



END OF WELL REPORT

Prepared For:

**EnCana Oil & Gas (USA) Inc
Ruhl 1A-32H-B264
H&P 278
Weld County, CO**

Prepared By:

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JOB NO.: 232066
Company: EnCana Oil & Gas (USA) Inc.
LOCATION: Ruhl Pad
RIG NAME: H&P 278
STATE: Colorado
COUNTY: Weld
WELL NAME: Ruhl 1A-32H-B264
Lead Directional : Paul Turner (10972)

Report Time: 2400 **1 of 4**
API JOB # 05-123-40281
WORK ORDER# 232066
FIELD: S32-T2N-R64W (Newnam/Ruhl)
Township: 2N
Range/Section 64W 32
Company Man Randy / George
2nd Dir Hand : Ben Ezeaku (10012)

From Saturday, December 06, 2014 at 0000 to Saturday, December 06, 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										
Slide Footage:	0.00	WOB:	0	Weight:	0	Bit No:					
Slide Hours	0.00	Rot Wt:	0	Visc:	0	Model					
Avg. Slide ROP:	NA	Pick UP:	0	Chlorides:	0	SN.:					
Rotate Footage:	0.00	Slack Off:	0	YP:	0	MFG.					
Rotary Hours	0.00	SPP:	0	PV:	0	Type					
Avg. Rot ROP:	NA	Flow:	0 - 0	PH:	0	IADC					
Circ Hours	0.00	SPM:	0	GAS:	0	JETS					
Ream Hours	0.00	Rot. RPM	-	SAND:	0	TFA:					
Rotary Hrs%:	NA	Mot RPM:	-	WL:	0	Hole ID: N/A					
Slide Hrs%:	NA	Incl. In:	0	SOLID:	0	Bit Hrs:					
Rotary Ftg%:	NA	Azm. In:	0	BHT°:	0	Bit Ftg:					
Slide Ftg%:	NA	Incl. Out:	0	Flow T°:	0	PUMPS					
CASING		Azm. Out:	0	Oil %:	0	Liner	0	0			
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			

GENERAL COMMENT

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	24:00	24.00	0	0	0	.00	Standby	Rig up / Strap Tools / Well Plan

JOB NO.:	232066	Report Time:	2400	2 of 4
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-40281	
LOCATION:	Ruhl Pad	WORK ORDER#	232066	
RIG NAME:	H&P 278	FIELD:	S32-T2N-R64W (Newnam/Ruhl)	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	64W	32
WELL NAME:	Ruhl 1A-32H-B264	Company Man	Randy / George	
Lead Directional :	Paul Turner (10972)	2nd Dir Hand :	Ben Ezeaku (10012)	

From Sunday, December 07, 2014 at 0000 to Sunday, December 07, 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										
Slide Footage:	0.00	WOB:	0	Weight:	0	Bit No:					
Slide Hours	0.00	Rot Wt:	0	Visc:	0	Model					
Avg. Slide ROP:	NA	Pick UP:	0	Chlorides:	0	SN.:					
Rotate Footage:	0.00	Slack Off:	0	YP:	0	MFG.					
Rotary Hours	0.00	SPP:	0	PV:	0	Type					
Avg. Rot ROP:	NA	Flow:	0 - 0	PH:	0	IADC					
Circ Hours	0.00	SPM:	0	GAS:	0	JETS					
Ream Hours	0.00	Rot. RPM	-	SAND:	0	TFA:					
Rotary Hrs%:	NA	Mot RPM:	-	WL:	0	Hole ID: N/A					
Slide Hrs%:	NA	Incl. In:	0	SOLID:	0	Bit Hrs:					
Rotary Ftg%:	NA	Azm. In:	0	BHT°:	0	Bit Ftg:					
Slide Ftg%:	NA	Incl. Out:	0	Flow T°:	0	PUMPS					
CASING		Azm. Out:	0	Oil %:	0	Liner	0	0			
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	

GENERAL COMMENT

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

Report Time:	2400	3 of 4
API JOB #	05-123-40281	
WORK ORDER#	232066	
FIELD:	S32-T2N-R64W (Newnam/Ruhl)	
Township:	2N	
Range/Section	64W	32
Company Man	Randy / George	
2nd Dir Hand :	Ben Ezeaku (10012)	

From Monday, December 08, 2014 at 0000 to Monday, December 08, 2014 at 2400

DAILY TOTALS			ASSEMBLY TOTALS									
Start Depth	149.00		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	1230.00		1	836	245.00	1.17	836.00	4.42	1.33	6.92	1,081.00	156.29
Below Rot Hrs.	15.25											
Total Drilled:	1081.00		Drilling Parameters		Mud Record		Bit Record		Current BHA # 1			
Avg. Total ROP:	193.61		WOB:	0	Weight:	0	Bit No:	1	DP 606S SDI 8" Drill Motor 6 1/2" Steel X-Over NM Pony Collar MWD NMDC 6 1/2" Orient Sub 6 1/2" Gap Sub NM Pony Collar NMDC 6 1/2" Steel X-Over			
Slide Footage:	245.00		Rot Wt:	0	Visc:	0	Model	DP 606S				
Slide Hours	1.17		Pick UP:	0	Chlorides:	0	SN.:	7032254				
Avg. Slide ROP:	210.00		Slack Off:	0	YP:	0	MFG.	BAKER				
Rotate Footage:	836.00		SPP:	0	PV:	0	Type	PDC				
Rotary Hours	4.42		Flow:	0 - 0	PH:	0	IADC					
Avg. Rot ROP:	189.28		SPM:	0	GAS:	0	JETS	9-12				
Circ Hours	1.33		Rot. RPM	0 - 0	SAND:	0	TFA:	0.994				
Ream Hours	0.00		Mot RPM:	0 - 0	WL:	0	Hole ID:	12.25				
Rotary Hrs%:	79.10		Incl. In:	0	SOLID:	0	Bit Hrs:	5.58				
Slide Hrs%:	20.90		Azm. In:	0	BHT°:	0	Bit Ftg:	1081.00				
Rotary Ftg%:	77.34		Incl. Out:	10.09	Flow T°:	0	PUMPS					
Slide Ftg%:	22.66		Azm. Out:	318.05	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	02:20	2.33	0	0	0	.00	Standby	Standby
02:20	02:35	0.25	0	0	0	.00	Other	JSA with Rig Meeting
02:35	05:30	2.92	0	149	149	51.09	Change BHA	Change BHA
05:30	06:20	0.83	149	149	0	.00	TIH	TIH
06:20	06:35	0.25	149	149	0	.00	Other	Troubleshoot Pumps
06:35	06:40	0.08	149	159	10	120.00	Drilling	Rotate
06:40	07:05	0.42	159	159	0	.00	Other	Install Mouse Hole
07:05	07:15	0.17	159	159	0	.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
07:15	07:20	0.08	159	174	15	180.00	Sliding	Drilling - (WOB:0;GPM :0;RPM:0)
07:20	07:30	0.17	174	174	0	.00	Other	Connection
07:30	07:45	0.25	174	216	42	168.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
07:45	08:00	0.25	216	238	22	88.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:315M))
08:00	08:30	0.50	238	307	69	138.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
08:30	08:35	0.08	307	307	0	.00	Survey & Conn.	Survey & Conn. @244' Inc 2.67° Azm 301.67°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
08:35	08:40	0.08	307	329	22	264.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:340M))
08:40	08:55	0.25	329	397	68	272.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
08:55	09:00	0.08	397	397	0	.00	Survey & Conn.	Survey & Conn.@334' Inc 3.59° Azm 312.48°
09:00	09:05	0.08	397	439	42	504.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:350M))
09:05	09:20	0.25	439	487	48	192.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
09:20	09:45	0.42	487	487	0	.00	Circulating	Clean Cellar
09:45	09:50	0.08	487	487	0	.00	Survey & Conn.	Survey & Conn.@424' Inc 4.69° Azm 329.49°
09:50	10:00	0.17	487	537	50	300.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:20L))
10:00	10:25	0.42	537	578	41	98.40	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
10:25	10:30	0.08	578	578	0	.00	Survey & Conn.	Survey & Conn.@515' Inc 6.64° Azm 334.26°
10:30	10:35	0.08	578	600	22	264.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:30L))
10:35	11:00	0.42	600	668	68	163.20	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
11:00	11:05	0.08	668	668	0	.00	Survey & Conn.	Survey & Conn.@605' Inc 8.43° Azm 327.76°
11:05	11:15	0.17	668	698	30	180.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:30L))
11:15	11:20	0.08	698	757	59	708.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
11:20	11:50	0.50	757	757	0	.00	Circulating	Clean Cellar
11:50	11:55	0.08	757	757	0	.00	Survey & Conn.	Survey & Conn.@694' Inc 9.65° Azm 320.02°
11:55	12:00	0.08	757	773	16	192.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:30L))
12:00	12:30	0.50	773	847	74	148.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
12:30	12:35	0.08	847	847	0	.00	Survey & Conn.	Survey & Conn.@784' Inc 11.41° Azm 322.33°
12:35	12:55	0.33	847	937	90	270.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
12:55	13:00	0.08	937	937	0	.00	Survey & Conn.	Survey & Conn.@874' Inc 10.46° Azm 324.06°
13:00	13:05	0.08	937	953	16	192.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:30L))
13:05	13:25	0.33	953	1028	75	225.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
13:25	13:30	0.08	1028	1028	0	.00	Survey & Conn.	Survey & Conn.@965' Inc 10.74° Azm 322.09°
13:30	13:35	0.08	1028	1038	10	120.00	Sliding	Sliding - (WOB:0;GPM :0;TFO:10L))
13:35	14:00	0.42	1038	1120	82	196.80	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
14:00	14:05	0.08	1120	1120	0	.00	Survey & Conn.	Survey & Conn.@1057' Inc 11.13° Azm 319.23°
14:05	14:30	0.42	1120	1120	0	.00	Circulating	Circulating - Clean Cellar
14:30	14:45	0.25	1120	1214	94	376.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
14:45	14:50	0.08	1214	1214	0	.00	Survey & Conn.	Survey & Conn.@1151' Inc 10.09° Azm 318.05°
14:50	15:00	0.17	1214	1230	16	96.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
15:00	16:45	1.75	1230	1230	0	.00	POOH	POOH
16:45	17:00	0.25	1230	1230	0	.00	Other	Other
17:00	17:35	0.58	1230	1230	0	.00	Change BHA	Rack back BHA
17:35	24:00	6.42	1230	1230	0	.00	Standby	Standby - Run Casing and Cement.

Report Time:	2400	4 of 4
API JOB #	05-123-40281	
WORK ORDER#	232066	
FIELD:	S32-T2N-R64W (Newnam/Ruhl)	
Township:	2N	
Range/Section	64W	32
Company Man	Randy / George	
2nd Dir Hand :	Ben Ezeaku (10012)	

DAILY TOTALS	ASSEMBLY TOTALS
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Start Depth	149.00	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	1230.00										
Below Rot Hrs.	15.25										
Total Drilled:	1081.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 0			
Avg. Total ROP:	193.61	WOB:	0	Weight:	0	Bit No:					
Slide Footage:	245.00	Rot Wt:	0	Visc:	0	Model					
Slide Hours	1.17	Pick UP:	0	Chlorides:	0	SN.:					
Avg. Slide ROP:	210.00	Slack Off:	0	YP:	0	MFG.					
Rotate Footage:	836.00	SPP:	0	PV:	0	Type					
Rotary Hours	4.42	Flow:	0 - 0	PH:	0	IADC					
Avg. Rot ROP:	189.28	SPM:	0	GAS:	0	JETS					
Circ Hours	1.33	Rot. RPM	-	SAND:	0	TFA:					
Ream Hours	0.00	Mot RPM:	-	WL:	0	Hole ID: N/A					
Rotary Hrs%:	79.10	Incl. In:	10.09	SOLID:	0	Bit Hrs:					
Slide Hrs%:	20.90	Azm. In:	318.05	BHT°:	0	Bit Ftg:					
Rotary Ftg%:	77.34	Incl. Out:	0	Flow T°:	0	PUMPS					
Slide Ftg%:	22.66	Azm. Out:	0	Oil %:	0	Liner	0	0			
CASING						Stroke	0	0			
Size	Lb/Ft	MD	COST BREAKDOWN				Effic.	95.00%	95.00%		
							Gal/Stk	0.00	0.00		
							BBL/Stk	0.000	0.000		

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Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	01:00	1.00	1230	1230	0	.00	Circulating	TIH circulate
01:00	05:30	4.50	1230	1230	0	.00	POOH	POOH
05:30	06:00	0.50	1230	1230	0	.00	Other	Casing and cement

JOB NO.:		250175		Report Time:		2400		1 of 7			
Company:		EnCana Oil & Gas (USA) Inc.		API JOB #		05-123-40281					
LOCATION:		Ruhl Pad		WORK ORDER#							
RIG NAME:		H&P 278		FIELD:		Wattenberg					
STATE:		Colorado		Township:		2N					
COUNTY:		Weld		Range/Section		64W		32			
WELL NAME:		Ruhl 1A-32H-B264		Company Man		Randy / Quiz					
Lead Directional :		Steven Schlamp (10800)		2nd Dir Hand :		Paul Turner (10972)					
From Thursday, January 29, 2015 at 0000 to Thursday, January 29, 2015 at 2400											
DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	1230.00	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	2614.00	1	6694	749.00	6.33	5,228.00	17.00	4.50	27.83	5,977.00	214.74
Below Rot Hrs.	9.58										
Total Drilled:	1384.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 1			
Avg. Total ROP:	296.57	WOB: 0		Weight: 0		Bit No: 2		Smith 8.75 PDC			
Slide Footage:	235.00	Rot Wt: 72		Visc: 0		Model Smith 8.75		6.75 SDI Motor			
Slide Hours	1.17	Pick UP: 82		Chlorides: 0		SN.: JK0906		6 1/4" NMPC			
Avg. Slide ROP:	201.43	Slack Off: 72		YP: 0		MFG. SMITH		6 1/2" NMDC Flex			
Rotate Footage:	1149.00	SPP: 2480		PV: 0		Type PDC		6 1/2" NMDC Flex			
Rotary Hours	3.50	Flow: 0 - 580		PH: 0		IADC		6 1/2" NMPC			
Avg. Rot ROP:	328.29	SPM: 152		GAS: 0		JETS 6-13		6 1/2" Steel X-Over			
Circ Hours	0.83	Rot. RPM 0 - 0		SAND: 0		TFA: 0.777		10 Stnds. DP (30 Jnts)			
Ream Hours	0.00	Mot RPM: 0 - 50		WL: 0		Hole ID: 8.75		30 Stnds. (90 Jnts.) HWDP			
Rotary Hrs%:	75.00	Incl. In: 10.09		SOLID: 0		Bit Hrs: 23.33					
Slide Hrs%:	25.00	Incl. Out: 2.63		BHT°: 0		Bit Ftg: 5977.00					
Rotary Ftg%:	83.02	Azm. In: 318.05		Flow T°: 0		PUMPS					
Slide Ftg%:	16.98	Incl. Out: 2.63		Oil %: 0		Liner 0 0					
Casing		Azm. Out: 345.98		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	14:25	14.42	1230	1230	0	.00	Standby	Standby for Intermediate BHA			
14:25	14:35	0.17	1230	1230	0	.00	Other	Safety meeting w. rig crew & review JSA			
14:35	15:50	1.25	1230	1230	0	.00	Change BHA	PU Intermediate BHA & Install MWD			
15:50	16:20	0.50	1230	1230	0	.00	Other	Install rotating head & Surface test MWD			
16:20	17:00	0.67	1230	1230	0	.00	TIH	TIH to tag cement @1155 / Float @1170 / Shoe @1217			
17:00	17:45	0.75	1230	1230	0	.00	Drilling	Drill Cement			
17:45	17:50	0.08	1230	1240	10	120.00	Drilling	Drill 10'			
17:50	18:00	0.17	1240	1240	0	.00	Circulating	Circulating			
18:00	18:45	0.75	1240	1240	0	.00	Other	FIT			
18:45	18:55	0.17	1240	1250	10	60.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)			
18:55	19:00	0.08	1250	1250	0	.00	Other	Connection			
19:00	19:40	0.67	1250	1250	0	.00	Circulating	Overflowing Shakers			
19:40	19:50	0.17	1250	1341	91	546.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)			
19:50	19:55	0.08	1341	1341	0	.00	Survey & Conn.	Survey & Conn.@1276' Inc 10.15° Azm 321.62°			
Winserve II Daily Report for Thursday, January 29, 2015											
License: NP2245											
Daily Report for JOB#: 250175 - Page 1 of 2											

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
19:55	20:20	0.42	1341	1524	183	439.20	Sliding	Drilling - (WOB:30;GPM :580;RPM:50)
20:20	20:25	0.08	1524	1524	0	.00	Survey & Conn.	Survey & Conn.@1459' Inc 10.14° Azm 319.51°
20:25	20:55	0.50	1524	1705	181	362.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
20:55	21:00	0.08	1705	1705	0	.00	Survey & Conn.	Survey & Conn.@1640' Inc 10.36° Azm 320.7°
21:00	21:25	0.42	1705	1886	181	434.40	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
21:25	21:30	0.08	1886	1886	0	.00	Survey & Conn.	Survey & Conn.@1821' Inc 10.81° Azm 320°
21:30	21:55	0.42	1886	2067	181	434.40	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
21:55	22:00	0.08	2067	2067	0	.00	Survey & Conn.	Survey & Conn.@2002' Inc 10.02° Azm 317.26°
22:00	22:10	0.17	2067	2079	12	72.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:150R))
22:10	22:15	0.08	2079	2159	80	960.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
22:15	22:25	0.17	2159	2172	13	78.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:170R))
22:25	22:40	0.25	2172	2248	76	304.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
22:40	22:45	0.08	2248	2248	0	.00	Survey & Conn.	Survey & Conn.@2183' Inc 5.55° Azm 316.33°
22:45	22:50	0.08	2248	2258	10	120.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:150R))
22:50	22:55	0.08	2258	2309	51	612.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
22:55	23:10	0.25	2309	2431	122	488.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23:10	23:15	0.08	2431	2431	0	.00	Survey & Conn.	Survey & Conn.@2366' Inc 3.28° Azm 320.28°
23:15	23:25	0.17	2431	2441	10	60.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:150R))
23:25	23:40	0.25	2441	2523	82	328.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23:40	23:50	0.17	2523	2530	7	42.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:20M))
23:50	23:55	0.08	2530	2614	84	1008.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23:55	24:00	0.08	2614	2614	0	.00	Survey & Conn.	Survey & Conn.@2549' Inc 2.63° Azm 345.98°

JOB NO.:	250175	Report Time:	2400	2 of 7
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-40281	
LOCATION:	Ruhl Pad	WORK ORDER#		
RIG NAME:	H&P 278	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	64W	32
WELL NAME:	Ruhl 1A-32H-B264	Company Man	Randy / Quiz	
Lead Directional :	Steven Schlamp (10800)	2nd Dir Hand :	Paul Turner (10972)	

From Friday, January 30, 2015 at 0000 to Friday, January 30, 2015 at 2400

DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	2614.00	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	7207.00	1	6694	749.00	6.33	5,228.00	17.00	4.50	27.83	5,977.00	214.74
Below Rot Hrs.	24.00										
Total Drilled:	4593.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 1			
Avg. Total ROP:	246.05	WOB:	35	Weight:	0	Bit No:	2	Smith 8.75 PDC 6.75 SDI Motor 6 1/4" NMPC 6 1/2" NMDC Flex 6 1/2" Pulser Sub 6 1/2" NMDC Flex 6 1/2" NMPC 6 1/2" Steel X-Over 10 Stnds. DP (30 Jnts) 30 Stnds. (90 Jnts.) HWDP			
Slide Footage:	514.00	Rot Wt:	138	Visc:	0	Model	Smith 8.75				
Slide Hours	5.17	Pick UP:	160	Chlorides:	0	SN.:	JK0906				
Avg. Slide ROP:	99.48	Slack Off:	120	YP:	0	MFG.	SMITH				
Rotate Footage:	4079.00	SPP:	4660	PV:	0	Type	PDC				
Rotary Hours	13.50	Flow:	0 - 600	PH:	0	IADC					
Avg. Rot ROP:	302.15	SPM:	140	GAS:	0	JETS	6-13				
Circ Hours	3.00	Rot. RPM	0 - 70	SAND:	0	TFA:	0.777				
Ream Hours	0.00	Mot RPM:	0 - 70	WL:	0	Hole ID:	8.75				
Rotary Hrs%:	72.32	Incl. In:	2.63	SOLID:	0	Bit Hrs:	23.33				
Slide Hrs%:	27.68	Azm. In:	345.98	BHT°:	0	Bit Ftg:	5977.00				
Rotary Ftg%:	88.81	Incl. Out:	64.49	Flow T°:	0	PUMPS					
Slide Ftg%:	11.19	Azm. Out:	174.59	Oil %:	0	Liner	0	0			
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			

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
03:15	03:20	0.08	3702	3711	9	108.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:340M))
03:20	03:45	0.42	3711	3888	177	424.80	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
03:45	03:50	0.08	3888	3888	0	.00	Survey & Conn.	Survey & Conn.@3823' Inc 0.75° Azm 329.39°
03:50	04:20	0.50	3888	4078	190	380.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
04:20	04:25	0.08	4078	4078	0	.00	Survey & Conn.	Survey & Conn.@4013' Inc 0.73° Azm 354.52°
04:25	04:55	0.50	4078	4267	189	378.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
04:55	05:00	0.08	4267	4267	0	.00	Survey & Conn.	Survey & Conn.@4202' Inc 0.32° Azm 32.95°
05:00	05:30	0.50	4267	4456	189	378.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
05:30	05:35	0.08	4456	4456	0	.00	Survey & Conn.	Survey & Conn.@4391' Inc 0.65° Azm 10.79°
05:35	06:10	0.58	4456	4645	189	324.00	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
06:10	06:15	0.08	4645	4645	0	.00	Survey & Conn.	Survey & Conn.@4580' Inc 0.75° Azm 321.2°
06:15	06:20	0.08	4645	4657	12	144.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:145M))
06:20	06:55	0.58	4657	4835	178	305.14	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
06:55	07:00	0.08	4835	4835	0	.00	Survey & Conn.	Survey & Conn.@4770' Inc 0.15° Azm 291.74°
07:00	07:05	0.08	4835	4849	14	168.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:150M))
07:05	07:45	0.67	4849	5026	177	265.50	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
07:45	07:50	0.08	5026	5026	0	.00	Survey & Conn.	Survey & Conn.@4961' Inc 0.37° Azm 100.24°
07:50	08:30	0.67	5026	5215	189	283.50	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
08:30	08:35	0.08	5215	5215	0	.00	Survey & Conn.	Survey & Conn.@5150' Inc 0.2° Azm 169.89°
08:35	09:10	0.58	5215	5405	190	325.71	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
09:10	09:15	0.08	5405	5405	0	.00	Survey & Conn.	Survey & Conn.@5340' Inc 0.5° Azm 150.84°
09:15	09:50	0.58	5405	5595	190	325.71	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
09:50	09:55	0.08	5595	5595	0	.00	Survey & Conn.	Survey & Conn.@5530' Inc 0.42° Azm 30.66°
09:55	10:30	0.58	5595	5784	189	324.00	Drilling	Drilling - (WOB:35;GPM :600;RPM:70)
10:30	10:35	0.08	5784	5784	0	.00	Survey & Conn.	Survey & Conn.@5719' Inc 1.04° Azm 23.06°
10:35	10:45	0.17	5784	5799	15	90.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:210M))
10:45	11:20	0.58	5799	5974	175	300.00	Drilling	Drilling - (WOB:35;GPM :600;RPM:70)
11:20	11:25	0.08	5974	5974	0	.00	Survey & Conn.	Survey & Conn.@5909' Inc 1.82° Azm 231.15°
11:25	12:05	0.67	5974	6164	190	285.00	Drilling	Drilling - (WOB:35;GPM :600;RPM:70)
12:05	12:10	0.08	6164	6164	0	.00	Survey & Conn.	Survey & Conn.@6099' Inc 1.63° Azm 246.8°
12:10	13:00	0.83	6164	6354	190	228.00	Drilling	Drilling - (WOB:35;GPM :600;RPM:70)
13:00	13:45	0.75	6354	6354	0	.00	Circulating	Trough KOP & Pump 40bbl sweep
13:45	13:50	0.08	6354	6354	0	.00	Survey & Conn.	Survey & Conn.@6289' Inc 1.32° Azm 221.12°
13:50	14:25	0.58	6354	6417	63	108.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:210M))
14:25	14:40	0.25	6417	6448	31	124.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
14:40	14:45	0.08	6448	6448	0	.00	Survey & Conn.	Survey & Conn.@6383' Inc 4.98° Azm 170.95°
14:45	15:15	0.50	6448	6506	58	116.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:180M))
15:15	15:30	0.25	6506	6543	37	148.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
15:30	15:35	0.08	6543	6543	0	.00	Survey & Conn.	Survey & Conn.@6478' Inc 12.08° Azm 170.49°
15:35	16:05	0.50	6543	6602	59	118.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:15R))
16:05	16:15	0.17	6602	6638	36	216.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
16:15	16:30	0.25	6638	6638	0	.00	Circulating	Rig Service
16:30	16:35	0.08	6638	6638	0	.00	Survey & Conn.	Survey & Conn.@6573' Inc 19.72° Azm 174.21°
16:35	16:55	0.33	6638	6688	50	150.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:45R))
16:55	17:10	0.25	6688	6733	45	180.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
17:10	17:15	0.08	6733	6733	0	.00	Survey & Conn.	Survey & Conn.@6668' Inc 26.69° Azm 177.93°
17:15	17:40	0.42	6733	6788	55	132.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:30R))
17:40	18:00	0.33	6788	6828	40	120.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
18:00	18:05	0.08	6828	6828	0	.00	Survey & Conn.	Survey & Conn.@6763' Inc 32.77° Azm 177.16°
18:05	18:35	0.50	6828	6891	63	126.00	Sliding	Sliding - (WOB:30;GPM :580;TFO:30R)
18:35	18:50	0.25	6891	6923	32	128.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
18:50	18:55	0.08	6923	6923	0	.00	Survey & Conn.	Survey & Conn.@6858' Inc 39.94° Azm 178.8°
18:55	19:15	0.33	6923	6977	54	162.00	Sliding	Sliding - (WOB:35;GPM :580;TFO:30R))
19:15	19:30	0.25	6977	7017	40	160.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
19:30	19:35	0.08	7017	7017	0	.00	Survey & Conn.	Survey & Conn.@6952' Inc 52.43° Azm 178.52°
19:35	19:50	0.25	7017	7037	20	80.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
19:50	20:15	0.42	7037	7057	20	48.00	Sliding	Sliding - (WOB:35;GPM :580;TFO:30R))
20:15	20:35	0.33	7057	7112	55	165.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
20:35	20:40	0.08	7112	7112	0	.00	Survey & Conn.	Survey & Conn.@7047' Inc 60.34° Azm 176.29°
20:40	20:50	0.17	7112	7130	18	108.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
20:50	21:50	1.00	7130	7155	25	25.00	Sliding	Sliding - (WOB:35;GPM :580;TFO:60R))
21:50	22:00	0.17	7155	7207	52	312.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
22:00	22:40	0.67	7207	7207	0	.00	Circulating	Consult With Encana
22:40	24:00	1.33	7207	7207	0	.00	Circulating	Weight Up

JOB NO.: 250175		Report Time: 2400		3 of 7	
Company: EnCana Oil & Gas (USA) Inc.		API JOB # 05-123-40281			
LOCATION: Ruhl Pad		WORK ORDER#			
RIG NAME: H&P 278		FIELD: Wattenberg			
STATE: Colorado		Township: 2N			
COUNTY: Weld		Range/Section 64W		32	
WELL NAME: Ruhl 1A-32H-B264		Company Man Randy / Quiz			
Lead Directional : Steven Schlamp (10800)		2nd Dir Hand : Paul Turner (10972)			

From Saturday, January 31, 2015 at 0000 to Saturday, January 31, 2015 at 2400											
DAILY TOTALS		ASSEMBLY TOTALS									
Start Depth	7207.00	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	7515.00	1	6694	749.00	6.33	5,228.00	17.00	4.50	27.83	5,977.00	214.74
Below Rot Hrs.	24.00	2	65097	158.00	4.92	150.00	1.58	3.00	9.50	308.00	0.00
Total Drilled:	308.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 2			
Avg. Total ROP:	47.38	WOB: 35		Weight: 0		Bit No: 2		Smith 8.75 PDC 6.75 SDI Motor 6 1/4" NMPC 6 1/2" NMDC Flex 6 1/2" Pulser Sub 6 1/2" NMDC Flex 6 1/2" NMPC 6 1/2" Steel X-Over 10 Stnds. DP (30 Jnts) 30 Stnds. (90 Jnts.) HWDP			
Slide Footage:	158.00	Rot Wt: 138		Visc: 0		Model Smith 8.75					
Slide Hours	4.92	Pick UP: 160		Chlorides: 0		SN.: JJ9803					
Avg. Slide ROP:	32.14	Slack Off: 120		YP: 0		MFG. SMITH					
Rotate Footage:	150.00	SPP: 4660		PV: 0		Type PDC					
Rotary Hours	1.58	Flow: 537 - 580		PH: 0		IADC					
Avg. Rot ROP:	94.74	SPM: 140		GAS: 0		JETS 6-13					
Circ Hours	3.67	Rot. RPM 30 - 30		SAND: 0		TFA: 0.777					
Ream Hours	0.00	Mot RPM: 30 - 30		WL: 0		Hole ID: 8.75					
Rotary Hrs%:	24.36	Incl. In: 64.49		SOLID: 0		Bit Hrs: 6.50					
Slide Hrs%:	75.64	Azm. In: 174.59		BHT°: 0		Bit Ftg: 308.00					
Rotary Ftg%:	48.70	Incl. Out: 88.92		Flow T°: 0		PUMPS					
Slide Ftg%:	51.30	Azm. Out: 180		Oil %: 0		Liner 0 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								

GENERAL COMMENT									
Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT	
00:00	00:40	0.67	7207	7207	0	.00	Circulating	Circulating	
00:40	03:30	2.83	7207	7207	0	.00	POOH	POOH	
03:30	03:45	0.25	7207	7207	0	.00	Other	JSA	
03:45	05:15	1.50	7207	7207	0	.00	Change BHA	Change BHA	
05:15	05:30	0.25	7207	7207	0	.00	Other	Install Rotating Rubber	
05:30	05:40	0.17	7207	7207	0	.00	Circulating	Surface Test MWD	
05:40	09:40	4.00	7207	7207	0	.00	TIH	TIH / Work tight hole @4500-5000'MD	
09:40	10:25	0.75	7207	7207	0	.00	Circulating	Wash & ream to bottom	
10:25	10:30	0.08	7207	7207	0	.00	Survey & Conn.	Survey & Conn. @7142' Inc 64.49° Azm 174.59°	
10:30	11:10	0.67	7207	7241	34	51.00	Sliding	Sliding - (WOB:35;GPM :580;TFO:60R))	
11:10	11:30	0.33	7241	7300	59	177.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)	
11:30	11:35	0.08	7300	7300	0	.00	Survey & Conn.	Survey & Conn. @7235' Inc 70.63° Azm 180.6°	
11:35	13:00	1.42	7300	7347	47	33.18	Sliding	Sliding - (WOB:35;GPM :580;TFO:60R))	
13:00	13:40	0.67	7347	7395	48	72.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)	

Winserve II Daily Report for Saturday,
January 31, 2015

License: NP2245

Daily Report for JOB#: 250175 - Page 1 of 2

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
13:40	13:45	0.08	7395	7395	0	.00	Survey & Conn.	Survey & Conn.@7330' Inc 74.9° Azm 181.25°
13:45	16:25	2.67	7395	7467	72	27.00	Sliding	Sliding - (WOB:35;GPM :580;TFO:0R))
16:25	16:45	0.33	7467	7490	23	69.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
16:45	16:50	0.08	7490	7490	0	.00	Survey & Conn.	Survey & Conn.@7425' Inc 81.25° Azm 182.21°
16:50	17:00	0.17	7490	7495	5	30.00	Sliding	Sliding - (WOB:35;GPM :580;TFO:0R)
17:00	17:15	0.25	7495	7515	20	80.00	Drilling	Drilling - (WOB:35;GPM :537;RPM:30)
17:15	17:25	0.17	7515	7515	0	.00	Circulating	MWD Survey
17:25	19:20	1.92	7515	7515	0	.00	Circulating	Circulating
19:20	22:15	2.92	7515	7515	0	.00	POOH	POOH
22:15	22:30	0.25	7515	7515	0	.00	Other	JSA
22:30	24:00	1.50	7515	7515	0	.00	Change BHA	Lay Out BHA

JOB NO.:	250175	Report Time:	2400	4 of 7
Company:	EnCana Oil & Gas (USA) Inc.	API JOB #	05-123-40281	
LOCATION:	Ruhl Pad	WORK ORDER#		
RIG NAME:	H&P 278	FIELD:	Wattenberg	
STATE:	Colorado	Township:	2N	
COUNTY:	Weld	Range/Section	64W	32
WELL NAME:	Ruhl 1A-32H-B264	Company Man	Randy / Quiz	
Lead Directional :	Steven Schlamp (10800)	2nd Dir Hand :	Paul Turner (10972)	

From Sunday, February 01, 2015 at 0000 to Sunday, February 01, 2015 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										
Slide Footage:	0.00	WOB: 35		Weight: 0		Bit No:					
Slide Hours	0.00	Rot Wt: 138		Visc: 0		Model					
Avg. Slide ROP:	NA	Pick UP: 160		Chlorides: 0		SN.:					
Rotate Footage:	0.00	Slack Off: 120		YP: 0		MFG.					
Rotary Hours	0.00	SPP: 4660		PV: 0		Type					
Avg. Rot ROP:	NA	Flow: 537 - 537		PH: 0		IADC					
Circ Hours	0.00	SPM: 140		GAS: 0		JETS					
Ream Hours	0.00	Rot. RPM -		SAND: 0		TFA:					
Rotary Hrs%:	NA	Mot RPM: -		WL: 0		Hole ID: N/A					
Slide Hrs%:	NA	Incl. In: 88.92		SOLID: 0		Bit Hrs:					
Rotary Ftg%:	NA	Azm. In: 180		BHT°: 0		Bit Ftg:					
Slide Ftg%:	NA	Incl. Out: 88.92		Flow T°: 0		PUMPS					
CASING		Azm. Out: 180		Oil %: 0							
Size	Lb/Ft	MD	COST BREAKDOWN					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	24:00	24.00	7515	7515	0	.00	Standby	Standby

Report Time:	2400	5 of 7
API JOB #	05-123-40281	
WORK ORDER#		
FIELD:	Wattenberg	
Township:	2N	
Range/Section	64W	32
Company Man	Randy / Quiz	
2nd Dir Hand :	Paul Turner (10972)	

DAILY TOTALS	ASSEMBLY TOTALS
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Start Depth	7515.00	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	7525.00	3	259	330.00	5.50	3,688.00	15.83	10.83	32.17	4,018.00	125.24
Below Rot Hrs.	11.17										
Total Drilled:	10.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 3			
Avg. Total ROP:	10.91										
Slide Footage:	10.00	WOB:	35	Weight:	0	Bit No:	2	Ultrerra 6.125 ; U516S 5.00" Hunting Drill Motor 4.75 NMPony 4.75 NMDC 4 3/4" Pulser Sub 4.75 NMDC 4.75 NMPony 5" Steel XO 1 Stnd. HWDP (3 Jnts.) 18 Stnds. DP (54 Jnts.) NOV SS/Agitator 4 Stnds. (12 Jnts.) 4" DP 1 Jnt. 4" HWDP 14 Stnds. (42 Jnts.) 4" DP 1 Jnt 4" HWDP 14 Stnds. DP (42 Jnts.) 30 Stnds. (90 Jnts.) HWDP			
Slide Hours	0.08	Rot Wt:	138	Visc:	0	Model	Ultrerra 6.125 ;				
Avg. Slide ROP:	120.00	Pick UP:	160	Chlorides:	0	SN.:	26512				
Rotate Footage:	0.00	Slack Off:	120	YP:	0	MFG.	Ultrerra				
Rotary Hours	0.83	SPP:	2550	PV:	0	Type	PDC				
Avg. Rot ROP:	.00	Flow:	265 - 580	PH:	0	IADC					
Circ Hours	0.83	SPM:	70	GAS:	0	JETS	5-15				
Ream Hours	0.00	Rot. RPM	-	SAND:	0	TFA:	0.862				
Rotary Hrs%:	90.91	Mot RPM:	20 - 20	WL:	0	Hole ID:	6.125				
Slide Hrs%:	9.09	Incl. In:	88.92	SOLID:	0	Bit Hrs:	21.33				
Rotary Ftg%:	.00	Azm. In:	180	BHT°:	0	Bit Ftg:	4018.00				
Slide Ftg%:	100.00	Incl. Out:	88.92	Flow T°:	0	PUMPS					
CASING		Azm. Out:	180	Oil %:	0						
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			

[illegible]

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	12:50	12.83	7515	7515	0	.00	Standby	Standby
12:50	13:00	0.17	7515	7515	0	.00	Other	Safety meeting w. rig crew & review JSA
13:00	14:00	1.00	7515	7515	0	.00	Change BHA	PU Lateral BHA & Install MWD
14:00	14:35	0.58	7515	7515	0	.00	Other	Install rotating head & Surface test MWD
14:35	16:10	1.58	7515	7515	0	.00	TIH	TIH 19 Stands
16:10	16:30	0.33	7515	7515	0	.00	Circulating	Install SS/Agi & test MWD
16:30	18:20	1.83	7515	7515	0	.00	TIH	TIH to 5200
18:20	19:50	1.50	7515	7515	0	.00	Rig repair	Rig repair - Top Drive
19:50	21:30	1.67	7515	7515	0	.00	TIH	TIH
21:30	22:20	0.83	7515	7515	0	.00	Drilling Cement	Drilling - (WOB:10;GPM :265;RPM:20)
22:20	22:25	0.08	7515	7525	10	120.00	Sliding	Drill 10'
22:25	22:55	0.50	7525	7525	0	.00	Circulating	Circulating - Pump Sweep
22:55	24:00	1.08	7525	7525	0	.00	Other	FIT

Report Time:	2400	6 of 7
API JOB #	05-123-40281	
WORK ORDER#		
FIELD:	Wattenberg	
Township:	2N	
Range/Section	64W	32
Company Man	Randy / Quiz	
2nd Dir Hand :	Paul Turner (10972)	

DAILY TOTALS	ASSEMBLY TOTALS
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Start Depth	7525.00	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	10704.00	3	259	330.00	5.50	3,688.00	15.83	10.83	32.17	4,018.00	125.24
Below Rot Hrs.	24.00										
Total Drilled:	3179.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 3			
Avg. Total ROP:	188.85										
Slide Footage:	284.00	WOB:	40	Weight:	0	Bit No:	2	Ultrerra 6.125 ; U516S 5.00" Hunting Drill Motor 4.75 NMPony 4.75 NMDC 4 3/4" Pulser Sub 4.75 NMDC 4.75 NMPony 5" Steel XO 1 Stnd. HWDP (3 Jnts.) 18 Stnds. DP (54 Jnts.) NOV SS/Agitator 4 Stnds. (12 Jnts.) 4" DP 1 Jnt. 4" HWDP 14 Stnds. (42 Jnts.) 4" DP 1 Jnt 4" HWDP 14 Stnds. DP (42 Jnts.) 30 Stnds. (90 Jnts.) HWDP			
Slide Hours	4.33	Rot Wt:	141	Visc:	0	Model	Ultrerra 6.125 ;				
Avg. Slide ROP:	65.54	Pick UP:	183	Chlorides:	0	SN.:	26512				
Rotate Footage:	2895.00	Slack Off:	103	YP:	0	MFG.	Ultrerra				
Rotary Hours	12.50	SPP:	4600	PV:	0	Type	PDC				
Avg. Rot ROP:	231.60	Flow:	295 - 299	PH:	0	IADC					
Circ Hours	3.17	SPM:	78	GAS:	0	JETS	5-15				
Ream Hours	0.00	Rot. RPM	90 - 90	SAND:	0	TFA:	0.862				
Rotary Hrs%:	74.26	Mot RPM:	90 - 90	WL:	0	Hole ID:	6.125				
Slide Hrs%:	25.74	Incl. In:	88.92	SOLID:	0	Bit Hrs:	21.33				
Rotary Ftg%:	91.07	Azm. In:	180	BHT°:	0	Bit Ftg:	4018.00				
Slide Ftg%:	8.93	Incl. Out:	90.47	Flow T°:	0	PUMPS					
CASING		Azm. Out:	179.97	Oil %:	0						
Size	Lb/Ft	MD	COST BREAKDOWN			Liner	0	0			
						Stroke	0	0			
						Effic.	95.00%	95.00%			
						Gal/Stk	0.00	0.00			
						BBL/Stk	0.000	0.000			

[illegible]

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:05	0.08	7525	7577	52	624.00	Drilling	Drilling - (WOB:30;GPM :295;RPM:90)
00:05	00:10	0.08	7577	7577	0	.00	Survey & Conn.	Survey & Conn.@7425' Inc 81.25° Azm 182.21°
00:10	00:25	0.25	7577	7585	8	32.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:45L))
00:25	00:50	0.42	7585	7669	84	201.60	Drilling	Drilling - (WOB:30;GPM :295;RPM:90)
00:50	01:05	0.25	7669	7669	0	.00	Survey & Conn.	Survey & Conn.@7607' Inc 88.86° Azm 182.05°
01:05	01:25	0.33	7669	7684	15	45.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:40L))
01:25	01:40	0.25	7684	7760	76	304.00	Drilling	Drilling - (WOB:30;GPM :295;RPM:90)
01:40	01:45	0.08	7760	7760	0	.00	Survey & Conn.	Survey & Conn.@7698' Inc 90.03° Azm 180.3°
01:45	02:05	0.33	7760	7855	95	285.00	Drilling	Drilling - (WOB:30;GPM :295;RPM:90)
02:05	02:10	0.08	7855	7855	0	.00	Survey & Conn.	Survey & Conn.@7793' Inc 91.44° Azm 180.96°
02:10	02:20	0.17	7855	7867	12	72.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:165L))
02:20	02:45	0.42	7867	7949	82	196.80	Drilling	Drilling - (WOB:30;GPM :295;RPM:90)
02:45	02:55	0.17	7949	7949	0	.00	Survey & Conn.	Survey & Conn.@7887' Inc 90.37° Azm 180.44°
02:55	03:15	0.33	7949	8044	95	285.00	Drilling	Drilling - (WOB:30;GPM :295;RPM:90)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
03:15	03:25	0.17	8044	8044	0	.00	Survey & Conn.	Survey & Conn.@7982' Inc 90.1° Azm 179.65°
03:25	03:40	0.25	8044	8139	95	380.00	Drilling	Drilling - (WOB:35;GPM :295;RPM:90)
03:40	03:50	0.17	8139	8139	0	.00	Survey & Conn.	Survey & Conn.@8077' Inc 88.22° Azm 179.56°
03:50	04:00	0.17	8139	8154	15	90.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:20R))
04:00	04:20	0.33	8154	8215	61	183.00	Drilling	Drilling - (WOB:35;GPM :295;RPM:90)
04:20	07:00	2.67	8215	8215	0	.00	Circulating	Rig Repair (Top Drive Electrical)
07:00	07:05	0.08	8215	8234	19	228.00	Drilling	Drilling - (WOB:35;GPM :295;RPM:90)
07:05	07:10	0.08	8234	8234	0	.00	Survey & Conn.	Survey & Conn.@8172' Inc 88.93° Azm 179.88°
07:10	07:20	0.17	8234	8249	15	90.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:20R)
07:20	07:50	0.50	8249	8328	79	158.00	Drilling	Drilling - (WOB:35;GPM :295;RPM:90)
07:50	07:55	0.08	8328	8328	0	.00	Survey & Conn.	Survey & Conn.@8266' Inc 89.97° Azm 181.14°
07:55	08:00	0.08	8328	8335	7	84.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:20R)
08:00	08:35	0.58	8335	8423	88	150.86	Drilling	Drilling - (WOB:35;GPM :295;RPM:90)
08:35	08:40	0.08	8423	8423	0	.00	Survey & Conn.	Survey & Conn.@8361' Inc 90.13° Azm 180.93°
08:40	09:05	0.42	8423	8518	95	228.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
09:05	09:10	0.08	8518	8518	0	.00	Survey & Conn.	Survey & Conn.@8456' Inc 89.87° Azm 181.63°
09:10	09:20	0.17	8518	8528	10	60.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:15L))
09:20	09:45	0.42	8528	8612	84	201.60	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
09:45	09:50	0.08	8612	8612	0	.00	Survey & Conn.	Survey & Conn.@8550' Inc 90.81° Azm 181.12°
09:50	10:15	0.42	8612	8707	95	228.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
10:15	10:20	0.08	8707	8707	0	.00	Survey & Conn.	Survey & Conn.@8645' Inc 91.74° Azm 181.57°
10:20	10:30	0.17	8707	8719	12	72.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:150L))
10:30	10:55	0.42	8719	8801	82	196.80	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
10:55	11:00	0.08	8801	8801	0	.00	Survey & Conn.	Survey & Conn.@8739' Inc 91.17° Azm 182.95°
11:00	11:10	0.17	8801	8816	15	90.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:150L))
11:10	11:30	0.33	8816	8896	80	240.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
11:30	11:35	0.08	8896	8896	0	.00	Survey & Conn.	Survey & Conn.@8834' Inc 89.97° Azm 180.44°
11:35	11:55	0.33	8896	8990	94	282.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
11:55	12:00	0.08	8990	8990	0	.00	Survey & Conn.	Survey & Conn.@8928' Inc 89.43° Azm 179.31°
12:00	12:05	0.08	8990	8997	7	84.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:30R))
12:05	12:30	0.42	8997	9085	88	211.20	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
12:30	12:35	0.08	9085	9085	0	.00	Survey & Conn.	Survey & Conn.@9023' Inc 89.5° Azm 179.52°
12:35	12:45	0.17	9085	9095	10	60.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:30R))
12:45	13:10	0.42	9095	9180	85	204.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
13:10	13:15	0.08	9180	9180	0	.00	Survey & Conn.	Survey & Conn.@9118' Inc 89.46° Azm 180.17°
13:15	13:25	0.17	9180	9195	15	90.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:15R))
13:25	13:45	0.33	9195	9275	80	240.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
13:45	13:50	0.08	9275	9275	0	.00	Survey & Conn.	Survey & Conn.@9213' Inc 90.34° Azm 180.33°
13:50	14:15	0.42	9275	9369	94	225.60	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
14:15	14:20	0.08	9369	9369	0	.00	Survey & Conn.	Survey & Conn.@9307' Inc 89.06° Azm 181.94°
14:20	14:30	0.17	9369	9381	12	72.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:0R))
14:30	14:55	0.42	9381	9464	83	199.20	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
14:55	15:00	0.08	9464	9464	0	.00	Survey & Conn.	Survey & Conn.@9402' Inc 90.4° Azm 181.03°
15:00	15:10	0.17	9464	9492	28	168.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:45L))
15:10	15:35	0.42	9492	9559	67	160.80	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
15:35	15:40	0.08	9559	9559	0	.00	Survey & Conn.	Survey & Conn.@9497' Inc 90.97° Azm 180.66°
15:40	15:50	0.17	9559	9569	10	60.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:90L))
15:50	16:10	0.33	9569	9654	85	255.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
16:10	16:40	0.50	9654	9654	0	.00	Circulating	Rig Service
16:40	16:45	0.08	9654	9654	0	.00	Survey & Conn.	Survey & Conn.@9592' Inc 90.17° Azm 179.92°
16:45	17:10	0.42	9654	9748	94	225.60	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
17:10	17:15	0.08	9748	9748	0	.00	Survey & Conn.	Survey & Conn.@9686' Inc 89.26° Azm 179.45°
17:15	17:25	0.17	9748	9755	7	42.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:100L))
17:25	17:50	0.42	9755	9843	88	211.20	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
17:50	17:55	0.08	9843	9843	0	.00	Survey & Conn.	Survey & Conn.@9781' Inc 89.23° Azm 179.17°
17:55	18:05	0.17	9843	9853	10	60.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:15R))
18:05	18:25	0.33	9853	9938	85	255.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
18:25	18:35	0.17	9938	9938	0	.00	Survey & Conn.	Survey & Conn.@9876' Inc 89.26° Azm 179.11°
18:35	18:50	0.25	9938	9958	20	80.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:20R))
18:50	19:05	0.25	9958	10033	75	300.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
19:05	19:15	0.17	10033	10033	0	.00	Survey & Conn.	Survey & Conn.@9971' Inc 90.54° Azm 179.79°
19:15	19:40	0.42	10033	10128	95	228.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
19:40	19:50	0.17	10128	10128	0	.00	Survey & Conn.	Survey & Conn.@10066' Inc 89.36° Azm 179.58°
19:50	20:00	0.17	10128	10140	12	72.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:30R))
20:00	20:20	0.33	10140	10222	82	246.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
20:20	20:30	0.17	10222	10222	0	.00	Survey & Conn.	Survey & Conn.@10160' Inc 90.23° Azm 180.16°
20:30	20:50	0.33	10222	10317	95	285.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
20:50	21:00	0.17	10317	10317	0	.00	Survey & Conn.	Survey & Conn.@10255' Inc 88.56° Azm 180.81°
21:00	21:15	0.25	10317	10333	16	64.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:15L))
21:15	21:30	0.25	10333	10412	79	316.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
21:30	21:40	0.17	10412	10412	0	.00	Survey & Conn.	Survey & Conn.@10350' Inc 89.77° Azm 179.46°
21:40	21:55	0.25	10412	10424	12	48.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:15R))
21:55	22:20	0.42	10424	10506	82	196.80	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
22:20	22:30	0.17	10506	10506	0	.00	Survey & Conn.	Survey & Conn.@10444' Inc 90.74° Azm 179.61°
22:30	22:50	0.33	10506	10601	95	285.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
22:50	23:00	0.17	10601	10601	0	.00	Survey & Conn.	Survey & Conn.@10539' Inc 90.2° Azm 179.51°
23:00	23:10	0.17	10601	10609	8	48.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:15R))
23:10	23:30	0.33	10609	10696	87	261.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
23:30	23:40	0.17	10696	10696	0	.00	Survey & Conn.	Survey & Conn.@10634' Inc 90.47° Azm 179.97°
23:40	24:00	0.33	10696	10704	8	24.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:0))

Report Time:	2400	7 of 7
API JOB #	05-123-40281	
WORK ORDER#		
FIELD:	Wattenberg	
Township:	2N	
Range/Section	64W	32
Company Man	Randy / Quiz	
2nd Dir Hand :	Paul Turner (10972)	

DAILY TOTALS		ASSEMBLY TOTALS										
Start Depth	7525.00	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	10704.00	3	259	330.00	5.50	3,688.00	15.83	10.83	32.17	4,018.00	125.24	
Below Rot Hrs.	24.00											
Total Drilled:	3179.00	Drilling Parameters		Mud Record		Bit Record		Current BHA # 3				
Avg. Total ROP:	188.85	WOB: 35		Weight: 0		Bit No: 2		Ulterra 6.125 ; U516S 5.00" Hunting Drill Motor 4.75 NMPony 4.75 NMDC 4 3/4" Pulser Sub 4.75 NMDC 4.75 NMPony 5" Steel XO 1 Stnd. HWDP (3 Jnts.) 18 Stnds. DP (54 Jnts.) NOV SS/Agitator 4 Stnds. (12 Jnts.) 4" DP 1 Jnt. 4" HWDP 14 Stnds. (42 Jnts.) 4" DP 1 Jnt 4" HWDP 14 Stnds. DP (42 Jnts.) 30 Stnds. (90 Jnts.) HWDP				
Slide Footage:	284.00	Rot Wt: 141		Visc: 0		Model Ulterra 6.125 ;						
Slide Hours	4.33	Pick UP: 183		Chlorides: 0		SN.: 26512						
Avg. Slide ROP:	65.54	Slack Off: 103		YP: 0		MFG. Ulterra						
Rotate Footage:	2895.00	SPP: 4600		PV: 0		Type PDC						
Rotary Hours	12.50	Flow: 295 - 299		PH: 0		IADC						
Avg. Rot ROP:	231.60	SPM: 78		GAS: 0		JETS 5-15						
Circ Hours	3.17	Rot. RPM 90 - 90		SAND: 0		TFA: 0.862						
Ream Hours	0.00	Mot RPM: 90 - 90		WL: 0		Hole ID: 6.125						
Rotary Hrs%:	74.26	Incl. In: 90.47		SOLID: 0		Bit Hrs: 21.33						
Slide Hrs%:	25.74	Azm. In: 179.97		BHT°: 0		Bit Ftg: 4018.00						
Rotary Ftg%:	91.07	Incl. Out: 0		Flow T°: 0		PUMPS						
Slide Ftg%:	8.93	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					

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
00:00	00:15	0.25	10704	10791	87	348.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
00:15	00:25	0.17	10791	10791	0	.00	Survey & Conn.	Survey & Conn.@10729' Inc 90.97° Azm 178.56°
00:25	00:50	0.42	10791	10805	14	33.60	Sliding	Sliding - (WOB:40;GPM :295;TFO:80R))
00:50	01:10	0.33	10805	10886	81	243.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
01:10	01:20	0.17	10886	10886	0	.00	Survey & Conn.	Survey & Conn.@10824' Inc 89.73° Azm 180.25°
01:20	01:35	0.25	10886	10895	9	36.00	Sliding	Sliding - (WOB:40;GPM :295;TFO:80R))
01:35	02:05	0.50	10895	10981	86	172.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
02:05	02:10	0.08	10981	10981	0	.00	Survey & Conn.	Survey & Conn.@10919' Inc 91.34° Azm 179.86°
02:10	02:30	0.33	10981	11075	94	282.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
02:30	02:40	0.17	11075	11075	0	.00	Survey & Conn.	Survey & Conn.@11013' Inc 91.61° Azm 180.68°
02:40	03:05	0.42	11075	11170	95	228.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
03:05	03:15	0.17	11170	11170	0	.00	Survey & Conn.	Survey & Conn.@11108' Inc 90.57° Azm 180.57°
03:15	03:40	0.42	11170	11265	95	228.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
03:40	03:50	0.17	11265	11265	0	.00	Survey & Conn.	Survey & Conn.@11203' Inc 89.6° Azm 179.79°

Start Time	End Time	Hours	Start Depth	End Depth	Delta Depth	ROP	Activity Code	COMMENT
03:50	04:15	0.42	11265	11278	13	31.20	Sliding	Sliding - (WOB:40;GPM :295;TFO:0))
04:15	04:40	0.42	11278	11359	81	194.40	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
04:40	04:50	0.17	11359	11359	0	.00	Survey & Conn.	Survey & Conn.@11297' Inc 90° Azm 179.96°
04:50	05:15	0.42	11359	11454	95	228.00	Drilling	Drilling - (WOB:35;GPM :299;RPM:90)
05:15	05:25	0.17	11454	11454	0	.00	Survey & Conn.	Survey & Conn.@11392' Inc 89.23° Azm 179.6°
05:25	05:40	0.25	11454	11533	79	316.00	Drilling	.Drilling - (WOB:35;GPM :299;RPM:90)
05:40	05:45	0.08	11533	11533	0	.00	MWD Survey	MWD Survey@11471' Inc 88.49° Azm 179.49°
05:45	11:40	5.92	11533	11533	0	.00	Circulating	Circulate hole clean
11:40	16:00	4.33	11533	11533	0	.00	POOH	POOH
16:00	18:00	2.00	11533	11533	0	.00	Change BHA	LO Directional BHA
18:00	20:00	2.00	11533	11533	0	.00	Other	Download MWD & prep for Demob
20:00	24:00	4.00	11533	11533	0	.00	Other	Demob.

BHA # 1

JOB NO.:	232066	Work Order:	232066	FIELD:	S32-T2N-R64W (Newnam/Ruhl)
Company:	EnCana Oil & Gas (USA) Inc.	Township:	2N	SECT. RANGE:	32 64W
LOCATION:	Ruhl Pad	Lead DD:	Paul Turner (10972)	Co. Man:	Randy / George
RIG NAME:	H&P 278	BHA TYPE:	Steerable Assembly	BHA WT:	12443 Wt @ Jars: N/A
STATE:	Colorado				
COUNTY:	Weld				
WELL NAME:	Ruhl 1A-32H-B264				

Time and Depths		MOTOR DATA		Drilling Parameters	
Date In:	08-Dec-14 @ 02:35	SDI Drill Motor		SO/PU:	0 - 0 / 0-0
Date Out:	08-Dec-14 @ 17:35	MFG.: SDI		Rot Strg Wt:	0-0
Hrs In Hole:	15.00	Pad OD:	8.27	WOB:	0 - 0
Start Depth:	149.00	NB Stab:	0	TORQ:	0 - 0
End Depth:	1230.00	Bit to Bend:	6.9	SPP:	0 - 0
Total Drilled:	1081.00	Bent Hsg/Sub°:	2.25 / 2.25	Motor RPM:	
Avg. Total ROP:	193.61	Lobe/Stage:	7/8 / 4	Rotary RPM:	0 - 0
Circ Hrs: Tot/Only	6.92 / 1.33	Rev/GAL:	0.16	Flow Rate:	0 - 0
Percent Slide:	22.66	Rotor Jet:	0	Avg Diff:	
Percent Hrs:	20.90	Prop BUR:		Stall Pres.:	
Slide Hours:	1.17	Act BUR:		Off Bot Pres.:	
Total Sliding:	245.00	Mud Data		Bit Record	
Avg. Slide ROP:	210.00	Type		BAKER / DP 606S	
Percent Rotary:	77.34	WT:	0	GAS:	0
Percent Hrs:	79.10	Vis:	0	PV:	0
Rotary Hours:	4.42	WL:	0	PH:	0
Total Rotary:	836.00	SOL:	0	SAND:	0
Avg. Rotary ROP:	189.28	Oil %:	0	T °:	0
Reason POOH:	TD	Chlor:	0	YP:	0
				Run #:	1
				Type Bit:	PDC
				IADC#:	TFA: 0.994
				JETS:	9-12
				Bit Drop:	0 PSI @ GPM
				Cond.:	Good

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

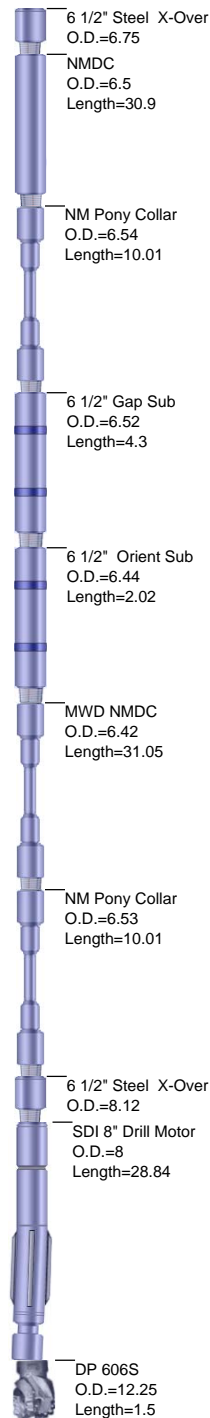
INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

- SDI 8" Drill Motor 7/8 4.0stg 2.25FBH
- Speed Ratio: 0.16RPG
- Max Flow: 900 GPM
- Max Diff: 900
- EM TFO: 342.5
- Gyro TFO: N/A

- Bit to Sensor: 60.90'
- Bit to Survey: 63'
- Bit to Gyro: N/A

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
DP 606S	7032254		12.25	1.50	1.50	6 5/8 REGP	BAKER
SDI 8" Drill Motor	836		8	28.84	30.34	6 5/8 REGB	SDI
6 1/2" Steel X-Over	1-858	3.25	8.12	4.04	34.38	4 1/2 XHB	SDI
NM Pony Collar	125-074	3.37	6.53	10.01	44.39	4 1/2 XHB	SDI
MWD NMDC	122-969	3.25	6.42	31.05	75.44	4 1/2 XHB	SDI
6 1/2" Orient Sub	8-741	3.31	6.44	2.02	77.46	4 1/2 XHB	SDI
6 1/2" Gap Sub	69-911	3	6.52	4.30	81.76	4 1/2 XHB	SDI
NM Pony Collar	125-412	3.25	6.54	10.01	91.77	4 1/2 XHB	SDI
NMDC	DR 9338	3.25	6.5	30.90	122.67	4 1/2 XHB	OTHER
6 1/2" Steel X-Over	SD11583	3.25	6.75	3.04	125.71	XT39B	SDI



JOB NO.: 232066
Company: EnCana Oil & Gas (USA) Inc.
LOCATION: Ruhl Pad
RIG NAME: H&P 278
STATE: Colorado
COUNTY: Country
WELL NAME: Ruhl 1A-32H-B264

FIELD: S32-T2N-R64W (Newnam/Ruhl)
Township: 2N
Range 64W

MOTOR INFORMATION

Desc: SDI Drill Motor
 Bent Hsg/Sub: $\frac{2.2}{5}$ / $\frac{2.2}{5}$ Bit to Bend: 6.9
 Pad OD: 8.27 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	8-Dec	Drilling	06:35	06:40	0.08	149	159	10		120.0	0	0				0.00	0.00	0.00	
1	8-Dec	Drilling	07:05	07:15	0.17	159	159	0		0.0	0	0				0.00	0.00	0.00	
1	8-Dec	Sliding	07:15	07:20	0.08	159	174	15		180.0	0	0			300M	0.00	0.00	0.00	
1	8-Dec	Drilling	07:30	07:45	0.25	174	216	42		168.0	0	0				0.00	0.00	0.00	
1	8-Dec	Sliding	07:45	08:00	0.25	216	238	22		88.0	0	0			315M	0.00	0.00	0.00	
1	8-Dec	Drilling	08:00	08:30	0.50	238	307	69		138.0	0	0				2.67	301.67	0.00	
1	8-Dec	Sliding	08:35	08:40	0.08	307	329	22		264.0	0	0			340M	2.67	301.67	0.00	
1	8-Dec	Drilling	08:40	08:55	0.25	329	397	68		272.0	0	0				3.59	312.48	0.00	
1	8-Dec	Sliding	09:00	09:05	0.08	397	439	42		504.0	0	0			350M	4.69	329.49	0.00	
1	8-Dec	Drilling	09:05	09:20	0.25	439	487	48		192.0	0	0				4.69	329.49	0.00	
1	8-Dec	Sliding	09:50	10:00	0.17	487	537	50		300.0	0	0			20L	6.64	334.26	0.00	
1	8-Dec	Drilling	10:00	10:25	0.42	537	578	41		98.4	0	0				6.64	334.26	0.00	
1	8-Dec	Sliding	10:30	10:35	0.08	578	600	22		264.0	0	0			30L	6.64	334.26	0.00	
1	8-Dec	Drilling	10:35	11:00	0.42	600	668	68		163.2	0	0				8.43	327.76	0.00	
1	8-Dec	Sliding	11:05	11:15	0.17	668	698	30		180.0	0	0			30L	9.65	320.02	0.00	
1	8-Dec	Drilling	11:15	11:20	0.08	698	757	59		708.0	0	0				9.65	320.02	0.00	
1	8-Dec	Sliding	11:55	12:00	0.08	757	773	16		192.0	0	0			30L	9.65	320.02	0.00	
1	8-Dec	Drilling	12:00	12:30	0.50	773	847	74		148.0	0	0				11.41	322.33	0.00	
1	8-Dec	Drilling	12:35	12:55	0.33	847	937	90		270.0	0	0				10.46	324.06	0.00	
1	8-Dec	Sliding	13:00	13:05	0.08	937	953	16		192.0	0	0			30L	10.46	324.06	0.00	
1	8-Dec	Drilling	13:05	13:25	0.33	953	1028	75		225.0	0	0				10.74	322.09	0.00	
1	8-Dec	Sliding	13:30	13:35	0.08	1028	1038	10		120.0	0	0			10L	10.74	322.09	0.00	
1	8-Dec	Drilling	13:35	14:00	0.42	1038	1120	82		196.8	0	0				11.13	319.23	0.00	
1	8-Dec	Drilling	14:30	14:45	0.25	1120	1214	94		376.0	0	0				0.00	0.00	0.00	
1	8-Dec	Drilling	14:50	15:00	0.17	1214	1230	16		96.0	0	0				0.00	0.00	0.00	

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
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Total Drilled: 1081 **Avg. Total ROP:** 193.61 **DEPTH% - TIME %**

Total Rotary Drilled: 836 **Avg. Rotary ROP:** 189.28 **Percent Rotary:** 77.34 - 79.10

Total Drilled Sliding: 245 **Avg. Slide ROP:** 210.00 **Percent Slide:** 22.66 - 20.90

BHA # 1

JOB NO.:	250175	Work Order:	FIELD:	Wattenberg
Company:	EnCana Oil & Gas (USA) Inc.		Township:	2N
LOCATION:	Ruhl Pad		SECT. RANGE:	32 64W
RIG NAME:	H&P 278		Lead DD:	Steven Schlamp (10800)
STATE:	Colorado		Co. Man:	Randy / Quiz
COUNTY:	Weld		BHA TYPE:	Steerable Assembly
WELL NAME:	Ruhl 1A-32H-B264		BHA WT:	81038
			Wt @ Jars:	N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 29-Jan-15 @ 14:35	6.75 Drill Motor	SO/PU: 0 - 121 / 0-160
Date Out: 31-Jan-15 @ 03:45	MFG.: SDI	Rot Strg Wt: 0-138
Hrs In Hole: 37.17	Pad OD: 7.46	WOB: 0 - 35
Start Depth: 1230.00	NB Stab: 0	TORQ: 0 - 12
End Depth: 7207.00	Bit to Bend: 2.77	SPP: 0 - 4660
Total Drilled: 5977.00	Bent Hsg/Sub°: 1.83 /	Motor RPM: 168
Avg. Total ROP: 256.16	Lobe/Stage: 7/8 / 6.4	Rotary RPM: 0 - 70
Circ Hrs: Tot/Only 27.83 / 4.50	Rev/GAL: 0.29	Flow Rate: 0 - 600
Percent Slide: 12.53	Rotor Jet: 0	Avg Diff:
Percent Hrs: 27.14	Prop BUR:	Stall Pres.:
Slide Hours: 6.33	Act BUR:	Off Bot Pres.:
Total Sliding: 749.00		
Avg. Slide ROP: 118.26		
Percent Rotary: 87.47		
Percent Hrs: 72.86		
Rotary Hours: 17.00		
Total Rotary: 5228.00		
Avg. Rotary ROP: 307.53		
Reason POOH:		

MWD Spacing	Gamma: 53.47	Restiv: 0	Sensor: 62.14	Last Casing	O.D.
	GYRO: 0	DNSC: 1223	Sonic: 0	Shoe @:	Hanger @:

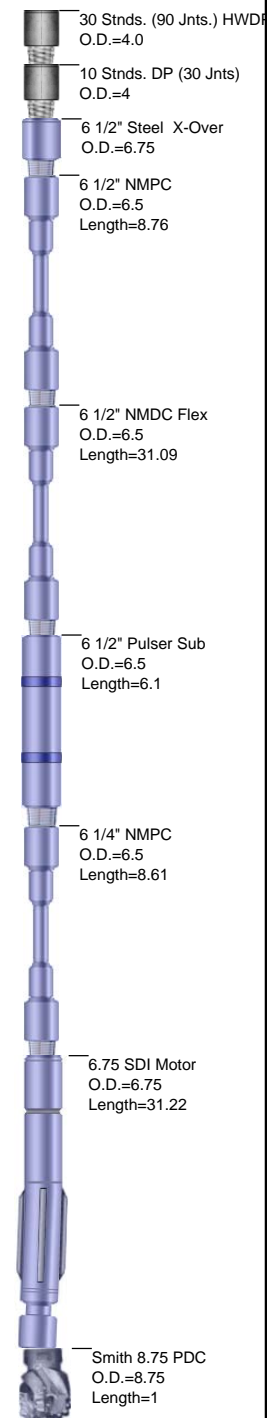
INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

- 6 3/4" SDI Titan TD Drill Motor 7/8 6.4stg 1.83FBH
- Speed Ratio: 0.29RPG
- TFO: 119.00

- Bit to Sensor - 62.67'
- Bit to Survey - 65.00'
- Bit to Gamma - 54.02'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
Smith 8.75 PDC	JK0906		8.75	1.00	1.00	4 1/2 REGP	SMITH
6.75 SDI Motor	6694	2.0	6.75	31.22	32.22	4 1/2 XHB	SDI
6 1/4" NMPC	40386	3.25	6.5	8.61	40.83	4 1/2 XHB	SDI
6 1/2" NMDC Flex	122-329F	3.25	6.5	31.02	71.85	4 1/2 XHB	SDI
6 1/2" Pulser Sub	129-070		6.5	6.10	77.95	4 1/2 XHB	SDI
6 1/2" NMDC Flex	122-466F	3.25	6.5	31.09	109.04	4 1/2 XHB	SDI
6 1/2" NMPC	38678	3.25	6.5	8.76	117.80	4 1/2 XHB	SDI
6 1/2" Steel X-Over	11583	3.25	6.75	3.04	120.84	XT39B	SDI
10 Stnds. DP (30 Jnts)	RIG111	3.25	4	948.96	1069.80	XT39B	Other
30 Stnds. (90 Jnts.) HWDP	RIG123	2.88	4.0	2,723.90	3793.70	XT39	Other



JOB NO.: 250175
Company: EnCana Oil & Gas (USA) Inc.
LOCATION: Ruhl Pad
RIG NAME: H&P 278
STATE: Colorado
COUNTY: Country
WELL NAME: Ruhl 1A-32H-B264

FIELD: Wattenberg
Township: 2N
Range 64W

MOTOR INFORMATION

Desc: 6.75 Drill Motor
 Bent Hsg/Sub: $\frac{1.8}{3}$ / 0 Bit to Bend: 2.77
 Pad OD: 7.46 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	29-Jan	Drilling	17:00	17:45	0.75	1230	1230	0		0.0	0	0				10.09	318.05	0.00	
1	29-Jan	Drilling	17:45	17:50	0.08	1230	1240	10		120.0	0	0				10.09	318.05	0.00	
1	29-Jan	Drilling	18:45	18:55	0.17	1240	1250	10		60.0	0	0				10.09	318.05	0.00	
1	29-Jan	Drilling	19:40	19:50	0.17	1250	1341	91		546.0	0	0				10.15	321.62	0.00	
1	29-Jan	Sliding	19:55	20:20	0.42	1341	1524	183	30	439.2	50	6	580	2480		10.14	319.51	0.00	
1	29-Jan	Drilling	20:25	20:55	0.50	1524	1705	181		362.0	0	6		2480		10.36	320.70	0.00	
1	29-Jan	Drilling	21:00	21:25	0.42	1705	1886	181		434.4	0	6		2480		10.81	320.00	0.00	
1	29-Jan	Drilling	21:30	21:55	0.42	1886	2067	181		434.4	0	6		2480		10.02	317.26	0.00	
1	29-Jan	Sliding	22:00	22:10	0.17	2067	2079	12	30	72.0	0	6	580	2480	150R	10.02	317.26	0.00	
1	29-Jan	Drilling	22:10	22:15	0.08	2079	2159	80		960.0	0	6		2480		10.02	317.26	0.00	
1	29-Jan	Sliding	22:15	22:25	0.17	2159	2172	13	30	78.0	0	6	580	2480	170R	10.02	317.26	0.00	
1	29-Jan	Drilling	22:25	22:40	0.25	2172	2248	76		304.0	0	6		2480		5.55	316.33	0.00	
1	29-Jan	Sliding	22:45	22:50	0.08	2248	2258	10	30	120.0	0	6	580	2480	150R	5.55	316.33	0.00	
1	29-Jan	Drilling	22:50	22:55	0.08	2258	2309	51		612.0	0	6		2480		5.55	316.33	0.00	
1	29-Jan	Drilling	22:55	23:10	0.25	2309	2431	122		488.0	0	6		2480		3.28	320.28	0.00	
1	29-Jan	Sliding	23:15	23:25	0.17	2431	2441	10	30	60.0	0	6	580	2480	150R	3.28	320.28	0.00	
1	29-Jan	Drilling	23:25	23:40	0.25	2441	2523	82		328.0	0	6		2480		3.28	320.28	0.00	
1	29-Jan	Sliding	23:40	23:50	0.17	2523	2530	7	30	42.0	0	6	580	2480	20M	3.28	320.28	0.00	
1	29-Jan	Drilling	23:50	23:55	0.08	2530	2614	84		1008.0	0	6		2480		2.63	345.98	0.00	
1	30-Jan	Drilling	00:00	00:25	0.42	2614	2795	181		434.4	0	6		2480		2.05	332.64	0.00	
1	30-Jan	Sliding	00:30	00:35	0.08	2795	2800	5	30	60.0	0	6	580	2480	50M	2.05	332.64	0.00	
1	30-Jan	Drilling	00:35	01:00	0.42	2800	2977	177		424.8	0	6		2480		2.66	359.00	0.00	
1	30-Jan	Sliding	01:05	01:10	0.08	2977	2989	12	30	144.0	0	6	580	2480	170M	2.66	359.00	0.00	
1	30-Jan	Drilling	01:10	01:35	0.42	2989	3157	168		403.2	0	6		2480		0.65	124.30	0.00	
1	30-Jan	Drilling	01:40	02:05	0.42	3157	3340	183		439.2	0	6		3680		0.74	122.40	0.00	
1	30-Jan	Drilling	02:10	02:35	0.42	3340	3522	182		436.8	0	6		3680		0.92	150.58	0.00	

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	30-Jan	Drilling	02:40	03:10	0.50	3522	3702	180		360.0	0	6		3680		1.70	160.53	0.00	
1	30-Jan	Sliding	03:15	03:20	0.08	3702	3711	9	30	108.0	0	6	580	3680	340M	1.70	160.53	0.00	
1	30-Jan	Drilling	03:20	03:45	0.42	3711	3888	177		424.8	0	6		3680		0.75	329.39	0.00	
1	30-Jan	Drilling	03:50	04:20	0.50	3888	4078	190		380.0	0	6		3680		0.73	354.52	0.00	
1	30-Jan	Drilling	04:25	04:55	0.50	4078	4267	189		378.0	0	6		3680		0.32	32.95	0.00	
1	30-Jan	Drilling	05:00	05:30	0.50	4267	4456	189		378.0	0	6		3680		0.65	10.79	0.00	
1	30-Jan	Drilling	05:35	06:10	0.58	4456	4645	189		324.0	0	6		3680		0.75	321.20	0.00	
1	30-Jan	Sliding	06:15	06:20	0.08	4645	4657	12	30	144.0	0	6	580	3680	145M	0.75	321.20	0.00	
1	30-Jan	Drilling	06:20	06:55	0.58	4657	4835	178		305.1	0	6		3680		0.15	291.74	0.00	
1	30-Jan	Sliding	07:00	07:05	0.08	4835	4849	14	30	168.0	0	6	580	3680	150M	0.15	291.74	0.00	
1	30-Jan	Drilling	07:05	07:45	0.67	4849	5026	177		265.5	0	6		3680		0.37	100.24	0.00	
1	30-Jan	Drilling	07:50	08:30	0.67	5026	5215	189		283.5	0	6		3680		0.20	169.89	0.00	
1	30-Jan	Drilling	08:35	09:10	0.58	5215	5405	190		325.7	0	6		3680		0.50	150.84	0.00	
1	30-Jan	Drilling	09:15	09:50	0.58	5405	5595	190		325.7	0	6		3680		0.42	30.66	0.00	
1	30-Jan	Drilling	09:55	10:30	0.58	5595	5784	189	35	324.0	70	10.2	600	4600		1.04	23.06	0.00	
1	30-Jan	Sliding	10:35	10:45	0.17	5784	5799	15	30	90.0	0	6	580	3680	210M	1.04	23.06	0.00	
1	30-Jan	Drilling	10:45	11:20	0.58	5799	5974	175	35	300.0	70	6	600	3680		1.82	231.15	0.00	
1	30-Jan	Drilling	11:25	12:05	0.67	5974	6164	190	35	285.0	70	6	600	3680		1.63	246.80	0.00	
1	30-Jan	Drilling	12:10	13:00	0.83	6164	6354	190	35	228.0	70	10.9	600	4600		1.32	221.12	0.00	
1	30-Jan	Sliding	13:50	14:25	0.58	6354	6417	63	30	108.0	70	10.9	580	4600	180M	4.98	170.95	0.00	
1	30-Jan	Drilling	14:25	14:40	0.25	6417	6448	31	35	124.0	30	10.9	537	4600		4.98	170.95	0.00	
1	30-Jan	Sliding	14:45	15:15	0.50	6448	6506	58	30	116.0	30	10.9	580	4600	15R	12.08	170.49	0.00	
1	30-Jan	Drilling	15:15	15:30	0.25	6506	6543	37	35	148.0	30	10.9	537	4600		12.08	170.49	0.00	
1	30-Jan	Sliding	15:35	16:05	0.50	6543	6602	59	30	118.0	30	10.9	580	4600	45R	19.72	174.21	0.00	
1	30-Jan	Drilling	16:05	16:15	0.17	6602	6638	36	35	216.0	30	10.9	537	4600		19.72	174.21	0.00	
1	30-Jan	Sliding	16:35	16:55	0.33	6638	6688	50	30	150.0	30	10.9	580	4600	0R	26.69	177.93	0.00	
1	30-Jan	Drilling	16:55	17:10	0.25	6688	6733	45	35	180.0	30	10.9	537	4600		26.69	177.93	0.00	
1	30-Jan	Sliding	17:15	17:40	0.42	6733	6788	55	30	132.0	30	10.9	580	4600	30R	32.77	177.16	0.00	
1	30-Jan	Drilling	17:40	18:00	0.33	6788	6828	40	35	120.0	30	10.9	537	4600		32.77	177.16	0.00	
1	30-Jan	Sliding	18:05	18:35	0.50	6828	6891	63	30	126.0	30	10.9	580	4600	30R	39.94	178.80	0.00	
1	30-Jan	Drilling	18:35	18:50	0.25	6891	6923	32	35	128.0	30	10.9	537	4600		39.94	178.80	0.00	
1	30-Jan	Sliding	18:55	19:15	0.33	6923	6977	54	35	162.0	30	10.9	580	4600	30R	52.43	178.52	0.00	
1	30-Jan	Drilling	19:15	19:30	0.25	6977	7017	40	35	160.0	30	12	537	4660		52.43	178.52	0.00	
1	30-Jan	Drilling	19:35	19:50	0.25	7017	7037	20	35	80.0	30	12	537	4660		52.43	178.52	0.00	
1	30-Jan	Sliding	19:50	20:15	0.42	7037	7057	20	35	48.0	30	12	580	4660	30R	60.34	176.29	0.00	

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	30-Jan	Drilling	20:15	20:35	0.33	7057	7112	55	35	165.0	30	12	537	4660		60.34	176.29	0.00	
1	30-Jan	Drilling	20:40	20:50	0.17	7112	7130	18	35	108.0	30	12	537	4660		60.34	176.29	0.00	
1	30-Jan	Sliding	20:50	21:50	1.00	7130	7155	25	35	25.0	30	12	580	4660	60R	64.49	174.59	0.00	
1	30-Jan	Drilling	21:50	22:00	0.17	7155	7207	52	35	312.0	30	12	537	4660		64.49	174.59	0.00	

Total Drilled: 5977 **Avg. Total ROP:** 256.16 **DEPTH% - TIME %**

Total Rotary Drilled: 5228 **Avg. Rotary ROP:** 307.53 **Percent Rotary:** 87.47 - 72.86

Total Drilled Sliding: 749 **Avg. Slide ROP:** 118.26 **Percent Slide:** 12.53 - 27.14

BHA # 2

JOB NO.:	250175	Work Order:	FIELD:	Wattenberg
Company:	EnCana Oil & Gas (USA) Inc.		Township:	2N
LOCATION:	Ruhl Pad		SECT. RANGE:	32 64W
RIG NAME:	H&P 278		Lead DD:	Steven Schlamp (10800)
STATE:	Colorado		Co. Man:	Randy / Quiz
COUNTY:	Weld		BHA TYPE:	Steerable Assembly
WELL NAME:	Ruhl 1A-32H-B264		BHA WT:	80281
			Wt @ Jars:	N/A

Time and Depths		MOTOR DATA	Drilling Parameters	
Date In:	31-Jan-15 @ 03:45	6.75 Drill Motor	SO/PU:	120 - 120 / 160-160
Date Out:	31-Jan-15 @ 24:00	MFG.: SDI	Rot Strg Wt:	138-138
Hrs In Hole:	20.25	Pad OD: 7.48	WOB:	35 - 35
Start Depth:	7207.00	NB Stab: 0	TORQ:	12 - 12
End Depth:	7515.00	Bit to Bend: 3.02	SPP:	4660 - 4660
Total Drilled:	308.00	Bent Hsg/Sub°: 1.95 /	Motor RPM:	168
Avg. Total ROP:	47.38	Lobe/Stage: 7/8 / 6.4	Rotary RPM:	30 - 30
Circ Hrs: Tot/Only	9.50 / 3.00	Rev/GAL: 0.29	Flow Rate:	537 - 580
Percent Slide:	51.30	Rotor Jet: 0	Avg Diff:	
Percent Hrs:	75.64	Prop BUR:	Stall Pres.:	
Slide Hours:	4.92	Act BUR:	Off Bot Pres.:	
Total Sliding:	158.00			
Avg. Slide ROP:	32.14			
Percent Rotary:	48.70			
Percent Hrs:	24.36			
Rotary Hours:	1.58			
Total Rotary:	150.00			
Avg. Rotary ROP:	94.74			
Reason POOH:	TD			

MWD Spacing	Gamma: 53.47	Restiv: 0	Sensor: 62.14	Last Casing	O.D.
	GYRO: 0	DNSC: 7207	Sonic: 0	Shoe @:	Hanger @:

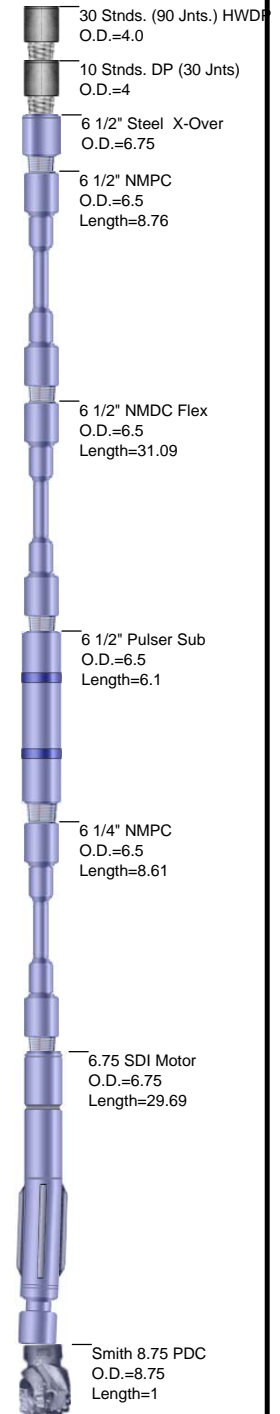
INC IN: .0 INC OUT: .0 AZM IN: .00 AZM OUT: .00

- 6 3/4" SDI Titan TD Drill Motor 7/8 6.4stg 1.83FBH
- Speed Ratio: 0.29RPG
- TFO: 3.80

- Bit to Sensor - 61.14'
- Bit to Survey - 63'
- Bit to Gamma - 52.49'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
Smith 8.75 PDC	JJ9803		8.75	1.00	1.00	4 1/2 REGP	SMITH
6.75 SDI Motor	65097		6.75	29.69	30.69	4 1/2 XHB	SDI
6 1/4" NMPC	40386	3.25	6.5	8.61	39.30	4 1/2 XHB	SDI
6 1/2" NMDC Flex	122-329F	3.25	6.5	31.02	70.32	4 1/2 XHB	SDI
6 1/2" Pulser Sub	129-070		6.5	6.10	76.42	4 1/2 XHB	SDI
6 1/2" NMDC Flex	122-466F	3.25	6.5	31.09	107.51	4 1/2 XHB	SDI
6 1/2" NMPC	38678	3.25	6.5	8.76	116.27	4 1/2 XHB	SDI
6 1/2" Steel X-Over	11583	3.25	6.75	3.04	119.31	XT39B	SDI
10 Stnds. DP (30 Jnts)	RIG111	3.25	4	948.96	1068.27	XT39B	Other
30 Stnds. (90 Jnts.) HWDP	RIG123	2.88	4.0	2,723.90	3792.17	XT39	Other



JOB NO.: 250175
Company: EnCana Oil & Gas (USA) Inc.
LOCATION: Ruhl Pad
RIG NAME: H&P 278
STATE: Colorado
COUNTY: Country
WELL NAME: Ruhl 1A-32H-B264

FIELD: Wattenberg
Township: 2N
Range 64W

MOTOR INFORMATION

Desc: 6.75 Drill Motor
Bent Hsg/Sub: 1.9 / 0 **Bit to Bend:** 3.02
Pad OD: 7.48 **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	31-Jan	Sliding	10:30	11:10	0.67	7207	7241	34	35	51.0	30	12	580	4660	60R	70.63	180.60	0.00	
2	31-Jan	Drilling	11:10	11:30	0.33	7241	7300	59	35	177.0	30	12	537	4660		70.63	180.60	0.00	
2	31-Jan	Sliding	11:35	13:00	1.42	7300	7347	47	35	33.2	30	12	580	4660	0R	74.90	181.25	0.00	
2	31-Jan	Drilling	13:00	13:40	0.67	7347	7395	48	35	72.0	30	12	537	4660		74.90	181.25	0.00	
2	31-Jan	Sliding	13:45	16:25	2.67	7395	7467	72	35	27.0	30	12	580	4660	0R	81.25	182.21	0.00	
2	31-Jan	Drilling	16:25	16:45	0.33	7467	7490	23	35	69.0	30	12	537	4660		81.25	182.21	0.00	
2	31-Jan	Sliding	16:50	17:00	0.17	7490	7495	5	35	30.0	30	12	580	4660	0R	81.25	182.21	0.00	
2	31-Jan	Drilling	17:00	17:15	0.25	7495	7515	20	35	80.0	30	12	537	4660		81.25	182.21	0.00	

Total Drilled: 308 **Avg. Total ROP:** 47.38

DEPTH% - TIME %

Total Rotary Drilled: 150 **Avg. Rotary ROP:** 94.74

Percent Rotary: 48.70 - 24.36

Total Drilled Sliding: 158 **Avg. Slide ROP:** 32.14

Percent Slide: 51.30 - 75.64

BHA # 3

JOB NO.: 250175	Work Order:	FIELD: Wattenberg
Company: EnCana Oil & Gas (USA) Inc.		Township: 2N
LOCATION: Ruhl Pad		SECT. RANGE: 32 64W
RIG NAME: H&P 278		Lead DD: Steven Schlamp (10800)
STATE: Colorado		Co. Man: Randy / Quiz
COUNTY: Weld		BHA TYPE: Steerable Assembly
WELL NAME: Ruhl 1A-32H-B264		BHA WT: 314059 Wt @ Jars: N/A

Time and Depths		MOTOR DATA		Drilling Parameters	
Date In:	02-Feb-15 @ 13:00	4.75 Drill Motor		SO/PU:	103 - 124 / 160-183
Date Out:	04-Feb-15 @ 18:00	MFG.: Hunting		Rot Strg Wt:	138-145
Hrs In Hole:	53.00	Pad OD:	5.15	WOB:	10 - 40
Start Depth:	7515.00	NB Stab:	0	TORQ:	8 - 12.9
End Depth:	11533.00	Bit to Bend:	5.05	SPP:	2550 - 4660
Total Drilled:	4018.00	Bent Hsg/Sub°:	1.5 / 1.5	Motor RPM:	No Rev/Gal Input
Avg. Total ROP:	181.26	Lobe/Stage:	5.6 / 8.3	Rotary RPM:	90 - 90
Circ Hrs: Tot/Only	32.17 / 10.00	Rev/GAL:	0	Flow Rate:	265 - 580
Percent Slide:	8.21	Rotor Jet:	0	Avg Diff:	
Percent Hrs:	24.81	Prop BUR:		Stall Pres.:	
Slide Hours:	5.50	Act BUR:		Off Bot Pres.:	
Total Sliding:	330.00	Mud Data		Bit Record	
Avg. Slide ROP:	60.00	Type		Ulterra / Ulterra 6.125 ; U516S	
Percent Rotary:	91.79	WT:	0	GAS:	0
Percent Hrs:	75.19	Vis:	0	PV:	0
Rotary Hours:	16.67	WL:	0	PH:	0
Total Rotary:	3688.00	SOL:	0	SAND:	0
Avg. Rotary ROP:	221.28	Oil %:	0	T °:	0
Reason POOH:	TD	Chlor:	0	YP:	0
MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 0	Last Casing	O.D.
	GYRO: 0	DNSC: 7515	Sonic: 0	Shoe @:	Hanger @:

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

- 5.00" Hunting 5/6 8.3stg Drill Motor 1.50FBH
 - Speed Ratio: 1.00RPG
 - Max Diff: 1600
 -Min/Max Flow: 190-300
 - TFO: 93.80

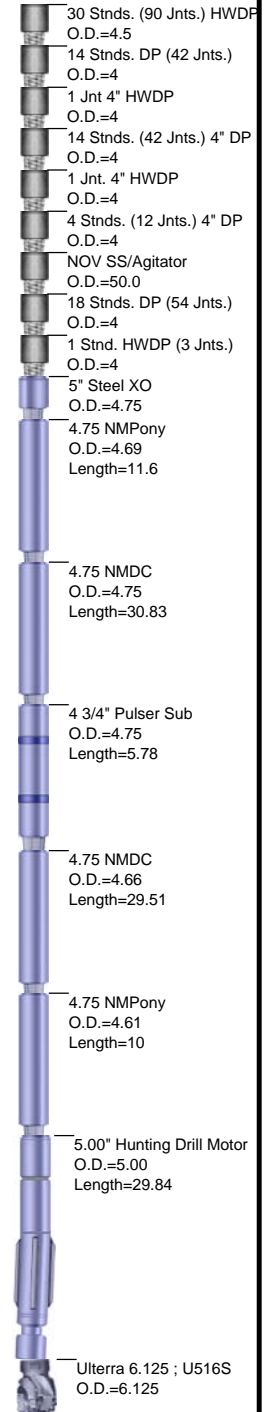
 - Bit to Sensor - 60.4
 - Bit to Survey - 62
 - Bit to Gamma - 51.7

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
Ulterra 6.125 ; U516S	26512		6.125	1.00	1.00	3 1/2 REGP	Ulterra
5.00" Hunting Drill Motor	259		5.00	29.84	30.84	3 1/2 IFB	HUNTING
4.75 NMPony	17-349	2.68	4.61	10.00	40.84	3 1/2 IFB	SDI
4.75 NMDC	121-193	2.68	4.66	29.51	70.35	3 1/2 IFB	SDI
4 3/4" Pulser Sub	65-230	2.68	4.75	5.78	76.13	3 1/2 IFB	SDI
4.75 NMDC	121-583	2.68	4.75	30.83	106.96	3 1/2 IFB	SDI
4.75 NMPony	16-042	2.68	4.69	11.60	118.56	3 1/2 IFB	SDI
5" Steel XO	107235	2.675	4.75	1.54	120.10	XT39B	SDI
1 Stnd. HWDP (3 Jnts.)	RIG222	2.88	4	91.61	211.71	XT39B	Other
18 Stnds. DP (54 Jnts.)	RIG789	3.25	4	1,706.34	1918.05	XT39B	Other
NOV SS/Agitator	W1748799-15	3.25	50.0	22.58	1940.63	XT39B	NOV
4 Stnds. (12 Jnts.) 4" DP	789	3.25	4	379.91	2320.54	XT39B	Other
1 Jnt. 4" HWDP	123	3.25	4	30.38	2350.92	XT39B	Other
14 Stnds. (42 Jnts.) 4" DP	ABC	3.25	4	1,327.69	3678.61	XT39B	Other
1 Jnt 4" HWDP	456	3.25	4	29.69	3708.30	XT39B	Other

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
14 Stnds. DP (42 Jnts.)	RIG456	3.25	4	1,327.65	5035.95	XT39B	Other
30 Stnds. (90 Jnts.) HWDP	RIG123	2.88	4.5	2,724.42	7760.37	XT39B	Other



JOB NO.: 250175
Company: EnCana Oil & Gas (USA) Inc.
LOCATION: Ruhl Pad
RIG NAME: H&P 278
STATE: Colorado
COUNTY: Country
WELL NAME: Ruhl 1A-32H-B264

FIELD: Wattenberg
Township: 2N
Range 64W

MOTOR INFORMATION

Desc: 4.75 Drill Motor
Bent Hsg/Sub: 1.5 / 1.5 **Bit to Bend:** 5.05
Pad OD: 5.15 **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	2-Feb	Sliding	22:20	22:25	0.08	7515	7525	10	35	120.0	20	4	580	2550	0R	81.25	182.21	0.00	
3	3-Feb	Drilling	00:00	00:05	0.08	7525	7577	52	30	624.0	90	8	295	3700		81.25	182.21	0.00	
3	3-Feb	Sliding	00:10	00:25	0.25	7577	7585	8	40	32.0	90	8	295	3700	45L	81.25	182.21	0.00	
3	3-Feb	Drilling	00:25	00:50	0.42	7585	7669	84	30	201.6	90	8	295	3700		88.86	182.05	0.00	
3	3-Feb	Sliding	01:05	01:25	0.33	7669	7684	15	40	45.0	90	8	295	3700	40L	88.86	182.05	0.00	
3	3-Feb	Drilling	01:25	01:40	0.25	7684	7760	76	30	304.0	90	8	295	3700		90.03	180.30	0.00	
3	3-Feb	Drilling	01:45	02:05	0.33	7760	7855	95	30	285.0	90	8	295	3700		91.44	180.96	0.00	
3	3-Feb	Sliding	02:10	02:20	0.17	7855	7867	12	40	72.0	90	8	295	3700	165L	91.44	180.96	0.00	
3	3-Feb	Drilling	02:20	02:45	0.42	7867	7949	82	30	196.8	90	8	295	3700		90.37	180.44	0.00	
3	3-Feb	Drilling	02:55	03:15	0.33	7949	8044	95	30	285.0	90	8	295	3700		90.10	179.65	0.00	
3	3-Feb	Drilling	03:25	03:40	0.25	8044	8139	95	35	380.0	90	10	295	4000		88.22	179.56	0.00	
3	3-Feb	Sliding	03:50	04:00	0.17	8139	8154	15	40	90.0	90	10	295	4000	20R	88.22	179.56	0.00	
3	3-Feb	Drilling	04:00	04:20	0.33	8154	8215	61	35	183.0	90	10	295	4000		88.93	179.88	0.00	
3	3-Feb	Drilling	07:00	07:05	0.08	8215	8234	19	35	228.0	90	10	295	4000		88.93	179.88	0.00	
3	3-Feb	Sliding	07:10	07:20	0.17	8234	8249	15	40	90.0	90	10	295	4000	20R	88.93	179.88	0.00	
3	3-Feb	Drilling	07:20	07:50	0.50	8249	8328	79	35	158.0	90	10	295	4000		89.97	181.14	0.00	
3	3-Feb	Sliding	07:55	08:00	0.08	8328	8335	7	40	84.0	90	10	295	4000	20R	89.97	181.14	0.00	
3	3-Feb	Drilling	08:00	08:35	0.58	8335	8423	88	35	150.9	90	10	295	4000		90.13	180.93	0.00	
3	3-Feb	Drilling	08:40	09:05	0.42	8423	8518	95	35	228.0	90	10.5	299	4200		89.87	181.63	0.00	
3	3-Feb	Sliding	09:10	09:20	0.17	8518	8528	10	40	60.0	90	10.5	295	4200	15L	89.87	181.63	0.00	
3	3-Feb	Drilling	09:20	09:45	0.42	8528	8612	84	35	201.6	90	10.5	299	4200		90.81	181.12	0.00	
3	3-Feb	Drilling	09:50	10:15	0.42	8612	8707	95	35	228.0	90	10.5	299	4200		91.74	181.57	0.00	
3	3-Feb	Sliding	10:20	10:30	0.17	8707	8719	12	40	72.0	90	10.5	295	4200	150L	91.74	181.57	0.00	
3	3-Feb	Drilling	10:30	10:55	0.42	8719	8801	82	35	196.8	90	10.5	299	4200		91.17	182.95	0.00	
3	3-Feb	Sliding	11:00	11:10	0.17	8801	8816	15	40	90.0	90	10.5	295	4200	120L	91.17	182.95	0.00	
3	3-Feb	Drilling	11:10	11:30	0.33	8816	8896	80	35	240.0	90	11.3	299	4400		89.97	180.44	0.00	

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	3-Feb	Drilling	11:35	11:55	0.33	8896	8990	94	35	282.0	90	11.3	299	4400		89.43	179.31	0.00	
3	3-Feb	Sliding	12:00	12:05	0.08	8990	8997	7	40	84.0	90	11.3	295	4400	30R	89.43	179.31	0.00	
3	3-Feb	Drilling	12:05	12:30	0.42	8997	9085	88	35	211.2	90	11.3	299	4400		89.50	179.52	0.00	
3	3-Feb	Sliding	12:35	12:45	0.17	9085	9095	10	40	60.0	90	11.3	295	4400	15R	89.50	179.52	0.00	
3	3-Feb	Drilling	12:45	13:10	0.42	9095	9180	85	35	204.0	90	11.3	299	4400		89.46	180.17	0.00	
3	3-Feb	Sliding	13:15	13:25	0.17	9180	9195	15	40	90.0	90	11.3	295	4400	0R	89.46	180.17	0.00	
3	3-Feb	Drilling	13:25	13:45	0.33	9195	9275	80	35	240.0	90	12.9	299	4600		90.34	180.33	0.00	
3	3-Feb	Drilling	13:50	14:15	0.42	9275	9369	94	35	225.6	90	12.9	299	4600		89.06	181.94	0.00	
3	3-Feb	Sliding	14:20	14:30	0.17	9369	9381	12	40	72.0	90	12.9	295	4600	45L	89.06	181.94	0.00	
3	3-Feb	Drilling	14:30	14:55	0.42	9381	9464	83	35	199.2	90	12.9	299	4600		90.40	181.03	0.00	
3	3-Feb	Sliding	15:00	15:10	0.17	9464	9492	28	40	168.0	90	12.9	295	4600	90L	90.40	181.03	0.00	
3	3-Feb	Drilling	15:10	15:35	0.42	9492	9559	67	35	160.8	90	12.9	299	4600		90.97	180.66	0.00	
3	3-Feb	Sliding	15:40	15:50	0.17	9559	9569	10	40	60.0	90	12.9	295	4600	100L	90.97	180.66	0.00	
3	3-Feb	Drilling	15:50	16:10	0.33	9569	9654	85	35	255.0	90	12.9	299	4600		90.17	179.92	0.00	
3	3-Feb	Drilling	16:45	17:10	0.42	9654	9748	94	35	225.6	90	12.9	299	4600		89.26	179.45	0.00	
3	3-Feb	Sliding	17:15	17:25	0.17	9748	9755	7	40	42.0	90	12.9	295	4600	15L	89.26	179.45	0.00	
3	3-Feb	Drilling	17:25	17:50	0.42	9755	9843	88	35	211.2	90	12.2	299	4600		89.23	179.17	0.00	
3	3-Feb	Sliding	17:55	18:05	0.17	9843	9853	10	40	60.0	90	12.2	295	4600	15R	89.23	179.17	0.00	
3	3-Feb	Drilling	18:05	18:25	0.33	9853	9938	85	35	255.0	90	12.2	299	4600		89.26	179.11	0.00	
3	3-Feb	Sliding	18:35	18:50	0.25	9938	9958	20	40	80.0	90	12.2	295	4600	20R	89.26	179.11	0.00	
3	3-Feb	Drilling	18:50	19:05	0.25	9958	10033	75	35	300.0	90	12.2	299	4600		90.54	179.79	0.00	
3	3-Feb	Drilling	19:15	19:40	0.42	10033	10128	95	35	228.0	90	12.2	299	4600		89.36	179.58	0.00	
3	3-Feb	Sliding	19:50	20:00	0.17	10128	10140	12	40	72.0	90	12.2	295	4600	30R	89.36	179.58	0.00	
3	3-Feb	Drilling	20:00	20:20	0.33	10140	10222	82	35	246.0	90	12.2	299	4600		90.23	180.16	0.00	
3	3-Feb	Drilling	20:30	20:50	0.33	10222	10317	95	35	285.0	90	12.2	299	4600		88.56	180.81	0.00	
3	3-Feb	Sliding	21:00	21:15	0.25	10317	10333	16	40	64.0	90	12.2	295	4600	15L	88.56	180.81	0.00	
3	3-Feb	Drilling	21:15	21:30	0.25	10333	10412	79	35	316.0	90	12.2	299	4600		89.77	179.46	0.00	
3	3-Feb	Sliding	21:40	21:55	0.25	10412	10424	12	40	48.0	90	12.2	295	4600	15R	89.77	179.46	0.00	
3	3-Feb	Drilling	21:55	22:20	0.42	10424	10506	82	35	196.8	90	12.2	299	4600		90.74	179.61	0.00	
3	3-Feb	Drilling	22:30	22:50	0.33	10506	10601	95	35	285.0	90	12.2	299	4600		90.20	179.51	0.00	
3	3-Feb	Sliding	23:00	23:10	0.17	10601	10609	8	40	48.0	90	12.2	295	4600	15R	90.20	179.51	0.00	
3	3-Feb	Drilling	23:10	23:30	0.33	10609	10696	87	35	261.0	90	12.2	299	4600		90.47	179.97	0.00	
3	3-Feb	Sliding	23:40	24:00	0.33	10696	10704	8	40	24.0	90	12.2	295	4600		90.47	179.97	0.00	
3	4-Feb	Drilling	00:00	00:15	0.25	10704	10791	87	35	348.0	90	12.2	299	4600		90.97	178.56	0.00	
3	4-Feb	Sliding	00:25	00:50	0.42	10791	10805	14	40	33.6	90	12.2	295	4600	80R	90.97	178.56	0.00	

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	4-Feb	Drilling	00:50	01:10	0.33	10805	10886	81	35	243.0	90	12.2	299	4600		89.73	180.25	0.00	
3	4-Feb	Sliding	01:20	01:35	0.25	10886	10895	9	40	36.0	90	12.2	295	4600	20R	89.73	180.25	0.00	
3	4-Feb	Drilling	01:35	02:05	0.50	10895	10981	86	35	172.0	90	12.2	299	4600		91.34	179.86	0.00	
3	4-Feb	Drilling	02:10	02:30	0.33	10981	11075	94	35	282.0	90	12.2	299	4600		91.61	180.68	0.00	
3	4-Feb	Drilling	02:40	03:05	0.42	11075	11170	95	35	228.0	90	12.2	299	4600		90.57	180.57	0.00	
3	4-Feb	Drilling	03:15	03:40	0.42	11170	11265	95	35	228.0	90	12.2	299	4600		89.60	179.79	0.00	
3	4-Feb	Sliding	03:50	04:15	0.42	11265	11278	13	40	31.2	90	12.2	295	4600		89.60	179.79	0.00	
3	4-Feb	Drilling	04:15	04:40	0.42	11278	11359	81	35	194.4	90	12.2	299	4600		90.00	179.96	0.00	
3	4-Feb	Drilling	04:50	05:15	0.42	11359	11454	95	35	228.0	90	12.2	299	4600		89.23	179.60	0.00	
3	4-Feb	Drilling	05:25	05:40	0.25	11454	11533	79	35	316.0	90	12.2	299	4600		88.49	179.49	0.00	

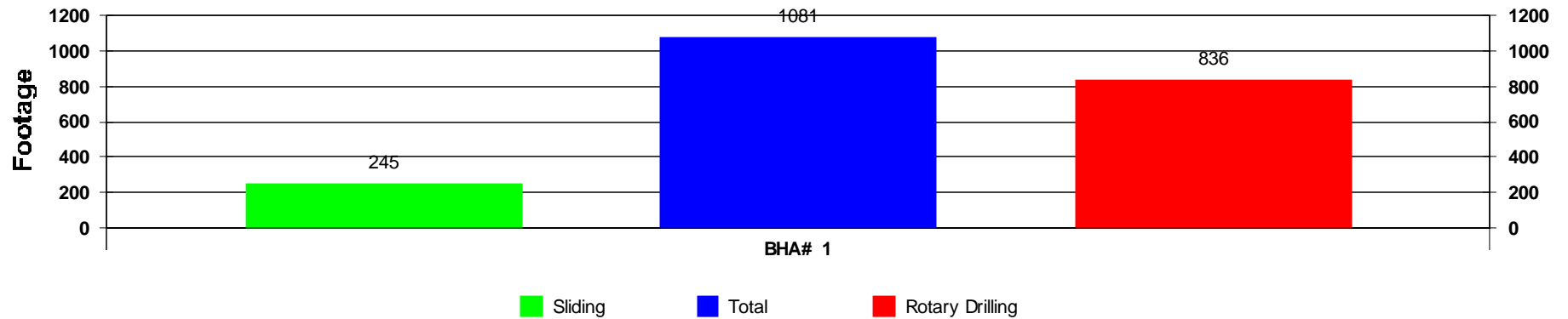
Total Drilled: 4018 **Avg. Total ROP:** 181.26 **DEPTH% - TIME %**

Total Rotary Drilled: 3688 **Avg. Rotary ROP:** 221.28 **Percent Rotary:** 91.79 - 75.19

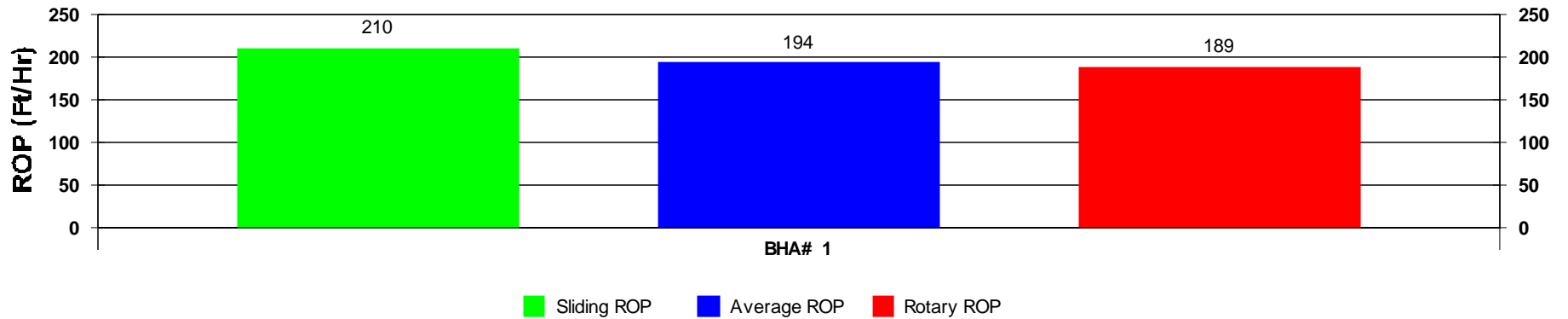
Total Drilled Sliding: 330 **Avg. Slide ROP:** 60.00 **Percent Slide:** 8.21 - 24.81

JOB NO.:	232066	FIELD:	S32-T2N-R64W (Newnam/Ruhl)	
Company:	EnCana Oil & Gas (USA) Inc.	Township:	2N	
LOCATION:	Ruhl Pad	SECTRANGE:	32	64W
RIG NAME:	H&P 278	COMMENT		
STATE:	Colorado			
COUNTY:	Weld			
WELL NAME:	Ruhl 1A-32H-B264			

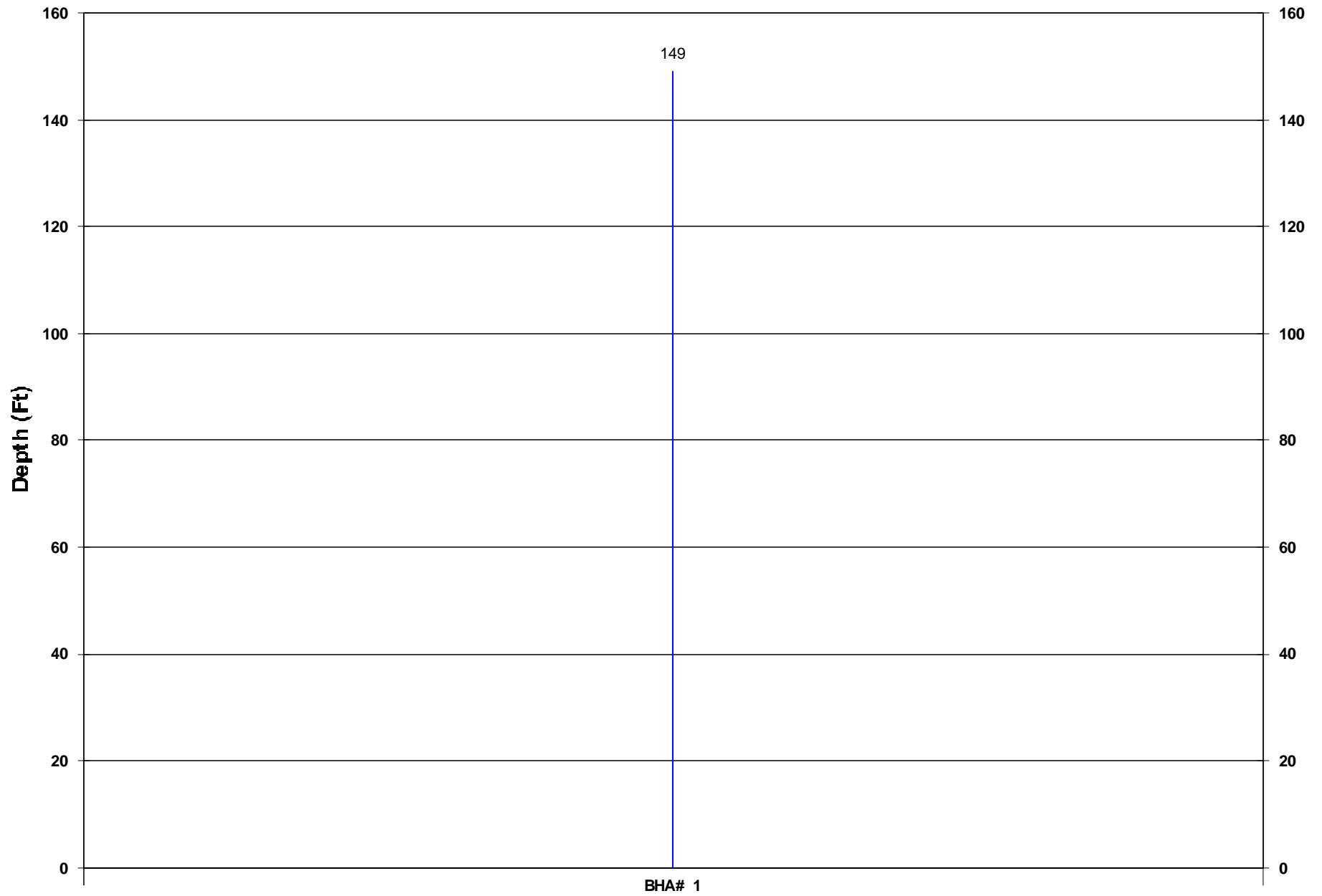
Footage Drilled with BHA



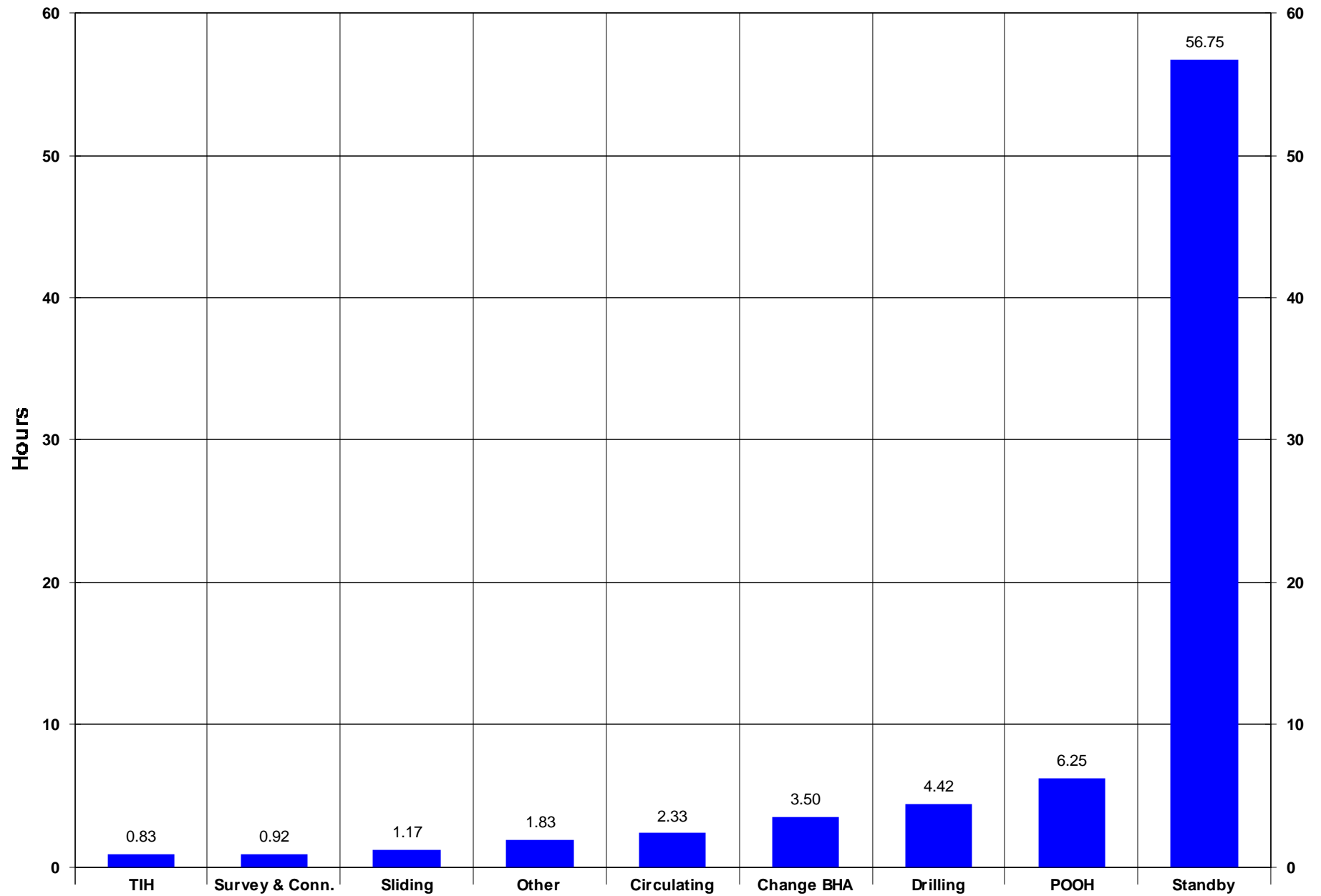
ROP vs BHA



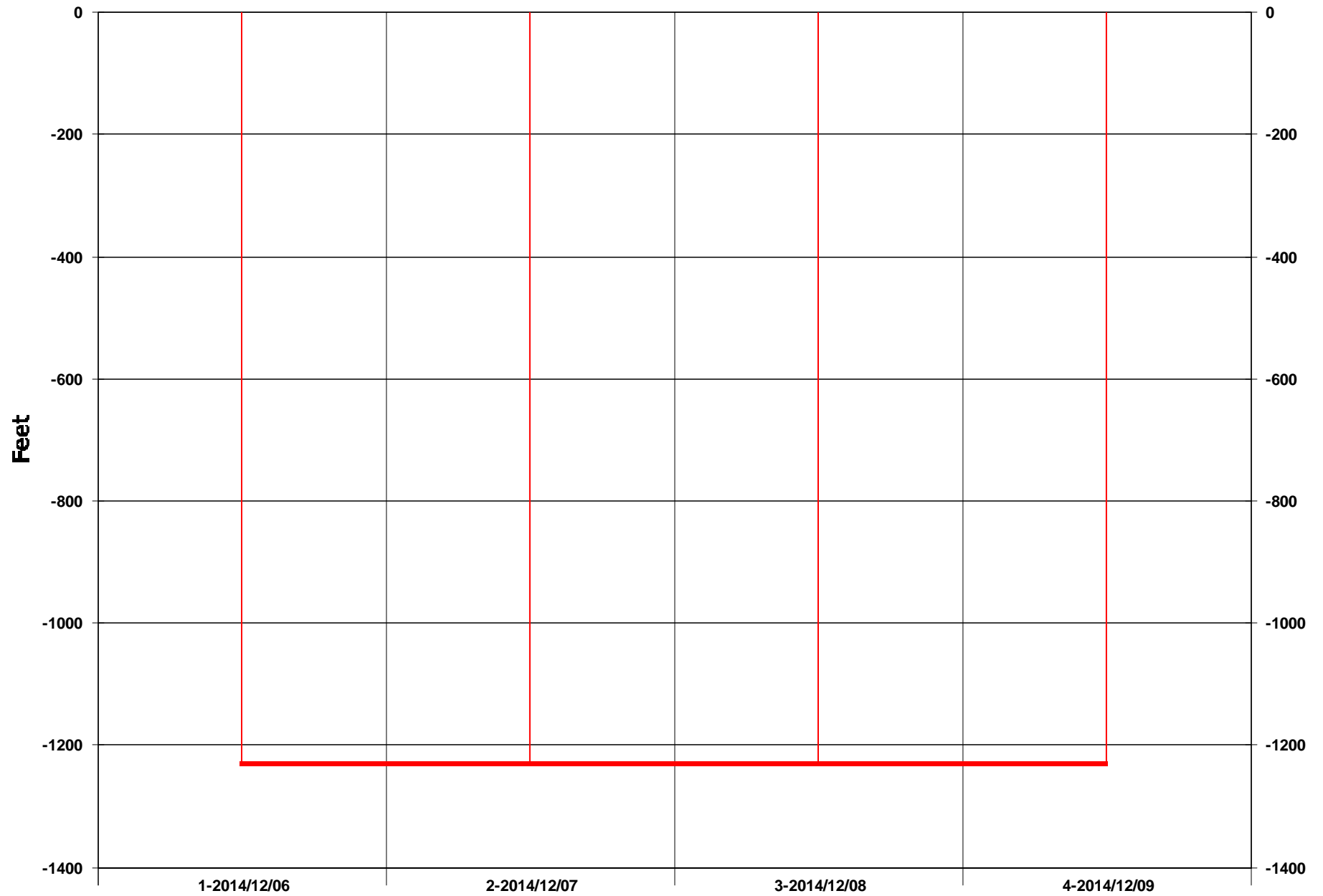
Depth vs BHA



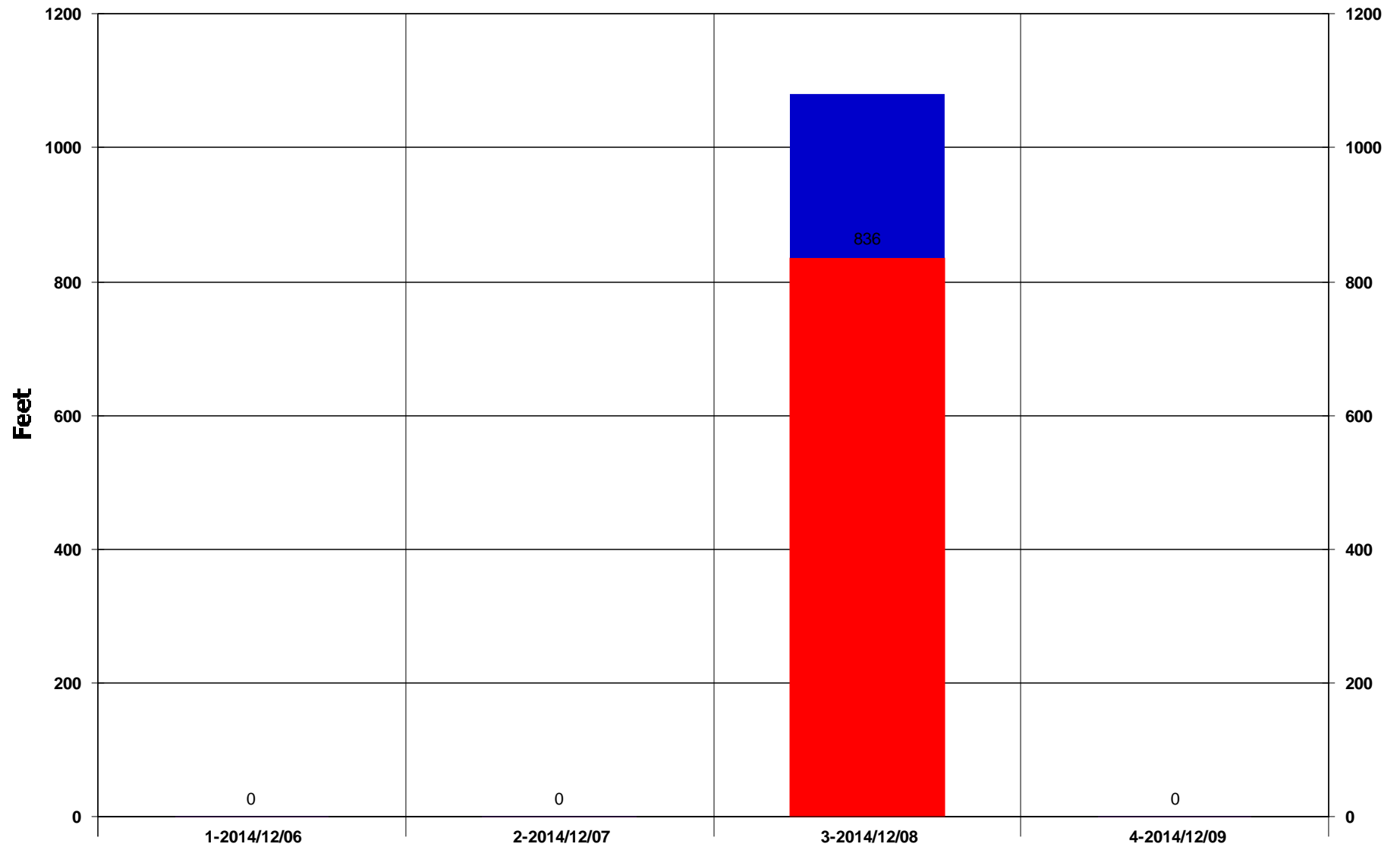
Activity Histogram



Measured Depth vs Days

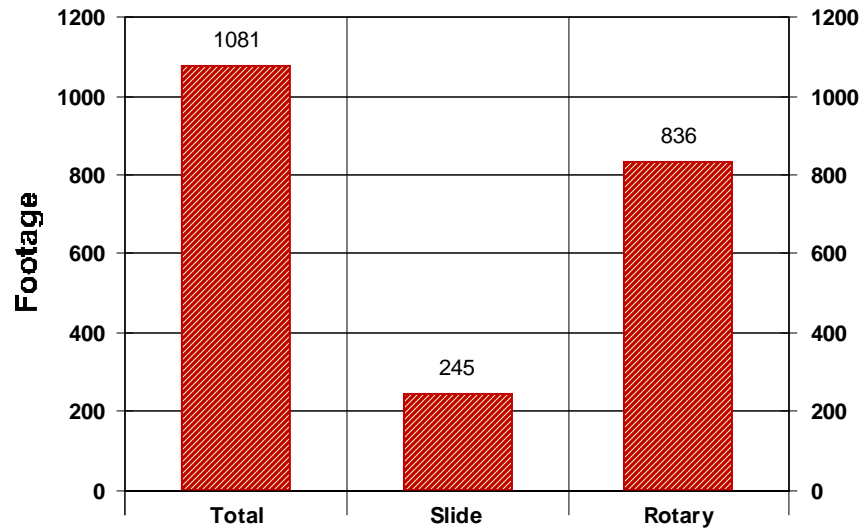


Daily Footage

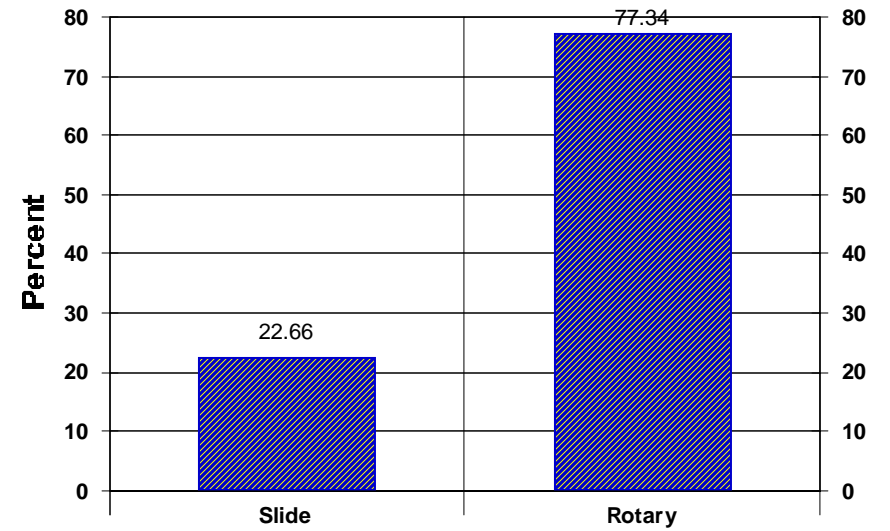


Rotary Drilling Sliding

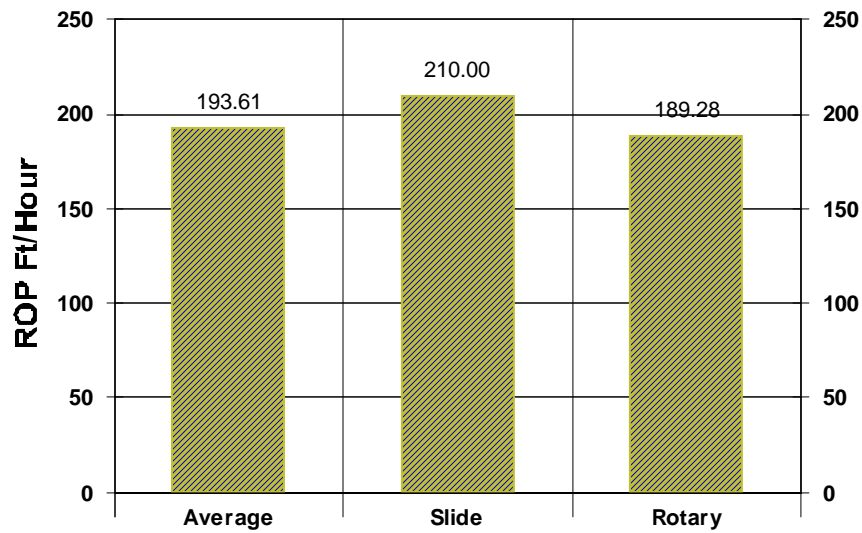
Footage Drilled Totals



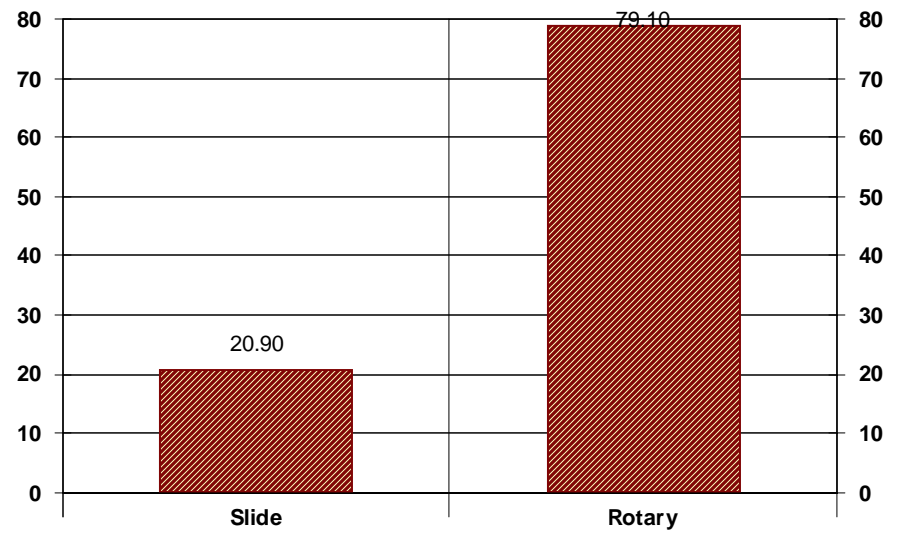
Footage Percent



Rate of Penetration Totals

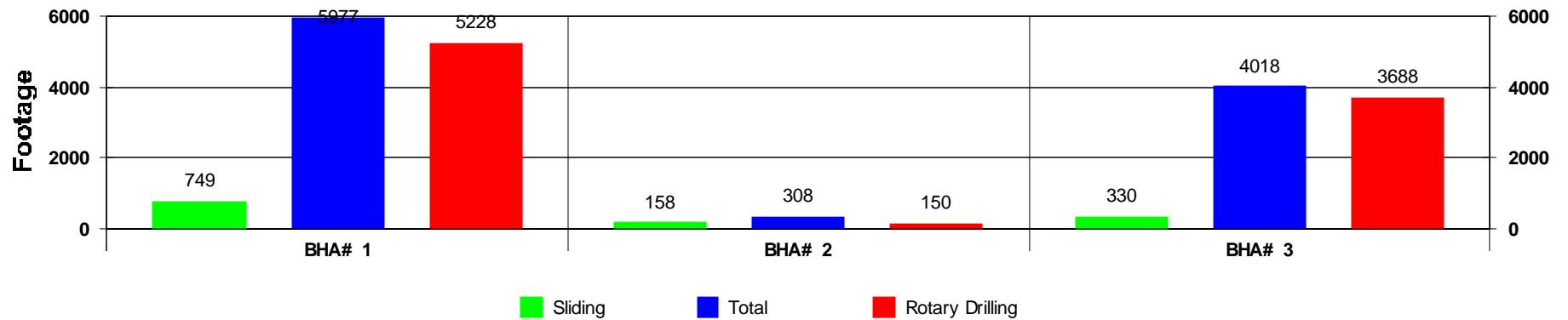


Time Percent

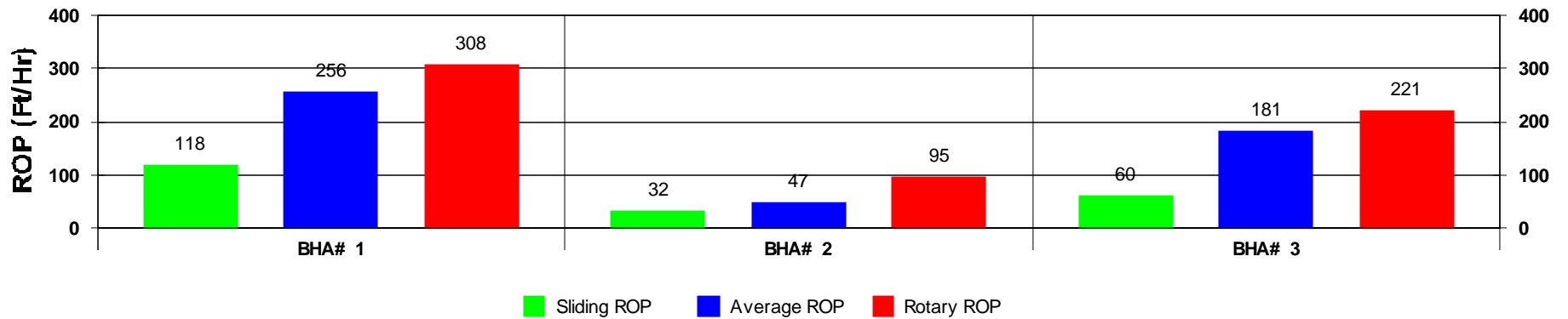


JOB NO.:	250175	FIELD:	Wattenberg	
Company:	EnCana Oil & Gas (USA) Inc.	Township:	2N	
LOCATION:	Ruhl Pad	SECTOR RANGE:	32	64W
RIG NAME:	H&P 278	COMMENT		
STATE:	Colorado			
COUNTY:	Weld			
WELL NAME:	Ruhl 1A-32H-B264			

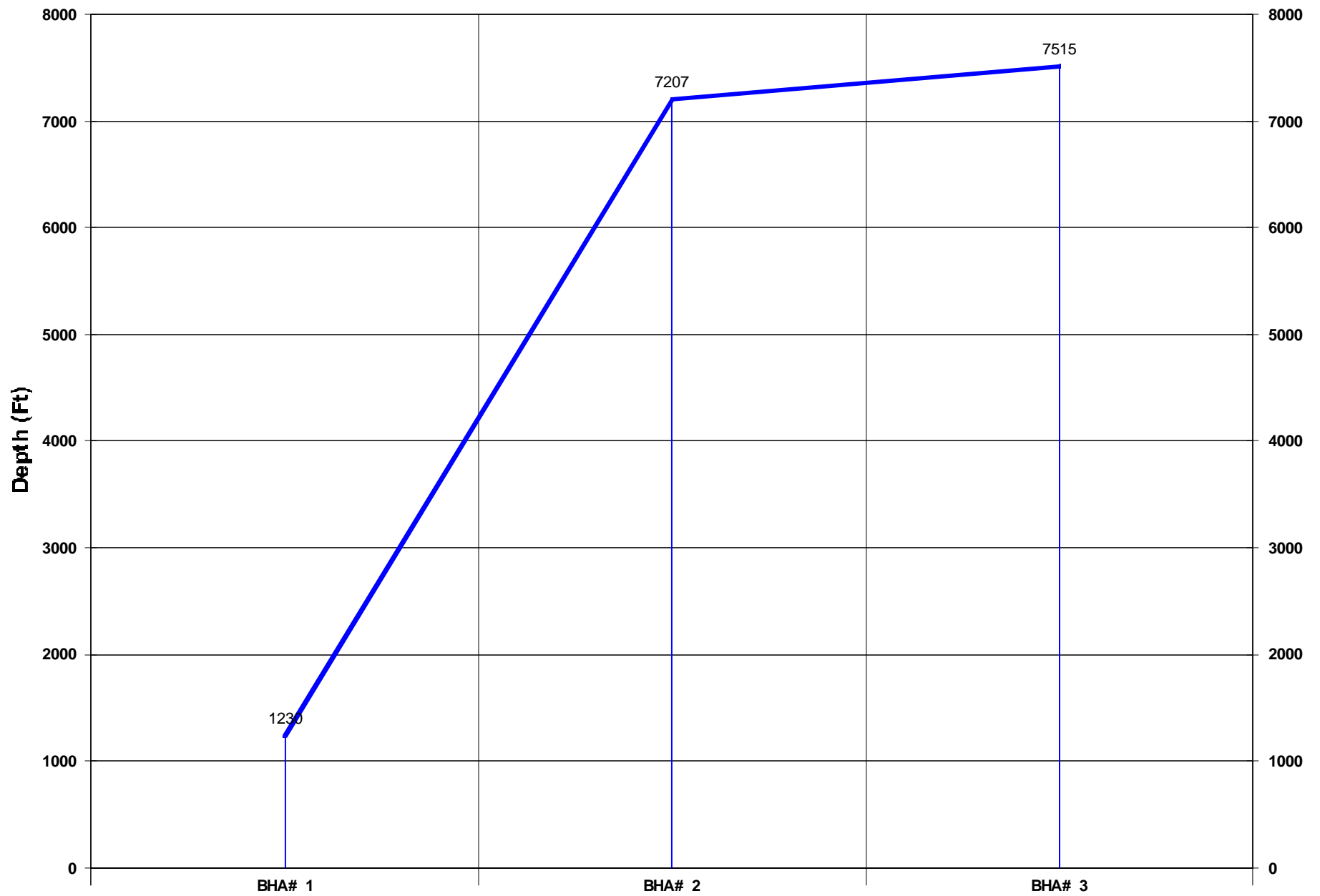
Footage Drilled with BHA



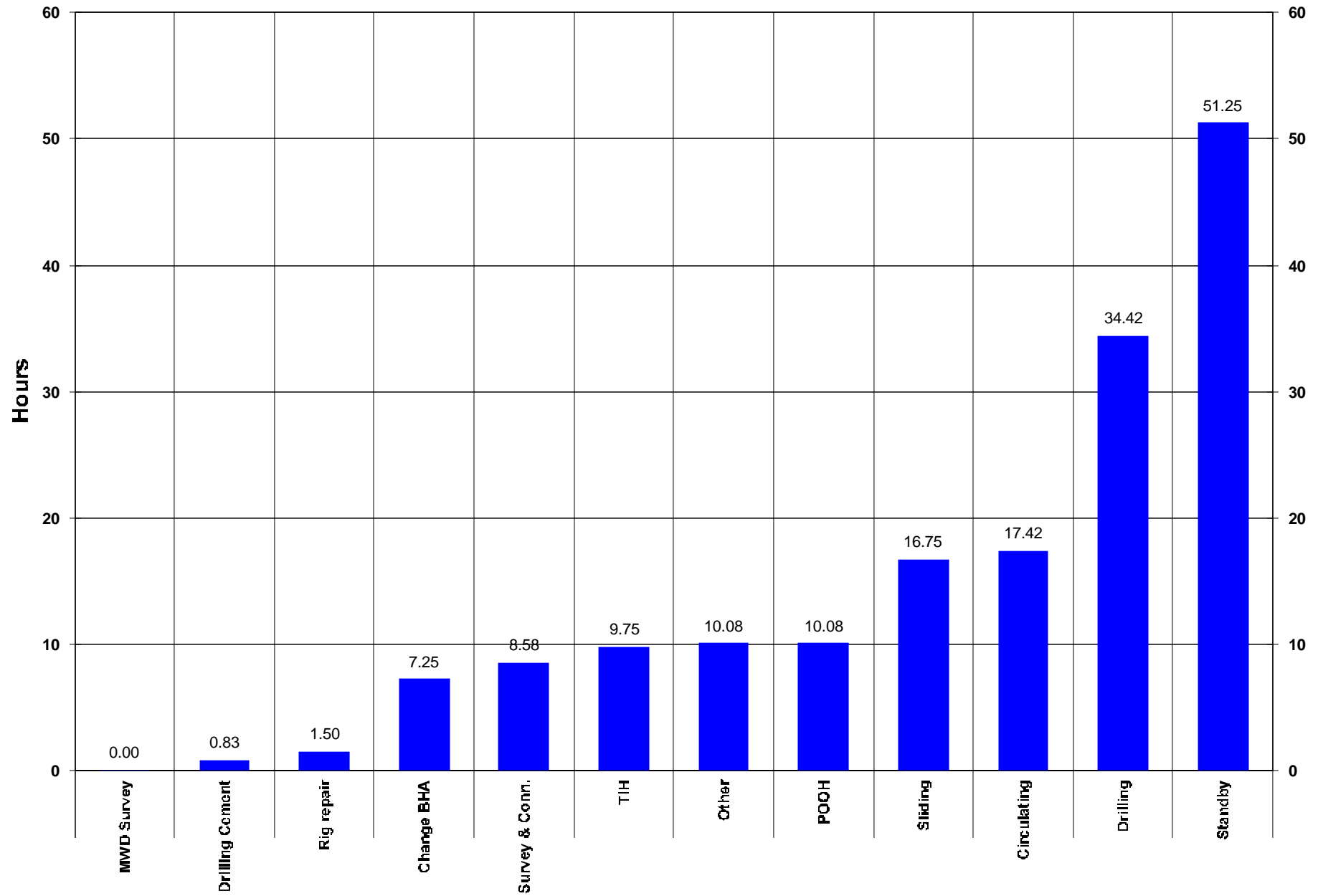
ROP vs BHA



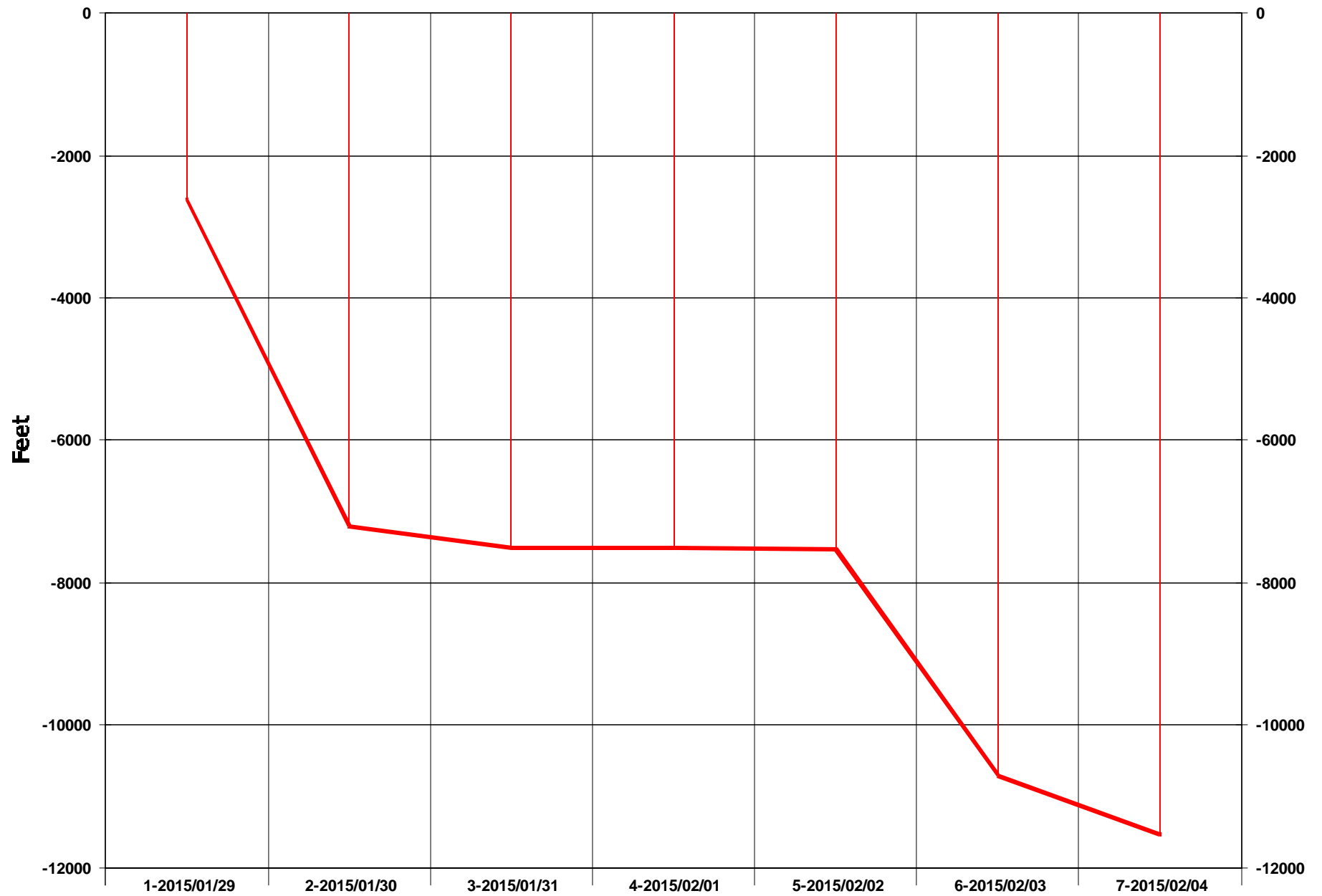
Depth vs BHA



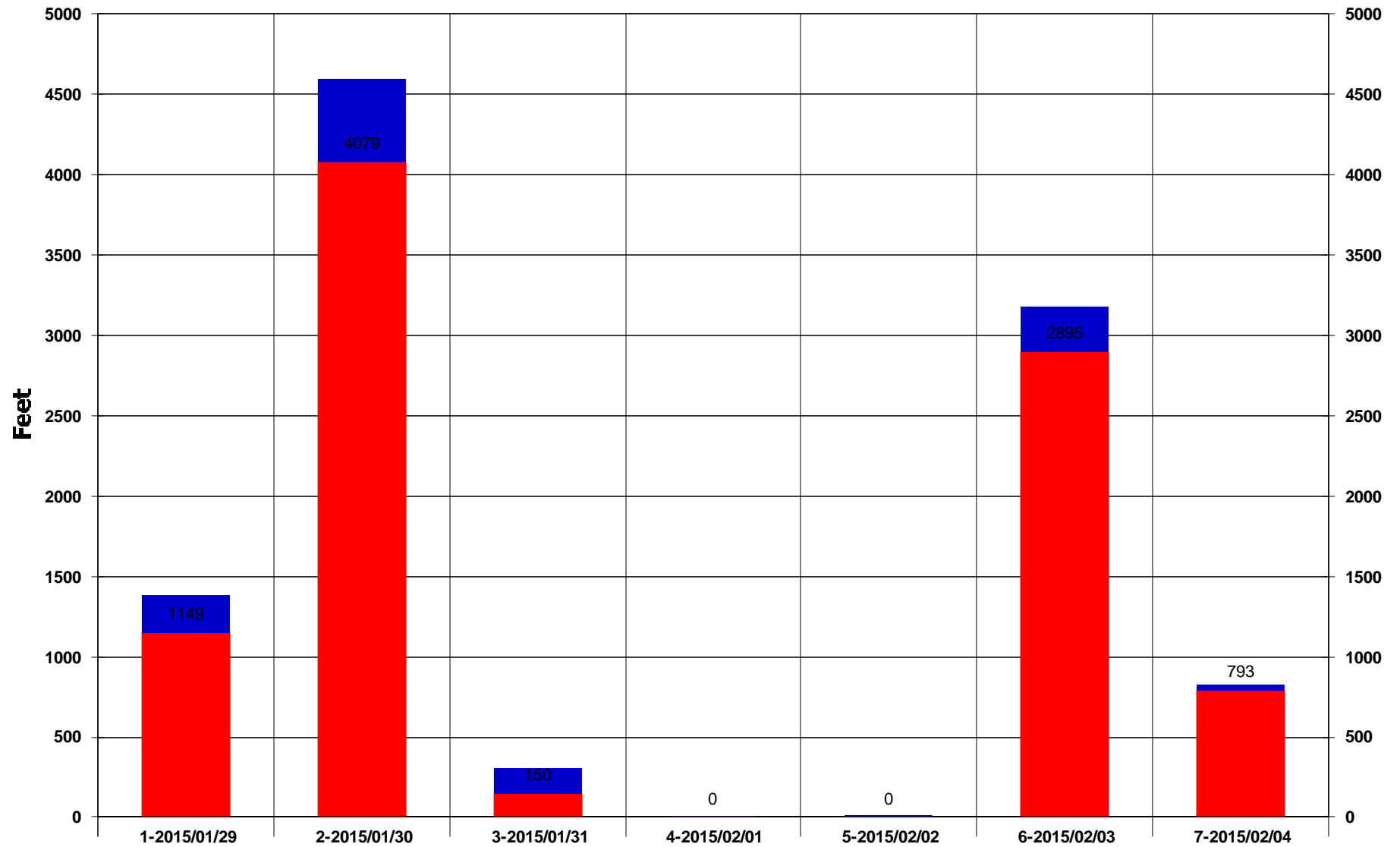
Activity Histogram



Measured Depth vs Days

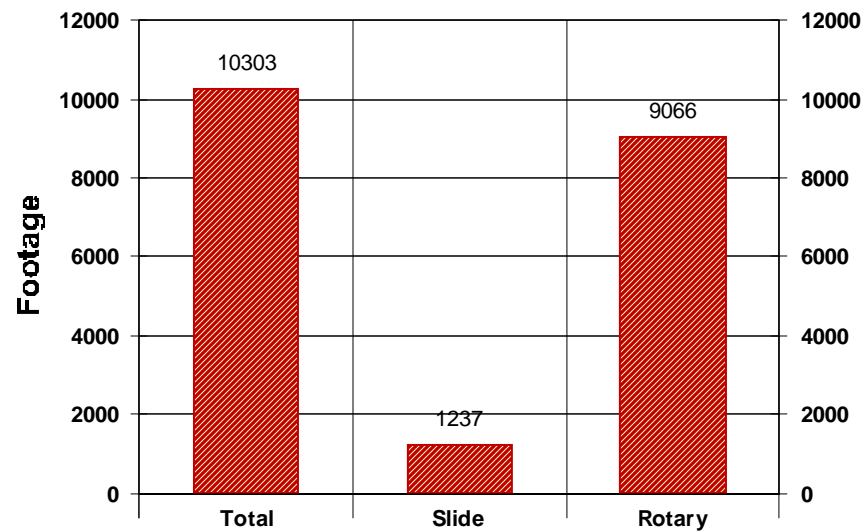


Daily Footage

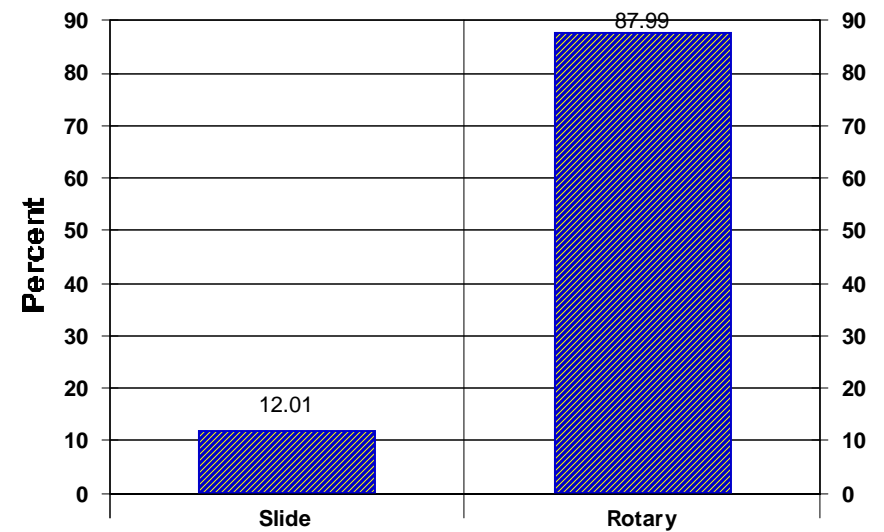


Rotary Drilling Sliding

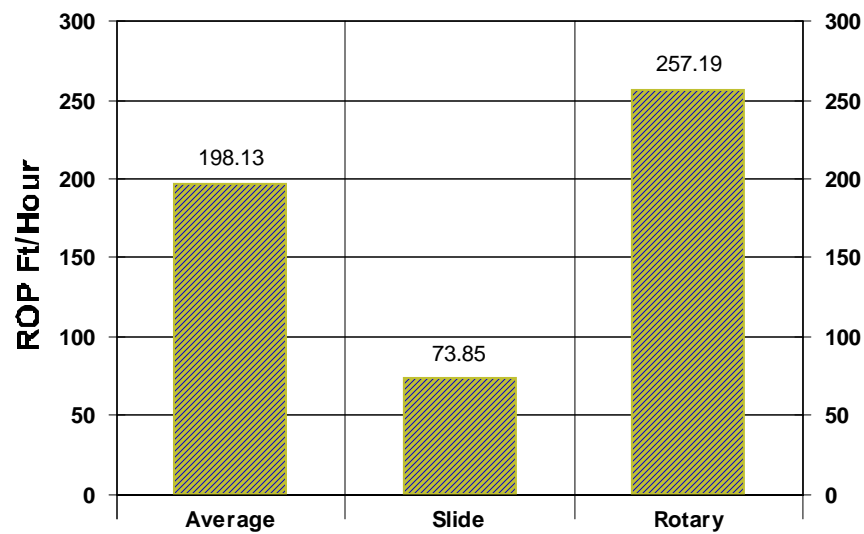
Footage Drilled Totals



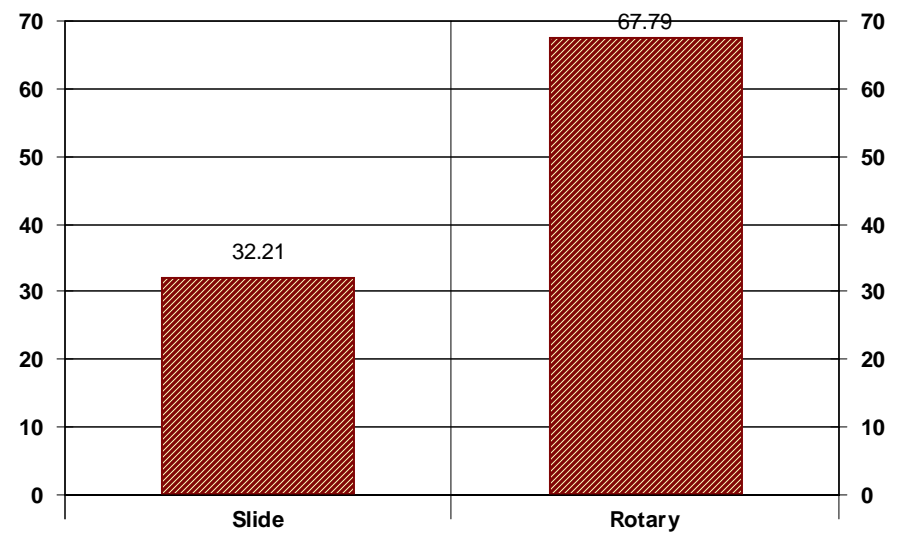
Footage Percent



Rate of Penetration Totals



Time Percent





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