



# **Ursa Operating Company, LLC**

**Rockies Region**

**Speakman A**

**BAT 34C-24-07-96**

**Wellbore #1**

**Design: Actual**

## **End of Well Report**

**24 February, 2015**



<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well BAT 34C-24-07-96
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	BAT 34C-24-07-96 @ 5199.5usft (Capstar 321)
<b>Site:</b>	Speakman A	<b>MD Reference:</b>	BAT 34C-24-07-96 @ 5199.5usft (Capstar 321)
<b>Well:</b>	BAT 34C-24-07-96	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Project		Rockies Region	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site		Speakman A			
Site Position:		Northing:		1,588,429.06 usft	
From:	Lat/Long	Easting:		2,276,734.73 usft	
Position Uncertainty:		Slot Radius:		13-3/16 "	
				Latitude: 39° 25' 15.663 N	
				Longitude: 108° 3' 38.016 W	
				Grid Convergence: -1.61 °	

Well		BAT 34C-24-07-96, SHL LAT: 39.420644287 LONG: -108.060116414				
Well Position	+N/-S	0.0 usft	Northing:	1,588,289.60 usft	Latitude:	39° 25' 14.319 N
	+E/-W	0.0 usft	Easting:	2,276,856.18 usft	Longitude:	108° 3' 36.419 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	5,199.5 usft	Ground Level:	5,182.5 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/15/2013	10.08	65.63	52,046

Design		Actual			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.0	0.0	0.0	133.88

Survey Program		Date	2/24/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
153.0	6,088.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

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<b>Site:</b>	Speakman A	<b>MD Reference:</b>	BAT 34C-24-07-96 @ 5199.5usft (Capstar 321)
<b>Well:</b>	BAT 34C-24-07-96	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
153.0	0.85	327.55	153.0	-1.1	1.0	-0.6	0.56	0.56	0.00	
183.0	0.40	350.57	183.0	-1.4	1.2	-0.7	1.69	-1.50	76.73	
211.0	0.35	81.67	211.0	-1.4	1.4	-0.7	1.92	-0.18	325.36	
243.0	0.73	123.34	243.0	-1.2	1.3	-0.4	1.63	1.19	130.22	
273.0	1.71	122.67	273.0	-0.5	0.9	0.1	3.27	3.27	-2.23	
303.0	2.29	131.54	303.0	0.5	0.3	1.0	2.19	1.93	29.57	
333.0	2.99	142.36	332.9	1.9	-0.7	1.9	2.85	2.33	36.07	
363.0	4.17	138.49	362.9	3.7	-2.2	3.1	4.01	3.93	-12.90	
393.0	5.01	141.04	392.8	6.1	-4.0	4.6	2.88	2.80	8.50	
423.0	5.80	144.42	422.6	8.9	-6.3	6.3	2.84	2.63	11.27	
453.0	6.90	140.53	452.5	12.2	-8.9	8.4	3.94	3.67	-12.97	
483.0	7.51	138.22	482.2	15.9	-11.7	10.8	2.25	2.03	-7.70	
513.0	8.78	138.71	511.9	20.2	-14.9	13.6	4.24	4.23	1.63	
543.0	9.58	142.36	541.5	24.9	-18.6	16.7	3.30	2.67	12.17	
573.0	10.81	143.45	571.1	30.2	-22.9	19.9	4.15	4.10	3.63	
603.0	12.00	141.96	600.5	36.0	-27.6	23.5	4.09	3.97	-4.97	
633.0	13.05	142.93	629.8	42.5	-32.7	27.4	3.57	3.50	3.23	
663.0	14.02	143.19	658.9	49.4	-38.3	31.6	3.24	3.23	0.87	
693.0	14.72	143.67	688.0	56.7	-44.3	36.1	2.37	2.33	1.60	
723.0	15.73	143.06	716.9	64.5	-50.6	40.8	3.41	3.37	-2.03	
753.0	17.05	140.25	745.7	72.9	-57.3	46.0	5.13	4.40	-9.37	
783.0	18.76	136.99	774.3	82.1	-64.2	52.1	6.60	5.70	-10.87	
813.0	20.57	137.39	802.5	92.2	-71.6	59.0	6.05	6.03	1.33	
843.0	21.97	136.47	830.5	103.0	-79.5	66.4	4.80	4.67	-3.07	
873.0	23.16	136.77	858.2	114.5	-87.9	74.3	3.99	3.97	1.00	
903.0	24.20	136.86	885.6	126.6	-96.7	82.6	3.47	3.47	0.30	

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<b>Site:</b>	Speakman A	<b>MD Reference:</b>	BAT 34C-24-07-96 @ 5199.5usft (Capstar 321)
<b>Well:</b>	BAT 34C-24-07-96	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
933.0	25.00	137.26	912.9	139.0	-105.8	91.1	2.72	2.67	1.33	
963.0	25.93	136.73	940.0	151.9	-115.3	99.9	3.19	3.10	-1.77	
993.0	27.03	137.35	966.9	165.3	-125.1	109.0	3.78	3.67	2.07	
1,023.0	28.26	139.41	993.4	179.1	-135.5	118.2	5.19	4.10	6.87	
1,053.0	29.27	140.42	1,019.7	193.5	-146.5	127.5	3.74	3.37	3.37	
1,083.0	30.45	140.60	1,045.7	208.3	-158.0	137.0	3.94	3.93	0.60	
1,113.0	31.68	139.37	1,071.4	223.7	-169.9	147.0	4.61	4.10	-4.10	
1,143.0	32.43	139.54	1,096.9	239.6	-182.0	157.3	2.52	2.50	0.57	
1,173.0	33.00	140.55	1,122.1	255.7	-194.4	167.8	2.63	1.90	3.37	
1,203.0	33.79	140.42	1,147.2	272.1	-207.2	178.3	2.64	2.63	-0.43	
1,233.0	34.94	139.24	1,171.9	288.9	-220.1	189.2	4.43	3.83	-3.93	
1,263.0	35.33	138.22	1,196.5	306.1	-233.1	200.6	2.35	1.30	-3.40	
1,293.0	35.11	138.31	1,221.0	323.4	-246.0	212.1	0.75	-0.73	0.30	
1,323.0	35.02	138.44	1,245.5	340.6	-258.9	223.5	0.39	-0.30	0.43	
1,353.0	35.24	138.36	1,270.0	357.8	-271.8	235.0	0.75	0.73	-0.27	
1,383.0	35.90	136.86	1,294.5	375.2	-284.7	246.8	3.65	2.20	-5.00	
1,413.0	35.38	138.14	1,318.8	392.6	-297.6	258.6	3.03	-1.73	4.27	
1,443.0	34.94	137.30	1,343.4	409.9	-310.3	270.2	2.18	-1.47	-2.80	
1,473.0	34.94	137.08	1,368.0	427.0	-322.9	281.9	0.42	0.00	-0.73	
1,503.0	34.60	137.00	1,392.6	444.1	-335.5	293.5	1.14	-1.13	-0.27	
1,533.0	34.63	138.31	1,417.3	461.1	-348.1	305.0	2.48	0.10	4.37	
1,563.0	34.50	138.44	1,442.0	478.1	-360.8	316.3	0.50	-0.43	0.43	
1,593.0	34.45	138.05	1,466.7	495.0	-373.4	327.6	0.75	-0.17	-1.30	
1,623.0	34.45	138.62	1,491.5	511.9	-386.1	338.9	1.07	0.00	1.90	
1,653.0	35.16	138.36	1,516.1	529.0	-398.9	350.3	2.42	2.37	-0.87	
1,683.0	35.73	138.00	1,540.5	546.3	-411.9	361.9	2.02	1.90	-1.20	
1,713.0	35.99	139.19	1,564.8	563.9	-425.1	373.5	2.48	0.87	3.97	

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<b>Site:</b>	Speakman A	<b>MD Reference:</b>	BAT 34C-24-07-96 @ 5199.5usft (Capstar 321)
<b>Well:</b>	BAT 34C-24-07-96	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
1,743.0	35.95	139.15	1,589.1	581.4	-438.4	385.0	0.15	-0.13	-0.13	
1,773.0	36.04	139.81	1,613.4	598.9	-451.8	396.5	1.33	0.30	2.20	
1,803.0	36.17	139.19	1,637.6	616.5	-465.3	407.9	1.29	0.43	-2.07	
1,833.0	36.08	138.53	1,661.9	634.2	-478.6	419.6	1.33	-0.30	-2.20	
1,863.0	35.86	138.75	1,686.1	651.7	-491.8	431.2	0.85	-0.73	0.73	
1,878.0	35.60	138.97	1,698.3	660.4	-498.4	437.0	1.93	-1.73	1.47	
2,017.0	34.45	139.94	1,812.2	739.8	-559.0	488.8	0.92	-0.83	0.70	
2,103.0	34.10	137.57	1,883.2	788.1	-595.4	520.8	1.60	-0.41	-2.76	
2,231.0	34.23	133.70	1,989.1	859.9	-646.8	571.0	1.70	0.10	-3.02	
2,316.0	33.84	128.73	2,059.6	907.4	-678.1	606.8	3.30	-0.46	-5.85	
2,402.0	33.40	128.78	2,131.2	954.8	-707.9	643.9	0.51	-0.51	0.06	
2,487.0	32.85	126.13	2,202.4	1,001.0	-736.2	680.8	1.82	-0.65	-3.12	
2,572.0	34.01	126.45	2,273.3	1,047.4	-763.9	718.5	1.38	1.36	0.38	
2,658.0	33.71	126.05	2,344.8	1,094.9	-792.2	757.1	0.43	-0.35	-0.47	
2,743.0	34.15	126.10	2,415.3	1,141.9	-820.2	795.5	0.52	0.52	0.06	
2,829.0	33.57	125.88	2,486.7	1,189.3	-848.3	834.3	0.69	-0.67	-0.26	
2,914.0	33.31	127.55	2,557.6	1,235.8	-876.3	871.8	1.13	-0.31	1.96	
2,999.0	32.92	124.95	2,628.8	1,281.8	-903.8	909.2	1.73	-0.46	-3.06	
3,085.0	32.85	126.17	2,701.0	1,328.0	-930.9	947.2	0.77	-0.08	1.42	
3,170.0	31.82	126.75	2,772.9	1,373.1	-958.0	983.8	1.27	-1.21	0.68	
3,256.0	28.16	127.51	2,847.3	1,415.8	-983.9	1,018.1	4.28	-4.26	0.88	
3,341.0	24.73	126.81	2,923.4	1,453.4	-1,006.8	1,048.2	4.05	-4.04	-0.82	
3,426.0	21.58	125.48	3,001.6	1,486.5	-1,026.5	1,075.2	3.76	-3.71	-1.56	
3,512.0	18.20	126.01	3,082.4	1,515.5	-1,043.6	1,098.9	3.94	-3.93	0.62	
3,597.0	16.13	128.38	3,163.6	1,540.4	-1,058.7	1,118.9	2.57	-2.44	2.79	
3,682.0	13.18	131.90	3,245.9	1,561.8	-1,072.5	1,135.4	3.62	-3.47	4.14	
3,768.0	11.07	133.83	3,329.9	1,579.9	-1,084.8	1,148.7	2.50	-2.45	2.24	

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<b>Site:</b>	Speakman A	<b>MD Reference:</b>	BAT 34C-24-07-96 @ 5199.5usft (Capstar 321)
<b>Well:</b>	BAT 34C-24-07-96	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
3,853.0	10.11	133.74	3,413.5	1,595.5	-1,095.6	1,159.9	1.13	-1.13	-0.11	
3,939.0	10.02	131.24	3,498.2	1,610.5	-1,105.7	1,171.0	0.52	-0.10	-2.91	
4,024.0	8.88	132.47	3,582.0	1,624.5	-1,115.0	1,181.4	1.36	-1.34	1.45	
4,109.0	6.33	139.67	3,666.3	1,635.7	-1,123.1	1,189.3	3.20	-3.00	8.47	
4,195.0	2.94	140.99	3,752.0	1,642.6	-1,128.4	1,193.8	3.94	-3.94	1.53	
4,280.0	1.32	138.67	3,836.9	1,645.7	-1,130.8	1,195.8	1.91	-1.91	-2.73	
4,365.0	0.62	72.53	3,921.9	1,646.9	-1,131.4	1,196.9	1.42	-0.82	-77.81	
4,451.0	0.26	109.97	4,007.9	1,647.3	-1,131.3	1,197.5	0.51	-0.42	43.53	
4,536.0	0.31	151.28	4,092.9	1,647.7	-1,131.6	1,197.8	0.24	0.06	48.60	
4,622.0	0.48	141.17	4,178.9	1,648.3	-1,132.1	1,198.1	0.21	0.20	-11.76	
4,707.0	0.48	181.20	4,263.9	1,648.9	-1,132.7	1,198.3	0.39	0.00	47.09	
4,792.0	0.88	176.20	4,348.9	1,649.6	-1,133.7	1,198.4	0.48	0.47	-5.88	
4,877.0	0.97	196.10	4,433.9	1,650.4	-1,135.1	1,198.2	0.39	0.11	23.41	
4,967.0	0.92	302.62	4,523.9	1,650.1	-1,135.4	1,197.4	1.68	-0.06	118.36	
5,048.0	1.10	280.48	4,604.9	1,648.8	-1,134.9	1,196.1	0.53	0.22	-27.33	
5,134.0	1.32	268.57	4,690.8	1,647.4	-1,134.8	1,194.3	0.39	0.26	-13.85	
5,219.0	1.63	260.74	4,775.8	1,646.0	-1,135.0	1,192.1	0.43	0.36	-9.21	
5,305.0	1.89	306.84	4,861.8	1,643.9	-1,134.4	1,189.8	1.63	0.30	53.60	
5,390.0	0.64	2.74	4,946.7	1,642.1	-1,133.0	1,188.7	1.91	-1.47	65.76	
5,475.0	0.26	324.82	5,031.7	1,641.6	-1,132.4	1,188.6	0.55	-0.45	-44.61	
5,561.0	0.26	262.72	5,117.7	1,641.3	-1,132.3	1,188.3	0.31	0.00	-72.21	
5,646.0	0.48	265.92	5,202.7	1,641.0	-1,132.3	1,187.7	0.26	0.26	3.76	
5,732.0	0.70	262.99	5,288.7	1,640.4	-1,132.4	1,186.8	0.26	0.26	-3.41	
5,817.0	1.23	248.00	5,373.7	1,639.7	-1,132.8	1,185.5	0.69	0.62	-17.64	
5,902.0	0.79	235.39	5,458.7	1,639.2	-1,133.5	1,184.1	0.58	-0.52	-14.84	
5,988.0	1.23	233.15	5,544.7	1,638.9	-1,134.4	1,182.9	0.51	0.51	-2.60	
6,031.0	1.32	234.82	5,587.7	1,638.8	-1,134.9	1,182.1	0.23	0.21	3.88	

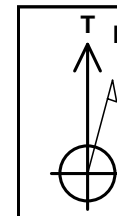
<b>Company:</b>	Ursa Operating Company, LLC	<b>Local Co-ordinate Reference:</b>	Well BAT 34C-24-07-96
<b>Project:</b>	Rockies Region	<b>TVD Reference:</b>	BAT 34C-24-07-96 @ 5199.5usft (Capstar 321)
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<b>Well:</b>	BAT 34C-24-07-96	<b>North Reference:</b>	True
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<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
6,088.0	1.32	234.82	5,644.7	1,638.5	-1,135.7	1,181.1	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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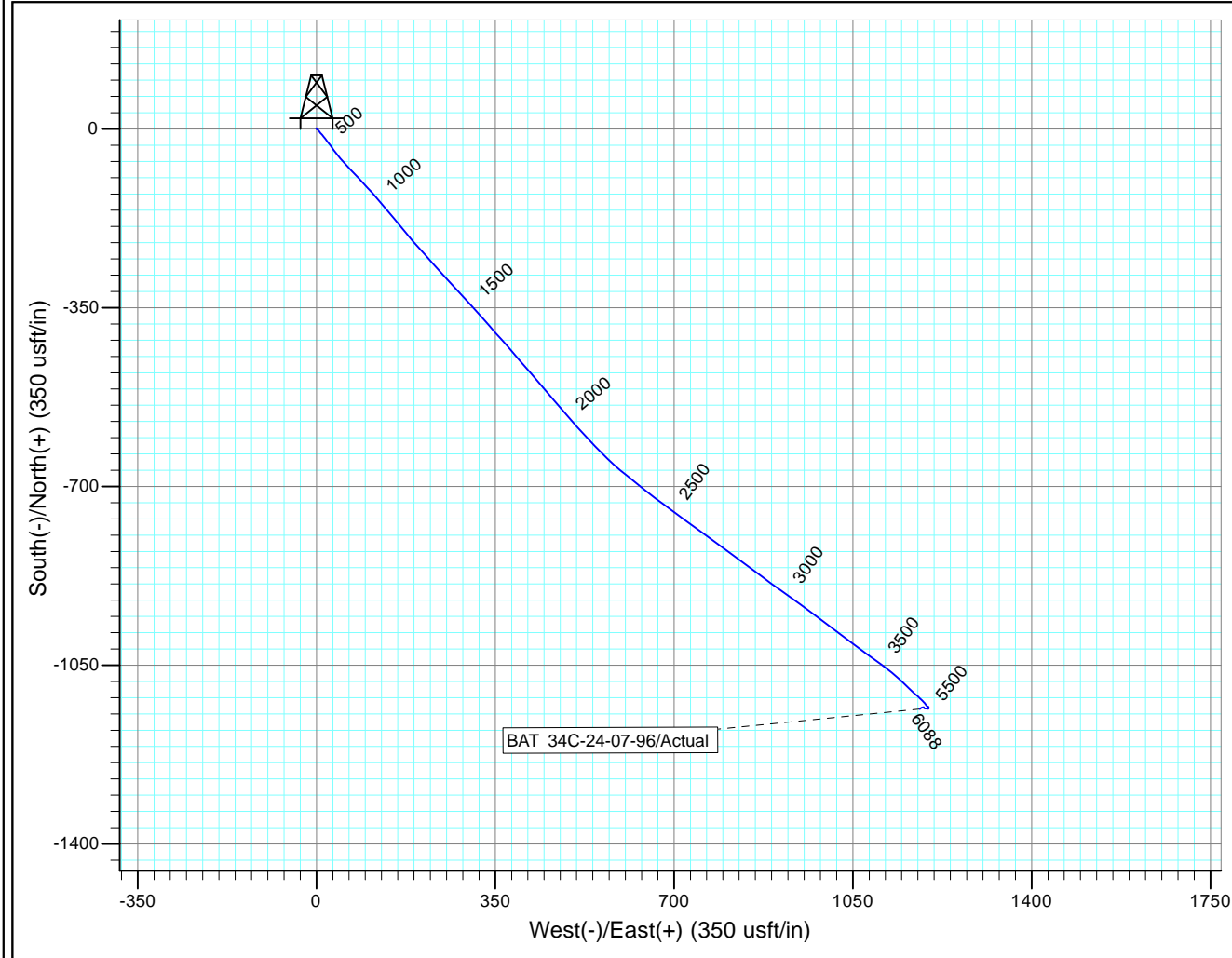
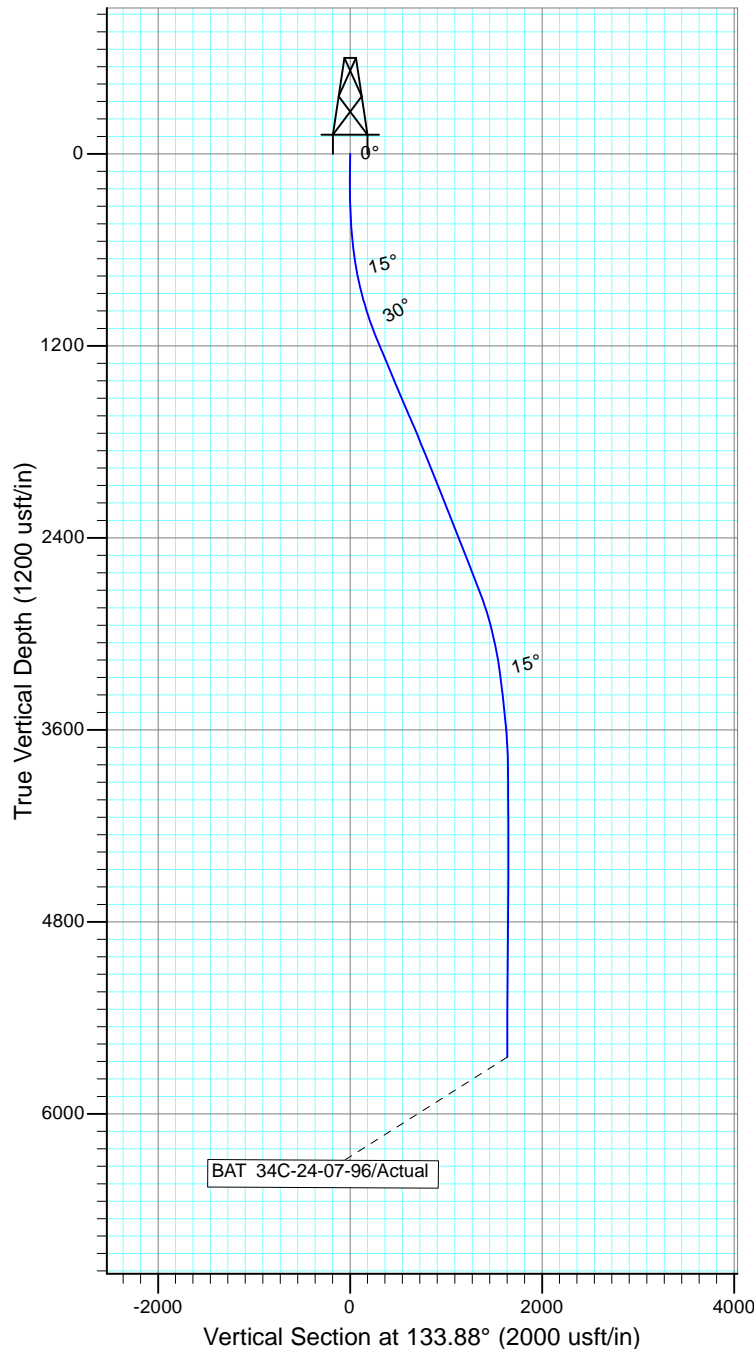


Project: Rockies Region  
 Site: Speakman A  
 Well: BAT 34C-24-07-96  
 Wellbore: Wellbore #1  
 Design: Actual



Azimuths to True North  
 Magnetic North: 10.08°

Magnetic Field  
 Strength: 52046.1nT  
 Dip Angle: 65.63°  
 Date: 6/15/2013  
 Model: IGRF200510



Design: Actual (BAT 34C-24-07-96/Wellbore #1)

Created By: Matthew Linton

Date: 7:00, February 24 2013

THIS SURVEY IS CORRECT TO THE BEST OF  
 MY KNOWLEDGE AND IS SUPPORTED  
 BY ACTUAL FIELD DATA





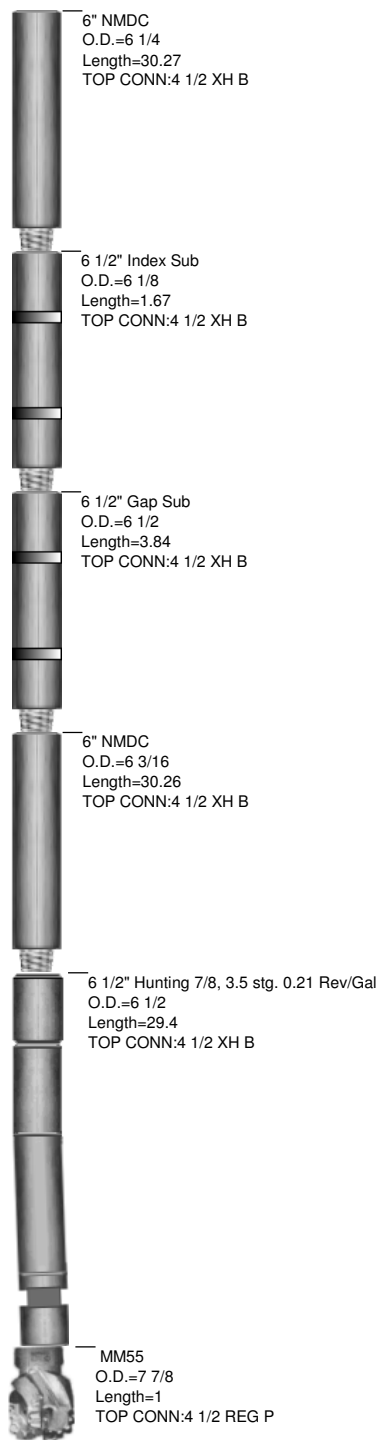
## Well Information

**BHA #**

**1**

<b>JOB NO.:</b>	CO15509	<b>FIELD:</b>	Battlement Mesa
<b>Company:</b>	URSA Operating Co.	<b>Township:</b>	7S
<b>LOCATION:</b>	Speakman A Pad	<b>SECT/RANGE:</b>	24
<b>RIG NAME:</b>	Capstar 321		96W
<b>STATE:</b>	Colorado		
<b>COUNTY:</b>	Garfield	<b>BHA TYPE</b>	Steerable Assembly
<b>WELL NAME:</b>	BAT 34C-24-07-96		

**Maintain 33.67 INC. @ 129.76 AZI. to MD of 3155.3' start drop @ 3.5 DLS per 100' stay vertical in Target to @ 6310'MD TD.**





**JOB NO.:** CO15509  
**Company:** URSA Operating Co.  
**LOCATION:** Speakman A Pad  
**RIG NAME:** Capstar 321  
**STATE:** Colorado  
**COUNTY:** Country  
**WELL NAME:** BAT 34C-24-07-96

**FIELD:** Battlement Mesa  
**Township:** 7S  
**Range** 96W

#### MOTOR INFORMATION

**Desc:** 7/8mil. 3.5stg 6 1/2 PDM  
**Bent Hsg/Sub:** 1.5 / 0    **Bit to Bend:** 6.2  
**Pad OD:** 1/4    **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	19-Feb	Drilling	05:25	05:50	0.42	1924	1989	65	15	156.0	40	4000	360	752		34.61	137.85	4.28	
1	19-Feb	Drilling	06:00	06:10	0.17	1989	2032	43	15	258.0	40	6500	460	1200		34.39	139.53	1.60	
1	19-Feb	Drilling	06:20	06:40	0.33	2032	2074	42	15	126.0	40	6500	460	1200		34.21	138.37	1.60	
1	19-Feb	Sliding	06:45	06:50	0.08	2074	2084	10	15	120.0	40	6500	460	1200	110L	34.17	138.10	1.60	
1	19-Feb	Drilling	06:50	07:00	0.17	2084	2117	33	15	198.0	50	6500	460	1200		34.11	137.15	1.70	
1	19-Feb	Drilling	07:05	07:15	0.17	2117	2160	43	20	258.0	50	6500	460	1200		34.14	135.84	1.70	
1	19-Feb	Sliding	07:25	07:30	0.08	2160	2170	10	15	120.0	50	6500	460	1200	110L	34.15	135.54	1.70	
1	19-Feb	Drilling	07:30	07:40	0.17	2170	2202	32	20	192.0	50	6500	460	1200		34.19	134.57	1.70	
1	19-Feb	Sliding	07:50	07:55	0.08	2202	2215	13	15	156.0	50	6500	460	1200	110L	34.21	134.18	1.70	
1	19-Feb	Drilling	07:55	08:05	0.17	2215	2245	30	20	180.0	50	6500	460	1300		34.15	132.89	3.30	
1	19-Feb	Sliding	08:10	08:20	0.17	2245	2260	15	15	90.0	50	6500	460	1300	100L	34.07	132.02	3.30	
1	19-Feb	Drilling	08:20	08:25	0.08	2260	2288	28	20	336.0	50	6500	460	1300		33.95	130.38	3.30	
1	19-Feb	Sliding	08:45	08:50	0.08	2288	2303	15	15	180.0	50	6500	460	1375	100L	33.89	129.50	3.30	
1	19-Feb	Drilling	08:50	09:00	0.17	2303	2330	27	20	162.0	50	6500	460	1375		33.77	128.74	0.51	
1	19-Feb	Drilling	09:05	09:15	0.17	2330	2373	43	20	258.0	50	6500	460	1375		33.55	128.76	0.51	
1	19-Feb	Drilling	09:30	10:05	0.58	2373	2459	86	20	147.4	50	6500	460	1375		33.02	127.01	1.82	
1	19-Feb	Sliding	10:10	10:20	0.17	2459	2474	15	15	90.0	50	6500	460	1450	90L	32.93	126.54	1.82	
1	19-Feb	Drilling	10:20	10:45	0.42	2474	2544	70	20	168.0	50	6500	460	1450		33.63	126.35	1.38	
1	19-Feb	Sliding	10:55	11:00	0.08	2544	2559	15	15	180.0	50	6500	460	1450	360	33.83	126.40	1.38	
1	19-Feb	Drilling	11:00	11:10	0.17	2559	2582	23	20	138.0	50	6500	460	1450		33.98	126.40	0.43	
1	19-Feb	Drilling	11:20	11:35	0.25	2582	2629	47	20	188.0	50	6500	460	1450		33.81	126.19	0.43	
1	19-Feb	Drilling	11:40	11:50	0.17	2629	2672	43	20	258.0	50	8000	460	1500		33.78	126.06	0.52	
1	19-Feb	Sliding	12:00	12:05	0.08	2672	2682	10	15	120.0	50	8000	460	1500	360	33.83	126.06	0.52	
1	19-Feb	Drilling	12:05	12:15	0.17	2682	2715	33	20	198.0	50	8000	460	1500		34.01	126.08	0.52	
1	19-Feb	Drilling	13:00	13:10	0.17	2715	2757	42	20	252.0	50	8300	460	1500		34.06	126.06	0.69	
1	19-Feb	Drilling	13:15	13:30	0.25	2757	2800	43	20	172.0	50	8300	460	1500		33.77	125.95	0.69	

# 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	19-Feb	Drilling	13:35	14:00	0.42	2800	2886	86	20	206.4	50	8300	460	1500		33.39	127.00	1.13	
1	19-Feb	Sliding	14:15	14:25	0.17	2886	2898	12	15	72.0	50	8300	460	1500	45R	33.36	127.23	1.13	
1	19-Feb	Drilling	14:25	14:50	0.42	2898	2971	73	20	175.2	50	8300	460	1500		33.04	125.81	1.73	
1	19-Feb	Sliding	14:55	15:05	0.17	2971	2986	15	15	90.0	50	8300	460	1500	20L	32.98	125.35	1.73	
1	19-Feb	Drilling	15:05	15:30	0.42	2986	3056	70	20	168.0	50	8300	460	1500		32.87	125.76	0.77	
1	19-Feb	Sliding	15:40	15:45	0.08	3056	3066	10	15	120.0	50	8300	460	1575	30R	32.86	125.90	0.77	
1	19-Feb	Drilling	15:45	16:15	0.50	3066	3142	76	20	152.0	50	8300	460	1575		32.16	126.56	1.27	
1	19-Feb	Sliding	16:45	16:50	0.08	3142	3152	10	15	120.0	50	8300	460	1575	170R	32.04	126.62	1.27	
1	19-Feb	Drilling	16:50	16:55	0.08	3152	3173	21	20	252.0	50	8300	460	1575		31.69	126.77	4.28	
1	19-Feb	Drilling	17:05	17:10	0.08	3173	3185	12	20	144.0	50	8300	460	1575		31.18	126.87	4.28	
1	19-Feb	Sliding	17:15	17:20	0.08	3185	3195	10	15	120.0	50	9200	460	1575	180	30.76	126.95	4.28	
1	19-Feb	Drilling	17:20	17:35	0.25	3195	3227	32	20	128.0	50	9200	460	1575		29.39	127.23	4.28	
1	19-Feb	Sliding	17:40	17:45	0.08	3227	3239	12	15	144.0	50	9200	460	1575	180	28.88	127.35	4.28	
1	19-Feb	Drilling	17:45	18:00	0.25	3239	3270	31	20	124.0	50	9200	460	1575		27.59	127.41	4.05	
1	19-Feb	Sliding	18:05	18:10	0.08	3270	3278	8	15	96.0	50	9200	460	1575	170L	27.27	127.34	4.05	
1	19-Feb	Drilling	18:10	18:25	0.25	3278	3313	35	25	140.0	50	9200	460	1575		25.86	127.06	4.05	
1	19-Feb	Sliding	18:30	18:35	0.08	3313	3321	8	25	96.0	50	9200	460	1575	180	25.54	126.99	4.05	
1	19-Feb	Drilling	18:35	18:50	0.25	3321	3355	34	25	136.0	50	9200	460	1575		24.21	126.61	3.76	
1	19-Feb	Sliding	18:55	19:00	0.08	3355	3361	6	25	72.0	50	9200	460	1575	180	23.99	126.53	3.76	
1	19-Feb	Drilling	19:00	19:20	0.33	3361	3398	37	25	111.0	50	9200	460	1575		22.62	125.96	3.76	
1	19-Feb	Sliding	19:25	19:30	0.08	3398	3410	12	25	144.0	50	9200	460	1575	180	22.17	125.76	3.76	
1	19-Feb	Drilling	19:30	20:05	0.58	3410	3483	73	25	125.1	50	9200	460	1575		19.34	125.81	3.94	
1	19-Feb	Sliding	20:10	20:15	0.08	3483	3493	10	25	120.0	50	9200	460	1575	160R	18.95	125.88	3.94	
1	19-Feb	Drilling	20:15	20:50	0.58	3493	3569	76	25	130.3	50	9200	460	1575		16.81	127.54	2.57	
1	19-Feb	Sliding	20:55	21:00	0.08	3569	3576	7	25	84.0	50	9200	460	1575	150R	16.64	127.74	2.57	
1	19-Feb	Drilling	21:00	21:55	0.92	3576	3654	78	25	85.1	50	9200	460	1575		14.15	130.58	3.62	
1	19-Feb	Sliding	22:00	22:05	0.08	3654	3661	7	25	84.0	50	9200	460	1575	150R	13.90	130.89	3.62	
1	19-Feb	Drilling	22:05	22:40	0.58	3661	3739	78	25	133.7	50	9200	460	1575		11.78	133.10	2.50	
1	19-Feb	Sliding	22:45	22:50	0.08	3739	3744	5	25	60.0	50	9200	460	1575	170L	11.66	133.22	2.50	
1	19-Feb	Drilling	22:50	23:25	0.58	3744	3825	81	25	138.9	50	9200	460	1575		10.43	133.77	1.13	
1	19-Feb	Sliding	23:30	23:35	0.08	3825	3830	5	25	60.0	50	9200	460	1575	60L	10.37	133.77	1.13	
1	19-Feb	Drilling	23:35	24:00	0.42	3830	3878	48	25	115.2	50	9200	460	1575		10.08	133.02	0.52	
1	20-Feb	Drilling	00:00	00:20	0.33	3878	3910	32	25	96.0	50	10000	460	1804		10.05	132.09	0.52	
1	20-Feb	Sliding	00:25	00:30	0.08	3910	3915	5	25	60.0	50	10000	460	1804	30L	10.04	131.94	0.52	
1	20-Feb	Drilling	00:30	01:05	0.58	3915	3996	81	25	138.9	50	10000	460	1804		9.26	132.03	1.36	

# 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	20-Feb	Sliding	01:10	01:15	0.08	3996	4004	8	25	96.0	50	10000	460	1804	180	9.15	132.15	1.36	
1	20-Feb	Drilling	01:15	01:30	0.25	4004	4038	34	25	136.0	50	10000	460	1804		8.45	133.36	3.20	
1	20-Feb	Sliding	01:35	01:40	0.08	4038	4043	5	25	60.0	50	10000	460	1804	180	8.30	133.70	3.20	
1	20-Feb	Drilling	01:40	01:50	0.17	4043	4081	38	25	228.0	50	10000	460	1804		7.16	136.74	3.20	
1	20-Feb	Sliding	01:55	02:05	0.17	4081	4096	15	25	90.0	50	10000	460	1804	180	6.71	138.22	3.20	
1	20-Feb	Drilling	02:05	02:15	0.17	4096	4124	28	25	168.0	50	10000	460	1804		5.74	139.79	3.94	
1	20-Feb	Sliding	02:20	02:25	0.08	4124	4134	10	25	120.0	50	10000	460	1804	170L	5.34	139.88	3.94	
1	20-Feb	Drilling	02:25	02:40	0.25	4134	4166	32	25	128.0	50	10000	460	1804		4.08	140.30	3.94	
1	20-Feb	Sliding	02:45	02:50	0.08	4166	4181	15	25	180.0	50	10000	460	1804	170L	3.49	140.60	3.94	
1	20-Feb	Drilling	02:50	03:05	0.25	4181	4209	28	25	112.0	50	10000	460	1804		2.67	140.80	1.91	
1	20-Feb	Sliding	03:10	03:20	0.17	4209	4221	12	25	72.0	50	10000	460	1804	170L	2.44	140.61	1.91	
1	20-Feb	Drilling	03:20	03:30	0.17	4221	4252	31	25	186.0	50	10000	460	1804		1.85	139.88	1.91	
1	20-Feb	Drilling	03:35	03:55	0.33	4252	4294	42	25	126.0	50	10000	460	1804		1.15	134.00	1.42	
1	20-Feb	Drilling	04:00	04:20	0.33	4294	4337	43	25	129.0	50	10000	460	1804		0.71	106.44	1.42	
1	20-Feb	Sliding	04:25	04:35	0.17	4337	4349	12	25	72.0	50	10000	460	1804	15M	0.65	93.15	1.42	
1	20-Feb	Drilling	04:35	05:15	0.67	4349	4422	73	25	109.5	50	10000	460	1804		0.36	89.38	0.51	
1	20-Feb	Drilling	05:20	05:40	0.33	4422	4465	43	25	129.0	50	10000	460	1804		0.26	117.48	0.24	
1	20-Feb	Drilling	05:45	06:05	0.33	4465	4508	43	25	129.0	50	10000	460	1804		0.28	139.55	0.24	
1	20-Feb	Drilling	06:10	06:50	0.67	4508	4593	85	25	127.5	50	10000	460	1804		0.42	143.67	0.21	
1	20-Feb	Drilling	07:05	07:40	0.58	4593	4679	86	25	147.4	50	10000	460	1804		0.45	168.27	0.39	
1	20-Feb	Drilling	07:45	08:05	0.33	4679	4721	42	25	126.0	50	10000	460	1804		0.55	179.87	0.48	
1	20-Feb	Drilling	08:10	08:20	0.17	4721	4764	43	25	258.0	50	10000	460	1804		0.75	177.26	0.48	
1	20-Feb	Drilling	08:25	09:20	0.92	4764	4849	85	25	92.7	50	10000	460	1804		0.93	190.00	0.39	
1	20-Feb	Drilling	09:25	09:50	0.42	4849	4892	43	25	103.2	50	10000	460	1804		0.78	206.98	1.68	
1	20-Feb	Sliding	09:50	10:10	0.33	4892	4907	15	25	45.0	50	10000	460	1804	15M	0.63	223.82	1.68	
1	20-Feb	Drilling	10:10	10:30	0.33	4907	4934	27	25	81.0	50	10000	460	1804		0.59	267.32	1.68	
1	20-Feb	Drilling	10:40	11:50	1.17	4934	5020	86	25	73.7	50	10000	460	1804		1.02	287.22	0.53	
1	20-Feb	Drilling	12:00	12:15	0.25	5020	5063	43	25	172.0	50	10000	460	1804		1.13	278.08	0.39	
1	20-Feb	Drilling	13:15	13:40	0.42	5063	5105	42	25	100.8	50	10000	460	1804		1.24	272.11	0.39	
1	20-Feb	Drilling	13:45	14:25	0.67	5105	5191	86	25	129.0	50	11000	460	2000		1.52	262.97	0.43	
1	20-Feb	Drilling	14:30	15:10	0.67	5191	5276	85	25	127.5	50	11000	460	2000		1.68	293.21	1.63	
1	20-Feb	Sliding	15:15	15:35	0.33	5276	5291	15	25	45.0	50	11000	460	2000	20M	1.78	300.66	1.63	
1	20-Feb	Drilling	15:35	15:45	0.17	5291	5319	28	25	168.0	50	11000	460	2000		1.64	309.89	1.91	
1	20-Feb	Sliding	15:50	15:55	0.08	5319	5322	3	25	36.0	50	11000	460	2000	20M	1.59	310.67	1.91	
1	20-Feb	Drilling	16:00	16:15	0.25	5322	5362	40	25	160.0	50	11000	460	2000		0.93	329.22	1.91	

# 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	20-Feb	Sliding	16:25	16:45	0.33	5362	5382	20	25	60.0	50	11000	460	2000	120M	0.70	350.51	1.91	
1	20-Feb	Drilling	16:45	17:00	0.25	5382	5404	22	25	88.0	50	11000	460	2000		0.57	0.09	0.55	
1	20-Feb	Drilling	17:10	17:20	0.17	5404	5447	43	25	258.0	50	11000	460	2000		0.36	345.64	0.55	
1	20-Feb	Drilling	17:25	18:10	0.75	5447	5532	85	25	113.3	50	11000	460	2000		0.23	282.68	0.31	
1	20-Feb	Drilling	18:15	19:00	0.75	5532	5618	86	25	114.7	50	11000	460	2000		0.41	265.25	0.26	
1	20-Feb	Drilling	19:05	19:45	0.67	5618	5689	71	25	106.5	50	11000	460	2000		0.59	264.18	0.26	
1	20-Feb	Drilling	22:15	22:30	0.25	5689	5703	14	25	56.0	50	11000	460	2000		0.63	263.75	0.26	
1	20-Feb	Drilling	22:35	23:40	1.08	5703	5789	86	25	79.4	50	11000	460	2000		1.05	251.26	0.69	
1	20-Feb	Drilling	23:45	24:00	0.25	5789	5816	27	25	108.0	50	11000	460	2000		1.22	248.10	0.69	
1	21-Feb	Drilling	00:00	00:45	0.75	5816	5874	58	25	77.3	50	11000	460	2000		0.93	240.85	0.58	
1	21-Feb	Sliding	00:50	01:05	0.25	5874	5894	20	25	80.0	50	11000	460	2000	60M	0.83	237.14	0.58	
1	21-Feb	Drilling	01:05	01:45	0.67	5894	5959	65	25	97.5	50	13900	460	2000		1.08	233.70	0.51	
1	21-Feb	Drilling	01:50	03:00	1.17	5959	6045	86	25	73.7	50	13900	460	2000		1.32	234.82	0.00	
1	21-Feb	Drilling	03:05	03:35	0.50	6045	6088	43	25	86.0	50	13900	460	2000		1.32	234.82	0.00	

**Total Drilled:** 4164 **Avg. Total ROP:** 120.99 **DEPTH% - TIME %**

**Total Rotary Drilled:** 3769 **Avg. Rotary ROP:** 125.98 **Percent Rotary:** 90.51 - 86.92

**Total Drilled Sliding:** 395 **Avg. Slide ROP:** 87.78 **Percent Slide:** 9.49 - 13.08



<b>JOB NO.:</b>	CO15509
<b>Company:</b>	URSA Operating Co.
<b>LOCATION:</b>	Speakman A Pad
<b>RIG NAME:</b>	Capstar 321
<b>STATE:</b>	Colorado
<b>COUNTY:</b>	USA
<b>WELL NAME:</b>	BAT 34C-24-07-96

<b>FIELD:</b>	Battlement Mesa	
<b>Township:</b>	7S	
<b>SECT\ RANGE:</b>	24	96W

## Tool Utilization Report

### Bits

#### 12631072 - MM55

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00

<< Summary for 12631072

<< Summary for Bits

### DC

#### ATM-64-616 - 6" NMDC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00

<< Summary for ATM-64-616

#### ATM-64-658 - 6" NMDC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00
2	59.00	9.00	77.50	77.67	117.50	8,328.00

<< Summary for ATM-64-658

<< Summary for DC

### Motors

#### 6314 - 6 1/2" Hunting 7/8, 3.5 stg. 0.21 Rev/Gal

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00

<< Summary for 6314

<< Summary for Motors

### MWD

## Tool Utilization Report

### PZD GS 606 - 6 1/2" Gap Sub

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00

<< Summary for PZD GS 606

### PZD IS 611 - 6 1/2" Index Sub

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	29.50	4.50	38.75	38.83	58.75	4,164.00
1	29.50	4.50	38.75	38.83	58.75	4,164.00
2	59.00	9.00	77.50	77.67	117.50	8,328.00

<< Summary for PZD IS 611

<< Summary for MWD



**JOB NO.:** CO15509  
**Company:** URSA Operating Co.  
**LOCATION:** Speakman A Pad  
**RIG NAME:** Capstar 321  
**STATE:** Colorado  
**COUNTY:** Garfield  
**WELL NAME:** BAT 34C-24-07-96

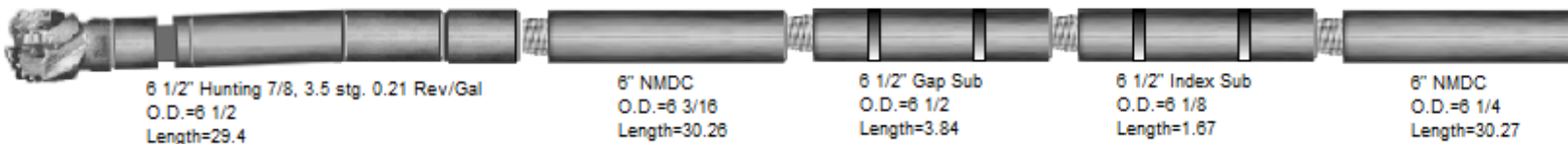
**FIELD:** Battlement Mesa  
**Township:** 7S  
**SECT\ RANGE:** 24 96W

COMMENT

## BHA Summary Report for JOB

#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide			IN	OUT	IN	OUT	SO	PU	RAB
1	18-Feb-15 @ 23:45	21-Feb-15 @ 10:30	58.75	1924.0	6088.0	3769.0	395.0	4164.0	122.47	127.8	87.8	40-50	360-460	.0	.0	.0	.0	50-65	50-100	50-78
				Hours>		29.50	4.50	34.00												

MM55  
 O.D.=7 7/8  
 Length=1







# Well Information

**BHA #** 1

**JOB NO.:** CO15509  
**Company:** URSA Operating Co.  
**LOCATION:** Speakman A Pad  
**RIG NAME:** Capstar 321  
**STATE:** Colorado  
**COUNTY:** Garfield

**FIELD:** Battlement Mesa  
**Township:** 7S  
**SECT. RANGE:** 24 96W  
**Lead DD:** Lloyd Berard  
**Co. Man:** Richard McNeill  
**BHA TYPE:** Steerable Assembly

**WELL NAME:** BAT 34C-24-07-96

## BHA Summary Information

TIME IN - OUT			Rotary Hours		29.92		Start Depth		1924.00		RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		40.50 / 6.08		End Depth		6088.00				
18-Feb-15 @ 23:45	21-Feb-15 @ 10:30	Slide Hours		4.50		Percent Rotary:		90.51		40 -50	360 -460	
		Below Rotary Hrs.		58.75		Percent Slide:		9.49				
Total Drilled:			4164.00		Avg. Total ROP:		120.99		Incl.		Azimuth	
Total Rotary Drilled:			3769.00		Avg. Rotary ROP:		125.98		IN	OUT	IN	OUT
Total Drilled Sliding:			395.00		Avg. Slide ROP:		87.78		.0	.0	.00	.00
SPP	752 -2000	Weights	SO	50 -65	PU	50 -100	RAB	50 -78	Reason POOH		TD	

Bit Data							MOTOR DATA					Mud Data					
Security		MM55					7/8mil. 3.5stg 6 1/2 PDM					Type	LSND				
Type Bit				PDC			Model: Arrow			Pad OD		WT	9.7	GAS	1500	Solids	8
TFA		0.751					MFG. Hunting			1/4		Vis	38	SAND	0.1	T °	95
JETS			14	14	14	14	14	Bend °	1.5	Stator/Rotor	7/8	PV	13	PH	9.7	Chlor	1100
			0	0	0	0	0	0	Bit to Bend	6.2	Motor Diff	350	YP	12	WL	6.4	Oil %
Bit Coding				IADC#				Rev/GAL	0.21			BHT°  125					
IR	OR	DL	Loc	BS	G	ODL	NB Stab	0			PUMPS	PUMP1		PUMP1			
											NAME	Gardner Denver		Gardner Denver			
											Model	PZ 9		PZ 9			
Bit Drop:			335 PSI @ 460 GPM				Sensor Offsets					Type	Triplex		Triplex		
Comments					Sensor	57	Sonic	0			Liner	6.50		6.50			
					Gamma	0	DNsc	0			Stroke	9.00		9.00			
					Restiv	0	GYRO	0			Efficiency	.95		.95			

Maintain 33.67 INC. @ 129.76 AZI. to MD of 3155.3' start drop @ 3.5 DLS per 100' stay vertical in Target to @ 6310' MD TD.

## BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	MM55	12631072	.752	7 7/8	1.00	1.00	4 1/2 REGP
2	6 1/2" Hunting 7/8, 3.5 stg. 0.21 Rev/Gal	6314	2	6 1/2	29.40	30.40	4 1/2 XHB
3	6" NMDC	ATM-64-616	2 7/8	6 3/16	30.26	60.66	4 1/2 XHB
4	6 1/2" Gap Sub	PZD GS 606	2 3/4	6 1/2	3.84	64.50	4 1/2 XHB
5	6 1/2" Index Sub	PZD IS 611	2 7/8	6 1/8	1.67	66.17	4 1/2 XHB
6	6" NMDC	ATM-64-658	2 7/8	6 1/4	30.27	96.44	4 1/2 XHB

6" NMDC  
O.D.=6 1/4  
Length=30.27  
FN=n/a

6 1/2" Index Sub  
O.D.=6 1/8  
Length=1.67  
FN=n/a

6 1/2" Gap Sub  
O.D.=6 1/2  
Length=3.84  
FN=n/a

6" NMDC  
O.D.=6 3/16  
Length=30.26  
FN=n/a

6 1/2" Hunting 7/8, 3.5 stg. 0.21 Rev/G  
O.D.=6 1/2  
Length=29.4  
FN=1.27

MM55  
O.D.=7 7/8  
Length=1  
FN=n/a



<b>JOB NO.:</b>	CO15509	<b>Report Time:</b>	2400	1 of 4
<b>Company:</b>	URSA Operating Co.	<b>API JOB #</b>	05-045-22424-00	
<b>LOCATION:</b>	Speakman A Pad	<b>WORK ORDER#</b>	CO15509	
<b>RIG NAME:</b>	Capstar 321	<b>FIELD:</b>	Battlement Mesa	
<b>STATE:</b>	Colorado	<b>Township:</b>	7S	
<b>COUNTY:</b>	Garfield	<b>SECT RANGE:</b>	24	96W
<b>WELL NAME:</b>	BAT 34C-24-07-96			

From Wednesday, February 18, 2015 at 0000 to Wednesday, February 18, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	0	Slack Off	0	SPM	
End Depth	0.00	Circulating Hours	0.00	RAB	0	SPP	0	FlowRate	0 - 0	0	
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type				PV	0	SOLID	0
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	0	GAS	0	YP	0	BHT°	0
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	0	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	1.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Lloyd Berard			Size	Lb/ft	Set Depth		BHA # 1: MM55, 6 1/2" Hunting 7/8, 3.5 stg. 0.21 Rev/Gal , 6" NMDC, 6 1/2" Gap Sub, 6 1/2" Index Sub, 6" NMDC,			
Second Directional :	Jon Willis			8 5/8	32	1908					
MWD Operator1	Colin Chudy										
MWD Operator2											
Directional Company:	Payzone Directional										
Geologist:				Signature:							
Company Man:	Richard McNeill										
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0				

#### GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
18-Feb-15	00:00	14:00	14.00	1924	1924	Standby	Standby, Skid Rig
18-Feb-15	14:00	16:00	2.00	1924	1924	N/U BOPS	N/U BOPS
18-Feb-15	16:00	23:00	7.00	1924	1924	Test BOPS	Test BOPS
18-Feb-15	23:00	23:15	0.25	1924	1924	Other	Install Wear Bushing
18-Feb-15	23:15	23:45	0.50	1924	1924	Change BHA	Pick up Directional Tools
18-Feb-15	23:45	24:00	0.25	1924	1924	TIH	TIH



<b>JOB NO.:</b>	CO15509	<b>Report Time:</b>	2400	2 of 4
<b>Company:</b>	URSA Operating Co.	<b>API JOB #</b>	05-045-22424-00	
<b>LOCATION:</b>	Speakman A Pad	<b>WORK ORDER#</b>	CO15509	
<b>RIG NAME:</b>	Capstar 321	<b>FIELD:</b>	Battlement Mesa	
<b>STATE:</b>	Colorado	<b>Township:</b>	7S	
<b>COUNTY:</b>	Garfield	<b>SECT RANGE:</b>	24	96W
<b>WELL NAME:</b>	BAT 34C-24-07-96			

From Thursday, February 19, 2015 at 0000 to Thursday, February 19, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	1924.00	Rotary Hours	11.50	WOB	25	Pick UP	50	Slack Off	50	SPM	
End Depth	3878.00	Circulating Hours	1.08	RAB	60	SPP	1575	FlowRate	0 - 460	125	
Total Drilled:	1954.00	Avg. Total ROP:	142.11	Mud Data							
Total Rotary Drilled:	1714.00	Avg. Rotary ROP:	149.04	Type	LSND			PV	11.8	SOLID	3.4
Total Drilled Sliding:	240.00	Avg. Slide ROP:	106.67	Weight	8.9	GAS	0	YP	8	BHT°	75
Slide Hours:	2.25	Percent Rotary:	87.72	Viscosity	38	SAND	0.1	PH	9.9	Flow T°	88
Below Rotary Hrs.	24.00	Percent Slide:	12.28	Chlorides	400	WL	6			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Lloyd Berard			Size	Lb/ft	Set Depth		BHA # 1: MM55, 6 1/2" Hunting 7/8, 3.5 stg. 0.21 Rev/Gal , 6" NMDC, 6 1/2" Gap Sub, 6 1/2" Index Sub, 6" NMDC,			
Second Directional :	Jon Willis			8 5/8	32	1908					
MWD Operator1	Colin Chudy										
MWD Operator2											
Directional Company:	Payzone Directional										
Geologist:				Signature: <div></div>							
Company Man:	Richard McNeill										
Incl. In:	34.54	Azm. In:	140.47	Incl. Out:	11.07	Azm. Out:	133.83				

#### GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
19-Feb-15	00:00	02:50	2.83	1924	1924	TIH	TIH @ 880' MD
19-Feb-15	02:50	04:00	1.17	1924	1924	Other	Slip & Cut Drill line
19-Feb-15	04:00	05:00	1.00	1924	1924	TIH	TIH tag Cement @ 1852
19-Feb-15	05:00	05:25	0.42	1924	1924	Drilling Cement	Drill Shoe Track
19-Feb-15	05:25	05:50	0.42	1924	1989	Drilling	Drilling - (WOB:15; :360;RPM:40)
19-Feb-15	05:50	06:00	0.17	1989	1989	Connection	Connection
19-Feb-15	06:00	06:10	0.17	1989	2032	Drilling	Drilling - (WOB:15; :475;RPM:40)
19-Feb-15	06:10	06:20	0.17	2032	2032	Connection	Connection
19-Feb-15	06:20	06:40	0.33	2032	2074	Drilling	Drilling - (WOB:15; :475;RPM:40)
19-Feb-15	06:40	06:45	0.08	2074	2074	Survey & Conn.	Survey & Conn.@2017' Inc 34.45° Azm 139.94°
19-Feb-15	06:45	06:50	0.08	2074	2084	Sliding	Sliding - (WOB:15; :475;TFO:110L))
19-Feb-15	06:50	07:00	0.17	2084	2117	Drilling	Drilling - (WOB:15; :475;RPM:50)
19-Feb-15	07:00	07:05	0.08	2117	2117	Connection	Connection
19-Feb-15	07:05	07:15	0.17	2117	2160	Drilling	Drilling - (WOB:20; :475;RPM:50)
19-Feb-15	07:15	07:25	0.17	2160	2160	Survey & Conn.	Survey & Conn.@2103' Inc 34.1° Azm 137.57°
19-Feb-15	07:25	07:30	0.08	2160	2170	Sliding	Sliding - (WOB:15; :475;TFO:110L))
19-Feb-15	07:30	07:40	0.17	2170	2202	Drilling	Drilling - (WOB:20; :475;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
19-Feb-15	07:40	07:50	0.17	2202	2202	Connection	Connection
19-Feb-15	07:50	07:55	0.08	2202	2215	Sliding	Sliding - (WOB:15; :475;TFO:110L))
19-Feb-15	07:55	08:05	0.17	2215	2245	Drilling	Drilling - (WOB:20; :475;RPM:50)
19-Feb-15	08:05	08:10	0.08	2245	2245	Connection	Connection
19-Feb-15	08:10	08:20	0.17	2245	2260	Sliding	Sliding - (WOB:15; :475;TFO:100L))
19-Feb-15	08:20	08:25	0.08	2260	2288	Drilling	Drilling - (WOB:20; :475;RPM:50)
19-Feb-15	08:25	08:45	0.33	2288	2288	Survey & Conn.	Survey & Conn.@2231' Inc 34.23° Azm 133.7°
19-Feb-15	08:45	08:50	0.08	2288	2303	Sliding	Sliding - (WOB:15; :475;TFO:100L))
19-Feb-15	08:50	09:00	0.17	2303	2330	Drilling	Drilling - (WOB:20; :475;RPM:50)
19-Feb-15	09:00	09:05	0.08	2330	2330	Connection	Connection
19-Feb-15	09:05	09:15	0.17	2330	2373	Drilling	Drilling - (WOB:20; :475;RPM:50)
19-Feb-15	09:15	09:30	0.25	2373	2373	Survey & Conn.	Survey & Conn.@2316' Inc 33.84° Azm 128.73°
19-Feb-15	09:30	10:05	0.58	2373	2459	Drilling	Drilling - (WOB:20; :475;RPM:50)
19-Feb-15	10:05	10:10	0.08	2459	2459	Survey & Conn.	Survey & Conn.@2402' Inc 33.4° Azm 128.78°
19-Feb-15	10:10	10:20	0.17	2459	2474	Sliding	Sliding - (WOB:15; :475;TFO:90L))
19-Feb-15	10:20	10:45	0.42	2474	2544	Drilling	Drilling - (WOB:20; :475;RPM:50)
19-Feb-15	10:45	10:55	0.17	2544	2544	Survey & Conn.	Survey & Conn.@2487' Inc 32.85° Azm 126.13°
19-Feb-15	10:55	11:00	0.08	2544	2559	Sliding	Sliding - (WOB:15; :460;TFO:360))
19-Feb-15	11:00	11:10	0.17	2559	2582	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	11:10	11:20	0.17	2582	2582	Connection	Connection
19-Feb-15	11:20	11:35	0.25	2582	2629	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	11:35	11:40	0.08	2629	2629	Survey & Conn.	Survey & Conn.@2572' Inc 34.01° Azm 126.45°
19-Feb-15	11:40	11:50	0.17	2629	2672	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	11:50	12:00	0.17	2672	2672	Connection	Connection
19-Feb-15	12:00	12:05	0.08	2672	2682	Sliding	Sliding - (WOB:15; :460;TFO:360))
19-Feb-15	12:05	12:15	0.17	2682	2715	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	12:15	12:55	0.67	2715	2715	Rig Service-Inhole	Rig Service-Inhole
19-Feb-15	12:55	13:00	0.08	2715	2715	Survey & Conn.	Survey & Conn.@2658' Inc 33.71° Azm 126.05°
19-Feb-15	13:00	13:10	0.17	2715	2757	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	13:10	13:15	0.08	2757	2757	Connection	Connection
19-Feb-15	13:15	13:30	0.25	2757	2800	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	13:30	13:35	0.08	2800	2800	Survey & Conn.	Survey & Conn.@2743' Inc 34.15° Azm 126.1°
19-Feb-15	13:35	14:00	0.42	2800	2886	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	14:00	14:10	0.17	2886	2886	Circulating	Circulating
19-Feb-15	14:10	14:15	0.08	2886	2886	Survey & Conn.	Survey & Conn.@2829' Inc 33.57° Azm 125.88°
19-Feb-15	14:15	14:25	0.17	2886	2898	Sliding	Sliding - (WOB:15; :460;TFO:360))
19-Feb-15	14:25	14:50	0.42	2898	2971	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	14:50	14:55	0.08	2971	2971	Survey & Conn.	Survey & Conn.@2914' Inc 33.31° Azm 127.55°
19-Feb-15	14:55	15:05	0.17	2971	2986	Sliding	Sliding - (WOB:15; :460;TFO:45R))
19-Feb-15	15:05	15:30	0.42	2986	3056	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	15:30	15:40	0.17	3056	3056	Survey & Conn.	Survey & Conn.@2999' Inc 32.92° Azm 124.95°
19-Feb-15	15:40	15:45	0.08	3056	3066	Sliding	Sliding - (WOB:15; :460;TFO:30R))
19-Feb-15	15:45	16:15	0.50	3066	3142	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	16:15	16:30	0.25	3142	3142	Circulating	Circulating
19-Feb-15	16:30	16:45	0.25	3142	3142	Survey & Conn.	Survey & Conn.@3085' Inc 32.85° Azm 126.17°
19-Feb-15	16:45	16:50	0.08	3142	3152	Sliding	Sliding - (WOB:15; :460;TFO:170R))
19-Feb-15	16:50	16:55	0.08	3152	3173	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	16:55	17:05	0.17	3173	3173	Rig repair	Rig repair

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
19-Feb-15	17:05	17:10	0.08	3173	3185	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	17:10	17:15	0.08	3185	3185	Connection	Connection
19-Feb-15	17:15	17:20	0.08	3185	3195	Sliding	Sliding - (WOB:15; :460;TFO:180))
19-Feb-15	17:20	17:35	0.25	3195	3227	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	17:35	17:40	0.08	3227	3227	Survey & Conn.	Survey & Conn.@3170' Inc 31.82° Azm 126.75°
19-Feb-15	17:40	17:45	0.08	3227	3239	Sliding	Sliding - (WOB:15; :460;TFO:180))
19-Feb-15	17:45	18:00	0.25	3239	3270	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	18:00	18:05	0.08	3270	3270	Connection	Connection
19-Feb-15	18:05	18:10	0.08	3270	3278	Sliding	Sliding - (WOB:15; :460;TFO:170L))
19-Feb-15	18:10	18:25	0.25	3278	3313	Drilling	Drilling - (WOB:20; :460;RPM:50)
19-Feb-15	18:25	18:30	0.08	3313	3313	Survey & Conn.	Survey & Conn.@3256' Inc 28.16° Azm 127.51°
19-Feb-15	18:30	18:35	0.08	3313	3321	Sliding	Sliding - (WOB:25; :460;TFO:180))
19-Feb-15	18:35	18:50	0.25	3321	3355	Drilling	Drilling - (WOB:25; :460;RPM:50)
19-Feb-15	18:50	18:55	0.08	3355	3355	Connection	Connection
19-Feb-15	18:55	19:00	0.08	3355	3361	Sliding	Sliding - (WOB:25; :460;TFO:180))
19-Feb-15	19:00	19:20	0.33	3361	3398	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
19-Feb-15	19:20	19:25	0.08	3398	3398	Survey & Conn.	Survey & Conn.@3341' Inc 24.73° Azm 126.81°
19-Feb-15	19:25	19:30	0.08	3398	3410	Sliding	Sliding - (WOB:25;GPM :460;TFO:180))
19-Feb-15	19:30	20:05	0.58	3410	3483	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
19-Feb-15	20:05	20:10	0.08	3483	3483	Survey & Conn.	Survey & Conn.@3426' Inc 21.58° Azm 125.48°
19-Feb-15	20:10	20:15	0.08	3483	3493	Sliding	Sliding - (WOB:25;GPM :460;TFO:160R))
19-Feb-15	20:15	20:50	0.58	3493	3569	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
19-Feb-15	20:50	20:55	0.08	3569	3569	Survey & Conn.	Survey & Conn.@3512' Inc 18.2° Azm 126.01°
19-Feb-15	20:55	21:00	0.08	3569	3576	Sliding	Sliding - (WOB:25;GPM :460;TFO:150R))
19-Feb-15	21:00	21:55	0.92	3576	3654	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
19-Feb-15	21:55	22:00	0.08	3654	3654	Survey & Conn.	Survey & Conn.@3597' Inc 16.13° Azm 128.38°
19-Feb-15	22:00	22:05	0.08	3654	3661	Sliding	Sliding - (WOB:25;GPM :460;TFO:150R))
19-Feb-15	22:05	22:40	0.58	3661	3739	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
19-Feb-15	22:40	22:45	0.08	3739	3739	Survey & Conn.	Survey & Conn.@3682' Inc 13.18° Azm 131.9°
19-Feb-15	22:45	22:50	0.08	3739	3744	Sliding	Sliding - (WOB:25;GPM :460;TFO:170L))
19-Feb-15	22:50	23:25	0.58	3744	3825	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
19-Feb-15	23:25	23:30	0.08	3825	3825	Survey & Conn.	Survey & Conn.@3768' Inc 11.07° Azm 133.83°
19-Feb-15	23:30	23:35	0.08	3825	3830	Sliding	Sliding - (WOB:25;GPM :460;TFO:60L))
19-Feb-15	23:35	24:00	0.42	3830	3878	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)





<b>JOB NO.:</b>	CO15509	<b>Report Time:</b>	2400	3 of 4
<b>Company:</b>	URSA Operating Co.	<b>API JOB #</b>	05-045-22424-00	
<b>LOCATION:</b>	Speakman A Pad	<b>WORK ORDER#</b>	CO15509	
<b>RIG NAME:</b>	Capstar 321	<b>FIELD:</b>	Battlement Mesa	
<b>STATE:</b>	Colorado	<b>Township:</b>	7S	
<b>COUNTY:</b>	Garfield	<b>SECT RANGE:</b>	24	96W
<b>WELL NAME:</b>	BAT 34C-24-07-96			

From Friday, February 20, 2015 at 0000 to Friday, February 20, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	3878.00	Rotary Hours	15.33	WOB	25	Pick UP	100	Slack Off	65	SPM	
End Depth	5816.00	Circulating Hours	3.67	RAB	78	SPP	2000	FlowRate	460 - 460	125	
Total Drilled:	1938.00	Avg. Total ROP:	111.81	Mud Data							
Total Rotary Drilled:	1803.00	Avg. Rotary ROP:	117.59	Type	LSND			PV	13	SOLID	8
Total Drilled Sliding:	135.00	Avg. Slide ROP:	67.50	Weight	9.7	GAS	1500	YP	12	BHT°	125
Slide Hours:	2.00	Percent Rotary:	93.03	Viscosity	38	SAND	0.1	PH	9.7	Flow T°	95
Below Rotary Hrs.	24.00	Percent Slide:	6.97	Chlorides	1100	WL	6.4			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Lloyd Berard			Size	Lb/ft	Set Depth		BHA # 1: MM55, 6 1/2" Hunting 7/8, 3.5 stg. 0.21 Rev/Gal , 6" NMDC, 6 1/2" Gap Sub, 6 1/2" Index Sub, 6" NMDC,			
Second Directional :	Jon Willis			8 5/8	32	1908					
MWD Operator1	Colin Chudy										
MWD Operator2											
Directional Company:	Payzone Directional										
Geologist:				Signature:							
Company Man:	Richard McNeill										
Incl. In:	11.07	Azm. In:	133.83	Incl. Out:	0.7	Azm. Out:	262.99				

#### GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
20-Feb-15	00:00	00:20	0.33	3878	3910	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	00:20	00:25	0.08	3910	3910	Survey & Conn.	Survey & Conn.@3853' Inc 10.11° Azm 133.74°
20-Feb-15	00:25	00:30	0.08	3910	3915	Sliding	Sliding - (WOB:25;GPM :460;TFO:30L))
20-Feb-15	00:30	01:05	0.58	3915	3996	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	01:05	01:10	0.08	3996	3996	Survey & Conn.	Survey & Conn.@3939' Inc 10.02° Azm 131.24°
20-Feb-15	01:10	01:15	0.08	3996	4004	Sliding	Sliding - (WOB:25;GPM :460;TFO:180))
20-Feb-15	01:15	01:30	0.25	4004	4038	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	01:30	01:35	0.08	4038	4038	Connection	Connection
20-Feb-15	01:35	01:40	0.08	4038	4043	Sliding	Sliding - (WOB:25;GPM :460;TFO:180))
20-Feb-15	01:40	01:50	0.17	4043	4081	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	01:50	01:55	0.08	4081	4081	Survey & Conn.	Survey & Conn.@4024' Inc 8.88° Azm 132.47°
20-Feb-15	01:55	02:05	0.17	4081	4096	Sliding	Sliding - (WOB:25;GPM :460;TFO:180))
20-Feb-15	02:05	02:15	0.17	4096	4124	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	02:15	02:20	0.08	4124	4124	Connection	Connection
20-Feb-15	02:20	02:25	0.08	4124	4134	Sliding	Sliding - (WOB:25;GPM :460;TFO:170L))
20-Feb-15	02:25	02:40	0.25	4134	4166	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	02:40	02:45	0.08	4166	4166	Survey & Conn.	Survey & Conn.@4109' Inc 6.33° Azm 139.67°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
20-Feb-15	02:45	02:50	0.08	4166	4181	Sliding	Sliding - (WOB:25;GPM :460;TFO:170L))
20-Feb-15	02:50	03:05	0.25	4181	4209	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	03:05	03:10	0.08	4209	4209	Connection	Connection
20-Feb-15	03:10	03:20	0.17	4209	4221	Sliding	Sliding - (WOB:25;GPM :460;TFO:170L))
20-Feb-15	03:20	03:30	0.17	4221	4252	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	03:30	03:35	0.08	4252	4252	Survey & Conn.	Survey & Conn.@4195' Inc 2.94° Azm 140.99°
20-Feb-15	03:35	03:55	0.33	4252	4294	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	03:55	04:00	0.08	4294	4294	Connection	Connection
20-Feb-15	04:00	04:20	0.33	4294	4337	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	04:20	04:25	0.08	4337	4337	Survey & Conn.	Survey & Conn.@4280' Inc 1.32° Azm 138.67°
20-Feb-15	04:25	04:35	0.17	4337	4349	Sliding	Sliding - (WOB:25;GPM :460;TFO:15M))
20-Feb-15	04:35	05:15	0.67	4349	4422	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	05:15	05:20	0.08	4422	4422	Survey & Conn.	Survey & Conn.@4365' Inc 0.62° Azm 72.53°
20-Feb-15	05:20	05:40	0.33	4422	4465	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	05:40	05:45	0.08	4465	4465	Connection	Connection
20-Feb-15	05:45	06:05	0.33	4465	4508	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	06:05	06:10	0.08	4508	4508	Survey & Conn.	Survey & Conn.@4451' Inc 0.26° Azm 109.97°
20-Feb-15	06:10	06:50	0.67	4508	4593	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	06:50	07:00	0.17	4593	4593	Circulating	Circulating
20-Feb-15	07:00	07:05	0.08	4593	4593	Survey & Conn.	Survey & Conn.@4536' Inc 0.31° Azm 151.28°
20-Feb-15	07:05	07:40	0.58	4593	4679	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	07:40	07:45	0.08	4679	4679	Survey & Conn.	Survey & Conn.@4622' Inc 0.48° Azm 141.17°
20-Feb-15	07:45	08:05	0.33	4679	4721	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	08:05	08:10	0.08	4721	4721	Connection	Connection
20-Feb-15	08:10	08:20	0.17	4721	4764	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	08:20	08:25	0.08	4764	4764	Survey & Conn.	Survey & Conn.@4707' Inc 0.48° Azm 181.2°
20-Feb-15	08:25	09:20	0.92	4764	4849	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	09:20	09:25	0.08	4849	4849	Survey & Conn.	Survey & Conn.@4792' Inc 0.88° Azm 176.2°
20-Feb-15	09:25	09:50	0.42	4849	4892	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	09:50	10:10	0.33	4892	4907	Sliding	Sliding - (WOB:25;GPM :460;TFO:15M))
20-Feb-15	10:10	10:30	0.33	4907	4934	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	10:30	10:40	0.17	4934	4934	Survey & Conn.	Survey & Conn.@4877' Inc 0.97° Azm 196.1°
20-Feb-15	10:40	11:50	1.17	4934	5020	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	11:50	12:00	0.17	5020	5020	Survey & Conn.	Survey & Conn.@4967' Inc 0.92° Azm 302.62°
20-Feb-15	12:00	12:15	0.25	5020	5063	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	12:15	13:15	1.00	5063	5063	Rig Service-Inhole	Rig Service-Inhole
20-Feb-15	13:15	13:40	0.42	5063	5105	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	13:40	13:45	0.08	5105	5105	Survey & Conn.	Survey & Conn.@5048' Inc 1.1° Azm 280.48°
20-Feb-15	13:45	14:25	0.67	5105	5191	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	14:25	14:30	0.08	5191	5191	Survey & Conn.	Survey & Conn.@5134' Inc 1.32° Azm 268.57°
20-Feb-15	14:30	15:10	0.67	5191	5276	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	15:10	15:15	0.08	5276	5276	Survey & Conn.	Survey & Conn.@5219' Inc 1.63° Azm 260.74°
20-Feb-15	15:15	15:35	0.33	5276	5291	Sliding	Sliding - (WOB:25;GPM :460;TFO:20M))
20-Feb-15	15:35	15:45	0.17	5291	5319	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	15:45	15:50	0.08	5319	5319	Connection	Connection
20-Feb-15	15:50	15:55	0.08	5319	5322	Sliding	Sliding - (WOB:25;GPM :460;TFO:20M))
20-Feb-15	15:55	16:00	0.08	5322	5322	Other	Trouble Shoot RFD
20-Feb-15	16:00	16:15	0.25	5322	5362	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
20-Feb-15	16:15	16:25	0.17	5362	5362	Survey & Conn.	Survey & Conn.@5305' Inc 1.89° Azm 306.84°
20-Feb-15	16:25	16:45	0.33	5362	5382	Sliding	Sliding - (WOB:25;GPM :460;TFO:120M))
20-Feb-15	16:45	17:00	0.25	5382	5404	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	17:00	17:10	0.17	5404	5404	Connection	Connection
20-Feb-15	17:10	17:20	0.17	5404	5447	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	17:20	17:25	0.08	5447	5447	Survey & Conn.	Survey & Conn.@5390' Inc 0.64° Azm 2.74°
20-Feb-15	17:25	18:10	0.75	5447	5532	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	18:10	18:15	0.08	5532	5532	Survey & Conn.	Survey & Conn.@5475' Inc 0.26° Azm 324.82°
20-Feb-15	18:15	19:00	0.75	5532	5618	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	19:00	19:05	0.08	5618	5618	Survey & Conn.	Survey & Conn.@5561' Inc 0.26° Azm 262.72°
20-Feb-15	19:05	19:45	0.67	5618	5689	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	19:45	22:15	2.50	5689	5689	Circulating	Circulating, lost Circulation
20-Feb-15	22:15	22:30	0.25	5689	5703	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	22:30	22:35	0.08	5703	5703	Survey & Conn.	Survey & Conn.@5646' Inc 0.48° Azm 265.92°
20-Feb-15	22:35	23:40	1.08	5703	5789	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
20-Feb-15	23:40	23:45	0.08	5789	5789	Survey & Conn.	Survey & Conn.@5732' Inc 0.7° Azm 262.99°
20-Feb-15	23:45	24:00	0.25	5789	5816	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)





<b>JOB NO.:</b>	CO15509	<b>Report Time:</b>	2400	4 of 4
<b>Company:</b>	URSA Operating Co.	<b>API JOB #</b>	05-045-22424-00	
<b>LOCATION:</b>	Speakman A Pad	<b>WORK ORDER#</b>	CO15509	
<b>RIG NAME:</b>	Capstar 321	<b>FIELD:</b>	Battlement Mesa	
<b>STATE:</b>	Colorado	<b>Township:</b>	7S	
<b>COUNTY:</b>	Garfield	<b>SECT RANGE:</b>	24	96W
<b>WELL NAME:</b>	BAT 34C-24-07-96			

From Saturday, February 21, 2015 at 0000 to Saturday, February 21, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	3878.00	Rotary Hours	15.33	WOB	25	Pick UP	100	Slack Off	65	SPM	
End Depth	5816.00	Circulating Hours	3.67	RAB	78	SPP	2000	FlowRate	460 - 460	125	
Total Drilled:	1938.00	Avg. Total ROP:	111.81	Mud Data							
Total Rotary Drilled:	1803.00	Avg. Rotary ROP:	117.59	Type	LSND			PV	13	SOLID	8
Total Drilled Sliding:	135.00	Avg. Slide ROP:	67.50	Weight	9.7	GAS	1500	YP	12	BHT°	125
Slide Hours:	2.00	Percent Rotary:	93.03	Viscosity	38	SAND	0.1	PH	9.7	Flow T°	95
Below Rotary Hrs.	24.00	Percent Slide:	6.97	Chlorides	1100	WL	6.4			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Lloyd Berard			Size	Lb/ft	Set Depth		BHA # 2			
Second Directional :	Jon Willis			8 5/8	32	1908					
MWD Operator1	Colin Chudy										
MWD Operator2											
Directional Company:	Payzone Directional										
Geologist:				Signature: <div></div>							
Company Man:	Richard McNeill										
Incl. In:	0.7	Azm. In:	262.99	Incl. Out:	0	Azm. Out:	0				

#### GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
21-Feb-15	00:00	00:45	0.75	5816	5874	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
21-Feb-15	00:45	00:50	0.08	5874	5874	Survey & Conn.	Survey & Conn.@5817' Inc 1.23° Azm 248°
21-Feb-15	00:50	01:05	0.25	5874	5894	Sliding	Sliding - (WOB:25;GPM :460;TFO:60M))
21-Feb-15	01:05	01:45	0.67	5894	5959	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
21-Feb-15	01:45	01:50	0.08	5959	5959	Survey & Conn.	Survey & Conn.@5902' Inc 0.79° Azm 235.39°
21-Feb-15	01:50	03:00	1.17	5959	6045	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
21-Feb-15	03:00	03:05	0.08	6045	6045	Survey & Conn.	Survey & Conn.@5988' Inc 1.23° Azm 233.15°
21-Feb-15	03:05	03:35	0.50	6045	6088	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
21-Feb-15	03:35	03:40	0.08	6088	6088	MWD Survey	MWD Survey@6031' Inc 1.32° Azm 234.82°
21-Feb-15	03:40	04:55	1.25	6088	6088	Circulating	Circulating
21-Feb-15	04:55	09:45	4.83	6088	6088	POOH	POOH
21-Feb-15	09:45	10:30	0.75	6088	6088	Change BHA	Change BHA
21-Feb-15	10:30	24:00	13.50	6088	6088	Standby	Standby/ Run CSG

**BHA # 1****Mud Motor Report**

**JOB NO.:** CO15509  
**Company:** URSA Operating Co.  
**LOCATION:** Speakman A Pad  
**RIG NAME:** Capstar 321  
**STATE:** Colorado  
**COUNTY:** Garfield

**FIELD:** Battlement Mesa  
**Township:** 7S  
**Range** 96W  
**Lead DD:** Lloyd Berard  
**Co. Man:** Richard McNeill

**WELL NAME:** BAT 34C-24-07-96

**Motor Failed?:** NO

Time and Depths (This BHA)	MOTOR DATA	Drilling Parameters
<b>Date In:</b> 18-Feb-15 @ 23:45	<b>Desc:</b> 7/8mil. 3.5stg 6 1/2 PDM	<b>SO/PU:</b> 50 - 65 50-100
<b>Date Out:</b> 21-Feb-15 @ 10:30	<b>MFG.:</b> Hunting	<b>Rot Wt:</b> 50-78
<b>Hrs In Hole:</b> 58.75	<b>BHA Circ/ All BHA:</b> 40.50 / 38.83	<b>WOB:</b> 10 - 25
<b>Start Depth:</b> 1924.00	<b>Motor SN:</b> 6314	<b>TORQ:</b> 4000 - 13900
<b>End Depth:</b> 6088.00	<b>Pad OD:</b> 1/4	<b>SPP:</b> 752 - 2000
<b>Total Drilled:</b> 4164.00	<b>NB Stab:</b> 0	<b>Motor RPM:</b> 97
<b>Avg. Total ROP:</b> 120.99	<b>Bit to Bend:</b> 6.2	<b>Rotary RPM:</b> 40 - 50
<b>Circ Hrs:Tot/Only</b> 40.50 / 6.08	<b>Bent Hsg / Sub:</b> 1.5 / 0	<b>Flow Rate:</b> 360 - 460
<b>Percent Slide:</b> 9.49	<b>Lobe/Stage:</b> 7/8 / 3.5	<b>Avg Diff:</b> 350
<b>Percent Hrs:</b> 13.08	<b>Rev/GAL:</b> 0.21	<b>Stall Pres.:</b>
<b>Slide Hours:</b> 4.50	<b>Rotor Jet:</b> 0	<b>Off Bot Pres.:</b>
<b>Total Sliding:</b> 395.00	<b>Prop BUR:</b> 3.5	<b>Bit Record</b>
<b>Avg. Slide ROP:</b> 87.78	<b>Act BUR:</b> 3.5	
<b>Percent Rotary:</b> 90.51	<b>Stator Clearance:</b>	Security / MM55
<b>Percent Hrs:</b> 86.92	<b>Lower Stab OD:</b>	<b>Run #:</b> 1
<b>Rot / Total Hrs:</b> 29.92 / 34.42	<b>Upper Stab OD:</b>	<b>Type Bit:</b> PDC
<b>Rotary Drilled:</b> 3769.00	<b>Extended Motor?</b> NO	<b>IADC#:</b> TFA: 0.751
<b>Avg. Rotary ROP:</b> 125.98	<b>Number of Stalls:</b> 0	<b>JETS:</b> 5-14
<b>Reason POOH:</b> TD	<b>Stall Duration:</b> 0	<b>Bit Drop:</b> 335 PSI @ 460 GPM
		<b>Cond.:</b>

**Mud Data**

**Type** LSND **WT:** 9.7 **Vis:** 38 **WL:** 6.4 **PV:** 13 **Flow T °:** 95  
**SAND** 0.1 **Chlor:** 1100 **GAS** 1500 **SOL:** 8 **Oil %:** 0 **YP:** 12 **PH:** 9.7 **Bottom Hole T °:** 125

**Formation:****EXPANDED REASON PULLED:**

TD

**BHA PERFORMANCE:**

BHA Performed as expected.

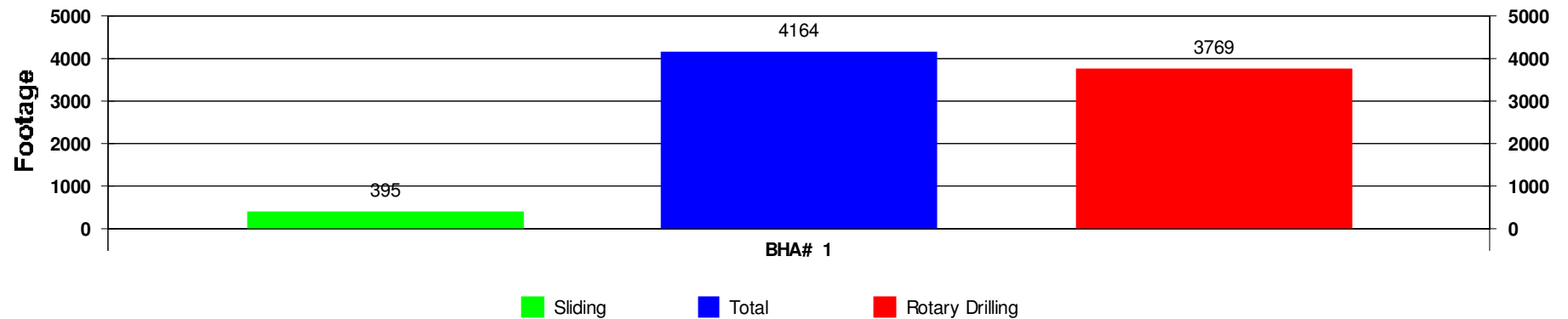
**ADDITIONAL COMMENTS: (Expands to next page if necessary)**

Chipped cutter gage cutter, broken middle and shoulder cutters.

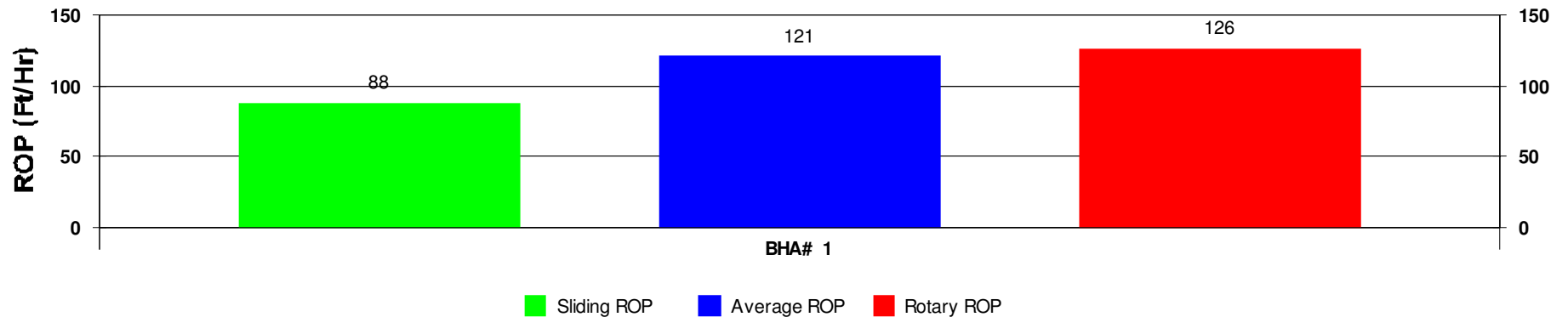


<b>JOB NO.:</b>	CO15509	<b>FIELD:</b>	Battlement Mesa	
<b>Company:</b>	URSA Operating Co.	<b>Township:</b>	7S	
<b>LOCATION:</b>	Speakman A Pad	<b>SECT\</b>	24	96W
<b>RIG NAME:</b>	Capstar 321	<b>COMMENT</b>		
<b>STATE:</b>	Colorado			
<b>COUNTY:</b>	Garfield			
<b>WELL NAME:</b>	BAT 34C-24-07-96			

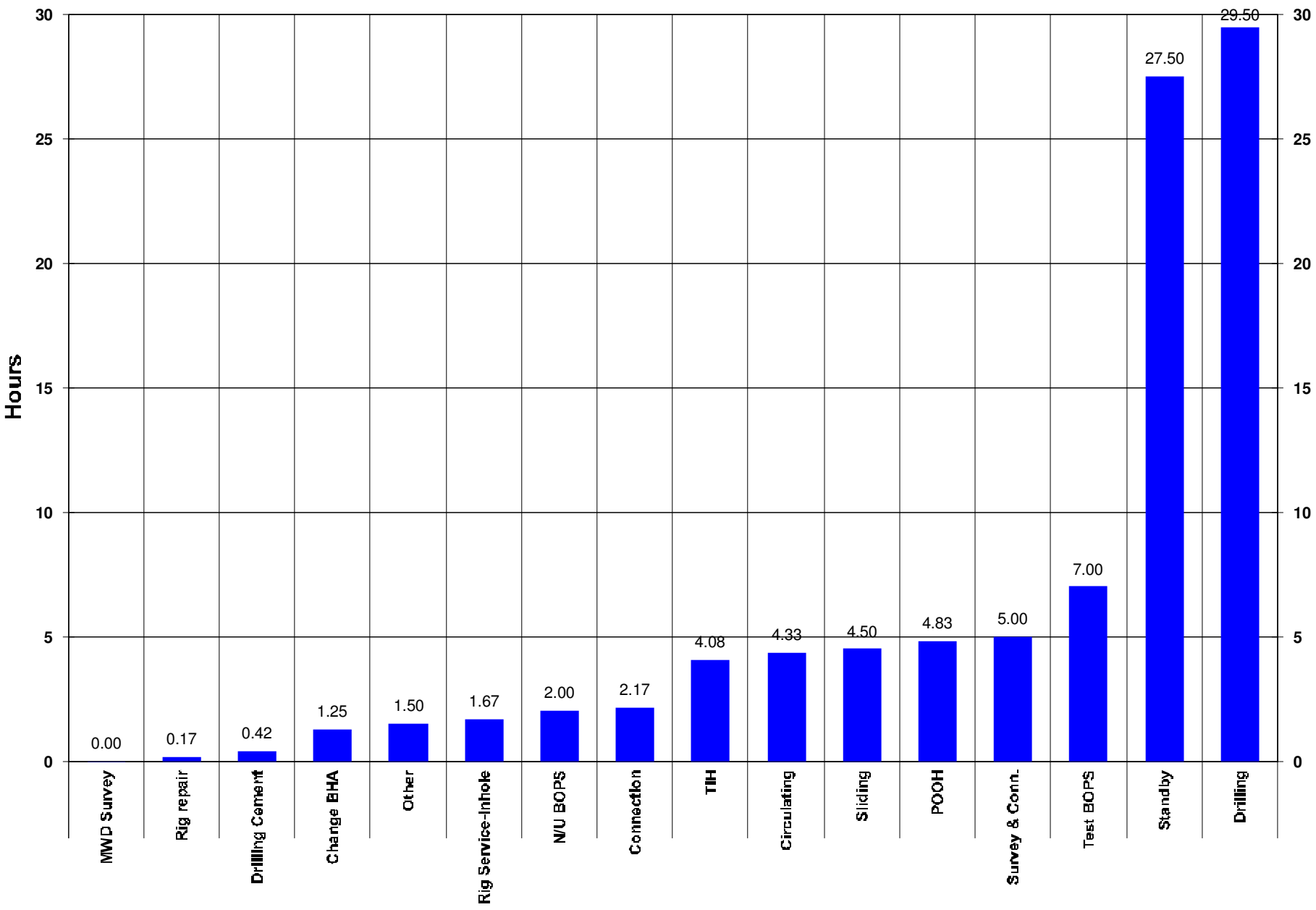
### Footage Drilled with BHA



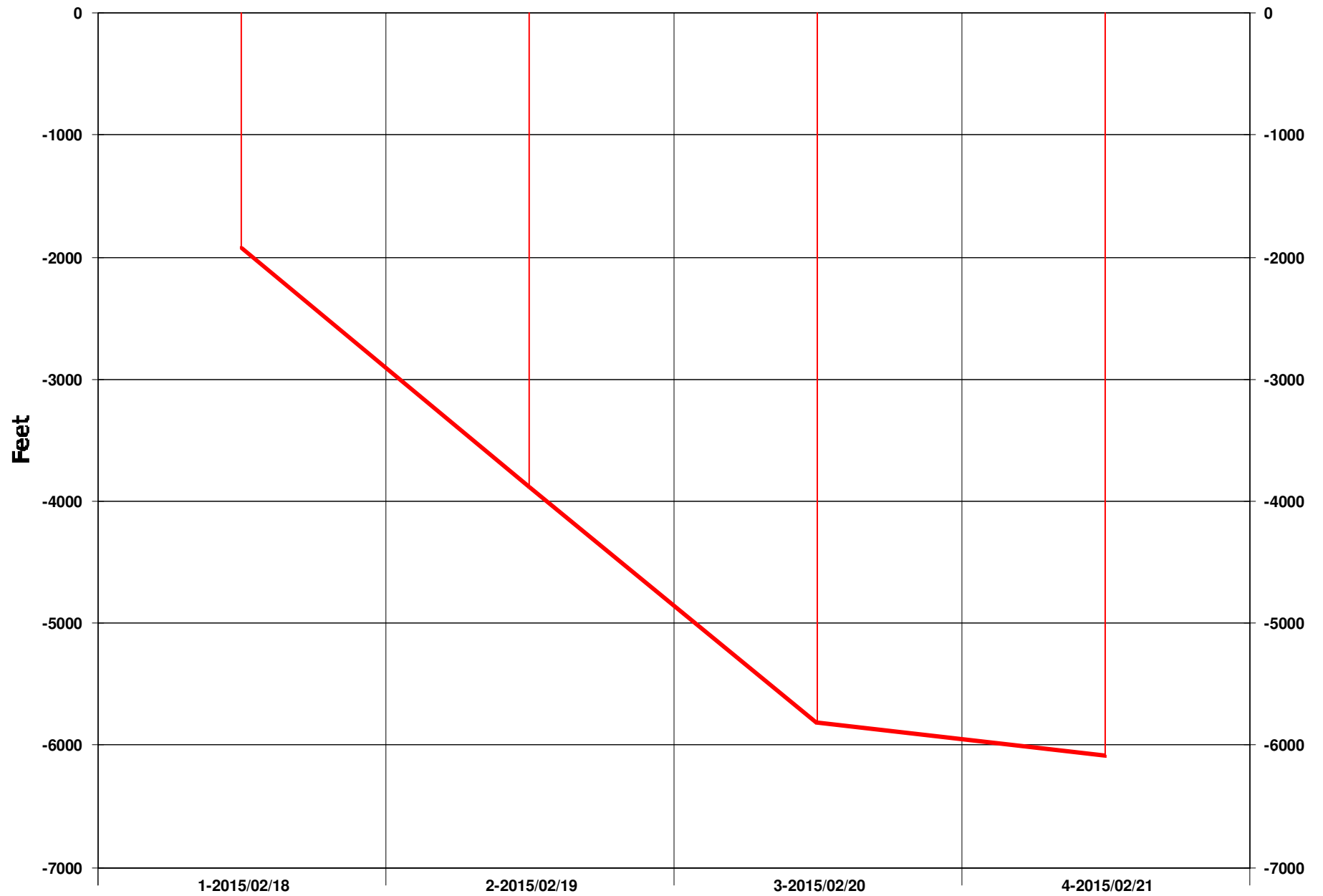
### ROP vs BHA



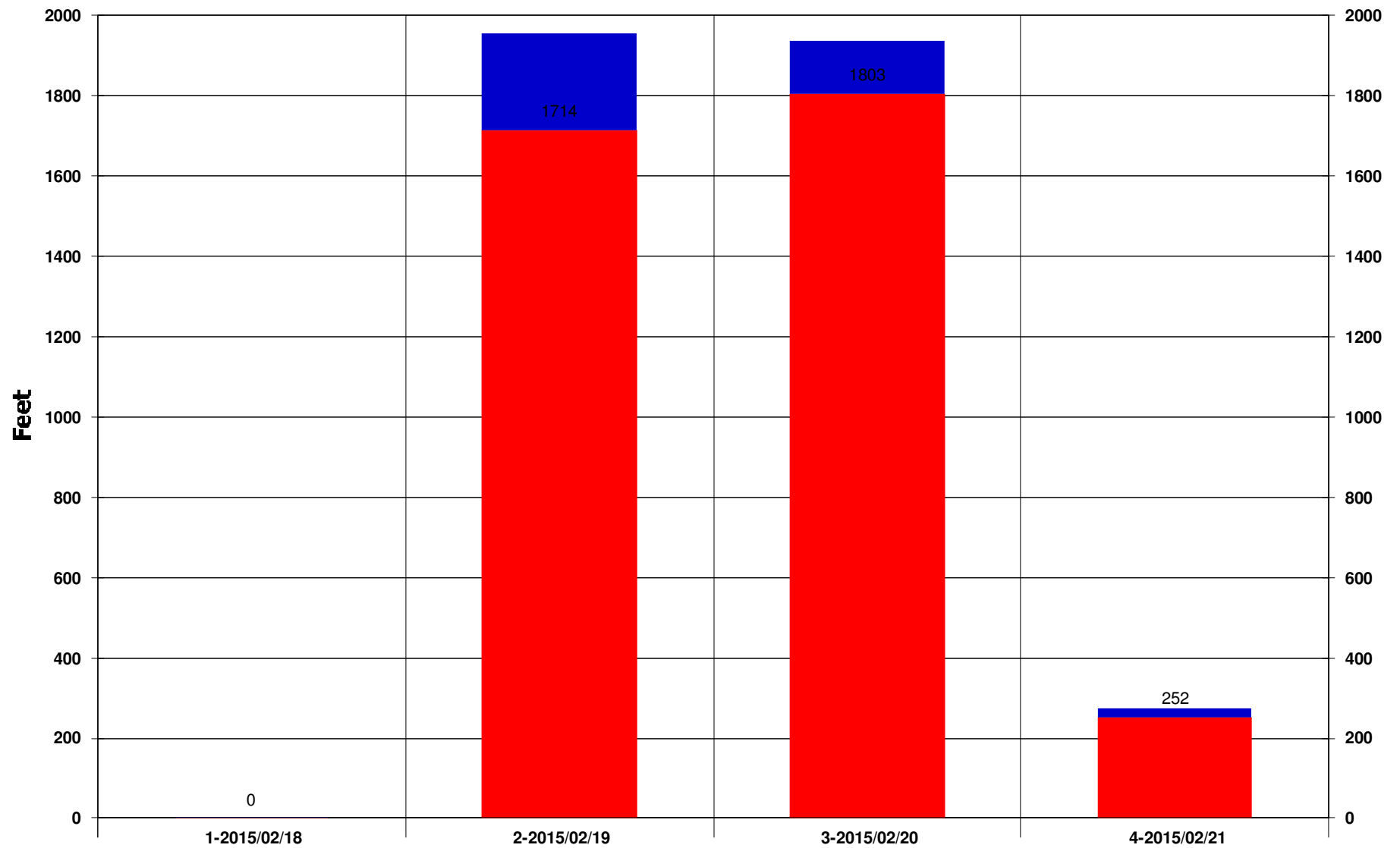
Activity Histogram



Measured Depth vs Days

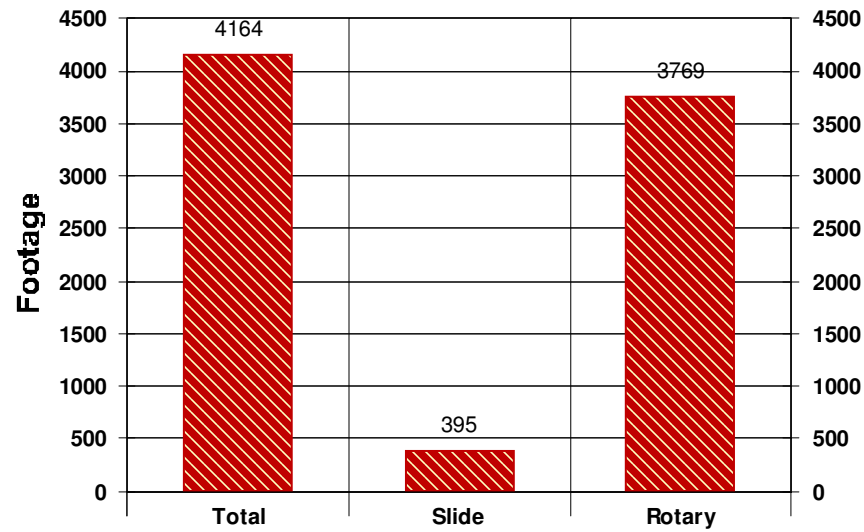


## Daily Footage

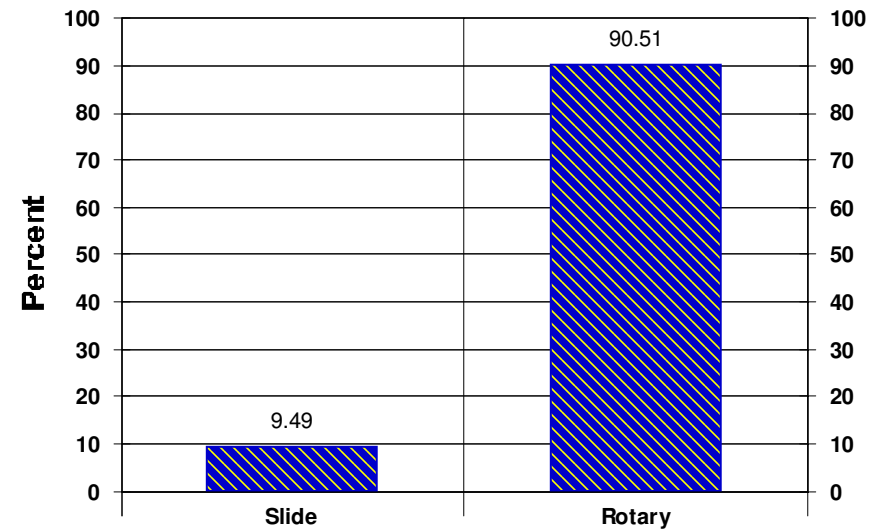


Rotary Drilling Sliding

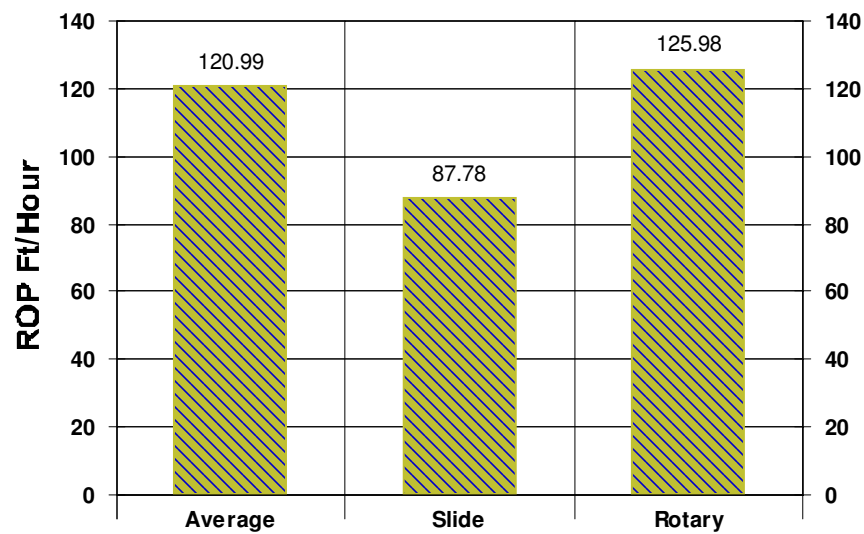
Footage Drilled Totals



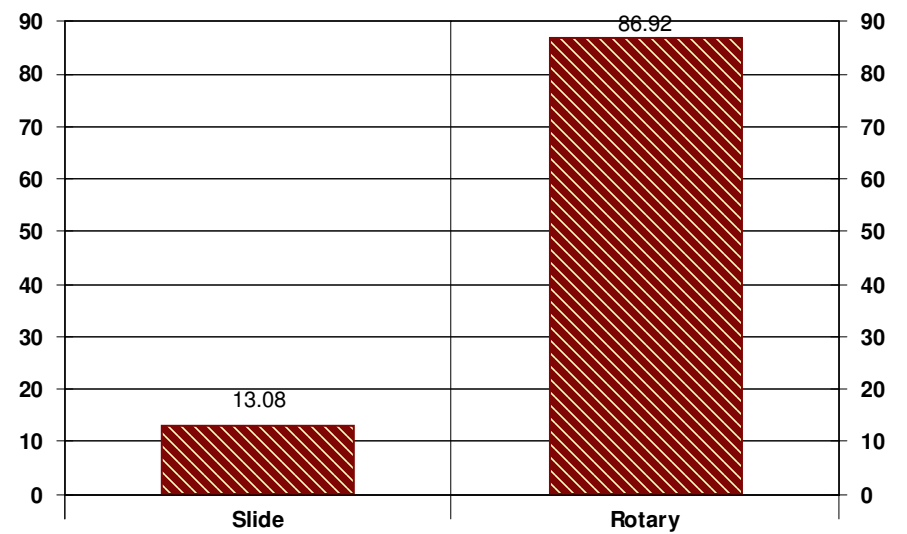
Footage Percent



Rate of Penetration Totals



Time Percent





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