 01, 2014 at 2400

DAILY TOTALS		ASSEMBLY TOTALS												
Start Depth	398.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP			
End Depth	1229.00	1	844	18.00	0.25	1,114.00	2.17	1.00	3.42	1,132.00	339.60			
Below Rot Hrs.	5.67													
Total Drilled:	831.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 1						
Avg. Total ROP:	514.02													
Slide Footage:	11.00	WOB:	10	Weight:	0	Bit No:	1	Baker Q506 8" Titan TD Motor 8" Steel X-Over 6 1/2" NMPC 6 1/2" NMDC 6 1/2" Orient Sub 6 1/2" Gap Sub 6 1/2" NMDC 6 1/2" NMPC XT39 - 4 1/2 XH X-O Sub 135 Jnts. 4" DP (45 Stands)						
Slide Hours	0.12	Rot Wt:	75	Visc:	0	Model	Baker Q506							
Avg. Slide ROP:	94.29	Pick UP:	75	Chlorides:	0	SN.:	7142815							
Rotate Footage:	820.00	Slack Off:	75	YP:	0	MFG.	BAKER							
Rotary Hours	1.50	SPP:	1400	PV:	0	Type	PDC							
Avg. Rot ROP:	546.67	Flow:	432 - 709	PH:	0	IADC								
Circ Hours	1.00	SPM:	170	GAS:	0	JETS	6-15							
Ream Hours	0.00	Rot. RPM	40 - 40	SAND:	0	TFA:	1.035							
Rotary Hrs%:	92.78	Mot RPM:	-	WL:	0	Hole ID:	12 1/4							
Slide Hrs%:	7.22	Incl. In:	0	SOLID:	0	Bit Hrs:	2.42							
Rotary Ftg%:	98.68	Azm. In:	0	BHT°:	0	Bit Ftg:	1132.00							
Slide Ftg%:	1.32	Incl. Out:	0	Flow T°:	0	PUMPS								
Casing		Azm. Out:	0	Oil %:	0	Liner	0					0		
Size	Lb/Ft	MD										Stroke	0	0
COST BREAKDOWN						Effic.	95.00%					95.00%		
						Gal/Stk	0.00					0.00		
						BBL/Stk	0.000					0.000		

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
01:50	02:00	0.17	1048	1048	0	.00	Survey & Conn.	Survey & Conn.@991' Inc 0.44° Azm 308.74°
02:00	02:11	0.18	1048	1141	93	507.27	Drilling	Drilling - (WOB:10;GPM :709;RPM:40)
02:11	02:30	0.32	1141	1141	0	.00	Survey & Conn.	Survey & Conn.@1084' Inc 0.61° Azm 323.38°
02:30	02:37	0.12	1141	1152	11	94.29	Sliding	Sliding - (WOB:10;GPM :432;TFO:307))
02:37	02:45	0.13	1152	1229	77	577.50	Drilling	Drilling - (WOB:10;GPM :709;RPM:40)
02:45	02:50	0.08	1229	1229	0	.00	MWD Survey	MWD Survey@1172' Inc 1.29° Azm 320.82°
02:50	03:45	0.92	1229	1229	0	.00	Circulating	Circulating
03:45	04:45	1.00	1229	1229	0	.00	POOH	POOH
04:45	05:40	0.92	1229	1229	0	.00	Change BHA	Lay Down BHA
05:40	24:00	18.33	1229	1229	0	.00	Standby	Standby on location

JOB NO.: 98152 Company: EnCana Oil & Gas (USA) Inc. LOCATION: RIG NAME: Ensign 124 STATE: Colorado COUNTY: Weld WELL NAME: Rodman Bruntz 2B -26H Lead Directional : Steven Schlamp (10800) / Kevin Hoshall		Report Time: 2400 API JOB # 05-123-38181 WORK ORDER# FIELD: Wattenberg Township: 2N Range/Section 66W 26 Company Man Mike Roane / Rich Borner 2nd Dir Hand : Dustin Smith (10319)									
From Thursday, January 02, 2014 at 0000 to Thursday, January 02, 2014 at 2400											
DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	1229.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	3773.00	2	65055	620.00	15.30	5,968.00	20.00	3.57	38.87	6,588.00	169.50
Below Rot Hrs.	13.75										
Total Drilled:	2544.00										
Avg. Total ROP:	320.67										
Slide Footage:	63.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 2			
Slide Hours	0.75	WOB: 26		Weight: 0		Bit No: 2		SDi611 6 1/2" Titan TD Drill Motor 6 1/2" NMPC 6 1/2" NMDC 6 1/2" Pulser Sub 6 1/2" NMDC 6 1/2" NMPC XT39 - 4 1/2 XH X-O Sub 60 Jnts HWDP			
Avg. Slide ROP:	84.00	Rot Wt: 83		Visc: 0		Model SDi611					
Rotate Footage:	2481.00	Pick UP: 89		Chlorides: 0		SN.: JH3962					
Rotary Hours	7.18	Slack Off: 80		YP: 0		MFG. OTHER					
Avg. Rot ROP:	345.38	SPP: 2900		PV: 0		Type PDC					
Circ Hours	0.33	Flow: 400 - 709		PH: 0		IADC					
Ream Hours	0.00	SPM: 134		GAS: 0		JETS 6-14					
Rotary Hrs%:	90.55	Rot. RPM 40 - 64		SAND: 0		TFA: 0.902					
Slide Hrs%:	9.45	Mot RPM: 45 - 50		WL: 0		Hole ID: 8.75					
Rotary Ftg%:	97.52	Incl. In: 0		SOLID: 0		Bit Hrs: 35.30					
Slide Ftg%:	2.48	Incl. Out: 3.23		BHT°: 0		Bit Ftg: 6588.00					
CASING		Azm. In: 0		Flow T°: 0		PUMPS					
Size	Lb/Ft	MD	Incl. Out: 296.77		Oil %: 0		Liner 0 0				
						Stroke 0 0					
						Effic. 95.00% 95.00%					
						Gal/Stk 0.00 0.00					
						BBL/Stk 0.000 0.000					
GENERAL COMMENT											
Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT			
00:00	10:15	10.25	1229	1229	0	.00	Standby	Standby for directional BHA			
10:15	10:25	0.17	1229	1229	0	.00	Other	Safety meeting w. rig crew			
10:25	12:00	1.58	1229	1229	0	.00	Change BHA	PU Intermediate BHA & Install MWD tool			
12:00	13:15	1.25	1229	1229	0	.00	TIH	TIH			
13:15	15:10	1.92	1229	1229	0	.00	Drilling Cement	Drilling - (WOB:10;GPM :709;RPM:40)			
15:10	15:15	0.08	1229	1239	10	120.00	Drilling	Drilling - (WOB:10;GPM :709;RPM:40)			
15:15	16:15	1.00	1239	1239	0	.00	Other	FIT			
16:15	16:25	0.17	1239	1322	83	498.00	Drilling	Drilling - (WOB:15;GPM :400;RPM:45)			
16:25	16:45	0.33	1322	1322	0	.00	Rig Service-Inhole	Rig Service-Inhole			
16:45	17:00	0.25	1322	1322	0	.00	Survey & Conn.	Survey & Conn. @1264' Inc 1.48° Azm 299.08°			
17:00	17:05	0.08	1322	1330	8	96.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:300))			
17:05	17:10	0.08	1330	1415	85	1020.00	Drilling	Drilling - (WOB:22;GPM :500;RPM:50)			
17:10	17:20	0.17	1415	1415	0	.00	Survey & Conn.	Survey & Conn. @1264' Inc 1.48° Azm 299.08°			
17:20	17:25	0.08	1415	1421	6	72.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:300)			
<div> <div>Winserve II Daily Report for Thursday, January 02, 2014</div> <div>License: NP2245</div> <div>Daily Report for JOB#: 98152 - Page 1 of 2</div> </div>											

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
17:25	17:30	0.08	1421	1508	87	1044.00	Drilling	Drilling - (WOB:22;GPM :500;RPM:50)
17:30	17:35	0.08	1508	1508	0	.00	Survey & Conn.	Survey & Conn.@1450' Inc 4.57° Azm 301.22°
17:35	17:40	0.08	1508	1514	6	72.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:0))
17:40	18:05	0.42	1514	1694	180	432.00	Drilling	Drilling - (WOB:22;GPM :680;RPM:64)
18:05	18:08	0.05	1694	1694	0	.00	Survey & Conn.	Survey & Conn.@1636' Inc 5.93° Azm 309.55°
18:08	18:30	0.37	1694	1880	186	507.27	Drilling	Drilling - (WOB:22;GPM :680;RPM:64)
18:30	18:35	0.08	1880	1880	0	.00	Survey & Conn.	Survey & Conn.@1822' Inc 6.18° Azm 304.2°
18:35	19:00	0.42	1880	2068	188	451.20	Drilling	Drilling - (WOB:22;GPM :680;RPM:64)
19:00	19:05	0.08	2068	2068	0	.00	Survey & Conn.	Survey & Conn.@2010' Inc 5.79° Azm 295.6°
19:05	19:10	0.08	2068	2076	8	96.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:90R))
19:10	19:31	0.35	2076	2257	181	517.14	Drilling	Drilling - (WOB:22;GPM :600;RPM:64)
19:31	19:36	0.08	2257	2257	0	.00	Survey & Conn.	Survey & Conn.@2199' Inc 5.56° Azm 307.79°
19:36	19:58	0.37	2257	2447	190	518.18	Drilling	Drilling - (WOB:26;GPM :600;RPM:64)
19:58	20:02	0.07	2447	2447	0	.00	Survey & Conn.	Survey & Conn.@2389' Inc 5.49° Azm 304.22°
20:02	20:07	0.08	2447	2455	8	96.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:90R))
20:07	20:32	0.42	2455	2636	181	434.40	Drilling	Drilling - (WOB:26;GPM :600;RPM:64)
20:32	20:36	0.07	2636	2636	0	.00	Survey & Conn.	Survey & Conn.@2578' Inc 4.44° Azm 323.88°
20:36	21:01	0.42	2636	2826	190	456.00	Drilling	Drilling - (WOB:26;GPM :600;RPM:64)
21:01	21:05	0.07	2826	2826	0	.00	Survey & Conn.	Survey & Conn.@2768' Inc 3.56° Azm 314.18°
21:05	21:11	0.10	2826	2834	8	80.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:307M))
21:11	21:19	0.13	2834	2921	87	652.50	Drilling	Drilling - (WOB:26;GPM :600;RPM:64)
21:19	21:23	0.07	2921	2921	0	.00	Connection	Connection
21:23	21:30	0.12	2921	2930	9	77.14	Sliding	Sliding - (WOB:22;GPM :500;TFO:307M))
21:30	21:40	0.17	2930	3016	86	516.00	Drilling	Drilling - (WOB:26;GPM :600;RPM:64)
21:40	21:44	0.07	3016	3016	0	.00	Survey & Conn.	Survey & Conn.@2958' Inc 5.08° Azm 305.7°
21:44	22:09	0.42	3016	3205	189	453.60	Drilling	Drilling - (WOB:26;GPM :600;RPM:64)
22:09	22:14	0.08	3205	3205	0	.00	Survey & Conn.	Survey & Conn.@3147' Inc 5.01° Azm 306.5°
22:14	22:39	0.42	3205	3394	189	453.60	Drilling	Drilling - (WOB:26;GPM :600;RPM:64)
22:39	22:43	0.07	3394	3394	0	.00	Survey & Conn.	Survey & Conn.@3336' Inc 4.06° Azm 304.35°
22:43	22:50	0.12	3394	3404	10	85.71	Sliding	Sliding - (WOB:22;GPM :500;TFO:320M))
22:50	23:20	0.50	3404	3584	180	360.00	Drilling	Drilling - (WOB:26;GPM :600;RPM:55)
23:20	23:24	0.07	3584	3584	0	.00	Survey & Conn.	Survey & Conn.@3526' Inc 5.29° Azm 305.69°
23:24	23:52	0.47	3584	3773	189	405.00	Drilling	Drilling - (WOB:26;GPM :600;RPM:55)
23:52	24:00	0.13	3773	3773	0	.00	Survey & Conn.	Survey & Conn.@3715' Inc 3.23° Azm 296.77°

JOB NO.:	98152	Report Time:	2400	4 of 13
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-38181	
LOCATION:		WORK ORDER#		
RIG NAME:	Ensign 124	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	66W	26
WELL NAME:	Rodman Bruntz 2B -26H	Company Man	Dave Hildreth / Rich Borner	
Lead Directional :	Kevin Hoshall (10931)	2nd Dir Hand :	Dustin Smith (10319)	

From Friday, January 03, 2014 at 0000 to Friday, January 03, 2014 at 2400

DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	3773.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	7249.00	2	65055	620.00	15.30	5,968.00	20.00	3.57	38.87	6,588.00	169.50
Below Rot Hrs.	24.00										
Total Drilled:	3476.00	Drilling Parameters WOB: 26 Rot Wt: 150 Pick UP: 165 Slack Off: 142 SPP: 3500 Flow: 440 - 600 SPM: 120 Rot. RPM 30 - 65 Mot RPM: 0 - 65 Incl. In: 3.23 Azm. In: 296.77 Incl. Out: 20.19 Azm. Out: 23.26		Mud Record Weight: 0 Visc: 0 Chlorides: 0 YP: 0 PV: 0 PH: 0 GAS: 0 SAND: 0 WL: 0 SOLID: 0 BHT°: 0 Flow T°: 0 Oil %: 0		Bit Record Bit No: 2 Model SDi611 SN.: JH3962 MFG. OTHER Type PDC IADC JETS 6-14 TFA: 0.902 Hole ID: 8.75 Bit Hrs: 35.30 Bit Ftg: 6588.00		Current BHA # 2 SDi611 6 1/2" Titan TD Drill Motor 6 1/2" NMPC 6 1/2" NMDC 6 1/2" Pulser Sub 6 1/2" NMDC 6 1/2" NMPC XT39 - 4 1/2 XH X-O Sub 60 Jnts HWDP			
Avg. Total ROP:	199.01										
Slide Footage:	330.00										
Slide Hours	6.18										
Avg. Slide ROP:	53.37										
Rotate Footage:	3146.00										
Rotary Hours	11.28										
Avg. Rot ROP:	278.82										
Circ Hours	2.23										
Ream Hours	0.00										
Rotary Hrs%:	64.60										
Slide Hrs%:	35.40										
Rotary Ftg%:	90.51										
Slide Ftg%:	9.49										
COST BREAKDOWN											
Size Lb/Ft MD											

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
04:02	04:32	0.50	4539	4722	183	366.00	Drilling	Drilling - (WOB:26;GPM :600;RPM:65)
04:32	04:44	0.20	4722	4722	0	.00	Survey & Conn.	Survey & Conn.@4664' Inc 6.25° Azm 307.06°
04:44	04:50	0.10	4722	4730	8	80.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:80R))
04:50	05:16	0.43	4730	4911	181	417.69	Drilling	Drilling - (WOB:26;GPM :600;RPM:65)
05:16	05:24	0.13	4911	4911	0	.00	Survey & Conn.	Survey & Conn.@4853' Inc 6.88° Azm 313.94°
05:24	06:10	0.77	4911	5101	190	247.83	Drilling	Drilling - (WOB:26;GPM :600;RPM:65)
06:10	06:20	0.17	5101	5101	0	.00	Survey & Conn.	Survey & Conn.@5043' Inc 6.33° Azm 310.41°
06:20	06:45	0.42	5101	5196	95	228.00	Drilling	Drilling - (WOB:26;GPM :600;RPM:65)
06:45	06:55	0.17	5196	5203	7	42.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:80R)
06:55	07:10	0.25	5203	5291	88	352.00	Drilling	Drilling - (WOB:26;GPM :600;RPM:65)
07:10	07:20	0.17	5291	5291	0	.00	Survey & Conn.	Survey & Conn.@5233' Inc 6.53° Azm 303.46°
07:20	07:25	0.08	5291	5299	8	96.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:80R)
07:25	08:10	0.75	5299	5480	181	241.33	Drilling	Drilling - (WOB:26;GPM :600;RPM:65)
08:10	08:20	0.17	5480	5480	0	.00	Survey & Conn.	Survey & Conn.@5422' Inc 6.07° Azm 312.73°
08:20	08:50	0.50	5480	5575	95	190.00	Drilling	Drilling - (WOB:22;GPM :440;RPM:60)
08:50	09:00	0.17	5575	5585	10	60.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:80R)
09:00	09:15	0.25	5585	5670	85	340.00	Drilling	Drilling - (WOB:22;GPM :440;RPM:60)
09:15	09:25	0.17	5670	5670	0	.00	Survey & Conn.	Survey & Conn.@5612' Inc 5.36° Azm 321.04°
09:25	10:15	0.83	5670	5860	190	228.00	Drilling	Drilling - (WOB:22;GPM :440;RPM:60)
10:15	10:25	0.17	5860	5860	0	.00	Survey & Conn.	Survey & Conn.@5802' Inc 3.6° Azm 340.14°
10:25	10:30	0.08	5860	5867	7	84.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:80R)
10:30	10:55	0.42	5867	5954	87	208.80	Drilling	Drilling - (WOB:22;GPM :440;RPM:60)
10:55	11:05	0.17	5954	5962	8	48.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:80R)
11:05	11:20	0.25	5962	6049	87	348.00	Drilling	Drilling - (WOB:22;GPM :440;RPM:60)
11:20	11:30	0.17	6049	6049	0	.00	Survey & Conn.	Survey & Conn.@5991' Inc 1.69° Azm 325.64°
11:30	11:40	0.17	6049	6059	10	60.00	Sliding	Sliding - (WOB:22;GPM :500;TFO:80R)
11:40	12:00	0.33	6059	6144	85	255.00	Drilling	Drilling - (WOB:22;GPM :440;RPM:60)
12:00	12:05	0.08	6144	6154	10	120.00	Sliding	Drilling - (WOB:22;GPM :440;RPM:60)
12:05	12:20	0.25	6154	6238	84	336.00	Drilling	Drilling - (WOB:22;GPM :440;RPM:60)
12:20	12:30	0.17	6238	6238	0	.00	Survey & Conn.	Survey & Conn.@6180' Inc 2.6° Azm 307.67°
12:30	12:40	0.17	6238	6252	14	84.00	Sliding	Sliding - (WOB:22;GPM :440;TFO:0)
12:40	13:05	0.42	6252	6333	81	194.40	Drilling	Drilling - (WOB 22; GPM 550; RPM 65)
13:05	13:20	0.25	6333	6348	15	60.00	Sliding	Sliding - (WOB:22;GPM :440;TFO:0)
13:20	13:35	0.25	6348	6428	80	320.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
13:35	13:50	0.25	6428	6428	0	.00	Survey & Conn.	Survey & Conn.@6370' Inc 2.77° Azm 279.2°
13:50	14:05	0.25	6428	6443	15	60.00	Sliding	Sliding - (WOB:22;GPM :440;TFO:0)
14:05	14:15	0.17	6443	6523	80	480.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
14:15	14:50	0.58	6523	6523	0	.00	Rig Service-Inhole	Rig Service-Inhole
14:50	15:00	0.17	6523	6529	6	36.00	Sliding	Sliding - (WOB:22;GPM :440;TFO:0)
15:00	15:25	0.42	6529	6617	88	211.20	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
15:25	15:35	0.17	6617	6617	0	.00	Survey & Conn.	Survey & Conn.@6559' Inc 5.01° Azm 291.7°
15:35	15:50	0.25	6617	6629	12	48.00	Sliding	Sliding - (WOB:22;GPM :440;TFO:0)
15:50	16:35	0.75	6629	6806	177	236.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
16:35	16:45	0.17	6806	6806	0	.00	Survey & Conn.	Survey & Conn.@6748' Inc 5.73° Azm 302.4°
16:45	17:20	0.58	6806	6932	126	216.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
17:20	17:35	0.25	6932	6932	0	.00	Circulating	Trough Hole
17:35	17:55	0.33	6932	6950	18	54.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:0))
17:55	18:00	0.08	6950	6964	14	168.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
18:00	18:05	0.08	6964	6964	0	.00	Survey & Conn.	Survey & Conn.@6906' Inc 3.81° Azm 308.9°
18:05	18:26	0.35	6964	6982	18	51.43	Sliding	Sliding - (WOB:20;GPM :500;TFO:180M))
18:26	18:32	0.10	6982	6996	14	140.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
18:32	18:37	0.08	6996	6996	0	.00	Survey & Conn.	Survey & Conn.@6938' Inc 3.21° Azm 291.6°
18:37	19:04	0.45	6996	7014	18	40.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:180M))
19:04	19:09	0.08	7014	7027	13	156.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
19:09	19:19	0.17	7027	7027	0	.00	Survey & Conn.	Survey & Conn.@6969' Inc 3.04° Azm 240.08°
19:19	19:39	0.33	7027	7040	13	39.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:180M))
19:39	19:43	0.07	7040	7059	19	285.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
19:43	19:50	0.12	7059	7059	0	.00	Survey & Conn.	Survey & Conn.@7001' Inc 5.58° Azm 211.79°
19:50	20:15	0.42	7059	7074	15	36.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
20:15	20:20	0.08	7074	7091	17	204.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:65)
20:20	20:31	0.18	7091	7091	0	.00	Survey & Conn.	Survey & Conn.@7033' Inc 7.66° Azm 200.95°
20:31	20:55	0.40	7091	7113	22	55.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
20:55	21:00	0.08	7113	7122	9	108.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:30)
21:00	21:05	0.08	7122	7122	0	.00	Survey & Conn.	Survey & Conn.@7064' Inc 10.24° Azm 197.88°
21:05	21:21	0.27	7122	7135	13	48.75	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
21:21	21:32	0.18	7135	7154	19	103.64	Drilling	Drilling - (WOB:26;GPM :550;RPM:30)
21:32	21:42	0.17	7154	7154	0	.00	Survey & Conn.	Survey & Conn.@7096' Inc 14.27° Azm 198.73°
21:42	21:55	0.22	7154	7161	7	32.31	Sliding	Sliding - (WOB:20;GPM :500;TFO:30L))
21:55	22:05	0.17	7161	7185	24	144.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:30)
22:05	22:16	0.18	7185	7185	0	.00	Survey & Conn.	Survey & Conn.@7127' Inc 16.76° Azm 195.99°
22:16	22:40	0.40	7185	7201	16	40.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:30L))
22:40	22:45	0.08	7201	7217	16	192.00	Drilling	Drilling - (WOB:26;GPM :550;RPM:30)
22:45	23:22	0.62	7217	7217	0	.00	Survey & Conn.	Survey & Conn.@7159' Inc 18.33° Azm 194.06°
23:22	23:46	0.40	7217	7237	20	50.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:30L))
23:46	23:50	0.07	7237	7249	12	180.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
23:50	24:00	0.17	7249	7249	0	.00	Survey & Conn.	Survey & Conn.@7191' Inc 20.19° Azm 192.55°

JOB NO.:	98152	Report Time:	2400	5 of 13
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-38181	
LOCATION:		WORK ORDER#		
RIG NAME:	Ensign 124	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	66W	26
WELL NAME:	Rodman Bruntz 2B -26H	Company Man	Dave Hildreth / Rich Borner	
Lead Directional :	Kevin Hoshall (10931)	2nd Dir Hand :	Dustin Smith (10319)	

From Saturday, January 04, 2014 at 0000 to Saturday, January 04, 2014 at 2400

DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	7249.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	7817.00	2	65055	620.00	15.30	5,968.00	20.00	3.57	38.87	6,588.00	169.50
Below Rot Hrs.	23.25										
Total Drilled:	568.00										
Avg. Total ROP:	48.07										
Slide Footage:	227.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 2			
Slide Hours	8.37	WOB:	26	Weight:	0	Bit No:	2	SDi611 6 1/2" Titan TD Drill Motor 6 1/2" NMPC 6 1/2" NMDC 6 1/2" Pulser Sub 6 1/2" NMDC 6 1/2" NMPC XT39 - 4 1/2 XH X-O Sub 60 Jnts HWDP			
Avg. Slide ROP:	27.13	Rot Wt:	150	Visc:	0	Model	SDi611				
Rotate Footage:	341.00	Pick UP:	165	Chlorides:	0	SN.:	JH3962				
Rotary Hours	3.45	Slack Off:	142	YP:	0	MFG.	OTHER				
Avg. Rot ROP:	98.84	SPP:	3500	PV:	0	Type	PDC				
Circ Hours	0.00	Flow:	500 - 500	PH:	0	IADC					
Ream Hours	0.00	SPM:	120	GAS:	0	JETS	6-14				
Rotary Hrs%:	29.20	Rot. RPM	30 - 30	SAND:	0	TFA:	0.902				
Slide Hrs%:	70.80	Mot RPM:	30 - 30	WL:	0	Hole ID:	8.75				
Rotary Ftg%:	60.04	Incl. In:	20.19	SOLID:	0	Bit Hrs:	35.30				
Slide Ftg%:	39.96	Azm. In:	23.26	BHT°:	0	Bit Ftg:	6588.00				
COST BREAKDOWN		Incl. Out:	76.01	Flow T°:	0	PUMPS					
Size Lb/Ft MD		Azm. Out:	178.89	Oil %:	0	Liner	0	0			
							Stroke	0	0		
							Effic.	95.00%	95.00%		
							Gal/Stk	0.00	0.00		
							BBL/Stk	0.000	0.000		

GENERAL COMMENT

At 6:30 am, 7580' MD, informed by Company Hand on location. Target line TVD changed from 7555' TVD to 7545' TVD.
At 11:30 am, 7739' MD, Informed b Company Hand on location, target line had not been changed, but target line of 7545' TVD was expected to be 5' above the base of the Codell, target formation, and the formation below the Fair Court. Was asked to land 5' - 10' TVD above the target line if possible.

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:12	0.20	7249	7262	13	65.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
00:12	00:18	0.10	7262	7280	18	180.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
00:18	00:28	0.17	7280	7280	0	.00	Survey & Conn.	Survey & Conn.@7222' Inc 23.26° Azm 187.34°
00:28	00:44	0.27	7280	7286	6	22.50	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
00:44	00:54	0.17	7286	7312	26	156.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
00:54	01:05	0.18	7312	7312	0	.00	Survey & Conn.	Survey & Conn.@7254' Inc 27.29° Azm 183.84°
01:05	01:17	0.20	7312	7320	8	40.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
01:17	01:25	0.13	7320	7343	23	172.50	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
01:25	01:35	0.17	7343	7343	0	.00	Survey & Conn.	Survey & Conn.@7285' Inc 29.41° Azm 182.2°
01:35	01:55	0.33	7343	7364	21	63.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
01:55	02:00	0.08	7364	7375	11	132.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
02:00	02:16	0.27	7375	7375	0	.00	Survey & Conn.	Survey & Conn.@7317' Inc 31.08° Azm 180.41°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
02:16	02:30	0.23	7375	7386	11	47.14	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
02:30	02:39	0.15	7386	7407	21	140.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
02:39	02:49	0.17	7407	7407	0	.00	Survey & Conn.	Survey & Conn.@7349' Inc 34.29° Azm 177.71°
02:49	02:57	0.13	7407	7415	8	60.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:30R))
02:57	03:05	0.13	7415	7438	23	172.50	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
03:05	03:15	0.17	7438	7438	0	.00	Survey & Conn.	Survey & Conn.@7380' Inc 37.78° Azm 177.09°
03:15	03:30	0.25	7438	7456	18	72.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:45))
03:30	03:37	0.12	7456	7470	14	120.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
03:37	03:47	0.17	7470	7470	0	.00	Survey & Conn.	Survey & Conn.@7412' Inc 39.4° Azm 177.59°
03:47	04:22	0.58	7470	7494	24	41.14	Sliding	Sliding - (WOB:20;GPM :500;TFO:30))
04:22	04:28	0.10	7494	7501	7	70.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
04:28	04:33	0.08	7501	7501	0	.00	Survey & Conn.	Survey & Conn.@7443' Inc 41.93° Azm 179.44°
04:33	04:55	0.37	7501	7513	12	32.73	Sliding	Sliding - (WOB:20;GPM :500;TFO:30))
04:55	05:04	0.15	7513	7533	20	133.33	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
05:04	05:12	0.13	7533	7533	0	.00	Survey & Conn.	Survey & Conn.@7475' Inc 46.11° Azm 180.6°
05:12	05:31	0.32	7533	7546	13	41.05	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
05:31	05:42	0.18	7546	7565	19	103.64	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
05:42	06:00	0.30	7565	7565	0	.00	Survey & Conn.	Survey & Conn.@7507' Inc 50.49° Azm 182.13°
06:00	06:25	0.42	7565	7580	15	36.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
06:25	06:35	0.17	7580	7596	16	96.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
06:35	06:45	0.17	7596	7596	0	.00	Survey & Conn.	Survey & Conn.@7538' Inc 53.38° Azm 182.05°
06:45	07:05	0.33	7596	7613	17	51.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
07:05	07:20	0.25	7613	7628	15	60.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
07:20	07:45	0.42	7628	7628	0	.00	Survey & Conn.	Survey & Conn.@7570' Inc 56.88° Azm 180.87°
07:45	08:05	0.33	7628	7641	13	39.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
08:05	08:15	0.17	7641	7659	18	108.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
08:15	08:30	0.25	7659	7659	0	.00	Survey & Conn.	Survey & Conn.@7601' Inc 61.33° Azm 179.47°
08:30	08:50	0.33	7659	7665	6	18.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
08:50	09:05	0.25	7665	7691	26	104.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
09:05	09:10	0.08	7691	7691	0	.00	Survey & Conn.	Survey & Conn.@7633' Inc 66.18° Azm 179.14°
09:10	09:55	0.75	7691	7698	7	9.33	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
09:55	10:15	0.33	7698	7723	25	75.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
10:15	10:25	0.17	7723	7723	0	.00	Survey & Conn.	Survey & Conn.@7665' Inc 69.27° Azm 178.83°
10:25	11:54	1.48	7723	7739	16	10.79	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
11:54	12:12	0.30	7739	7754	15	50.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
12:12	12:30	0.30	7754	7754	0	.00	Survey & Conn.	Survey & Conn.@7696' Inc 72.12° Azm 178.37°
12:30	13:25	0.92	7754	7764	10	10.91	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
13:25	13:50	0.42	7764	7786	22	52.80	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
13:50	13:55	0.08	7786	7786	0	.00	Survey & Conn.	Survey & Conn.@7728' Inc 76.01° Azm 178.39°
13:55	14:50	0.92	7786	7795	9	9.82	Sliding	Sliding - (WOB:20;GPM :500;TFO:360))
14:50	15:05	0.25	7795	7817	22	88.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
15:05	15:30	0.42	7817	7817	0	.00	Other	Get ready to POOH
15:30	22:00	6.50	7817	7817	0	.00	POOH	POOH
22:00	23:15	1.25	7817	7817	0	.00	POOH	Lay down BHA
23:15	24:00	0.75	7817	7817	0	.00	Standby	Run Casing and Cement

JOB NO.: 98152
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Weld
WELL NAME: Rodman Bruntz 2B -26H
Lead Directional : Kevin Hoshall (10931)

Report Time: 2400 6 of 13
API JOB # 05-123-38181
WORK ORDER#
FIELD: Wattenberg
Township: 2N
Range/Section 66W 26
Company Man Dave Hildreth / Rich Borner
2nd Dir Hand : Dustin Smith (10319)

From Sunday, January 05, 2014 at 0000 to Sunday, January 05, 2014 at 2400

DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	0.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	0.00										
Below Rot Hrs.	0.00										
Total Drilled:	0.00	Drilling Parameters		Mud Record		Bit Record			Current BHA # 0		
Avg. Total ROP:	NA	WOB: 26 Rot Wt: 150 Pick UP: 165 Slack Off: 142 SPP: 3500 Flow: 500 - 500 SPM: 120 Rot. RPM - Mot RPM: - Incl. In: 76.01 Azm. In: 178.89 Incl. Out: 76.01 Azm. Out: 178.89		Weight: 0		Bit No: Model					
Slide Footage:	0.00			Visc: 0		SN.:					
Slide Hours	0.00			Chlorides: 0		MFG.					
Avg. Slide ROP:	NA			YP: 0		Type					
Rotate Footage:	0.00			PV: 0		IADC					
Rotary Hours	0.00			PH: 0		JETS					
Avg. Rot ROP:	NA			GAS: 0		TFA:					
Circ Hours	0.00			SAND: 0		Hole ID: N/A					
Ream Hours	0.00			WL: 0		Bit Hrs:					
Rotary Hrs%:	NA			SOLID: 0		Bit Ftg:					
Slide Hrs%:	NA	BHT°: 0		PUMPS							
Rotary Ftg%:	NA	Flow T°: 0		Liner 0 0							
Slide Ftg%:	NA	Oil %: 0		Stroke 0 0							
CASING		COST BREAKDOWN				Effic. 95.00% 95.00%					
Size Lb/Ft MD					Gal/Stk 0.00 0.00						
					BBL/Stk 0.000 0.000						

GENERAL COMMENT

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	24:00	24.00	7817	7817	0	.00	Standby	Standby

Report Time:	2400	7 of 13
API JOB #	05-123-38181	
WORK ORDER#		
FIELD:	Wattenberg	
Township:	2N	
Range/Section	66W	26
Company Man	Dave Hildreth / Rich Borner	
2nd Dir Hand :	Dustin Smith (10319)	

DAILY TOTALS		ASSEMBLY TOTALS										
Start Depth	0.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP	
End Depth	0.00	3	475-m5-281	86.00	3.05	1,760.00	8.92	2.27	14.23	1,846.00	142.37	
Below Rot Hrs.	24.00											
Total Drilled:	0.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 3				
Avg. Total ROP:	NA											
Slide Footage:	0.00	WOB:	26	Weight:	0	Bit No:	3	VM513S 4 3/4" Wenzel Motor 4 3/4" NMPC 4 3/4" NMDC 4 3/4" Pulser Sub 4 3/4" NMDC 5" Steel X-Over 3 Jnts. 4" DP (1 Stand) 6" DR Reamer 90 Jnts. 4" DP (30 Stands) NOV Agitator 135 Jnts. 4" DP (45 Stands) 60 Jnts 4 1/2" HWDP (30				
Slide Hours	0.00	Rot Wt:	150	Visc:	0	Model	VM513S					
Avg. Slide ROP:	NA	Pick UP:	165	Chlorides:	0	SN.:	4005724					
Rotate Footage:	0.00	Slack Off:	142	YP:	0	MFG.						
Rotary Hours	0.00	SPP:	3500	PV:	0	Type	PDC					
Avg. Rot ROP:	NA	Flow:	500 - 500	PH:	0	IADC						
Circ Hours	0.00	SPM:	120	GAS:	0	JETS	5-18					
Ream Hours	0.00	Rot. RPM	-	SAND:	0	TFA:	1.242					
Rotary Hrs%:	NA	Mot RPM:	-	WL:	0	Hole ID:						
Slide Hrs%:	NA	Incl. In:	76.01	SOLID:	0	Bit Hrs:	11.97					
Rotary Ftg%:	NA	Azm. In:	178.89	BHT°:	0	Bit Ftg:	1846.00					
Slide Ftg%:	NA	Incl. Out:	76.01	Flow T°:	0	PUMPS						
		Azm. Out:	178.89	Oil %:	0							
Casing		COST BREAKDOWN										
Size	Lb/Ft	MD										
								Effic.	95.00%	95.00%		
								Gal/Stk	0.00	0.00		
								BBL/Stk	0.000	0.000		

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	06:00	6.00	7817	7817	0	.00	Other	Cementing
06:00	13:50	7.83	7817	7817	0	.00	Other	Nipple up / Testing Ops
13:50	14:00	0.17	7817	7817	0	.00	Other	Safety Meeting, P/U BHA
14:00	15:20	1.33	7817	7817	0	.00	Change BHA	Change BHA
15:20	22:30	7.17	7817	7817	0	.00	TIH	TIH
22:30	24:00	1.50	7817	7817	0	.00	Other	Slip and cut

JOB NO.:	98152	Report Time:	2400	8 of 13
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-38181	
LOCATION:		WORK ORDER#		
RIG NAME:	Ensign 124	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	66W	26
WELL NAME:	Rodman Bruntz 2B -26H	Company Man	Dave Hildreth / Rich Borner	
Lead Directional :	Kevin Hoshall (10931)	2nd Dir Hand :	Dustin Smith (10319)	

From Tuesday, January 07, 2014 at 0000 to Tuesday, January 07, 2014 at 2400

DAILY TOTALS		ASSEMBLY TOTALS												
Start Depth	7817.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP			
End Depth	9673.00	3	475-m5-281	86.00	3.05	1,760.00	8.92	2.27	14.23	1,846.00	142.37			
Below Rot Hrs.	24.00													
Total Drilled:	1846.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 3						
Avg. Total ROP:	154.26	WOB: 18		Weight: 0		Bit No: 3		VM513S 4 3/4" Wenzel Motor 4 3/4" NMPC 4 3/4" NMDC 4 3/4" Pulser Sub 4 3/4" NMDC 5" Steel X-Over 3 Jnts. 4" DP (1 Stand) 6" DR Reamer 90 Jnts. 4" DP (30 Stands) NOV Agitator 135 Jnts. 4" DP (45 Stands) 60 Jnts 4 1/2" HWDP (30						
Slide Footage:	86.00	Rot Wt: 130		Visc: 0		Model VM513S								
Slide Hours	3.05	Pick UP: 145		Chlorides: 0		SN.: 4005724								
Avg. Slide ROP:	28.20	Slack Off: 120		YP: 0		MFG.								
Rotate Footage:	1760.00	SPP: 3600		PV: 0		Type PDC								
Rotary Hours	8.92	Flow: 252 - 500		PH: 0		IADC								
Avg. Rot ROP:	197.38	SPM: 65		GAS: 0		JETS 5-18								
Circ Hours	2.53	Rot. RPM 30 - 65		SAND: 0		TFA: 1.242								
Ream Hours	1.27	Mot RPM: 0 - 60		WL: 0		Hole ID:								
Rotary Hrs%:	74.51	Incl. In: 76.01		SOLID: 0		Bit Hrs: 11.97								
Slide Hrs%:	25.49	Azm. In: 178.89		BHT°: 0		Bit Ftg: 1846.00								
Rotary Ftg%:	95.34	Incl. Out: 89.66		Flow T°: 0		PUMPS								
Slide Ftg%:	4.66	Azm. Out: 176.49		Oil %: 0										
CASING		COST BREAKDOWN				Liner						0	0	
Size	Lb/Ft	MD					Stroke					0	0	
						Effic.						95.00%	95.00%	
						Gal/Stk		0.00	0.00					
						BBL/Stk		0.000	0.000					

GENERAL COMMENT

At 8078' MD target line of 7545' TVD confirmed by company hold 7545' TVD without the 0.21 deg updip plan 5 had anticipated.

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:30	0.50	7817	7817	0	.00	Other	Slip and Cut
00:30	01:46	1.27	7817	7817	0	.00	Reaming	Drill out Cement
01:46	01:55	0.15	7817	7828	11	73.33	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
01:55	02:55	1.00	7828	7828	0	.00	Circulating	Circulating
02:55	03:55	1.00	7828	7828	0	.00	Other	Fit
03:55	04:17	0.37	7828	7842	14	38.18	Sliding	Sliding - (WOB:20;GPM :500;TFO:20))
04:17	04:25	0.13	7842	7861	19	142.50	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
04:25	04:45	0.33	7861	7861	0	.00	Survey & Conn.	Survey & Conn.@7830' Inc 87.54° Azm 179.61°
04:45	04:53	0.13	7861	7892	31	232.50	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
04:53	05:16	0.38	7892	7892	0	.00	Survey & Conn.	Survey & Conn.@7830' Inc 87.54° Azm 179.61°
05:16	05:40	0.40	7892	7985	93	232.50	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
05:40	06:00	0.33	7985	7985	0	.00	Survey & Conn.	Survey & Conn.@7923' Inc 89.02° Azm 179.74°
06:00	06:30	0.50	7985	7995	10	20.00	Sliding	Sliding - (WOB:20;GPM :500;TFO:20)
06:30	06:50	0.33	7995	8078	83	249.00	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
06:50	07:15	0.42	8078	8078	0	.00	Survey & Conn.	Survey & Conn.@8016' Inc 88.15° Azm 180.53°
07:15	07:40	0.42	8078	8171	93	223.20	Drilling	Drilling - (WOB:26;GPM :500;RPM:30)
07:40	07:50	0.17	8171	8171	0	.00	Survey & Conn.	Survey & Conn.@8109' Inc 87.82° Azm 179.19°
07:50	07:55	0.08	8171	8179	8	96.00	Sliding	Sliding - (WOB:20;GPM :270;TFO:20))
07:55	08:10	0.25	8179	8264	85	340.00	Drilling	Drilling - (WOB:26;GPM :270;RPM:60)
08:10	08:25	0.25	8264	8264	0	.00	Survey & Conn.	Survey & Conn.@8202' Inc 88.76° Azm 180.12°
08:25	09:00	0.58	8264	8357	93	159.43	Drilling	Drilling - (WOB:26;GPM :270;RPM:60)
09:00	09:10	0.17	8357	8357	0	.00	Survey & Conn.	Survey & Conn.@8295' Inc 89.26° Azm 179.34°
09:10	09:20	0.17	8367	8363	-4	-24.00	Sliding	Sliding - (WOB:20;GPM :270;TFO:20)
09:20	09:50	0.50	8363	8450	87	174.00	Drilling	Drilling - (WOB:26;GPM :270;RPM:60)
09:50	10:20	0.50	8450	8450	0	.00	Rig repair	Grabber Box Dies
10:20	10:30	0.17	8450	8450	0	.00	Survey & Conn.	Survey & Conn.@8388' Inc 89.26° Azm 180.74°
10:30	10:40	0.17	8450	8458	8	48.00	Sliding	Sliding - (WOB:20;GPM :270;TFO:20)
10:40	11:00	0.33	8458	8543	85	255.00	Drilling	Drilling - (WOB:26;GPM :270;RPM:60)
11:00	11:15	0.25	8543	8543	0	.00	Survey & Conn.	Survey & Conn.@8481' Inc 90.54° Azm 180.76°
11:15	11:35	0.33	8543	8636	93	279.00	Drilling	Drilling - (WOB:26;GPM :270;RPM:60)
11:35	11:50	0.25	8636	8636	0	.00	Survey & Conn.	Survey & Conn.@8574' Inc 89.66° Azm 179.83°
11:50	12:00	0.17	8636	8644	8	48.00	Sliding	Sliding - (WOB:20;GPM :270;TFO:20)
12:00	12:15	0.25	8644	8729	85	340.00	Drilling	Drilling - (WOB:26;GPM :270;RPM:60)
12:15	12:35	0.33	8729	8729	0	.00	Survey & Conn.	Survey & Conn.@8667' Inc 90.27° Azm 179.31°
12:35	12:55	0.33	8729	8822	93	279.00	Drilling	Drilling - (WOB:26;GPM :270;RPM:60)
12:55	13:10	0.25	8822	8822	0	.00	Survey & Conn.	Survey & Conn.@8760' Inc 90.03° Azm 179.6°
13:10	13:20	0.17	8822	8832	10	60.00	Sliding	Sliding - (WOB:20;GPM :270;TFO:20)
13:20	13:40	0.33	8832	8915	83	249.00	Drilling	Drilling - (WOB:12;GPM :270;RPM:65)
13:40	13:50	0.17	8915	8915	0	.00	Survey & Conn.	Survey & Conn.@8853' Inc 90.34° Azm 177.28°
13:50	14:20	0.50	8915	9008	93	186.00	Drilling	Drilling - (WOB:12;GPM :270;RPM:65)
14:20	14:32	0.20	9008	9008	0	.00	Survey & Conn.	Survey & Conn.@8946' Inc 89.7° Azm 177.29°
14:32	14:48	0.27	9008	9015	7	26.25	Sliding	Sliding - (WOB:20;GPM :270;TFO:10))
14:48	15:08	0.33	9015	9101	86	258.00	Drilling	Drilling - (WOB:12;GPM :270;RPM:65)
15:08	15:24	0.27	9101	9101	0	.00	Rig Service-Inhole	Rig Service-Inhole
15:24	15:34	0.17	9101	9101	0	.00	Survey & Conn.	Survey & Conn.@9039' Inc 90.47° Azm 177.85°
15:34	16:00	0.43	9101	9194	93	214.62	Drilling	Drilling - (WOB:12;GPM :270;RPM:65)
16:00	16:10	0.17	9194	9194	0	.00	Survey & Conn.	Survey & Conn.@9132' Inc 90.37° Azm 177.96°
16:10	16:55	0.75	9194	9288	94	125.33	Drilling	Drilling - (WOB:12;GPM :270;RPM:65)
16:55	17:15	0.33	9288	9288	0	.00	Survey & Conn.	Survey & Conn.@9226' Inc 90.07° Azm 176.37°
17:15	18:30	1.25	9288	9383	95	76.00	Drilling	Drilling - (WOB:12;GPM :270;RPM:65)
18:30	18:55	0.42	9383	9383	0	.00	Survey & Conn.	Survey & Conn.@9321' Inc 91.11° Azm 176.44°
18:55	19:15	0.33	9383	9395	12	36.00	Sliding	Sliding - (WOB:18;GPM :270;TFO:135))
19:15	19:40	0.42	9395	9478	83	199.20	Drilling	Drilling - (WOB:12;GPM :270;RPM:65)
19:40	19:45	0.08	9478	9478	0	.00	Survey & Conn.	Survey & Conn.@9416' Inc 90.07° Azm 176.15°
19:45	20:15	0.50	9478	9486	8	16.00	Sliding	Sliding - (WOB:18;GPM :270;TFO:120))
20:15	20:35	0.33	9486	9573	87	261.00	Drilling	Drilling - (WOB:8;GPM :270;RPM:65)
20:35	20:45	0.17	9573	9573	0	.00	Survey & Conn.	Survey & Conn.@9511' Inc 89.66° Azm 176.63°
20:45	21:10	0.42	9573	9668	95	228.00	Drilling	Drilling - (WOB:8;GPM :270;RPM:65)
21:10	21:15	0.08	9668	9668	0	.00	Survey & Conn.	Survey & Conn.@9606' Inc 89.66° Azm 176.49°
21:15	21:35	0.33	9668	9673	5	15.00	Sliding	Sliding - (WOB:18;GPM :270;TFO:90R))
21:35	23:14	1.65	9673	9673	0	.00	Other	Trouble shoot MWD
23:14	24:00	0.77	9673	9673	0	.00	POOH	POOH

JOB NO.:		98152		Report Time:		2400		9 of 13					
Company:		EnCana Oil & Gas (USA) Inc.		API JOB #		05-123-38181							
LOCATION:				WORK ORDER#									
RIG NAME:		Ensign 124		FIELD:		Wattenberg							
STATE:		Colorado		Township:		2N							
COUNTY:		Weld		Range/Section		66W		26					
WELL NAME:		Rodman Bruntz 2B -26H		Company Man		Dave Hildreth / Rich Borner							
Lead Directional :		Kevin Hoshall (10931)		2nd Dir Hand :		Dustin Smith (10319)							
From Wednesday, January 08, 2014 at 0000 to Wednesday, January 08, 2014 at 2400													
DAILY TOTALS		ASSEMBLY TOTALS											
Start Depth	9673.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP		
End Depth	10428.00	3	475-m5-281	86.00	3.05	1,760.00	8.92	2.27	14.23	1,846.00	142.37		
Below Rot Hrs.	24.00	4	475-M5-170	91.00	2.75	664.00	3.92	.42	7.08	755.00	0.00		
Total Drilled:	755.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 4					
Avg. Total ROP:	113.25	WOB: 12		Weight: 0		Bit No: 4		VS513S					
Slide Footage:	91.00	Rot Wt: 115		Visc: 0		Model VS513S		4 3/4" Wenzel Drill Motor					
Slide Hours	2.75	Pick UP: 170		Chlorides: 0		SN.: 4005752		4 3/4" NMPC					
Avg. Slide ROP:	33.09	Slack Off: 87		YP: 0		MFG. OTHER		4 3/4" NMDC					
Rotate Footage:	664.00	SPP: 3300		PV: 0		Type PDC		4 3/4" NMDC					
Rotary Hours	3.92	Flow: 260 - 270		PH: 0		IADC		5" Steel X-Over					
Avg. Rot ROP:	169.53	SPM: 60		GAS: 0		JETS 5-18		3 Jnts. 4" DP (1 Stand)					
Circ Hours	0.42	Rot. RPM 65 - 65		SAND: 0		TFA: 1.242		6" DR Reamer					
Ream Hours	0.42	Mot RPM: 0 - 65		WL: 0		Hole ID: 6 1/8		90 Jnts. 4" DP (30 Stands)					
Rotary Hrs%:	58.75	Incl. In: 89.66		SOLID: 0		Bit Hrs: 62.70		NOV Agitator					
Slide Hrs%:	41.25	Azm. In: 176.49		BHT°: 0		Bit Ftg: 4541.00		135 Jnts. 4" DP (45 Stands)					
Rotary Ftg%:	87.95	Incl. Out: 89.6		Flow T°: 0		PUMPS		60 Jnts 4 1/2" HWDP (30					
Slide Ftg%:	12.05	Azm. Out: 177.88		Oil %: 0		Liner 0 0							
CASING						Stroke 0 0							
Size	Lb/Ft	MD					Effic. 95.00% 95.00%						
								Gal/Stk 0.00 0.00					
								BBL/Stk 0.000 0.000					
GENERAL COMMENT													
@ 11:15 Company hand corrected the target line. Target line is plan #5 - 10' TVD													
@ 13:45 Cman and Gage came over and talked to MWD (Mark) about TVD plan change and asking why the reference numbers for above/below were wrong. This was due to previous day's TVD change to flat 7545 with no dip. Was told that the 7545 TVD was meant to be the landing only, contrary to what was conversed yesterday (see comment on 1-7-13)													
Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT					
00:00	07:00	7.00	9673	9673	0	.00	POOH	POOH					
07:00	07:10	0.17	9673	9673	0	.00	Other	Safety Meeting X-O BHA					
07:10	09:15	2.08	9673	9673	0	.00	Change BHA	Change BHA					
09:15	16:00	6.75	9673	9673	0	.00	TIH	TIH					
16:00	16:25	0.42	9673	9673	0	.00	Reaming	Wash to Bottom					
16:25	16:45	0.33	9673	9679	6	18.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:70))					
16:45	17:05	0.33	9679	9764	85	255.00	Drilling	Drilling - (WOB:9;GPM :260;RPM:65)					
17:05	17:15	0.17	9764	9764	0	.00	Survey & Conn.	Survey & Conn.@9701' Inc 90.13° Azm 178.18°					
17:15	17:30	0.25	9764	9769	5	20.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:70)					
17:30	17:50	0.33	9769	9858	89	267.00	Drilling	Drilling - (WOB:9;GPM :260;RPM:65)					
17:50	18:05	0.25	9858	9858	0	.00	Survey & Conn.	Survey & Conn.@9795' Inc 91.14° Azm 177.35°					
18:05	18:40	0.58	9858	9870	12	20.57	Sliding	Sliding - (WOB:33;GPM :260;TFO:120))					
Winserve II Daily Report for Wednesday, January 08, 2014 License: NP2245													
Daily Report for JOB#: 98152 - Page 1 of 2													

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
18:40	19:40	1.00	9870	9953	83	83.00	Drilling	Drilling - (WOB:9;GPM :260;RPM:65)
19:40	19:50	0.17	9953	9953	0	.00	Survey & Conn.	Survey & Conn.@9890' Inc 91.51° Azm 178.48°
19:50	19:55	0.08	9953	9963	10	120.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:120))
19:55	20:40	0.75	9963	10048	85	113.33	Drilling	Drilling - (WOB:9;GPM :260;RPM:65)
20:40	20:45	0.08	10048	10048	0	.00	Survey & Conn.	Survey & Conn.@9985' Inc 92.28° Azm 178.19°
20:45	21:10	0.42	10048	10063	15	36.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:120))
21:10	21:30	0.33	10063	10143	80	240.00	Drilling	Drilling - (WOB:9;GPM :260;RPM:65)
21:30	21:35	0.08	10143	10143	0	.00	Survey & Conn.	Survey & Conn.@10080' Inc 91.58° Azm 178.78°
21:35	22:00	0.42	10143	10156	13	31.20	Sliding	Sliding - (WOB:33;GPM :260;TFO:135))
22:00	22:20	0.33	10156	10238	82	246.00	Drilling	Drilling - (WOB:9;GPM :260;RPM:65)
22:20	22:25	0.08	10238	10238	0	.00	Survey & Conn.	Survey & Conn.@10175' Inc 90.27° Azm 177.91°
22:25	22:45	0.33	10238	10253	15	45.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:120))
22:45	23:05	0.33	10253	10333	80	240.00	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
23:05	23:10	0.08	10333	10333	0	.00	Survey & Conn.	Survey & Conn.@10270' Inc 89.6° Azm 177.88°
23:10	23:30	0.33	10333	10348	15	45.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:90))
23:30	24:00	0.50	10348	10428	80	160.00	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)

JOB NO.:98152

Company:EnCana Oil & Gas (USA) Inc.

LOCATION:

RIG NAME:Ensign 124

STATE:Colorado

COUNTY:Weld

WELL NAME:Rodman Bruntz 2B -26H

Lead Directional : Kevin Hoshall (10931)

Report Time:2400

API JOB #05-123-38181

WORK ORDER#

FIELD:Wattenberg

Township:2N

Range/Section66W26

Company ManDave Hildreth / Rich Borner

2nd Dir Hand :Dustin Smith (10319) / Steven Schlamp (10800)

10 of 13

From Thursday, January 09, 2014 at 0000 to Thursday, January 09, 2014 at 2400

DAILY TOTALS

Start Depth10428.00

End Depth12327.00

Below Rot Hrs.24.00

Total Drilled:1899.00

Avg. Total ROP:92.86

Slide Footage:209.00

Slide Hours12.32

Avg. Slide ROP:16.97

Rotate Footage:1690.00

Rotary Hours8.13

Avg. Rot ROP:207.79

Circ Hours0.42

Ream Hours0.00

Rotary Hrs%:39.77

Slide Hrs%:60.23

Rotary Ftg%:88.99

Slide Ftg%:11.01

CASING

Size

Lb/Ft

MD

ASSEMBLY TOTALS

BHA #4

Motor SN / R.S. SN475-M5-170

Slide Ftg465.00

Slide Hrs37.32

Rotate Ftg4,076.00

Rotate Hrs25.38

Circ Hrs11.92

D & C Hrs74.62

BHA Ftg4,541.00

Avg ROP61.34

Drilling Parameters

WOB:33

Rot Wt:115

Pick UP:180

Slack Off:87

SPP:3400

Flow:260 - 260

SPM:60

Rot. RPM65 - 65

Mot RPM:0 - 65

Incl. In:89.6

Azm. In:177.88

Incl. Out:0

Azm. Out:0

Mud Record

Weight:0

Visc:0

Chlorides:0

YP:0

PV:0

PH:0

GAS:0

SAND:0

WL:0

SOLID:0

BHT°:0

Flow T°:0

Oil %:0

Bit Record

Bit No:4

ModelVS513S

SN.:4005752

MFG.OTHER

TypePDC

IADC

JETS5-18

TFA:1.242

Hole ID:6 1/8

Bit Hrs:62.70

Bit Ftg:4541.00

PUMPS

Liner00

Stroke00

Effic.95.00%95.00%

Gal/Stk0.000.00

BBL/Stk0.0000.000

Current BHA #4

VS513S

4 3/4" Wenzel Drill Motor

4 3/4" NMPC

4 3/4" NMDC

4 3/4" Pulser Sub

4 3/4" NMDC

5" Steel X-Over

3 Jnts. 4" DP (1 Stand)

6" DR Reamer

90 Jnts. 4" DP (30 Stands)

NOV Agitator

135 Jnts. 4" DP (45 Stands)

60 Jnts 4 1/2" HWDP (30

COST BREAKDOWN

GENERAL COMMENT

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:10	0.17	10428	10428	0	.00	Survey & Conn.	Survey & Conn.@10365' Inc 90.4° Azm 178.46°
00:10	00:20	0.17	10428	10440	12	72.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:110))
00:20	00:57	0.62	10440	10523	83	134.59	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
00:57	01:03	0.10	10523	10523	0	.00	Survey & Conn.	Survey & Conn.@10460' Inc 89.8° Azm 178.81°
01:03	01:30	0.45	10523	10618	95	211.11	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
01:30	01:40	0.17	10618	10618	0	.00	Survey & Conn.	Survey & Conn.@10555' Inc 90.27° Azm 177.9°
01:40	01:59	0.32	10618	10633	15	47.37	Sliding	Sliding - (WOB:33;GPM :260;TFO:110))
01:59	02:23	0.40	10633	10712	79	197.50	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
02:23	02:27	0.07	10712	10712	0	.00	Survey & Conn.	Survey & Conn.@10649' Inc 89.87° Azm 177.97°
02:27	02:54	0.45	10712	10806	94	208.89	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
02:54	03:02	0.13	10806	10806	0	.00	Survey & Conn.	Survey & Conn.@10743' Inc 89.93° Azm 177.36°
03:02	03:22	0.33	10806	10821	15	45.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:90))
03:22	03:55	0.55	10821	10901	80	145.45	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
03:55	04:02	0.12	10901	10901	0	.00	Survey & Conn.	Survey & Conn.@10838' Inc 89.36° Azm 177.89°

Winserve II Daily Report for Thursday, January 09, 2014

License: NP2245

Daily Report for JOB#: 98152 - Page 1 of 2

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
04:02	04:27	0.42	10901	10916	15	36.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:90))
04:27	04:57	0.50	10916	10996	80	160.00	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
04:57	05:05	0.13	10996	10996	0	.00	Survey & Conn.	Survey & Conn.@10933' Inc 89.6° Azm 178.41°
05:05	05:25	0.33	10996	11091	95	285.00	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
05:25	05:35	0.17	11091	11091	0	.00	Survey & Conn.	Survey & Conn.@11028' Inc 90.1° Azm 177.78°
05:35	06:05	0.50	11091	11106	15	30.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:90)
06:05	06:20	0.25	11106	11186	80	320.00	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
06:20	06:30	0.17	11186	11186	0	.00	Survey & Conn.	Survey & Conn.@11123' Inc 90.2° Azm 179.08°
06:30	07:05	0.58	11186	11280	94	161.14	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
07:05	07:15	0.17	11280	11280	0	.00	Survey & Conn.	Survey & Conn.@11217' Inc 90.47° Azm 177.28°
07:15	07:50	0.58	11280	11292	12	20.57	Sliding	Sliding - (WOB:33;GPM :260;TFO:100))
07:50	08:30	0.67	11292	11375	83	124.50	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
08:30	08:40	0.17	11375	11375	0	.00	Survey & Conn.	Survey & Conn.@11312' Inc 90.44° Azm 178.03°
08:40	09:30	0.83	11375	11387	12	14.40	Sliding	Sliding - (WOB:33;GPM :260;TFO:110))
09:30	09:55	0.42	11387	11470	83	199.20	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
09:55	10:05	0.17	11470	11470	0	.00	Survey & Conn.	Survey & Conn.@11407' Inc 90° Azm 178.47°
10:05	10:50	0.75	11470	11485	15	20.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:110))
10:50	11:05	0.25	11485	11565	80	320.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
11:05	11:15	0.17	11565	11565	0	.00	Survey & Conn.	Survey & Conn.@11502' Inc 89.6° Azm 179.02°
11:15	11:40	0.42	11565	11659	94	225.60	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
11:40	11:50	0.17	11659	11659	0	.00	Survey & Conn.	Survey & Conn.@11596' Inc 90.74° Azm 178.92°
11:50	12:35	0.75	11659	11669	10	13.33	Sliding	Sliding - (WOB:33;GPM :260;TFO:160))
12:35	12:55	0.33	11669	11754	85	255.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
12:55	13:05	0.17	11754	11754	0	.00	Survey & Conn.	Survey & Conn.@11691' Inc 88.39° Azm 177.06°
13:05	13:55	0.83	11754	11769	15	18.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:80))
13:55	14:15	0.33	11769	11848	79	237.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
14:15	14:40	0.42	11848	11848	0	.00	Rig Service-Inhole	Rig Service-Inhole
14:40	14:45	0.08	11848	11848	0	.00	Survey & Conn.	Survey & Conn.@11785' Inc 89.46° Azm 178.15°
14:45	15:40	0.92	11848	11860	12	13.09	Sliding	Sliding - (WOB:33;GPM :260;TFO:80))
15:40	16:00	0.33	11860	11943	83	249.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
16:00	16:10	0.17	11943	11943	0	.00	Survey & Conn.	Survey & Conn.@11880' Inc 90.13° Azm 178.05°
16:10	17:00	0.83	11943	11958	15	18.00	Sliding	Sliding - (WOB:33;GPM :260;TFO:90))
17:00	17:15	0.25	11958	12037	79	316.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
17:15	17:25	0.17	12037	12037	0	.00	Survey & Conn.	Survey & Conn.@11974' Inc 90.54° Azm 178.26°
17:25	18:20	0.92	12037	12052	15	16.36	Sliding	Sliding - (WOB:33;GPM :260;TFO:90))
18:20	18:40	0.33	12052	12132	80	240.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
18:40	18:55	0.25	12132	12132	0	.00	Survey & Conn.	Survey & Conn.@12069' Inc 90.91° Azm 179.59°
18:55	20:00	1.08	12132	12142	10	9.23	Sliding	Sliding - (WOB:33;GPM :260;TFO:100))
20:00	20:20	0.33	12142	12227	85	255.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
20:20	20:25	0.08	12227	12227	0	.00	Survey & Conn.	Survey & Conn.@12164' Inc 90.47° Azm 179.17°
20:25	21:50	1.42	12227	12243	16	11.29	Sliding	Sliding - (WOB:33;GPM :260;TFO:100))
21:50	22:10	0.33	12243	12322	79	237.00	Drilling	Drilling - (WOB:33;GPM :260;RPM:65)
22:10	22:20	0.17	12322	12322	0	.00	Survey & Conn.	Survey & Conn.@12259' Inc 90.13° Azm 177.72°
22:20	24:00	1.67	12322	12327	5	3.00	Sliding	Sliding - (WOB:33; :260;TFO:80))

JOB NO.:	98152	Report Time:	2400	11 of 13
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-38181	
LOCATION:		WORK ORDER#		
RIG NAME:	Ensign 124	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	66W	26
WELL NAME:	Rodman Bruntz 2B -26H	Company Man	Dave Hildreth / Rich Borner	
Lead Directional :	Kevin Hoshall (10931)	2nd Dir Hand :	Steven Schlamp (10800)	

From Friday, January 10, 2014 at 0000 to Friday, January 10, 2014 at 2400

DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	12327.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	13380.00	4	475-M5-170	465.00	37.32	4,076.00	25.38	11.92	74.62	4,541.00	61.34
Below Rot Hrs.	24.00										
Total Drilled:	1053.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 4			
Avg. Total ROP:	48.05	WOB: 12		Weight: 0		Bit No: 4		VS513S 4 3/4" Wenzel Drill Motor 4 3/4" NMPC 4 3/4" NMDC 4 3/4" Pulser Sub 4 3/4" NMDC 5" Steel X-Over 3 Jnts. 4" DP (1 Stand) 6" DR Reamer 90 Jnts. 4" DP (30 Stands) NOV Agitator 135 Jnts. 4" DP (45 Stands) 60 Jnts 4 1/2" HWDP (30			
Slide Footage:	152.00	Rot Wt: 133		Visc: 0		Model VS513S					
Slide Hours	16.25	Pick UP: 220		Chlorides: 0		SN.: 4005752					
Avg. Slide ROP:	9.35	Slack Off: 28		YP: 0		MFG. OTHER					
Rotate Footage:	901.00	SPP: 3480		PV: 0		Type PDC					
Rotary Hours	5.67	Flow: 260 - 260		PH: 0		IADC					
Avg. Rot ROP:	159.00	SPM: 61		GAS: 0		JETS 5-18					
Circ Hours	0.50	Rot. RPM 65 - 65		SAND: 0		TFA: 1.242					
Ream Hours	0.00	Mot RPM: 65 - 65		WL: 0		Hole ID: 6 1/8					
Rotary Hrs%:	25.86	Incl. In: 0		SOLID: 0		Bit Hrs: 62.70					
Slide Hrs%:	74.14	Azm. In: 0		BHT°: 0		Bit Ftg: 4541.00					
Rotary Ftg%:	85.57	Incl. Out: 0		Flow T°: 0		PUMPS					
Slide Ftg%:	14.43	Azm. Out: 0		Oil %: 0		Liner 0 0					
CASING											
Size	Lb/Ft	MD	COST BREAKDOWN					Effic. 95.00% 95.00%			
								Gal/Stk 0.00 0.00			
								BBL/Stk 0.000 0.000			

GENERAL COMMENT	
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- Target change delivered from company hand @ 9:20am, MD 12638'. Hold 90 deg flat @ 7537' TVD

- TD set as 14214' MD as per Encana Company man.

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:20	0.33	12327	12386	59	177.00	Drilling	Drilling - (WOB:33; :260;RPM:65)
00:20	02:15	1.92	12386	12398	12	6.26	Sliding	Sliding - (WOB:33; :260;TFO:80)
02:15	02:40	0.42	12398	12417	19	45.60	Drilling	Drilling - (WOB:33; :260;RPM:65)
02:40	02:45	0.08	12417	12417	0	.00	Survey & Conn.	Survey & Conn.@ 12354' Inc 90.2° Azm 177.32°
02:45	03:50	1.08	12417	12429	12	11.08	Sliding	Sliding - (WOB:33; :260;TFO:80)
03:50	04:00	0.17	12429	12448	19	114.00	Drilling	Drilling - (WOB:33; :260;RPM:65)
04:00	04:05	0.08	12448	12448	0	.00	MWD Survey	MWD Survey@12354' Inc 90.2° Azm 177.32°
04:05	04:25	0.33	12448	12480	32	96.00	Drilling	Drilling - (WOB:33; :260;RPM:65)
04:25	04:30	0.08	12480	12480	0	.00	MWD Survey	MWD Survey@12449' Inc 90.67° Azm 179.37°
04:30	05:25	0.92	12480	12490	10	10.91	Sliding	Sliding - (WOB:33; :260;TFO:80)
05:25	05:45	0.33	12490	12512	22	66.00	Drilling	Drilling - (WOB:15; :260;RPM:65)
05:45	05:50	0.08	12512	12512	0	.00	Survey & Conn	Survey & Conn.@ 12449' Inc 90.67° Azm 179.37°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
05:50	07:10	1.33	12512	12527	15	11.25	Sliding	Sliding - (WOB:33; :260;TFO:80)
07:10	07:55	0.75	12527	12606	79	105.33	Drilling	Drilling - (WOB:15; :260;RPM:65)
07:55	08:05	0.17	12606	12606	0	.00	Survey & Conn.	Survey & Conn.@12543' Inc 89.03° Azm 181.44°
08:05	09:05	1.00	12606	12621	15	15.00	Sliding	Sliding - (WOB:46; :260;TFO:90))
09:05	09:30	0.42	12621	12701	80	192.00	Drilling	Drilling - (WOB:12; :260;RPM:65)
09:30	09:40	0.17	12701	12701	0	.00	Survey & Conn.	Survey & Conn.@12638' Inc 88.42° Azm 182.52°
09:40	10:55	1.25	12701	12716	15	12.00	Sliding	Sliding - (WOB:12; :260;TFO:0))
10:55	11:05	0.17	12716	12797	81	486.00	Drilling	Drilling - (WOB:12; :260;RPM:65)
11:05	11:15	0.17	12797	12797	0	.00	Survey & Conn.	Survey & Conn.@12734' Inc 89.19° Azm 183.31°
11:15	12:05	0.83	12797	12807	10	12.00	Sliding	Sliding - (WOB:12; :260;TFO:0))
12:05	12:25	0.33	12807	12891	84	252.00	Drilling	Drilling - (WOB:12; :260;RPM:65)
12:25	12:35	0.17	12891	12891	0	.00	Survey & Conn.	Survey & Conn.@12828' Inc 90.27° Azm 183.57°
12:35	13:25	0.83	12891	12901	10	12.00	Sliding	Sliding - (WOB:12; :260;TFO:0))
13:25	13:50	0.42	12901	12986	85	204.00	Drilling	Drilling - (WOB:12; :260;RPM:65)
13:50	14:00	0.17	12986	12986	0	.00	Survey & Conn.	Survey & Conn.@12923' Inc 90.74° Azm 185.03°
14:00	14:55	0.92	12986	12997	11	12.00	Sliding	Sliding - (WOB:12; :260;TFO:0))
14:55	15:25	0.50	12997	13081	84	168.00	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
15:25	15:45	0.33	13081	13081	0	.00	Rig Service-Inhole	Rig Service-Inhole
15:45	15:55	0.17	13081	13081	0	.00	Survey & Conn.	Survey & Conn.@13018' Inc 89.93° Azm 184.84°
15:55	16:30	0.58	13081	13175	94	161.14	Drilling	Drilling - (WOB:12;GPM :260;RPM:65)
16:30	16:35	0.08	13175	13175	0	.00	Survey & Conn.	Survey & Conn.@13112' Inc 90.94° Azm 183.56°
16:35	19:30	2.92	13175	13190	15	5.14	Sliding	Sliding - (WOB:12;GPM :260;TFO:170))
19:30	19:50	0.33	13190	13270	80	240.00	Drilling	Drilling - (WOB:13;GPM :260;RPM:65)
19:50	20:00	0.17	13270	13270	0	.00	Survey & Conn.	Survey & Conn.@13207' Inc 89.06° Azm 181.95°
20:00	21:30	1.50	13270	13282	12	8.00	Sliding	Sliding - (WOB:12;GPM :260;TFO:105))
21:30	22:05	0.58	13282	13365	83	142.29	Drilling	Drilling - (WOB:13;GPM :260;RPM:65)
22:05	22:15	0.17	13365	13365	0	.00	Survey & Conn.	Survey & Conn.@13302' Inc 88.76° Azm 181.81°
22:15	24:00	1.75	13365	13380	15	8.57	Sliding	Sliding - (WOB:12;GPM :260;TFO:105))

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
11:10	11:50	0.67	13933	14028	95	142.50	Drilling	Drilling - (WOB:13; :244;RPM:65)
11:50	12:05	0.25	14028	14028	0	.00	Survey & Conn.	Survey & Conn.@13965' Inc 91.54° Azm 179.56°
12:05	13:05	1.00	14028	14123	95	95.00	Drilling	Drilling - (WOB:13; :244;RPM:65)
13:05	13:20	0.25	14123	14123	0	.00	Survey & Conn.	Survey & Conn.@14060' Inc 92.58° Azm 178.15°
13:20	14:45	1.42	14123	14214	91	64.24	Drilling	Drilling - (WOB:13; :244;RPM:65)
14:45	14:55	0.17	14214	14214	0	.00	Survey & Conn.	Survey & Conn.@14151' Inc 92.82° Azm 176.72°
14:55	22:00	7.08	14214	14214	0	.00	Circulating	Circulate sweeps & clean up cycle
22:00	24:00	2.00	14214	14214	0	.00	Circulating	Pump & rotate out of hole

JOB NO.: 98152
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Weld
WELL NAME: Rodman Bruntz 2B -26H
Lead Directional : Kevin Hoshall (10931)

Report Time: 2400 **13 of 13**
API JOB # 05-123-38181
WORK ORDER#
FIELD: Wattenberg
Township: 2N
Range/Section 66W 26
Company Man Dave Hildreth / Rich Borner
2nd Dir Hand : Steven Schlamp (10800)

From Sunday, January 12, 2014 at 0000 to Sunday, January 12, 2014 at 2400

DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	13380.00	BHA #	Motor SN / R.S. SN	Slide Ftg	Slide Hrs	Rotate Ftg	Rotate Hrs	Circ Hrs	D & C Hrs	BHA Ftg	Avg ROP
End Depth	14214.00	4	475-M5-170	465.00	37.32	4,076.00	25.38	11.92	74.62	4,541.00	61.34
Below Rot Hrs.	24.00										
Total Drilled:	834.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 4			
Avg. Total ROP:	61.02	WOB: 13		Weight: 0		Bit No: 4		VS513S 4 3/4" Wenzel Drill Motor 4 3/4" NMPC 4 3/4" NMDC 4 3/4" Pulser Sub 4 3/4" NMDC 5" Steel X-Over 3 Jnts. 4" DP (1 Stand) 6" DR Reamer 90 Jnts. 4" DP (30 Stands) NOV Agitator 135 Jnts. 4" DP (45 Stands) 60 Jnts 4 1/2" HWDP (30			
Slide Footage:	13.00	Rot Wt: 129		Visc: 0		Model VS513S					
Slide Hours	6.00	Pick UP: 226		Chlorides: 0		SN.: 4005752					
Avg. Slide ROP:	2.17	Slack Off: 28		YP: 0		MFG. OTHER					
Rotate Footage:	821.00	SPP: 3350		PV: 0		Type PDC					
Rotary Hours	7.67	Flow: 244 - 244		PH: 0		IADC					
Avg. Rot ROP:	107.09	SPM: 59		GAS: 0		JETS 5-18					
Circ Hours	9.08	Rot. RPM -		SAND: 0		TFA: 1.242					
Ream Hours	0.00	Mot RPM: -		WL: 0		Hole ID: 6 1/8					
Rotary Hrs%:	56.10	Incl. In: 92.82		SOLID: 0		Bit Hrs: 62.70					
Slide Hrs%:	43.90	Azm. In: 176.76		BHT°: 0		Bit Ftg: 4541.00					
Rotary Ftg%:	98.44	Incl. Out: 0		Flow T°: 0		PUMPS					
Slide Ftg%:	1.56	Azm. Out: 0		Oil %: 0		Liner 0 0					
CASING		COST BREAKDOWN				Stroke 0 0					
Size	Lb/Ft	MD					Effic. 95.00% 95.00%				
							Gal/Stk 0.00 0.00				
							BBL/Stk 0.000 0.000				

GENERAL COMMENT

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	02:15	2.25	14214	14214	0	.00	Circulating	Pump & Rotate out of hole to 11882'MD
02:15	18:00	15.75	14214	14214	0	.00	POOH	L/O Drill pipe
18:00	19:30	1.50	14214	14214	0	.00	Other	L/O Directional BHA
19:30	21:00	1.50	14214	14214	0	.00	Other	Download MWD
21:00	24:00	3.00	14214	14214	0	.00	Other	Demob personnel & tools for rig move

BHA # 1

JOB NO.: 98152 Work Order:
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Weld
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
SECT. RANGE: 26 66W
Lead DD: Steven Schlamp (10800)
Co. Man: Mike Roane / Rich Borner
BHA TYPE: Steerable Assembly
BHA WT: 74631 Wt @ Jars: N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 31-Dec-13 @ 22:00	SDI Titan Drill Motor	SO/PU: 50 - 75 / 50-75
Date Out: 01-Jan-14 @ 05:40	MFG.: SDI	Rot Strg Wt: 50-75
Hrs In Hole: 7.67	Pad OD: 8.25	WOB: 10 - 10
Start Depth: 97.00	NB Stab: 0	TORQ: 2 - 5
End Depth: 1229.00	Bit to Bend: 6	SPP: 400 - 1400
Total Drilled: 1132.00	Bent Hsg/Sub°: 2.25 / 2.25	Motor RPM: 69
Avg. Total ROP: 468.41	Lobe/Stage: 7/8 / 4	Rotary RPM: 16 - 40
Circ Hrs: Tot/Only 3.42 / 1.00	Rev/GAL: 0.16	Flow Rate: 432 - 709
Percent Slide: 1.59	Rotor Jet: 0	Avg Diff:
Percent Hrs: 10.34	Prop BUR:	Stall Pres.:
Slide Hours: .25	Act BUR:	Off Bot Pres.:
Total Sliding: 18.00		
Avg. Slide ROP: 72.00		
Percent Rotary: 98.41		
Percent Hrs: 89.66		
Rotary Hours: 2.17		
Total Rotary: 1114.00		
Avg. Rotary ROP: 514.15		
Reason POOH:		

MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 0	Last Casing	O.D.
	GYRO: 0	DNSC: 0	Sonic: 0	Shoe @:	Hanger @:

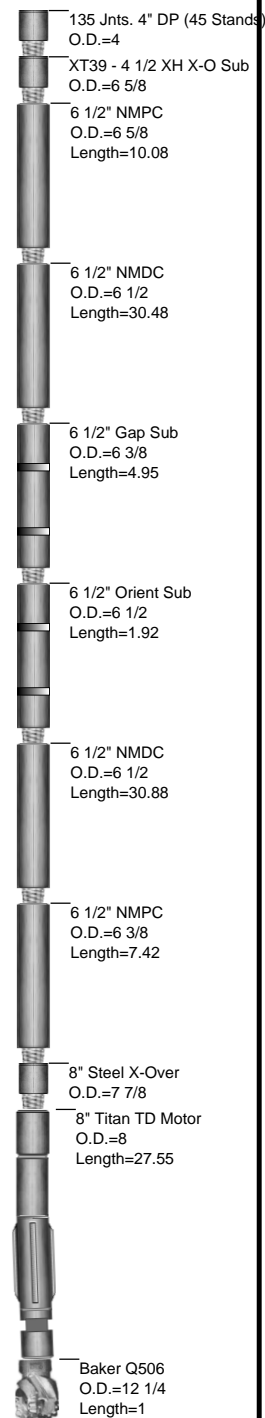
INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

- SDI Titan 8" 7/8 4.0stg Drill Motor 2.25FBH
- Speed Ratio is 0.16RPG
- TFO: 325.13

- Bit to Sensor - 55.38'
- Bit to Survey - 57'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
Baker Q506	7142815		12 1/4	1.00	1.00	6 5/8 REGP	BAKER
8" Titan TD Motor	844		8	27.55	28.55	6 5/8 REGB	SDI
8" Steel X-Over	SD104023	2 7/8	7 7/8	2.38	30.93	4 1/2 XHB	Stabil Drill
6 1/2" NMPC	125-145	3 1/4	6 3/8	7.42	38.35	4 1/2 XHB	SDI
6 1/2" NMDC	15-328	2 13/16	6 1/2	30.88	69.23	4 1/2 XHB	SDI
6 1/2" Orient Sub	8-727	3 1/4	6 1/2	1.92	71.15	4 1/2 XHB	SDI
6 1/2" Gap Sub	69-1049	2 13/16	6 3/8	4.95	76.10	4 1/2 XHB	SDI
6 1/2" NMDC	122-203		6 1/2	30.48	106.58	4 1/2 XHB	SDI
6 1/2" NMPC	125-346	3 1/4	6 5/8	10.08	116.66	4 1/2 XHB	SDI
XT39 - 4 1/2 XH X-O Sub	SD12147	2 3/4	6 5/8	3.00	119.66	XT 39B	SDI
135 Jnts. 4" DP (45 Stands)	Rig 789	3 1/4	4	4,252.50	4372.16	XT 39B	Other



JOB NO.: 98152
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Country
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
Range 66W

MOTOR INFORMATION

Desc: SDI Titan Drill Motor
Bent Hsg/Sub: 2.2 / 2.2 5 5 **Bit to Bend:** 6
Pad OD: 8.25 **NB Stab:**

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	31-Dec	Drilling	22:50	22:55	0.08	97	107	10	10	120.0	16	2	432	400		0.07	0.00	0.07	
1	31-Dec	Sliding	22:55	23:03	0.13	107	114	7	10	52.5		2	432	400	360	0.08	0.00	0.07	
1	31-Dec	Drilling	23:03	23:06	0.05	114	119	5	10	100.0	16	2	432	400		0.08	0.00	0.07	
1	31-Dec	Drilling	23:18	23:33	0.25	119	212	93	10	372.0	30	2	432	400		0.14	0.00	0.07	
1	31-Dec	Drilling	23:39	23:49	0.17	212	305	93	10	558.0	30	2	432	400		0.20	0.00	0.07	
1	31-Dec	Drilling	23:53	24:00	0.12	305	398	93	10	797.1	30	2	432	600		0.26	0.00	0.07	
1	1-Jan	Drilling	00:08	00:16	0.13	398	491	93	10	697.5	40	4	668	1300		0.33	0.00	0.07	
1	1-Jan	Drilling	00:21	00:30	0.15	491	584	93	10	620.0	40	4	668	1300		0.35	35.32	0.04	
1	1-Jan	Drilling	00:35	00:44	0.15	584	677	93	10	620.0	40	4	668	1300		0.35	29.75	0.04	
1	1-Jan	Drilling	00:49	00:58	0.15	677	770	93	10	620.0	40	4	709	1400		0.36	24.31	0.04	
1	1-Jan	Drilling	01:02	01:10	0.13	770	863	93	10	697.5	40	4	709	1400		0.56	333.02	0.74	
1	1-Jan	Drilling	01:15	01:33	0.30	863	955	92	10	306.7	40	5	709	1400		0.56	314.89	0.38	
1	1-Jan	Drilling	01:40	01:50	0.17	955	1048	93	10	558.0	40	5	709	1400		0.54	318.81	0.23	
1	1-Jan	Drilling	02:00	02:11	0.18	1048	1141	93	10	507.3	40	5	709	1400		1.05	321.34	0.77	
1	1-Jan	Sliding	02:30	02:37	0.12	1141	1152	11	10	94.3		5	432	1400	307	1.14	321.13	0.77	
1	1-Jan	Drilling	02:37	02:45	0.13	1152	1229	77	10	577.5	40	5	709	1400		1.38	306.62	0.60	

Total Drilled: 1132 **Avg. Total ROP:** 468.41

DEPTH% - TIME %

Total Rotary Drilled: 1114 **Avg. Rotary ROP:** 514.15

Percent Rotary: 98.41 - 89.66

Total Drilled Sliding: 18 **Avg. Slide ROP:** 72.00

Percent Slide: 1.59 - 10.34

BHA # 2

JOB NO.: 98152 Work Order:
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Weld
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
SECT. RANGE: 26 66W
Lead DD: Kevin Hoshall (10931)
Co. Man: Dave Hildreth / Rich Borner
BHA TYPE: Steerable Assembly
BHA WT: 49308 Wt @ Jars: N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 02-Jan-14 @ 10:25	6 1/2 Titan TD	SO/PU: 75 - 142 / 75-165
Date Out: 04-Jan-14 @ 23:15	MFG.: SDI	Rot Strg Wt: 75-150
Hrs In Hole: 60.83	Pad OD: 7.61	WOB: 10 - 26
Start Depth: 1229.00	NB Stab: 0	TORQ: 5 - 9000
End Depth: 7817.00	Bit to Bend: 2.52	SPP: 1200 - 3500
Total Drilled: 6588.00	Bent Hsg/Sub°: 1.95 / 1.95	Motor RPM: 128 - 145
Avg. Total ROP: 177.02	Lobe/Stage: 7/8 / 5	Rotary RPM: 30 - 65
Circ Hrs: Tot/Only 39.78 / 2.57	Rev/GAL: 0.29	Flow Rate: 400 - 709
Percent Slide: 9.41	Rotor Jet: 0	Avg Diff: 800
Percent Hrs: 41.11	Prop BUR: 9.72	Stall Pres.: 1100
Slide Hours: 15.30	Act BUR:	Off Bot Pres.:
Total Sliding: 620.00		
Avg. Slide ROP: 40.52		
Percent Rotary: 90.59		
Percent Hrs: 58.89		
Rotary Hours: 21.92		
Total Rotary: 5968.00		
Avg. Rotary ROP: 272.30		
Reason POOH: DTF		

MWD Spacing	Gamma: 46.93	Restiv: 0	Sensor: 58	Last Casing	O.D.
	GYRO: 0	DNSC: 1229	Sonic: 0	Shoe @:	Hanger @:

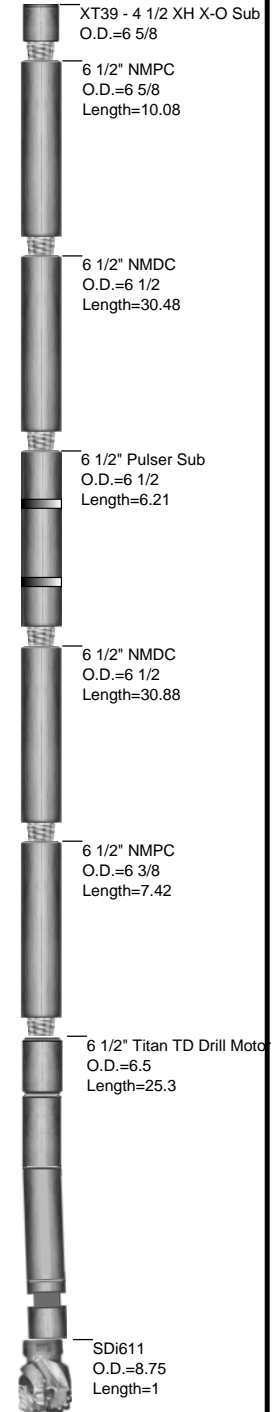
INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

- SDI Titan 6 1/2" 6/7 5.0stg Drill Motor 1.95FBH
- Speed Ratio is 0.29RPG
- TFO: 217.25

- Bit to Sensor -56.15 '
- Bit to Survey - 58'
- Bit to Gamma - 46.93'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
SDi611	JH3962		8.75	1.00	1.00	4 1/2 REGP	SMITH
6 1/2" Titan TD Drill Motor	65055		6.5	25.30	26.30	4 1/2 XHB	SDI
6 1/2" NMPC	125-145	3 1/4	6 3/8	7.42	33.72	4 1/2 XHB	SDI
6 1/2" NMDC	15-328	2 13/16	6 1/2	30.88	64.60	4 1/2 XHB	SDI
6 1/2" Pulser Sub	129-069	3 1/4	6 1/2	6.21	70.81	4 1/2 XHB	SDI
6 1/2" NMDC	122-203		6 1/2	30.48	101.29	4 1/2 XHB	SDI
6 1/2" NMPC	125-346	3 1/4	6 5/8	10.08	111.37	4 1/2 XHB	SDI
XT39 - 4 1/2 XH X-O Sub	SD12147	2 3/4	6 5/8	3.00	114.37	XT 39B	SDI
60 Jnts HWD	Rig123	2 7/8	4	1,858.92	1973.29	XT 39	Other



JOB NO.: 98152
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Country
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
Range 66W

MOTOR INFORMATION

Desc: 6 1/2 Titan TD
 Bent Hsg/Sub: 1.9 / 1.9 Bit to Bend: 2.52
 Pad OD: 7.61 NB Stab:

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	2-Jan	Drilling	15:10	15:15	0.08	1229	1239	10	10	120.0	40	5	709	1400		1.41	304.37	0.60	
2	2-Jan	Drilling	16:15	16:25	0.17	1239	1322	83	15	498.0	45	4000	400	1200		2.44	300.33	1.66	
2	2-Jan	Sliding	17:00	17:05	0.08	1322	1330	8	20	96.0	45	4000	500	1700	300	2.58	300.43	1.66	
2	2-Jan	Drilling	17:05	17:10	0.08	1330	1415	85	22	1020.0	50	5000	500	1700		3.99	301.07	1.66	
2	2-Jan	Sliding	17:20	17:25	0.08	1415	1421	6	22	72.0	50	5000	500	1700		4.09	301.10	1.66	
2	2-Jan	Drilling	17:25	17:30	0.08	1421	1508	87	22	1044.0	50	5000	500	1700		4.98	304.30	0.84	
2	2-Jan	Sliding	17:35	17:40	0.08	1508	1514	6	22	72.0	50	5000	500	1700	320M	5.03	304.59	0.84	
2	2-Jan	Drilling	17:40	18:05	0.42	1514	1694	180	22	432.0	64	6000	680	2000		6.00	307.83	0.33	
2	2-Jan	Drilling	18:08	18:30	0.37	1694	1880	186	22	507.3	64	6000	680	2000		6.05	301.67	0.52	
2	2-Jan	Drilling	18:35	19:00	0.42	1880	2068	188	22	451.2	64	6000	680	2000		5.69	299.23	0.65	
2	2-Jan	Sliding	19:05	19:10	0.08	2068	2076	8	22	96.0		6000	500	2000	90R	5.68	299.74	0.65	
2	2-Jan	Drilling	19:10	19:31	0.35	2076	2257	181	22	517.1	64	7000	600	2900		5.54	306.71	0.18	
2	2-Jan	Drilling	19:36	19:58	0.37	2257	2447	190	26	518.2	64	7000	600	2900		5.11	309.37	1.05	
2	2-Jan	Sliding	20:02	20:07	0.08	2447	2455	8	22	96.0		7000	500	2900	90R	5.06	310.14	1.05	
2	2-Jan	Drilling	20:07	20:32	0.42	2455	2636	181	26	434.4	64	7000	600	2900		4.16	321.36	0.58	
2	2-Jan	Drilling	20:36	21:01	0.42	2636	2826	190	26	456.0	64	7000	600	2900		4.01	310.92	0.87	
2	2-Jan	Sliding	21:05	21:11	0.10	2826	2834	8	22	80.0		7000	500	2900	307M	4.08	310.52	0.87	
2	2-Jan	Drilling	21:11	21:19	0.13	2834	2921	87	26	652.5	64	7000	600	2900		4.78	306.93	0.87	
2	2-Jan	Sliding	21:23	21:30	0.12	2921	2930	9	22	77.1		7000	500	2900	307M	4.85	306.61	0.87	
2	2-Jan	Drilling	21:30	21:40	0.17	2930	3016	86	26	516.0	64	7000	600	2900		5.06	305.94	0.05	
2	2-Jan	Drilling	21:44	22:09	0.42	3016	3205	189	26	453.6	64	7000	600	2900		4.72	305.93	0.51	
2	2-Jan	Drilling	22:14	22:39	0.42	3205	3394	189	26	453.6	64	7000	600	2900		4.44	304.84	0.65	
2	2-Jan	Sliding	22:43	22:50	0.12	3394	3404	10	22	85.7		7000	500	2900	320M	4.50	304.91	0.65	
2	2-Jan	Drilling	22:50	23:20	0.50	3404	3584	180	26	360.0	55	7000	600	2900		4.65	303.79	1.14	
2	2-Jan	Drilling	23:24	23:52	0.47	3584	3773	189	26	405.0	55	7000	600	2900		3.74	301.02	0.99	
2	3-Jan	Sliding	00:00	00:07	0.12	3773	3785	12	22	102.9		7000	500	2900	320M	3.85	301.75	0.99	

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	3-Jan	Drilling	00:07	00:21	0.23	3785	3867	82	26	351.4	55	7000	600	2900		4.60	305.85	0.99	
2	3-Jan	Drilling	01:45	01:53	0.13	3867	3963	96	26	720.0	55	8000	600	3100		5.51	305.32	1.00	
2	3-Jan	Sliding	01:58	02:05	0.12	3963	3973	10	22	85.7		8000	500	3100	320M	5.61	305.01	1.00	
2	3-Jan	Drilling	02:05	02:37	0.53	3973	4152	179	26	335.6	55	8000	600	3100		6.40	301.05	0.68	
2	3-Jan	Drilling	02:42	03:09	0.45	4152	4342	190	26	422.2	65	8000	600	3300		6.06	300.58	0.97	
2	3-Jan	Sliding	03:14	03:24	0.17	4342	4352	10	22	60.0		8000	500	3300	70R	6.15	300.92	0.97	
2	3-Jan	Drilling	03:24	03:48	0.40	4352	4531	179	26	447.5	65	8000	600	3300		6.94	305.11	0.55	
2	3-Jan	Sliding	03:55	04:02	0.12	4531	4539	8	22	68.6		8000	500	3300	90R	6.90	305.22	0.55	
2	3-Jan	Drilling	04:02	04:32	0.50	4539	4722	183	26	366.0	65	8000	600	3300		6.43	309.31	0.53	
2	3-Jan	Sliding	04:44	04:50	0.10	4722	4730	8	22	80.0		8000	500	3300	80R	6.46	309.61	0.53	
2	3-Jan	Drilling	04:50	05:16	0.43	4730	4911	181	26	417.7	65	8000	600	3300		6.71	312.92	0.36	
2	3-Jan	Drilling	05:24	06:10	0.77	4911	5101	190	26	247.8	65	8000	600	3300		6.38	308.24	0.42	
2	3-Jan	Drilling	06:20	06:45	0.42	5101	5196	95	26	228.0	65	8000	600	3300		6.48	304.78	0.42	
2	3-Jan	Sliding	06:45	06:55	0.17	5196	5203	7	22	42.0	65	8000	500	3300	80R	6.49	304.53	0.42	
2	3-Jan	Drilling	06:55	07:10	0.25	5203	5291	88	26	352.0	65	8000	600	3300		6.37	306.16	0.59	
2	3-Jan	Sliding	07:20	07:25	0.08	5291	5299	8	22	96.0	65	8000	500	3300	80R	6.35	306.54	0.59	
2	3-Jan	Drilling	07:25	08:10	0.75	5299	5480	181	26	241.3	65	8000	600	3300		5.84	315.05	0.57	
2	3-Jan	Drilling	08:20	08:50	0.50	5480	5575	95	22	190.0	60	9000	440	2500		5.49	319.26	0.57	
2	3-Jan	Sliding	08:50	09:00	0.17	5575	5585	10	22	60.0	60	9000	500	2500	80R	5.45	319.73	0.57	
2	3-Jan	Drilling	09:00	09:15	0.25	5585	5670	85	22	340.0	60	9000	440	2500		4.78	325.36	1.20	
2	3-Jan	Drilling	09:25	10:15	0.83	5670	5860	190	22	228.0	60	9000	440	2500		3.00	337.66	1.06	
2	3-Jan	Sliding	10:25	10:30	0.08	5860	5867	7	22	84.0	60	9000	500	2500	80R	2.93	337.29	1.06	
2	3-Jan	Drilling	10:30	10:55	0.42	5867	5954	87	22	208.8	60	9000	440	2500		2.05	330.58	1.06	
2	3-Jan	Sliding	10:55	11:05	0.17	5954	5962	8	22	48.0	60	9000	500	2500	80R	1.97	329.66	1.06	
2	3-Jan	Drilling	11:05	11:20	0.25	5962	6049	87	22	348.0	60	9000	440	2500		1.95	318.37	0.59	
2	3-Jan	Sliding	11:30	11:40	0.17	6049	6059	10	22	60.0	60	9000	500	2500	80R	1.99	317.31	0.59	
2	3-Jan	Drilling	11:40	12:00	0.33	6059	6144	85	22	255.0	60	9000	440	2500		2.41	310.03	0.59	
2	3-Jan	Sliding	12:00	12:05	0.08	6144	6154	10	22	120.0	60	9000	440	2500		2.46	309.34	0.59	
2	3-Jan	Drilling	12:05	12:20	0.25	6154	6238	84	22	336.0	60	9000	440	2500		2.58	298.69	0.70	
2	3-Jan	Sliding	12:30	12:40	0.17	6238	6252	14	22	84.0	60	9000	440	2500		2.59	296.51	0.70	
2	3-Jan	Drilling	12:40	13:05	0.42	6252	6333	81	22	194.4	60	9000	440	2500		2.69	284.36	0.70	
2	3-Jan	Sliding	13:05	13:20	0.25	6333	6348	15	22	60.0	60	9000	440	2500		2.72	282.23	0.70	
2	3-Jan	Drilling	13:20	13:35	0.25	6348	6428	80	26	320.0	65	9000	550	3500		3.44	284.75	1.26	
2	3-Jan	Sliding	13:50	14:05	0.25	6428	6443	15	22	60.0	65	9000	440	3500		3.61	285.85	1.26	
2	3-Jan	Drilling	14:05	14:15	0.17	6443	6523	80	26	480.0	65	9000	550	3500		4.57	290.27	1.26	

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	3-Jan	Sliding	14:50	15:00	0.17	6523	6529	6	22	36.0	65	9000	440	3500		4.65	290.52	1.26	
2	3-Jan	Drilling	15:00	15:25	0.42	6529	6617	88	26	211.2	65	9000	550	3500		5.21	295.29	0.65	
2	3-Jan	Sliding	15:35	15:50	0.25	6617	6629	12	22	48.0	65	9000	440	3500		5.25	296.00	0.65	
2	3-Jan	Drilling	15:50	16:35	0.75	6629	6806	177	26	236.0	65	9000	550	3500		5.02	304.21	1.26	
2	3-Jan	Drilling	16:45	17:20	0.58	6806	6932	126	26	216.0	65	9000	550	3500		3.30	295.29	3.78	
2	3-Jan	Sliding	17:35	17:55	0.33	6932	6950	18	20	54.0	65	9000	500	3300		2.85	272.76	8.77	
2	3-Jan	Drilling	17:55	18:00	0.08	6950	6964	14	26	168.0	65	9000	550	3300		2.90	248.11	8.77	
2	3-Jan	Sliding	18:05	18:26	0.35	6964	6982	18	20	51.4		9000	500	3300	180M	3.95	224.30	10.12	
2	3-Jan	Drilling	18:26	18:32	0.10	6982	6996	14	26	140.0	65	9000	550	3300		5.13	214.31	10.12	
2	3-Jan	Sliding	18:37	19:04	0.45	6996	7014	18	20	40.0		9000	500	3300	180M	6.40	206.54	7.56	
2	3-Jan	Drilling	19:04	19:09	0.08	7014	7027	13	26	156.0	30	9000	550	3300		7.25	202.51	7.56	
2	3-Jan	Sliding	19:19	19:39	0.33	7027	7040	13	20	39.0		9000	500	3300	180M	8.24	200.09	8.46	
2	3-Jan	Drilling	19:39	19:43	0.07	7040	7059	19	26	285.0	30	9000	550	3300		9.82	198.27	8.46	
2	3-Jan	Sliding	19:50	20:15	0.42	7059	7074	15	20	36.0		9000	500	3300	360	11.50	198.21	12.61	
2	3-Jan	Drilling	20:15	20:20	0.08	7074	7091	17	26	204.0	30	9000	550	3300		13.64	198.63	12.61	
2	3-Jan	Sliding	20:31	20:55	0.40	7091	7113	22	20	55.0	0	9000	500	3300	360	15.63	197.12	8.37	
2	3-Jan	Drilling	20:55	21:00	0.08	7113	7122	9	26	108.0	30	9000	550	3300		16.36	196.38	8.37	
2	3-Jan	Sliding	21:05	21:21	0.27	7122	7135	13	20	48.8		9000	500	3300	30L	17.15	195.48	5.23	
2	3-Jan	Drilling	21:21	21:32	0.18	7135	7154	19	26	103.6	30	9000	550	3300		18.08	194.34	5.23	
2	3-Jan	Sliding	21:42	21:55	0.22	7154	7161	7	20	32.3		9000	500	3300	30L	18.45	193.96	6.02	
2	3-Jan	Drilling	21:55	22:05	0.17	7161	7185	24	26	144.0	30	9000	550	3300		19.84	192.81	6.02	
2	3-Jan	Sliding	22:16	22:40	0.40	7185	7201	16	20	40.0		9000	500	3300	30L	21.16	190.71	11.69	
2	3-Jan	Drilling	22:40	22:45	0.08	7201	7217	16	26	192.0	30	9000	550	3300		22.75	188.09	11.69	
2	3-Jan	Sliding	23:22	23:46	0.40	7217	7237	20	20	50.0	30	9000	500	3300	-45	25.14	185.57	13.43	
2	3-Jan	Drilling	23:46	23:50	0.07	7237	7249	12	26	180.0	30	9000	500	3500		26.66	184.32	13.43	
2	4-Jan	Sliding	00:00	00:12	0.20	7249	7262	13	20	65.0	30	9000	500	3500	360	27.84	183.39	7.28	
2	4-Jan	Drilling	00:12	00:18	0.10	7262	7280	18	26	180.0	30	9000	500	3500		29.07	182.45	7.28	
2	4-Jan	Sliding	00:28	00:44	0.27	7280	7286	6	20	22.5		9000	500	3500	360	29.46	182.14	5.93	
2	4-Jan	Drilling	00:44	00:54	0.17	7286	7312	26	26	156.0	30	9000	500	3500		30.82	180.68	5.93	
2	4-Jan	Sliding	01:05	01:17	0.20	7312	7320	8	20	40.0		9000	500	3500	360	31.38	180.14	11.02	
2	4-Jan	Drilling	01:17	01:25	0.13	7320	7343	23	26	172.5	30	9000	500	3500		33.68	178.18	11.02	
2	4-Jan	Sliding	01:35	01:55	0.33	7343	7364	21	20	63.0		9000	500	3500	360	35.98	177.40	11.32	
2	4-Jan	Drilling	01:55	02:00	0.08	7364	7375	11	26	132.0	30	9000	500	3500		37.22	177.18	11.32	
2	4-Jan	Sliding	02:16	02:30	0.23	7375	7386	11	20	47.1		9000	500	3500	360	38.08	177.19	5.16	
2	4-Jan	Drilling	02:30	02:39	0.15	7386	7407	21	26	140.0	30	9000	500	3500		39.15	177.51	5.16	

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
2	4-Jan	Sliding	02:49	02:57	0.13	7407	7415	8	20	60.0		9000	500	3500	30	39.64	177.78	9.04	
2	4-Jan	Drilling	02:57	03:05	0.13	7415	7438	23	26	172.5	30	9000	500	3500		41.52	179.15	9.04	
2	4-Jan	Sliding	03:15	03:30	0.25	7438	7456	18	20	72.0		9000	500	3500	45	43.63	179.93	13.30	
2	4-Jan	Drilling	03:30	03:37	0.12	7456	7470	14	26	120.0	30	9000	500	3500		45.46	180.43	13.30	
2	4-Jan	Sliding	03:47	04:22	0.58	7470	7494	24	20	41.1		9000	500	3500	30	48.71	181.53	14.14	
2	4-Jan	Drilling	04:22	04:28	0.10	7494	7501	7	26	70.0	30	9000	500	3500		49.67	181.86	14.14	
2	4-Jan	Sliding	04:33	04:55	0.37	7501	7513	12	20	32.7		9000	500	3500	30	51.05	182.11	9.32	
2	4-Jan	Drilling	04:55	05:04	0.15	7513	7533	20	26	133.3	30	9000	500	3500		52.91	182.06	9.32	
2	4-Jan	Sliding	05:12	05:31	0.32	7533	7546	13	20	41.1		9000	500	3500	360	54.25	181.75	11.35	
2	4-Jan	Drilling	05:31	05:42	0.18	7546	7565	19	26	103.6	30	9000	500	3500		56.33	181.05	11.35	
2	4-Jan	Sliding	06:00	06:25	0.42	7565	7580	15	20	36.0		9000	500	3500	360	58.31	180.40	14.87	
2	4-Jan	Drilling	06:25	06:35	0.17	7580	7596	16	26	96.0	30	9000	500	3500		60.61	179.69	14.87	
2	4-Jan	Sliding	06:45	07:05	0.33	7596	7613	17	20	51.0		9000	500	3500	360	63.15	179.34	15.18	
2	4-Jan	Drilling	07:05	07:20	0.25	7613	7628	15	26	60.0	30	9000	500	3500		65.42	179.19	15.18	
2	4-Jan	Sliding	07:45	08:05	0.33	7628	7641	13	20	39.0		9000	500	3500	360	66.95	179.06	9.70	
2	4-Jan	Drilling	08:05	08:15	0.17	7641	7659	18	26	108.0	30	9000	500	3500		68.69	178.89	9.70	
2	4-Jan	Sliding	08:30	08:50	0.33	7659	7665	6	20	18.0		9000	500	3500	360	69.27	178.83	9.70	
2	4-Jan	Drilling	08:50	09:05	0.25	7665	7691	26	26	104.0	30	9000	500	3500		71.66	178.44	9.30	
2	4-Jan	Sliding	09:10	09:55	0.75	7691	7698	7	20	9.3		9000	500	3500	360	72.36	178.37	12.16	
2	4-Jan	Drilling	09:55	10:15	0.33	7698	7723	25	26	75.0	30	9000	500	3500		75.40	178.39	12.16	
2	4-Jan	Sliding	10:25	11:54	1.48	7723	7739	16	20	10.8		9000	500	3500	360	77.41	178.47	12.75	
2	4-Jan	Drilling	11:54	12:12	0.30	7739	7754	15	26	50.0	30	9000	500	3500		79.32	178.57	12.75	
2	4-Jan	Sliding	12:30	13:25	0.92	7754	7764	10	20	10.9		9000	500	3500	360	80.59	178.64	12.75	
2	4-Jan	Drilling	13:25	13:50	0.42	7764	7786	22	26	52.8	30	9000	500	3500		83.39	178.78	12.75	
2	4-Jan	Sliding	13:55	14:50	0.92	7786	7795	9	20	9.8		9000	500	3500	360	84.54	178.84	12.75	
2	4-Jan	Drilling	14:50	15:05	0.25	7795	7817	22	26	88.0	30	9000	500	3500		86.50	179.30	8.38	

Total Drilled: 6588 **Avg. Total ROP:** 177.02

DEPTH% - TIME %

Total Rotary Drilled: 5968 **Avg. Rotary ROP:** 272.30

Percent Rotary: 90.59 - 58.89

Total Drilled Sliding: 620 **Avg. Slide ROP:** 40.52

Percent Slide: 9.41 - 41.11

BHA # 3

JOB NO.: 98152 Work Order:
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Weld
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
SECT. RANGE: 26 66W
Lead DD: Kevin Hoshall (10931)
Co. Man: Dave Hildreth / Rich Borner
BHA TYPE:
BHA WT: 148865 Wt @ Jars: N/A

Time and Depths		MOTOR DATA	Drilling Parameters	
Date In:	06-Jan-14 @ 14:00	Wenzel Drill Motor	SO/PU:	98 - 120 / 110-145
Date Out:	08-Jan-14 @ 07:10	MFG.: Wenzel	Rot Strg Wt:	105-130
Hrs In Hole:	41.17	Pad OD: 5 1/4	WOB:	8 - 26
Start Depth:	7817.00	NB Stab: 0	TORQ:	8000 - 9500
End Depth:	9673.00	Bit to Bend: 4.25	SPP:	2200 - 3600
Total Drilled:	1846.00	Bent Hsg/Sub°: 1.5 / 1.5	Motor RPM:	281 - 520
Avg. Total ROP:	154.26	Lobe/Stage: 5/6 / 8.3	Rotary RPM:	30 - 65
Circ Hrs: Tot/Only	14.50 / 2.53	Rev/GAL: 1.04	Flow Rate:	270 - 500
Percent Slide:	4.66	Rotor Jet: 0	Avg Diff:	
Percent Hrs:	25.49	Prop BUR:	Stall Pres.:	
Slide Hours:	3.05	Act BUR:	Off Bot Pres.:	
Total Sliding:	86.00			
Avg. Slide ROP:	28.20			
Percent Rotary:	95.34			
Percent Hrs:	74.51			
Rotary Hours:	8.92			
Total Rotary:	1760.00			
Avg. Rotary ROP:	197.38			
Reason POOH:	DTF			

MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 0	Last Casing	O.D. 7.00
	GYRO: 0	DNSC: 7818	Sonic: 0	Shoe @:	7794 Hanger @:

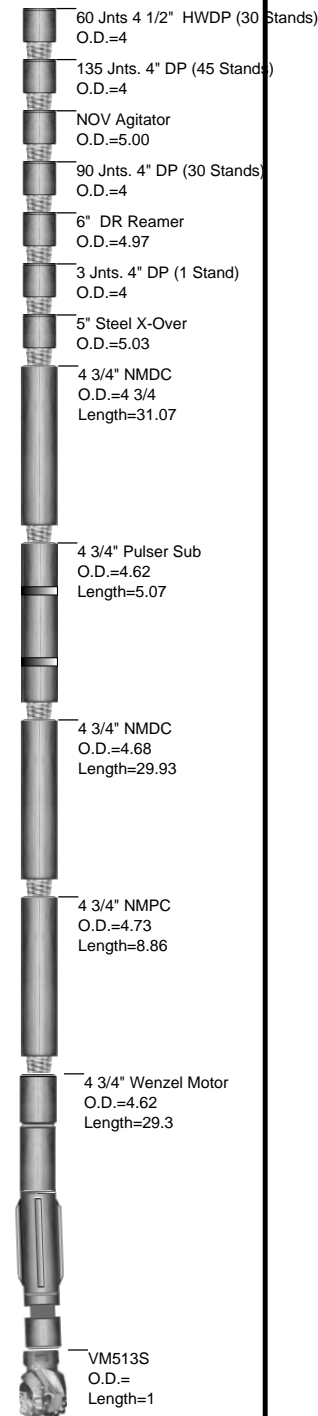
INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

- Wenzel 4 3/4" 5/6 8.3stg Drill Motor 1.5FBH
- Speed Ratio is 1.04 RPG
- TFO: 329.78

- Bit to Sensor - 59.65'
- Bit to Survey - 62'
- Bit to Gamma - 50.40'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
VM513S	4005724			1.00	1.00	3 1/2 REGP	Varel
4 3/4" Wenzel Motor	475-m5-281		4.62	29.30	30.30	3 1/2 IFB	Wenzel
4 3/4" NMPC	17-063	2 7/8	4.73	8.86	39.16	3 1/2 IFB	SDI
4 3/4" NMDC	121-269	2 7/8	4.68	29.93	69.09	3 1/2 IFB	SDI
4 3/4" Pulser Sub	65-063	3	4.62	5.07	74.16	3 1/2 IFB	SDI
4 3/4" NMDC	121-536	2 7/8	4 3/4	31.07	105.23	3 1/2 IFB	SDI
5" Steel X-Over	SD113866	2 7/8	5.03	1.83	107.06	XT 39B	Stabil Drill
3 Jnts. 4" DP (1 Stand)	RIG101112	3 1/4	4	95.01	202.07	XT 39B	Other
6" DR Reamer	A1845	2 7/8	4.97	4.03	206.10	XT 39B	Other
90 Jnts. 4" DP (30 Stands)	Rig 456	3 1/4	4	2,843.07	3049.17	XT 39B	Other
NOV Agitator	W1375423-1		5.00	22.35	3071.52	XT 39B	Other
135 Jnts. 4" DP (45 Stands)	Rig 789	3 1/4	4	4,263.68	7335.20	XT 39B	Other
60 Jnts 4 1/2" HWDP (30 Stands)	Rig123	2 7/8	4	1,858.92	9194.12	XT 39B	Other



JOB NO.: 98152
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Country
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
Range 66W

MOTOR INFORMATION

Desc: Wenzel Drill Motor
Bent Hsg/Sub: 1.5 / 1.5 **Bit to Bend:** 4.25
Pad OD: 5 1/4 **NB Stab:**

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	7-Jan	Drilling	01:46	01:55	0.15	7817	7828	11	26	73.3	30	9000	500	2200		87.38	179.56	8.38	
3	7-Jan	Sliding	03:55	04:17	0.37	7828	7842	14	20	38.2		9000	500	2200	20	87.73	179.63	1.60	
3	7-Jan	Drilling	04:17	04:25	0.13	7842	7861	19	26	142.5	30	9000	500	2200		88.03	179.65	1.60	
3	7-Jan	Drilling	04:45	04:53	0.13	7861	7892	31	26	232.5	30	9000	500	2200		88.53	179.70	1.60	
3	7-Jan	Drilling	05:16	05:40	0.40	7892	7985	93	26	232.5	30	9000	500	2200		88.44	180.27	1.26	
3	7-Jan	Sliding	06:00	06:30	0.50	7985	7995	10	20	20.0	30	9000	500	2200	20	88.35	180.35	1.26	
3	7-Jan	Drilling	06:30	06:50	0.33	7995	8078	83	26	249.0	30	9000	500	2200		87.93	179.64	1.48	
3	7-Jan	Drilling	07:15	07:40	0.42	8078	8171	93	26	223.2	30	9000	500	2200		88.45	179.81	1.42	
3	7-Jan	Sliding	07:50	07:55	0.08	8171	8179	8	20	96.0	30	9000	270	3000	20	88.53	179.89	1.42	
3	7-Jan	Drilling	07:55	08:10	0.25	8179	8264	85	26	340.0	60	9000	270	3000		89.09	179.60	1.00	
3	7-Jan	Drilling	08:25	09:00	0.58	8264	8357	93	26	159.4	60	9000	270	3000		89.26	180.27	1.51	
3	7-Jan	Sliding	09:10	09:20	0.17	8367	8363	-4	20	-24.0	60	9000	270	3000	20	89.26	180.36	1.51	
3	7-Jan	Drilling	09:20	09:50	0.50	8363	8450	87	26	174.0	60	9000	270	3000		90.11	180.75	1.38	
3	7-Jan	Sliding	10:30	10:40	0.17	8450	8458	8	20	48.0	60	9000	270	3000	20	90.22	180.76	1.38	
3	7-Jan	Drilling	10:40	11:00	0.33	8458	8543	85	26	255.0	60	9000	270	3000		89.95	180.14	1.38	
3	7-Jan	Drilling	11:15	11:35	0.33	8543	8636	93	26	279.0	60	9000	270	3000		90.07	179.48	0.86	
3	7-Jan	Sliding	11:50	12:00	0.17	8636	8644	8	20	48.0	60	9000	270	3000	20	90.12	179.44	0.86	
3	7-Jan	Drilling	12:00	12:15	0.25	8644	8729	85	26	340.0	60	9000	270	3000		90.11	179.50	0.40	
3	7-Jan	Drilling	12:35	12:55	0.33	8729	8822	93	26	279.0	60	9000	270	3000		90.24	178.05	2.52	
3	7-Jan	Sliding	13:10	13:20	0.17	8822	8832	10	20	60.0	60	9000	270	3000	20	90.27	177.80	2.52	
3	7-Jan	Drilling	13:20	13:40	0.33	8832	8915	83	12	249.0	65	8000	270	3300		89.91	177.29	0.69	
3	7-Jan	Drilling	13:50	14:20	0.50	8915	9008	93	12	186.0	65	8000	270	3300		90.21	177.66	1.02	
3	7-Jan	Sliding	14:32	14:48	0.27	9008	9015	7	20	26.3	0	8000	270	3300	10	90.27	177.71	1.02	
3	7-Jan	Drilling	14:48	15:08	0.33	9015	9101	86	12	258.0	65	8000	270	3300		90.40	177.92	0.16	
3	7-Jan	Drilling	15:34	16:00	0.43	9101	9194	93	12	214.6	65	8000	270	3300		90.17	176.91	1.72	
3	7-Jan	Drilling	16:10	16:55	0.75	9194	9288	94	12	125.3	65	8000	270	3300		90.75	176.42	1.10	

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	7-Jan	Drilling	17:15	18:30	1.25	9288	9383	95	12	76.0	65	8000	270	3300		90.43	176.25	1.14	
3	7-Jan	Sliding	18:55	19:15	0.33	9383	9395	12	18	36.0	0	8000	270	3300	135	90.30	176.21	1.14	
3	7-Jan	Drilling	19:15	19:40	0.42	9395	9478	83	12	199.2	65	8000	270	3300		89.80	176.46	0.66	
3	7-Jan	Sliding	19:45	20:15	0.50	9478	9486	8	18	16.0	0	8000	270	3300	120	89.77	176.50	0.66	
3	7-Jan	Drilling	20:15	20:35	0.33	9486	9573	87	8	261.0	65	9500	270	3600		89.66	176.54	0.15	
3	7-Jan	Drilling	20:45	21:10	0.42	9573	9668	95	8	228.0	65	9500	270	3600		89.97	177.59	1.85	
3	7-Jan	Sliding	21:15	21:35	0.33	9668	9673	5	18	15.0		9500	270	3600	90R	89.99	177.68	1.85	

Total Drilled: 1846 **Avg. Total ROP:** 154.26 **DEPTH% - TIME %**

Total Rotary Drilled: 1760 **Avg. Rotary ROP:** 197.38 **Percent Rotary:** 95.34 - 74.51

Total Drilled Sliding: 86 **Avg. Slide ROP:** 28.20 **Percent Slide:** 4.66 - 25.49

BHA # 4

JOB NO.: 98152 Work Order:
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Weld
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
SECT. RANGE: 26 66W
Lead DD: Kevin Hoshall (10931)
Co. Man: Dave Hildreth / Rich Borner
BHA TYPE:
BHA WT: 149069 Wt @ Jars: N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 08-Jan-14 @ 07:10	Wenzel Drill Motor	SO/PU: 28 - 120 / 145-226
Date Out: 12-Jan-14 @ 19:30	MFG.: Wenzel	Rot Strg Wt: 115-133
Hrs In Hole: 108.33	Pad OD: 5 1/4	WOB: 9 - 46
Start Depth: 9673.00	NB Stab: 0	TORQ: 16 - 16000
End Depth: 14214.00	Bit to Bend: 4.25	SPP: 2900 - 3600
Total Drilled: 4541.00	Bent Hsg/Sub°: 1.5 /	Motor RPM: 270
Avg. Total ROP: 72.42	Lobe/Stage: 5/6 / 8.3	Rotary RPM: 65 - 65
Circ Hrs: Tot/Only 75.37 / 12.67	Rev/GAL: 1.04	Flow Rate: 244 - 260
Percent Slide: 10.24	Rotor Jet: 0	Avg Diff: 800
Percent Hrs: 59.52	Prop BUR: 0	Stall Pres.: 1200
Slide Hours: 37.32	Act BUR: 15	Off Bot Pres.:
Total Sliding: 465.00		
Avg. Slide ROP: 12.46		
Percent Rotary: 89.76		
Percent Hrs: 40.48		
Rotary Hours: 25.38		
Total Rotary: 4076.00		
Avg. Rotary ROP: 160.58		
Reason POOH:		

MWD Spacing	Gamma: 51.53 Restiv: 0 Sensor: 63	Last Casing O.D. 7.00
	GYRO: 0 DNSC: 9672 Sonic: 0	Shoe @: 7794 Hanger @:

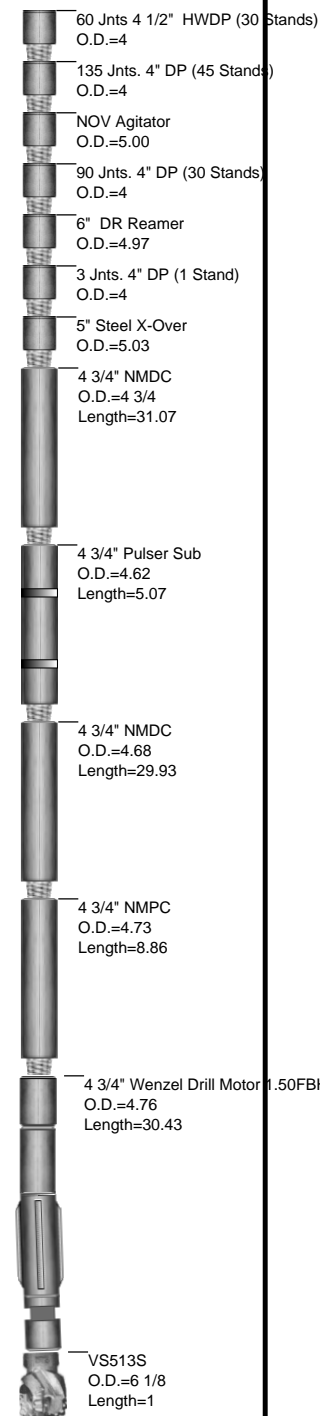
INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

- Wenzel 4 3/4" 5/6 8.3stg Drill Motor 1.5FBH
- Speed Ratio is 1.04 RPG
- TFO: 51.11

- Bit to Sensor - 60.78'
- Bit to Survey - 63'
- Bit to Gamma - 51.53'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
VS513S	4005752		6 1/8	1.00	1.00	3 1/2 REGP	Varel
4 3/4" Wenzel Drill Motor 1.50FBH	475-M5-170		4.76	30.43	31.43	3 1/2 IFB	Wenzel
4 3/4" NMPC	17-063	2 7/8	4.73	8.86	40.29	3 1/2 IFB	SDI
4 3/4" NMDC	121-269	2 7/8	4.68	29.93	70.22	3 1/2 IFB	SDI
4 3/4" Pulser Sub	65-063	3	4.62	5.07	75.29	3 1/2 IFB	SDI
4 3/4" NMDC	121-536	2 7/8	4 3/4	31.07	106.36	3 1/2 IFB	SDI
5" Steel X-Over	SD113866	2 7/8	5.03	1.83	108.19	XT 39B	Stabil Drill
3 Jnts. 4" DP (1 Stand)	RIG101112	3 1/4	4	95.01	203.20	XT 39B	Other
6" DR Reamer	A1845	2 7/8	4.97	4.03	207.23	XT 39B	Other
90 Jnts. 4" DP (30 Stands)	Rig 456	3 1/4	4	2,843.07	3050.30	XT 39B	Other
NOV Agitator	W1375423-1		5.00	22.35	3072.65	XT 39B	Other
135 Jnts. 4" DP (45 Stands)	Rig 789	3 1/4	4	4,263.68	7336.33	XT 39B	Other
60 Jnts 4 1/2" HWDP (30 Stands)	Rig123	2 7/8	4	1,858.92	9195.25	XT 39B	Other



JOB NO.: 98152
Company: EnCana Oil & Gas (USA) Inc.
LOCATION:
RIG NAME: Ensign 124
STATE: Colorado
COUNTY: Country
WELL NAME: Rodman Bruntz 2B -26H

FIELD: Wattenberg
Township: 2N
Range 66W

MOTOR INFORMATION

Desc: Wenzel Drill Motor
Bent Hsg/Sub: 1.5 / 0 **Bit to Bend:** 4.25
Pad OD: 5 1/4 **NB Stab:**

Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	8-Jan	Sliding	16:25	16:45	0.33	9673	9679	6	33	18.0	0	0	260	2900	70	90.02	177.79	1.85	
4	8-Jan	Drilling	16:45	17:05	0.33	9679	9764	85	9	255.0	65	7000	260	3300		90.81	177.62	1.39	
4	8-Jan	Sliding	17:15	17:30	0.25	9764	9769	5	33	20.0	65	7000	260	3300	70	90.86	177.58	1.39	
4	8-Jan	Drilling	17:30	17:50	0.33	9769	9858	89	9	267.0	65	7000	260	3300		91.39	178.10	1.25	
4	8-Jan	Sliding	18:05	18:40	0.58	9858	9870	12	33	20.6	0	7000	260	3300	120	91.43	178.24	1.25	
4	8-Jan	Drilling	18:40	19:40	1.00	9870	9953	83	9	83.0	65	7000	260	3300		92.02	178.29	0.87	
4	8-Jan	Sliding	19:50	19:55	0.08	9953	9963	10	33	120.0	65	7000	260	3300	135	92.10	178.26	0.87	
4	8-Jan	Drilling	19:55	20:40	0.75	9963	10048	85	9	113.3	65	7000	260	3300		91.82	178.58	0.96	
4	8-Jan	Sliding	20:45	21:10	0.42	10048	10063	15	33	36.0	65	7000	260	3300	135	91.71	178.67	0.96	
4	8-Jan	Drilling	21:10	21:30	0.33	10063	10143	80	9	240.0	65	7000	260	3300		90.71	178.20	1.66	
4	8-Jan	Sliding	21:35	22:00	0.42	10143	10156	13	33	31.2	65	7000	260	3300	160	90.53	178.08	1.66	
4	8-Jan	Drilling	22:00	22:20	0.33	10156	10238	82	9	246.0	65	7000	260	3300		89.83	177.89	0.71	
4	8-Jan	Sliding	22:25	22:45	0.33	10238	10253	15	33	45.0		7000	260	3300	120	89.72	177.89	0.71	
4	8-Jan	Drilling	22:45	23:05	0.33	10253	10333	80	12	240.0	65	7000	260	3300		90.13	178.26	1.04	
4	8-Jan	Sliding	23:10	23:30	0.33	10333	10348	15	33	45.0		7000	260	3300	90	90.26	178.36	1.04	
4	8-Jan	Drilling	23:30	24:00	0.50	10348	10428	80	12	160.0	65	7000	260	3300		90.00	178.69	0.73	
4	9-Jan	Sliding	00:10	00:20	0.17	10428	10440	12	33	72.0		7000	260	3300	110	89.93	178.74	0.73	
4	9-Jan	Drilling	00:20	00:57	0.62	10440	10523	83	12	134.6	65	7000	260	3400		90.11	178.21	1.08	
4	9-Jan	Drilling	01:03	01:30	0.45	10523	10618	95	12	211.1	65	7000	260	3400		90.00	177.95	0.43	
4	9-Jan	Sliding	01:40	01:59	0.32	10618	10633	15	33	47.4		12000	260	3400	110	89.94	177.96	0.43	
4	9-Jan	Drilling	01:59	02:23	0.40	10633	10712	79	12	197.5	65	12000	260	3400		89.91	177.56	0.65	
4	9-Jan	Drilling	02:27	02:54	0.45	10712	10806	94	12	208.9	65	12000	260	3400		89.55	177.71	0.82	
4	9-Jan	Sliding	03:02	03:22	0.33	10806	10821	15	33	45.0		12000	260	3400	90	89.46	177.80	0.82	
4	9-Jan	Drilling	03:22	03:55	0.55	10821	10901	80	12	145.5	65	12000	260	3400		89.52	178.23	0.60	
4	9-Jan	Sliding	04:02	04:27	0.42	10901	10916	15	33	36.0		12000	260	3400	90	89.56	178.32	0.60	
4	9-Jan	Drilling	04:27	04:57	0.50	10916	10996	80	12	160.0	65	12000	260	3400		89.93	177.99	0.85	

Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	9-Jan	Drilling	05:05	05:25	0.33	10996	11091	95	12	285.0	65	12000	260	3400		90.17	178.64	1.37	
4	9-Jan	Sliding	05:35	06:05	0.50	11091	11106	15	33	30.0	65	12000	260	3400	90	90.18	178.85	1.37	
4	9-Jan	Drilling	06:05	06:20	0.25	11106	11186	80	33	320.0	65	12000	260	3400	90	90.38	177.87	1.94	
4	9-Jan	Drilling	06:30	07:05	0.58	11186	11280	94	33	161.1	65	12000	260	3400		90.45	177.78	0.79	
4	9-Jan	Sliding	07:15	07:50	0.58	11280	11292	12	33	20.6	0	12000	260	3400	100	90.45	177.87	0.79	
4	9-Jan	Drilling	07:50	08:30	0.67	11292	11375	83	33	124.5	65	12000	260	3400		90.15	178.32	0.66	
4	9-Jan	Sliding	08:40	09:30	0.83	11375	11387	12	33	14.4	0	12000	260	3400	110	90.09	178.38	0.66	
4	9-Jan	Drilling	09:30	09:55	0.42	11387	11470	83	33	199.2	65	12000	260	3400		89.73	178.83	0.72	
4	9-Jan	Sliding	10:05	10:50	0.75	11470	11485	15	33	20.0	65	12000	260	3400	100	89.67	178.92	0.72	
4	9-Jan	Drilling	10:50	11:05	0.25	11485	11565	80	33	320.0	65	12000	260	3400		90.36	178.95	1.22	
4	9-Jan	Drilling	11:15	11:40	0.42	11565	11659	94	33	225.6	65	12000	260	3400		89.18	177.69	3.15	
4	9-Jan	Sliding	11:50	12:35	0.75	11659	11669	10	33	13.3	0	12000	260	3400	160	88.93	177.49	3.15	
4	9-Jan	Drilling	12:35	12:55	0.33	11669	11754	85	33	255.0	65	12000	260	3400		89.11	177.79	1.62	
4	9-Jan	Sliding	13:05	13:55	0.83	11754	11769	15	33	18.0	0	12000	260	3400	80	89.28	177.96	1.62	
4	9-Jan	Drilling	13:55	14:15	0.33	11769	11848	79	33	237.0	65	12000	260	3400		89.90	178.08	0.71	
4	9-Jan	Sliding	14:45	15:40	0.92	11848	11860	12	33	13.1	0	12000	260	3400	80	89.99	178.07	0.71	
4	9-Jan	Drilling	15:40	16:00	0.33	11860	11943	83	33	249.0	65	12000	260	3400		90.40	178.19	0.49	
4	9-Jan	Sliding	16:10	17:00	0.83	11943	11958	15	33	18.0	0	12000	260	3400	90	90.47	178.22	0.49	
4	9-Jan	Drilling	17:00	17:15	0.25	11958	12037	79	33	316.0	65	12000	260	3400		90.79	179.14	1.45	
4	9-Jan	Sliding	17:25	18:20	0.92	12037	12052	15	33	16.4	0	12000	260	3400	90	90.84	179.35	1.45	
4	9-Jan	Drilling	18:20	18:40	0.33	12052	12132	80	33	240.0	65	12000	260	3400		90.62	179.31	0.64	
4	9-Jan	Sliding	18:55	20:00	1.08	12132	12142	10	33	9.2	65	12000	260	3400	100	90.57	179.27	0.64	
4	9-Jan	Drilling	20:00	20:20	0.33	12142	12227	85	33	255.0	65	12000	260	3400		90.24	178.21	1.57	
4	9-Jan	Sliding	20:25	21:50	1.42	12227	12243	16	33	11.3	65	12000	260	3400	80	90.19	177.96	1.57	
4	9-Jan	Drilling	21:50	22:10	0.33	12243	12322	79	33	237.0	65	12000	260	3400		90.18	177.45	0.43	
4	9-Jan	Sliding	22:20	24:00	1.67	12322	12327	5	33	3.0	65	12000	260	3400	80	90.18	177.43	0.43	
4	10-Jan	Drilling	00:00	00:20	0.33	12327	12386	59	33	177.0	65	12000	260	3400		90.36	178.01	2.21	
4	10-Jan	Sliding	00:20	02:15	1.92	12386	12398	12	33	6.3	65	12000	260	3400	80	90.42	178.27	2.21	
4	10-Jan	Drilling	02:15	02:40	0.42	12398	12417	19	33	45.6	65	12000	260	3400		90.51	178.68	2.21	
4	10-Jan	Sliding	02:45	03:50	1.08	12417	12429	12	33	11.1	65	12000	260	3400	80	90.57	178.94	2.21	
4	10-Jan	Drilling	03:50	04:00	0.17	12429	12448	19	33	114.0	65	12000	260	3400		90.67	179.35	2.21	
4	10-Jan	Drilling	04:05	04:25	0.33	12448	12480	32	33	96.0	65	12000	260	3400		90.13	180.05	2.81	
4	10-Jan	Sliding	04:30	05:25	0.92	12480	12490	10	33	10.9	65	12000	260	3400	80	89.95	180.27	2.81	
4	10-Jan	Drilling	05:25	05:45	0.33	12490	12512	22	15	66.0	65	16000	260	3600		89.57	180.76	2.81	
4	10-Jan	Sliding	05:50	07:10	1.33	12512	12527	15	33	11.3	65	16000	260	3600	80	89.31	181.09	2.81	

Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	10-Jan	Drilling	07:10	07:55	0.75	12527	12606	79	15	105.3	65	16000	260	3600		88.63	182.16	1.31	
4	10-Jan	Sliding	08:05	09:05	1.00	12606	12621	15	46	15.0	65	16000	260	3600	90	88.53	182.33	1.31	
4	10-Jan	Drilling	09:05	09:30	0.42	12621	12701	80	12	192.0	65	1400	260	3600		88.93	183.04	1.15	
4	10-Jan	Sliding	09:40	10:55	1.25	12701	12716	15	12	12.0	65	1400	260	3600	70	89.05	183.16	1.15	
4	10-Jan	Drilling	10:55	11:05	0.17	12716	12797	81	12	486.0	65	1400	260	3600		89.91	183.48	1.18	
4	10-Jan	Sliding	11:15	12:05	0.83	12797	12807	10	12	12.0	65	1400	260	3600	80	90.03	183.51	1.18	
4	10-Jan	Drilling	12:05	12:25	0.33	12807	12891	84	12	252.0	65	1400	260	3600		90.58	184.54	1.61	
4	10-Jan	Sliding	12:35	13:25	0.83	12891	12901	10	12	12.0	65	1400	260	3600	135	90.63	184.69	1.61	
4	10-Jan	Drilling	13:25	13:50	0.42	12901	12986	85	12	204.0	65	1400	260	3600		90.20	184.90	0.88	
4	10-Jan	Sliding	14:00	14:55	0.92	12986	12997	11	12	12.0	65	1400	260	3600	180	90.11	184.88	0.88	
4	10-Jan	Drilling	14:55	15:25	0.50	12997	13081	84	12	168.0	65	1400	260	3600		90.61	183.98	1.73	
4	10-Jan	Drilling	15:55	16:30	0.58	13081	13175	94	12	161.1	65	1400	260	3600		89.69	182.49	2.61	
4	10-Jan	Sliding	16:35	19:30	2.92	13175	13190	15	12	5.1	65	1400	260	3600	170	89.40	182.24	2.61	
4	10-Jan	Drilling	19:30	19:50	0.33	13190	13270	80	13	240.0	65	16	260	3480		88.86	181.86	0.35	
4	10-Jan	Sliding	20:00	21:30	1.50	13270	13282	12	12	8.0	65	16	260	3480	105	88.82	181.84	0.35	
4	10-Jan	Drilling	21:30	22:05	0.58	13282	13365	83	13	142.3	65	16	260	3480		88.78	182.19	0.61	
4	10-Jan	Sliding	22:15	24:00	1.75	13365	13380	15	12	8.6	65	16	260	3480	105	88.78	182.29	0.61	
4	11-Jan	Drilling	00:00	00:25	0.42	13380	13460	80	13	192.0	65	16	260	3480		89.22	182.54	0.72	
4	11-Jan	Drilling	00:30	01:20	0.83	13460	13554	94	13	112.8	65	16	260	3480		89.36	181.73	1.41	
4	11-Jan	Drilling	01:25	02:10	0.75	13554	13649	95	13	126.7	65	16	260	3480		89.75	181.41	0.71	
4	11-Jan	Sliding	02:15	03:05	0.83	13649	13649	0	12	0.0	65	16	260	3480	105	89.75	181.41	0.71	
4	11-Jan	Drilling	03:05	04:10	1.08	13649	13744	95	13	87.7	65	16	260	3480		90.73	181.27	1.24	
4	11-Jan	Drilling	04:15	05:15	1.00	13744	13839	95	13	95.0	65	16	244	3350		90.66	180.43	1.37	
4	11-Jan	Sliding	05:20	10:30	5.17	13839	13852	13	12	2.5	65	16	260	3350	105	90.57	180.28	1.37	
4	11-Jan	Drilling	10:30	11:00	0.50	13852	13933	81	13	162.0	65	16	244	3350		91.17	179.73	1.28	
4	11-Jan	Drilling	11:10	11:50	0.67	13933	14028	95	13	142.5	65	16	244	3350		92.23	178.63	1.84	
4	11-Jan	Drilling	12:05	13:05	1.00	14028	14123	95	13	95.0	65	16	244	3350		92.75	177.16	1.59	
4	11-Jan	Drilling	13:20	14:45	1.42	14123	14214	91	13	64.2	65	16	244	3350		92.82	176.72	0.00	

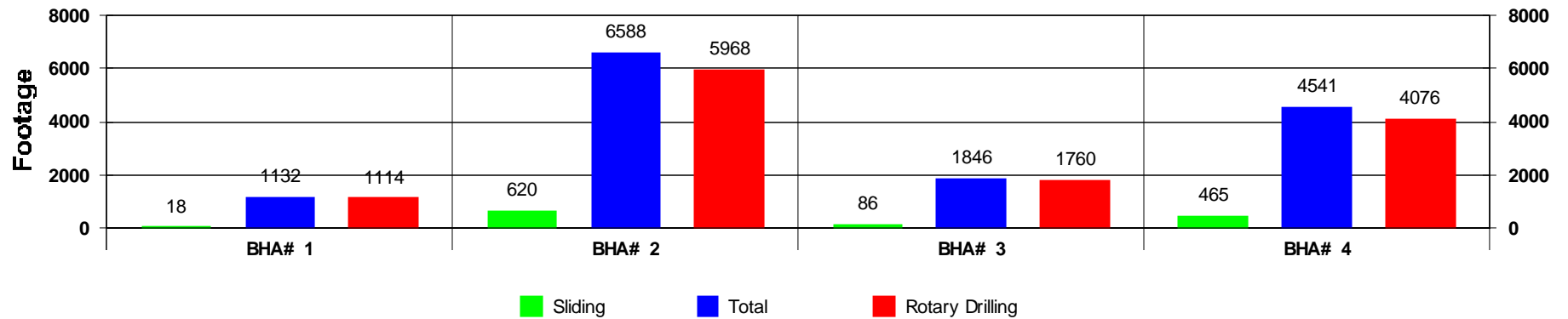
Total Drilled: 4541 **Avg. Total ROP:** 72.42 **DEPTH% - TIME %**

Total Rotary Drilled: 4076 **Avg. Rotary ROP:** 160.58 **Percent Rotary:** 89.76 - 40.48

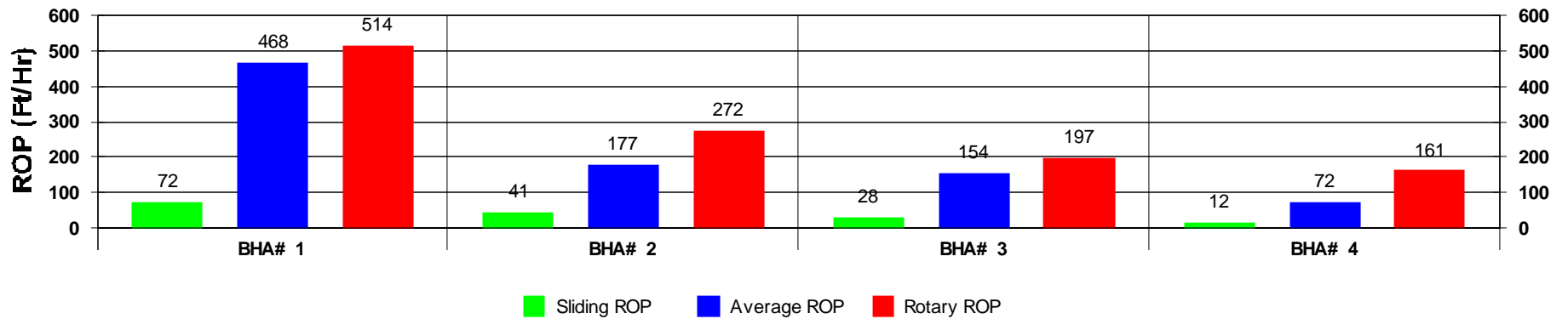
Total Drilled Sliding: 465 **Avg. Slide ROP:** 12.46 **Percent Slide:** 10.24 - 59.52

JOB NO.:	98152	FIELD:	Wattenberg
Company:	EnCana Oil & Gas (USA) Inc.	Township:	2N
LOCATION:		SECTOR RANGE:	26 66W
RIG NAME:	Ensign 124	COMMENT	
STATE:	Colorado		
COUNTY:	Weld		
WELL NAME:	Rodman Bruntz 2B -26H		

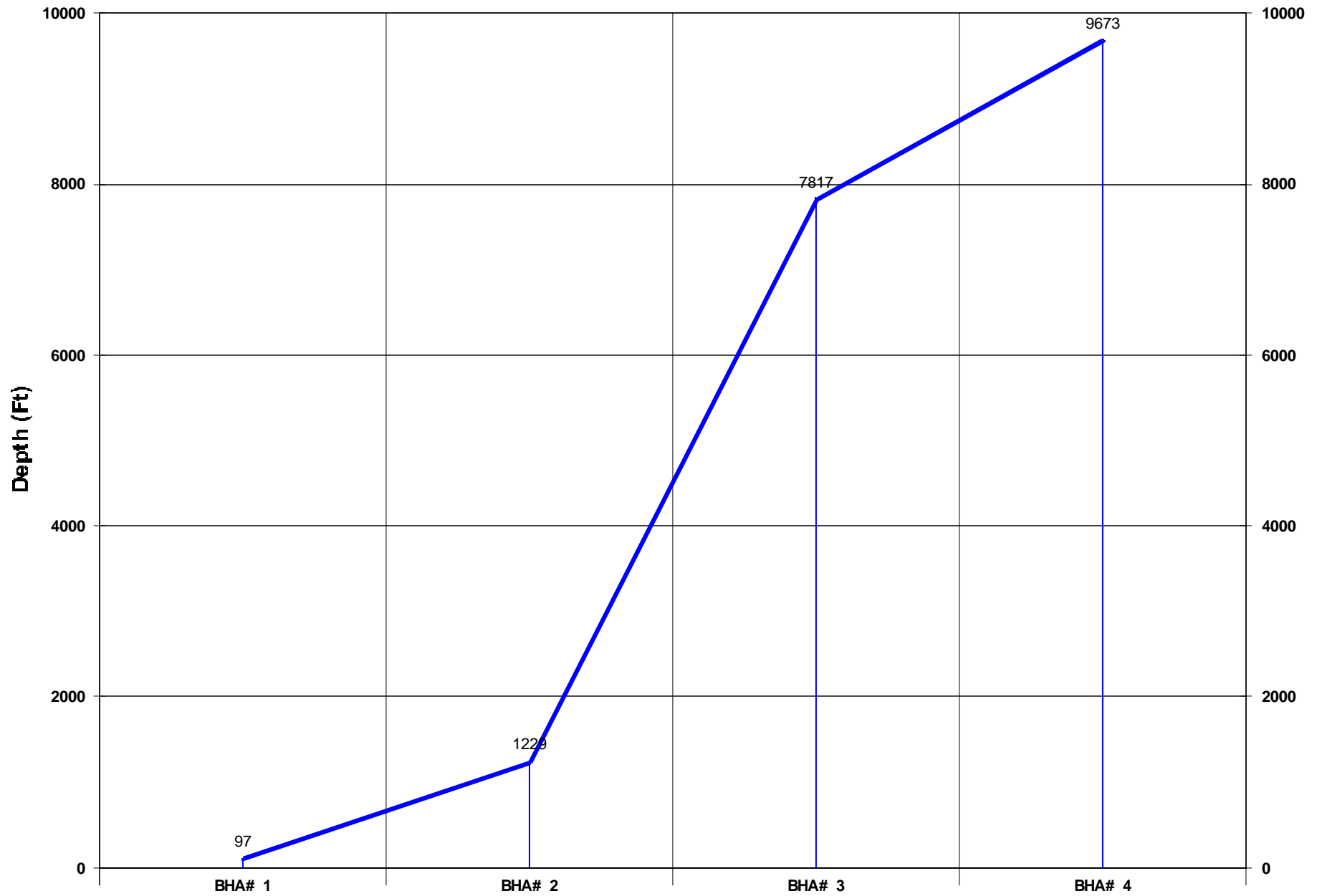
Footage Drilled with BHA



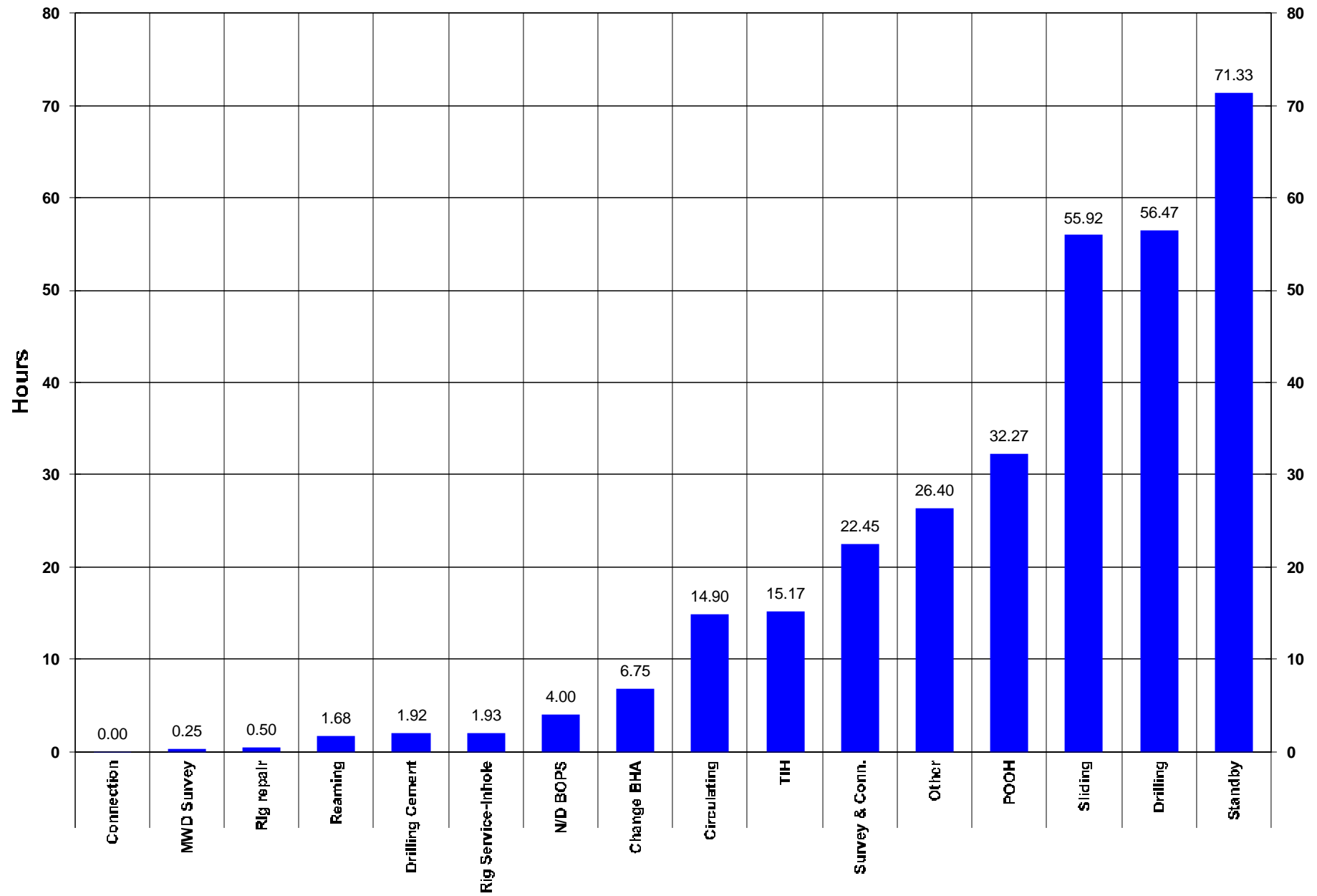
ROP vs BHA



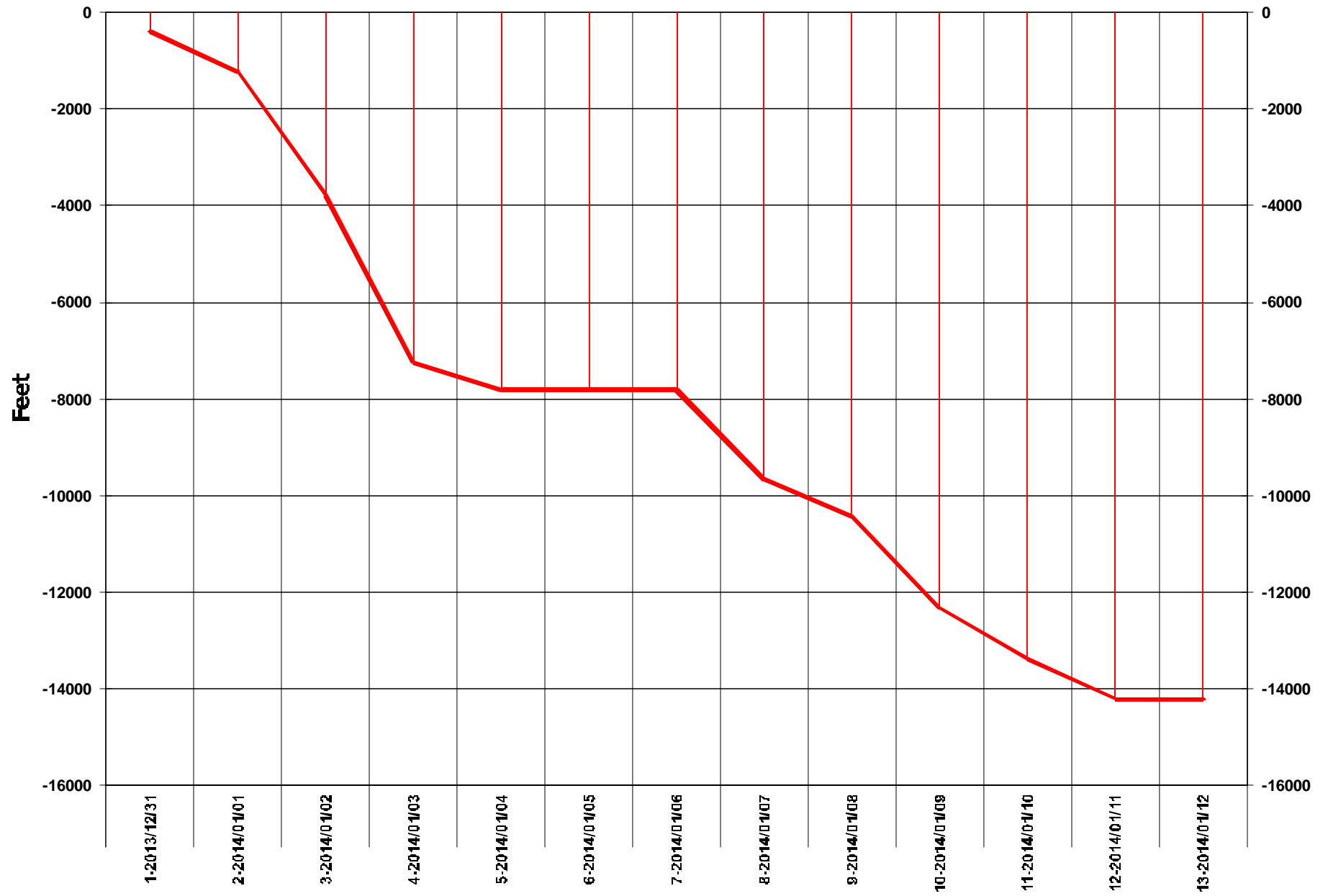
Depth vs BHA



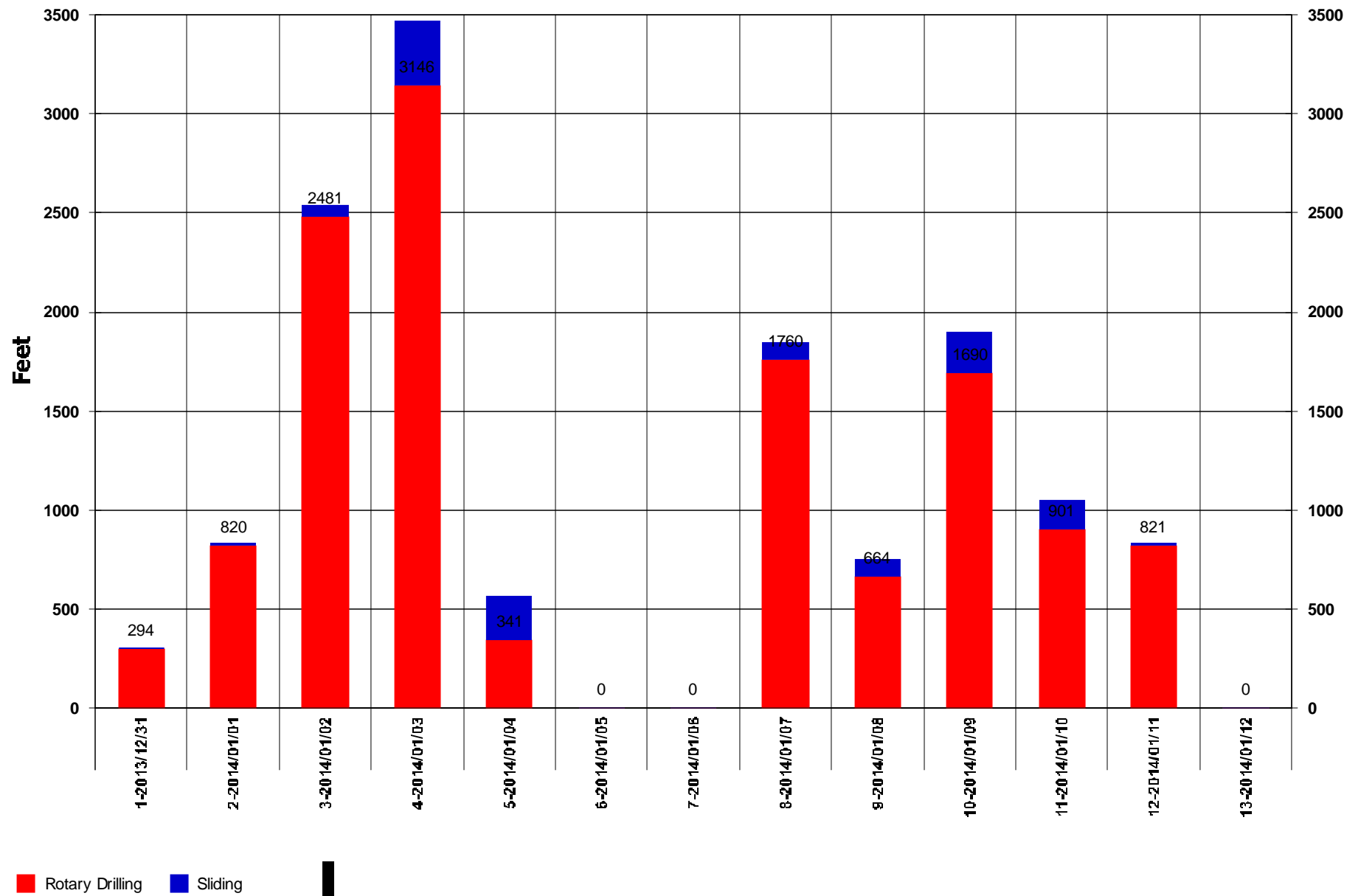
Activity Histogram



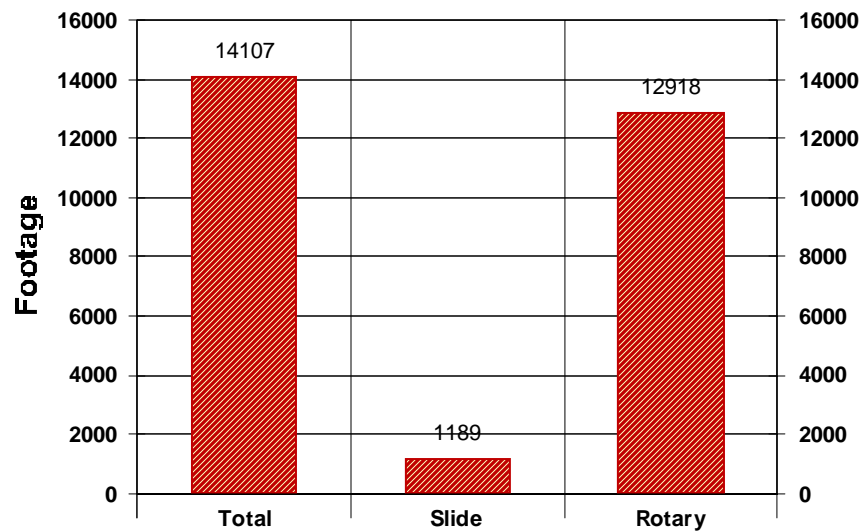
Measured Depth vs Days



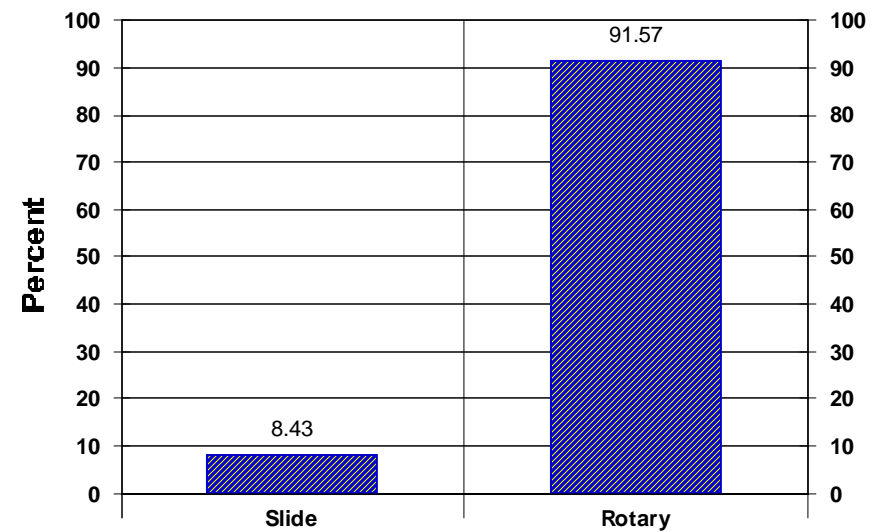
Daily Footage



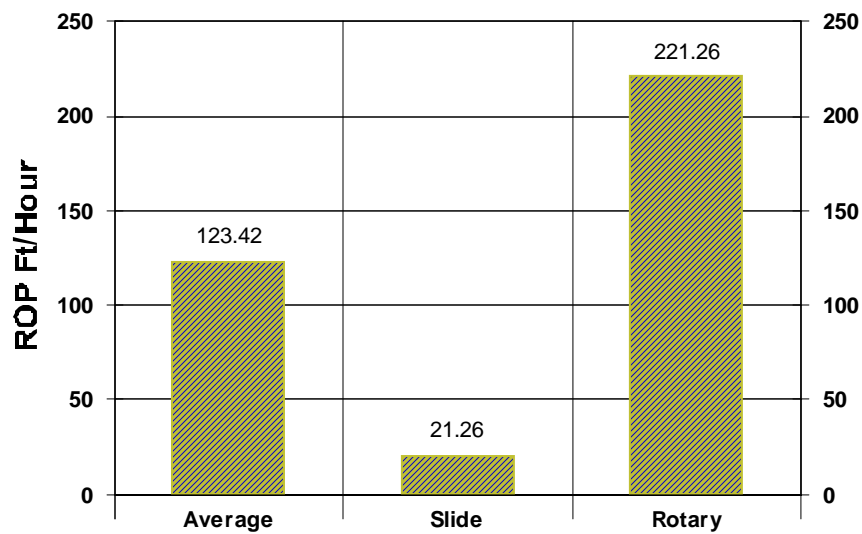
Footage Drilled Totals



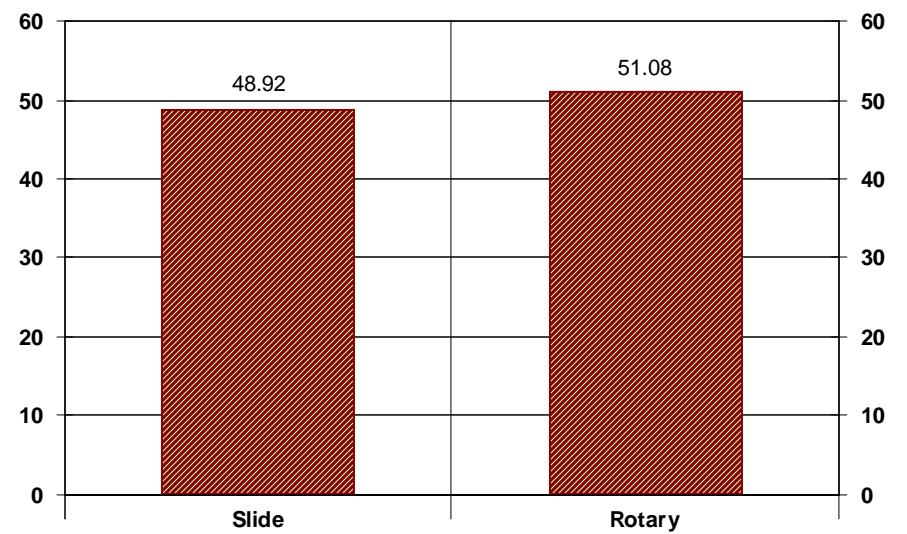
Footage Percent



Rate of Penetration Totals



Time Percent





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