



Ursa Operating Company, LLC

Rockies Region

Watson Ranch B

WATSON RANCH B 32D-17-07-95

Wellbore #1

Design: Actual

End of Well Report

14 April, 2015



Company:	Ursa Operating Company, LLC	Local Co-ordinate Reference:	Well WATSON RANCH B 32D-17-07-95
Project:	Rockies Region	TVD Reference:	WATSON RANCH B 32D-17-07-95 @ 5602.0usft (Caps
Site:	Watson Ranch B	MD Reference:	WATSON RANCH B 32D-17-07-95 @ 5602.0usft (Caps
Well:	WATSON RANCH B 32D-17-07-95	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	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	Watson Ranch B		
Site Position:		Northing:	1,592,643.01 usft
From:	Lat/Long	Easting:	2,287,301.12 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	39° 26' 0.219 N
		Longitude:	108° 1' 24.909 W
		Grid Convergence:	-1.59 °

Well	WATSON RANCH B 32D-17-07-95, SHL LAT: 39.433396438 LONG: -108.023408900		
Well Position	+N/-S	0.0 usft	Northing: 1,592,642.47 usft
	+E/-W	0.0 usft	Easting: 2,287,351.09 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	5,602.0 usft
		Latitude:	39° 26' 0.227 N
		Longitude:	108° 1' 24.272 W
		Ground Level:	5,585.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/3/2015	9.88	65.58	51,841

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	38.59

Survey Program	Date	4/14/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
248.0	7,298.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

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Design:	Actual	Database:	EDM 5000.1 Single User Db

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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	
248.0	0.53	175.38	248.0	-0.8	-1.1	0.1	0.21	0.21	0.00	
278.0	0.40	162.19	278.0	-1.0	-1.4	0.1	0.56	-0.43	-43.97	
308.0	0.53	104.83	308.0	-1.0	-1.5	0.3	1.54	0.43	-191.20	
338.0	1.02	70.14	338.0	-0.7	-1.5	0.7	2.19	1.63	-115.63	
368.0	1.56	61.25	368.0	-0.1	-1.2	1.3	1.91	1.80	-29.63	
398.0	2.15	46.62	398.0	0.8	-0.6	2.1	2.51	1.97	-48.77	
428.0	3.08	47.67	427.9	2.2	0.3	3.1	3.10	3.10	3.50	
458.0	3.87	42.16	457.9	4.0	1.6	4.3	2.86	2.63	-18.37	
488.0	4.97	38.01	487.8	6.3	3.4	5.8	3.82	3.67	-13.83	
518.0	5.98	36.55	517.7	9.2	5.7	7.6	3.40	3.37	-4.87	
548.0	7.03	35.24	547.5	12.5	8.4	9.5	3.53	3.50	-4.37	
578.0	7.95	35.85	577.2	16.5	11.6	11.8	3.08	3.07	2.03	
608.0	9.05	36.60	606.9	20.9	15.2	14.4	3.69	3.67	2.50	
638.0	10.28	37.39	636.4	25.9	19.2	17.5	4.12	4.10	2.63	
668.0	11.60	36.03	665.9	31.6	23.8	20.9	4.48	4.40	-4.53	
698.0	12.74	38.36	695.2	37.9	28.8	24.7	4.14	3.80	7.77	
728.0	13.83	38.12	724.4	44.8	34.2	29.0	3.64	3.63	-0.80	
758.0	14.77	37.04	753.5	52.2	40.1	33.5	3.26	3.13	-3.60	
788.0	15.60	35.99	782.4	60.1	46.4	38.2	2.91	2.77	-3.50	
818.0	16.30	36.82	811.3	68.3	53.1	43.1	2.45	2.33	2.77	
848.0	17.23	37.57	840.0	77.0	59.9	48.3	3.18	3.10	2.50	
878.0	18.02	39.81	868.6	86.1	67.0	54.0	3.47	2.63	7.47	
908.0	18.76	39.76	897.1	95.5	74.3	60.0	2.47	2.47	-0.17	
938.0	19.12	37.61	925.5	105.3	81.9	66.1	2.62	1.20	-7.17	
968.0	19.83	37.79	953.7	115.3	89.8	72.2	2.38	2.37	0.60	
998.0	20.43	37.57	981.9	125.6	98.0	78.5	2.02	2.00	-0.73	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	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)	
1,028.0	21.18	38.18	1,009.9	136.2	106.4	85.1	2.60	2.50	2.03	
1,058.0	21.88	38.44	1,037.9	147.2	115.0	91.9	2.35	2.33	0.87	
1,088.0	22.50	38.71	1,065.6	158.6	123.9	99.0	2.09	2.07	0.90	
1,118.0	23.38	39.19	1,093.3	170.3	133.0	106.3	3.00	2.93	1.60	
1,148.0	24.26	39.61	1,120.7	182.4	142.4	114.0	2.99	2.93	1.40	
1,178.0	25.05	38.93	1,148.0	194.9	152.0	121.9	2.80	2.63	-2.27	
1,208.0	25.80	38.58	1,175.1	207.8	162.1	130.0	2.55	2.50	-1.17	
1,238.0	26.49	38.34	1,202.0	221.0	172.4	138.2	2.33	2.30	-0.80	
1,268.0	26.98	39.15	1,228.8	234.5	183.0	146.7	2.04	1.63	2.70	
1,298.0	27.71	38.82	1,255.4	248.3	193.7	155.3	2.49	2.43	-1.10	
1,328.0	28.46	39.58	1,281.9	262.4	204.6	164.3	2.77	2.50	2.53	
1,358.0	29.31	39.06	1,308.2	276.9	215.8	173.4	2.95	2.83	-1.73	
1,388.0	30.38	39.46	1,334.2	291.8	227.4	182.9	3.63	3.57	1.33	
1,418.0	31.33	38.40	1,359.9	307.2	239.4	192.5	3.65	3.17	-3.53	
1,448.0	32.21	38.88	1,385.4	323.0	251.7	202.4	3.05	2.93	1.60	
1,478.0	32.92	39.32	1,410.7	339.1	264.2	212.6	2.49	2.37	1.47	
1,508.0	33.76	39.80	1,435.8	355.6	276.9	223.1	2.93	2.80	1.60	
1,538.0	34.50	39.81	1,460.6	372.4	289.9	233.9	2.47	2.47	0.03	
1,568.0	34.72	39.02	1,485.3	389.5	303.0	244.7	1.67	0.73	-2.63	
1,598.0	34.63	39.15	1,510.0	406.6	316.3	255.5	0.39	-0.30	0.43	
1,628.0	34.39	39.88	1,534.7	423.5	329.4	266.3	1.59	-0.80	2.43	
1,658.0	34.80	39.41	1,559.4	440.6	342.5	277.1	1.63	1.37	-1.57	
1,688.0	35.72	39.35	1,583.9	457.9	355.9	288.1	3.07	3.07	-0.20	
1,718.0	36.12	38.05	1,608.2	475.5	369.6	299.1	2.87	1.33	-4.33	
1,748.0	36.17	38.05	1,632.4	493.2	383.6	310.0	0.17	0.17	0.00	
1,778.0	36.04	37.30	1,656.7	510.9	397.6	320.8	1.54	-0.43	-2.50	
1,808.0	36.25	37.48	1,680.9	528.6	411.6	331.6	0.78	0.70	0.60	

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1,886.0	35.89	36.68	1,743.9	574.5	448.3	359.3	0.76	-0.46	-1.03	
1,971.0	36.12	37.35	1,812.7	624.4	488.2	389.4	0.54	0.27	0.79	
2,056.0	35.99	39.54	1,881.4	674.4	527.3	420.5	1.52	-0.15	2.58	
2,142.0	37.13	40.16	1,950.5	725.6	566.7	453.3	1.39	1.33	0.72	
2,227.0	36.59	39.97	2,018.5	776.6	605.7	486.1	0.65	-0.64	-0.22	
2,313.0	35.74	39.74	2,087.9	827.4	644.6	518.6	1.00	-0.99	-0.27	
2,398.0	36.25	39.81	2,156.7	877.3	683.0	550.6	0.60	0.60	0.08	
2,483.0	34.67	39.46	2,225.9	926.6	721.0	582.0	1.87	-1.86	-0.41	
2,569.0	34.85	39.06	2,296.6	975.6	759.0	613.1	0.34	0.21	-0.47	
2,654.0	35.37	37.84	2,366.1	1,024.5	797.2	643.5	1.03	0.61	-1.44	
2,740.0	36.25	38.88	2,435.9	1,074.8	836.7	674.7	1.24	1.02	1.21	
2,825.0	35.20	38.88	2,504.9	1,124.5	875.3	705.8	1.24	-1.24	0.00	
2,910.0	35.90	38.71	2,574.0	1,173.9	913.9	736.8	0.83	0.82	-0.20	
2,996.0	35.17	38.32	2,644.0	1,223.9	953.0	767.9	0.89	-0.85	-0.45	
3,081.0	35.95	38.31	2,713.2	1,273.3	991.7	798.6	0.92	0.92	-0.01	
3,167.0	35.41	38.31	2,783.0	1,323.4	1,031.1	829.7	0.63	-0.63	0.00	
3,252.0	34.54	37.87	2,852.7	1,372.2	1,069.5	859.7	1.07	-1.02	-0.52	
3,338.0	35.55	38.41	2,923.1	1,421.6	1,108.3	890.2	1.23	1.17	0.63	
3,423.0	36.34	39.19	2,991.9	1,471.4	1,147.2	921.5	1.07	0.93	0.92	
3,509.0	35.42	38.71	3,061.6	1,521.8	1,186.4	953.2	1.12	-1.07	-0.56	
3,594.0	36.08	38.84	3,130.5	1,571.5	1,225.1	984.3	0.78	0.78	0.15	
3,679.0	35.29	38.97	3,199.6	1,621.1	1,263.7	1,015.4	0.93	-0.93	0.15	
3,764.0	35.86	37.52	3,268.7	1,670.5	1,302.5	1,046.0	1.20	0.67	-1.71	
3,850.0	35.16	37.26	3,338.7	1,720.5	1,342.2	1,076.4	0.83	-0.81	-0.30	
3,935.0	34.50	38.27	3,408.5	1,769.0	1,380.6	1,106.1	1.03	-0.78	1.19	
4,021.0	33.31	37.79	3,479.9	1,817.0	1,418.4	1,135.7	1.42	-1.38	-0.56	
4,106.0	31.73	38.40	3,551.5	1,862.7	1,454.3	1,163.8	1.90	-1.86	0.72	

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4,192.0	29.05	37.65	3,625.7	1,906.2	1,488.6	1,190.6	3.15	-3.12	-0.87	
4,277.0	26.76	38.36	3,700.8	1,946.0	1,519.9	1,215.1	2.72	-2.69	0.84	
4,363.0	23.91	37.83	3,778.6	1,982.7	1,548.9	1,237.8	3.32	-3.31	-0.62	
4,448.0	21.01	38.58	3,857.1	2,015.2	1,574.4	1,257.9	3.43	-3.41	0.88	
4,533.0	18.13	38.82	3,937.2	2,043.7	1,596.6	1,275.7	3.39	-3.39	0.28	
4,619.0	15.47	39.67	4,019.5	2,068.5	1,615.9	1,291.4	3.11	-3.09	0.99	
4,704.0	12.79	39.46	4,101.9	2,089.3	1,631.9	1,304.6	3.15	-3.15	-0.25	
4,790.0	10.20	40.07	4,186.2	2,106.4	1,645.1	1,315.6	3.01	-3.01	0.71	
4,875.0	7.89	36.64	4,270.1	2,119.8	1,655.5	1,323.9	2.79	-2.72	-4.04	
4,960.0	5.23	35.19	4,354.6	2,129.5	1,663.3	1,329.6	3.14	-3.13	-1.71	
5,046.0	2.88	50.20	4,440.3	2,135.5	1,667.9	1,333.6	2.98	-2.73	17.45	
5,131.0	2.37	51.10	4,525.3	2,139.3	1,670.4	1,336.6	0.60	-0.60	1.06	
5,216.0	1.89	47.72	4,610.2	2,142.4	1,672.4	1,339.0	0.58	-0.56	-3.98	
5,302.0	1.33	44.06	4,696.2	2,144.8	1,674.1	1,340.7	0.66	-0.65	-4.26	
5,387.0	1.01	44.33	4,781.1	2,146.5	1,675.4	1,341.9	0.38	-0.38	0.32	
5,473.0	0.53	34.01	4,867.1	2,147.7	1,676.2	1,342.7	0.58	-0.56	-12.00	
5,558.0	1.44	41.20	4,952.1	2,149.1	1,677.4	1,343.6	1.08	1.07	8.46	
5,643.0	0.79	55.85	5,037.1	2,150.8	1,678.5	1,344.8	0.83	-0.76	17.24	
5,729.0	0.53	46.75	5,123.1	2,151.7	1,679.1	1,345.6	0.33	-0.30	-10.58	
5,814.0	0.09	132.97	5,208.1	2,152.1	1,679.3	1,345.9	0.63	-0.52	101.44	
5,900.0	1.41	90.56	5,294.1	2,152.8	1,679.3	1,347.0	1.56	1.53	-49.31	
5,985.0	1.58	111.22	5,379.1	2,153.7	1,678.8	1,349.1	0.66	0.20	24.31	
6,070.0	1.32	117.02	5,464.0	2,154.3	1,678.0	1,351.1	0.35	-0.31	6.82	
6,156.0	1.41	124.14	5,550.0	2,154.6	1,676.9	1,352.9	0.22	0.10	8.28	
6,241.0	1.80	136.93	5,635.0	2,154.5	1,675.4	1,354.6	0.62	0.46	15.05	
6,326.0	0.88	81.07	5,720.0	2,154.8	1,674.5	1,356.2	1.76	-1.08	-65.72	
6,412.0	2.29	355.07	5,805.9	2,156.5	1,676.3	1,356.7	2.79	1.64	-100.00	

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6,497.0	2.11	358.59	5,890.9	2,158.9	1,679.6	1,356.5	0.26	-0.21	4.14	
6,583.0	1.54	348.13	5,976.8	2,160.9	1,682.3	1,356.2	0.77	-0.66	-12.16	
6,668.0	1.45	346.24	6,061.8	2,162.2	1,684.4	1,355.8	0.12	-0.11	-2.22	
6,754.0	1.01	341.27	6,147.8	2,163.3	1,686.2	1,355.3	0.53	-0.51	-5.78	
6,839.0	0.79	302.03	6,232.8	2,163.7	1,687.2	1,354.5	0.75	-0.26	-46.16	
6,924.0	0.66	307.08	6,317.8	2,163.6	1,687.8	1,353.6	0.17	-0.15	5.94	
7,010.0	0.79	302.91	6,403.8	2,163.5	1,688.5	1,352.7	0.16	0.15	-4.85	
7,095.0	0.98	281.58	6,488.7	2,163.1	1,688.9	1,351.5	0.44	0.22	-25.09	
7,181.0	0.98	275.11	6,574.7	2,162.4	1,689.1	1,350.1	0.13	0.00	-7.52	
7,241.0	0.92	276.89	6,634.7	2,161.8	1,689.2	1,349.1	0.11	-0.10	2.97	
7,298.0	0.92	276.89	6,691.7	2,161.4	1,689.3	1,348.2	0.00	0.00	0.00	

Checked By: _____	Approved By: _____	Date: _____
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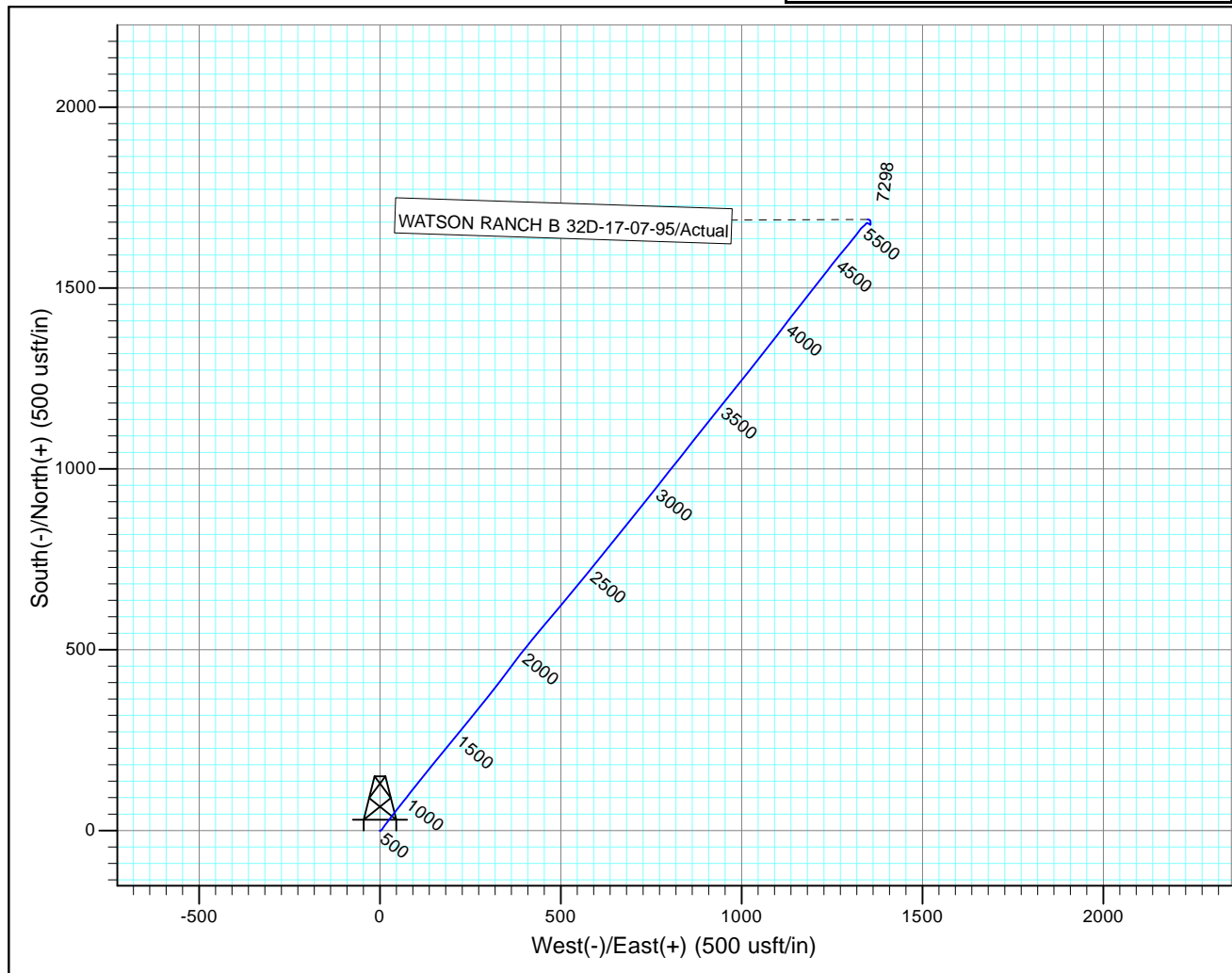
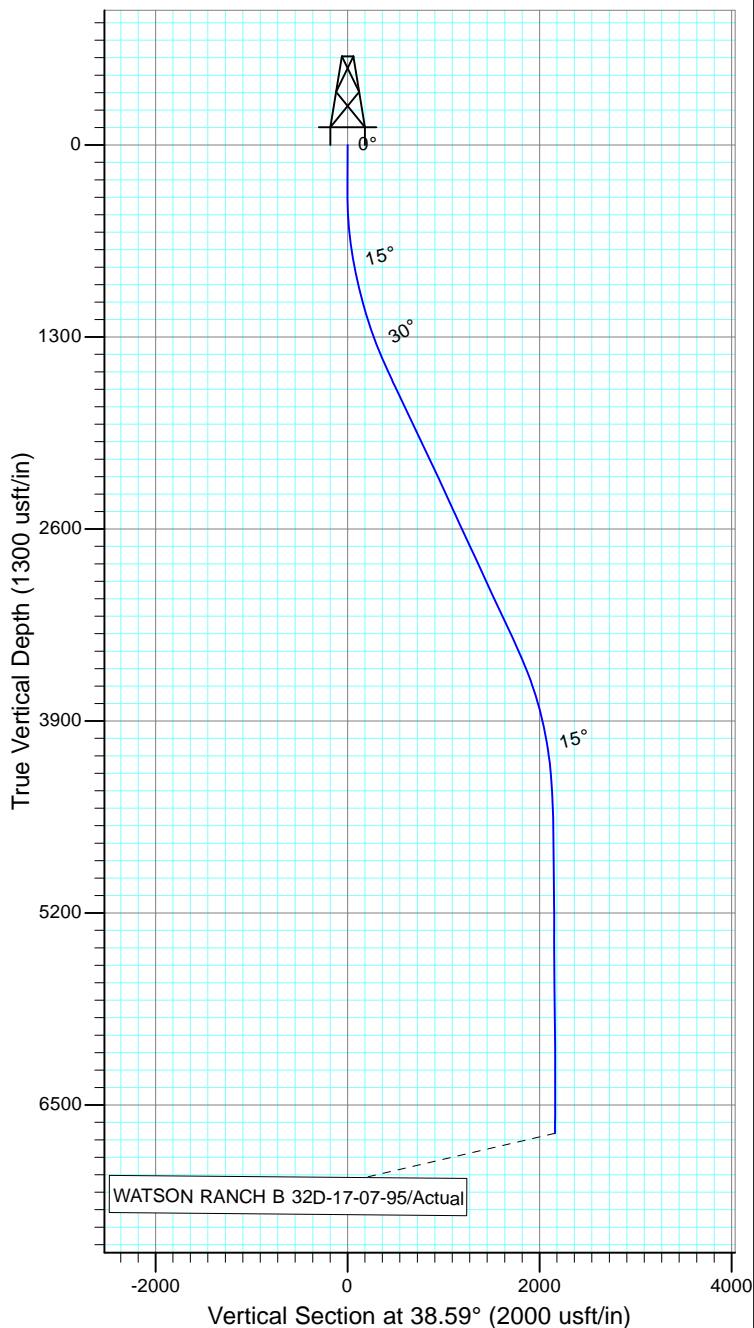


Project: Rockies Region
 Site: Watson Ranch B
 Well: WATSON RANCH B 32D-17-07-95
 Wellbore: Wellbore #1
 Design: Actual



Azimuths to True North
 Magnetic North: 9.88°

Magnetic Field
 Strength: 51841.1nT
 Dip Angle: 65.58°
 Date: 3/3/2015
 Model: IGRF2010



Design: Actual (WATSON RANCH B 32D-17-07-95/Wellbore #1)

Created By: *Matthew Linton*

Date: 13:18, April 14 2015

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



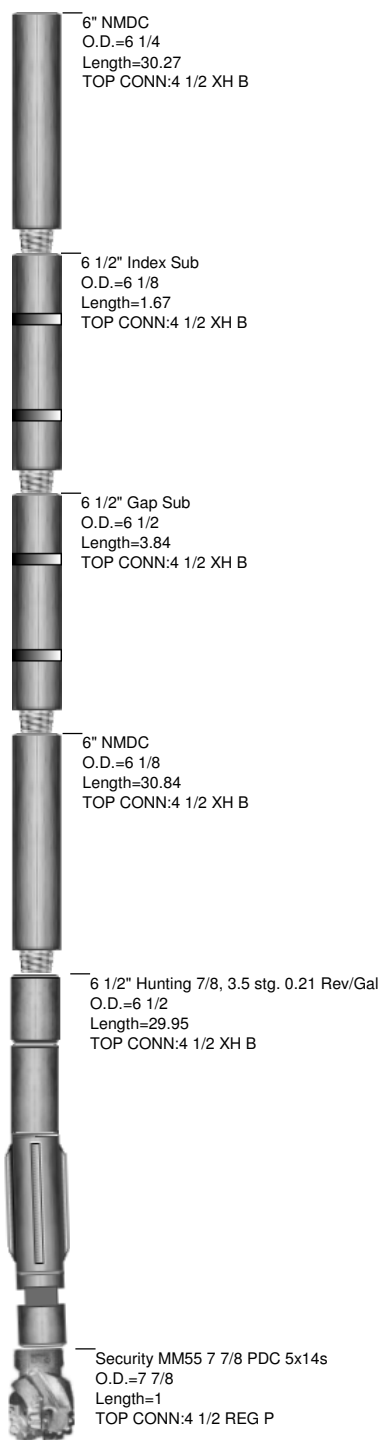
Well Information

BHA #

1

JOB NO.:	CO15521	FIELD:	Battlement Mesa
Company:	URSA Operating Co.	Township:	7S
LOCATION:	Watson Pad	SECT/RANGE:	17
RIG NAME:	Capstar 321		95W
STATE:	CO		
COUNTY:	Garfield	BHA TYPE	Steerable Assembly
WELL NAME:	Watson Ranch B 32D-17-07-95		

Maintain 35.50° Inc. @ 38.63° Azi. to TVD of 3450' then drop back to vertical @ 3.0°/100' drilled & stay in target to TD.





JOB NO.: CO15521
Company: URSA Operating Co.
LOCATION: Watson Pad
RIG NAME: Capstar 321
STATE: CO
COUNTY: Country
WELL NAME: Watson Ranch B 32D-17-07-95

FIELD: Battlement Mesa
Township: 7S
Range 95W

MOTOR INFORMATION

Desc: Fixed 1.5,7/8,3.5,.21
Bent Hsg/Sub: 1.5 / 0 **Bit to Bend:** 6
Pad OD: 6 5/8 **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	10-Apr	Drilling	23:20	23:25	0.08	1868	1878	10	15	120.0	45	1625	330	615		35.93	36.76	0.76	
1	11-Apr	Drilling	00:15	00:45	0.50	1878	1943	65	25	130.0	50	8300	460	1290		36.04	37.13	0.54	
1	11-Apr	Sliding	01:00	01:05	0.08	1943	1953	10	25	120.0	50	8300	460	1290	40R	36.07	37.21	0.54	
1	11-Apr	Drilling	01:05	01:35	0.50	1953	2028	75	25	150.0	50	8300	460	1290		36.03	38.82	1.52	
1	11-Apr	Sliding	01:40	01:45	0.08	2028	2040	12	25	144.0	50	8300	460	1290	50R	36.01	39.13	1.52	
1	11-Apr	Drilling	01:45	02:05	0.33	2040	2113	73	25	219.0	50	8300	460	1290		36.75	39.95	1.39	
1	11-Apr	Sliding	02:10	02:15	0.08	2113	2128	15	25	180.0	50	8300	460	1290		36.94	40.06	1.39	
1	11-Apr	Drilling	02:15	02:45	0.50	2128	2199	71	25	142.0	50	8300	460	1290		36.77	40.03	0.65	
1	11-Apr	Drilling	02:50	03:10	0.33	2199	2284	85	25	255.0	50	8300	460	1290		36.03	39.82	1.00	
1	11-Apr	Drilling	03:15	03:40	0.42	2284	2370	86	25	206.4	50	8300	460	1290		36.08	39.79	0.60	
1	11-Apr	Sliding	04:00	04:05	0.08	2370	2382	12	25	144.0	50	8300	460	1290		36.15	39.80	0.60	
1	11-Apr	Drilling	04:05	04:30	0.42	2382	2455	73	25	175.2	50	8300	460	1290		35.19	39.58	1.87	
1	11-Apr	Drilling	04:35	04:50	0.25	2455	2498	43	25	172.0	50	8300	460	1290		34.70	39.39	0.34	
1	11-Apr	Sliding	04:55	05:00	0.08	2498	2513	15	25	180.0	50	8300	460	1290	20L	34.73	39.32	0.34	
1	11-Apr	Drilling	05:00	05:04	0.07	2513	2540	27	25	405.0	50	8300	460	1290		34.79	39.19	0.34	
1	11-Apr	Drilling	05:10	05:34	0.40	2540	2626	86	25	215.0	50	8300	460	1600		35.20	38.24	1.03	
1	11-Apr	Sliding	05:43	05:49	0.10	2626	2644	18	25	180.0	50	8300	460	1600	15L	35.31	37.98	1.03	
1	11-Apr	Drilling	05:49	06:12	0.38	2644	2711	67	25	174.8	50	8300	460	1600		35.95	38.53	1.24	
1	11-Apr	Sliding	06:19	06:24	0.08	2711	2726	15	25	180.0	50	10000	460	1600	10R	36.11	38.71	1.24	
1	11-Apr	Drilling	06:24	06:48	0.40	2726	2797	71	25	177.5	50	10000	460	1600		35.55	38.88	1.24	
1	11-Apr	Drilling	06:52	07:17	0.42	2797	2882	85	25	204.0	50	10000	460	1600		35.67	38.77	0.83	
1	11-Apr	Sliding	07:23	07:29	0.10	2882	2897	15	25	150.0	50	10000	460	1600	10L	35.79	38.74	0.83	
1	11-Apr	Drilling	07:29	07:52	0.38	2897	2967	70	25	182.6	50	10000	460	1600		35.42	38.45	0.89	
1	11-Apr	Drilling	07:58	08:28	0.50	2967	3053	86	25	172.0	50	10000	460	1600		35.69	38.31	0.92	
1	11-Apr	Sliding	08:31	08:37	0.10	3053	3068	15	25	150.0	50	10000	460	1600	0G	35.83	38.31	0.92	
1	11-Apr	Drilling	08:37	09:04	0.45	3068	3138	70	25	155.6	50	10000	460	1600		35.59	38.31	0.63	

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	11-Apr	Drilling	09:14	09:44	0.50	3138	3224	86	25	172.0	50	10000	460	1600		34.83	38.02	1.07	
1	11-Apr	Drilling	09:48	10:18	0.50	3224	3309	85	25	170.0	50	10000	460	1600		35.21	38.23	1.23	
1	11-Apr	Sliding	10:21	10:27	0.10	3309	3326	17	25	170.0	50	10000	460	1600	15R	35.41	38.34	1.23	
1	11-Apr	Drilling	10:27	10:48	0.35	3326	3395	69	25	197.1	50	10000	460	1600		36.08	38.94	1.07	
1	11-Apr	Sliding	10:57	11:02	0.08	3395	3410	15	25	180.0	50	10000	460	1600	0G	36.22	39.07	1.07	
1	11-Apr	Drilling	11:02	11:27	0.42	3410	3480	70	25	168.0	50	10000	460	1600		35.73	38.87	1.12	
1	11-Apr	Drilling	11:30	11:43	0.22	3480	3523	43	25	198.5	50	10000	460	1600		35.53	38.73	0.78	
1	11-Apr	Drilling	12:33	12:47	0.23	3523	3566	43	25	184.3	50	10000	460	1600		35.86	38.80	0.78	
1	11-Apr	Sliding	12:51	12:57	0.10	3566	3581	15	25	150.0	50	10000	460	1600	0G	35.98	38.82	0.78	
1	11-Apr	Drilling	12:57	13:28	0.52	3581	3651	70	25	135.5	50	10000	460	1600		35.55	38.93	0.93	
1	11-Apr	Drilling	13:31	14:03	0.53	3651	3736	85	25	159.4	50	10000	460	1600		35.67	37.99	1.20	
1	11-Apr	Sliding	14:08	14:16	0.13	3736	3754	18	25	135.0	50	11000	460	1800	0G	35.79	37.69	1.20	
1	11-Apr	Drilling	14:16	14:43	0.45	3754	3821	67	25	148.9	50	11000	460	1800		35.40	37.35	0.83	
1	11-Apr	Drilling	14:54	15:08	0.23	3821	3864	43	25	184.3	50	11000	460	1800		35.05	37.42	1.03	
1	11-Apr	Sliding	15:11	15:14	0.05	3864	3869	5	25	100.0	50	11000	460	1800	60R	35.01	37.48	1.03	
1	11-Apr	Drilling	15:14	15:29	0.25	3869	3907	38	25	152.0	50	11000	460	1800		34.72	37.93	1.03	
1	11-Apr	Drilling	15:32	16:01	0.48	3907	3992	85	25	175.9	50	11000	460	1800		33.71	37.96	1.42	
1	11-Apr	Drilling	16:06	16:37	0.52	3992	4078	86	25	166.5	50	11000	460	1900		32.25	38.19	1.90	
1	11-Apr	Drilling	16:41	17:15	0.57	4078	4163	85	25	150.0	50	11000	460	1900		29.95	37.92	3.15	
1	11-Apr	Sliding	17:20	17:25	0.08	4163	4173	10	25	120.0	50	11000	460	1900	180	29.64	37.83	3.15	
1	11-Apr	Drilling	17:25	18:00	0.58	4173	4249	76	25	130.3	50	11000	460	1900		27.51	38.11	2.72	
1	11-Apr	Sliding	18:05	18:10	0.08	4249	4261	12	25	144.0	50	11000	460	1900	150R	27.19	38.22	2.72	
1	11-Apr	Drilling	18:10	18:40	0.50	4261	4334	73	25	146.0	50	11000	460	1900		24.87	38.02	3.32	
1	11-Apr	Sliding	18:45	18:50	0.08	4334	4349	15	25	180.0	50	11000	460	1900	180	24.37	37.92	3.32	
1	11-Apr	Drilling	18:50	19:30	0.67	4349	4420	71	25	106.5	50	11000	460	1900		21.96	38.31	3.43	
1	11-Apr	Sliding	19:35	19:40	0.08	4420	4434	14	25	168.0	50	11000	460	1900	170R	21.49	38.44	3.43	
1	11-Apr	Drilling	19:40	20:20	0.67	4434	4505	71	25	106.5	50	11000	460	1900		19.08	38.73	3.39	
1	11-Apr	Sliding	20:25	20:30	0.08	4505	4518	13	25	156.0	50	11000	460	1900	180	18.64	38.77	3.39	
1	11-Apr	Drilling	20:30	21:00	0.50	4518	4590	72	25	144.0	50	11000	460	1900		16.37	39.35	3.11	
1	11-Apr	Sliding	21:05	21:10	0.08	4590	4602	12	25	144.0	50	11000	460	1900	180	16.00	39.48	3.11	
1	11-Apr	Drilling	21:10	21:40	0.50	4602	4676	74	25	148.0	50	11000	460	1900		13.67	39.54	3.15	
1	11-Apr	Sliding	21:45	21:50	0.08	4676	4688	12	25	144.0	50	11000	460	1900	170L	13.29	39.51	3.15	
1	11-Apr	Drilling	21:50	22:25	0.58	4688	4761	73	25	125.1	50	11000	460	1900		11.07	39.83	3.01	
1	11-Apr	Sliding	22:30	22:40	0.17	4761	4773	12	25	72.0	50	11000	460	1900	170L	10.71	39.93	3.01	
1	11-Apr	Drilling	22:40	23:10	0.50	4773	4847	74	25	148.0	50	11000	460	1900		8.65	37.97	2.79	

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	11-Apr	Sliding	23:15	23:20	0.08	4847	4859	12	25	144.0	50	11000	460	1900	150L	8.32	37.43	2.79	
1	11-Apr	Drilling	23:20	23:45	0.42	4859	4932	73	25	175.2	50	11000	460	1900		6.11	35.81	3.14	
1	11-Apr	Sliding	23:50	24:00	0.17	4932	4946	14	25	84.0	50	11000	460	1900	180	5.67	35.52	3.14	
1	12-Apr	Drilling	00:00	00:25	0.42	4946	5017	71	25	170.4	50	11000	460	1900		3.64	43.00	2.98	
1	12-Apr	Sliding	00:30	00:40	0.17	5017	5032	15	25	90.0	50	11000	460	1900	150R	3.24	46.30	2.98	
1	12-Apr	Drilling	00:40	01:05	0.42	5032	5103	71	25	170.4	50	11000	460	2000		2.54	50.76	0.60	
1	12-Apr	Drilling	01:10	01:40	0.50	5103	5188	85	25	170.0	50	11000	460	2000		2.05	49.01	0.58	
1	12-Apr	Drilling	01:45	02:15	0.50	5188	5273	85	25	170.0	50	11000	460	2000		1.52	45.60	0.66	
1	12-Apr	Drilling	02:20	03:05	0.75	5273	5359	86	25	114.7	50	11000	460	2000		1.12	44.22	0.38	
1	12-Apr	Drilling	03:10	03:45	0.58	5359	5444	85	25	145.7	50	11000	460	2000		0.69	39.09	0.58	
1	12-Apr	Drilling	03:50	04:40	0.83	5444	5530	86	25	103.2	50	11000	460	2000		1.14	40.10	1.08	
1	12-Apr	Sliding	04:45	04:55	0.17	5530	5542	12	25	72.0	50	11000	460	2000	50M	1.27	40.64	1.08	
1	12-Apr	Drilling	04:55	05:42	0.78	5542	5615	73	25	93.2	50	11000	460	2000		1.00	48.93	0.83	
1	12-Apr	Drilling	05:46	06:41	0.92	5615	5700	85	25	92.7	50	11000	460	2000		0.62	50.67	0.33	
1	12-Apr	Drilling	06:44	07:36	0.87	5700	5786	86	25	99.2	50	13000	460	2000		0.19	65.39	0.63	
1	12-Apr	Drilling	07:40	08:27	0.78	5786	5871	85	25	108.5	50	13000	460	2000		0.96	91.79	1.56	
1	12-Apr	Sliding	08:31	08:45	0.23	5871	5891	20	25	85.7	50	13000	460	2000	50M	1.27	90.85	1.56	
1	12-Apr	Drilling	08:45	09:42	0.95	5891	5957	66	25	69.5	50	13000	460	2000		1.50	104.96	0.66	
1	12-Apr	Drilling	09:47	10:30	0.72	5957	6042	85	25	118.6	50	13000	460	2000		1.40	114.87	0.35	
1	12-Apr	Drilling	10:33	11:29	0.93	6042	6127	85	25	91.1	50	13000	460	2000		1.38	121.84	0.22	
1	12-Apr	Drilling	11:32	11:54	0.37	6127	6170	43	25	117.3	50	13000	460	2000		1.47	126.70	0.62	
1	12-Apr	Drilling	12:06	12:29	0.38	6170	6213	43	25	112.2	50	13000	460	2000		1.66	133.39	0.62	
1	12-Apr	Drilling	12:32	13:20	0.80	6213	6298	85	25	106.3	50	13000	460	2000		1.05	109.07	1.76	
1	12-Apr	Sliding	14:18	14:35	0.28	6298	6318	20	25	70.6	50	14000	460	2200	340M	0.90	90.00	1.76	
1	12-Apr	Drilling	14:35	15:22	0.78	6318	6383	65	25	83.0	50	14000	460	2200		1.57	5.96	2.79	
1	12-Apr	Sliding	15:27	15:39	0.20	6383	6404	21	25	105.0	50	14000	460	2200	340M	2.08	357.32	2.79	
1	12-Apr	Drilling	15:39	16:20	0.68	6404	6469	65	25	95.1	50	14000	460	2200		2.17	357.37	0.26	
1	12-Apr	Drilling	16:24	17:15	0.85	6469	6554	85	25	100.0	50	14000	460	2200		1.73	352.42	0.77	
1	12-Apr	Drilling	17:20	18:10	0.83	6554	6640	86	25	103.2	50	14000	460	2200		1.48	346.89	0.12	
1	12-Apr	Drilling	18:15	19:10	0.92	6640	6725	85	25	92.7	50	14000	460	2200		1.16	343.37	0.53	
1	12-Apr	Drilling	19:15	20:05	0.83	6725	6811	86	25	103.2	50	14000	460	2200		0.82	316.99	0.75	
1	12-Apr	Drilling	20:10	21:20	1.17	6811	6896	85	25	72.9	50	14000	460	2200		0.70	305.21	0.17	
1	12-Apr	Drilling	21:25	22:30	1.08	6896	6981	85	25	78.5	50	14000	460	2200		0.75	304.15	0.16	
1	12-Apr	Drilling	22:35	23:50	1.25	6981	7067	86	25	68.8	50	14000	460	2200		0.90	287.59	0.44	
1	12-Apr	Drilling	23:55	24:00	0.08	7067	7071	4	25	48.0	50	14000	460	2200		0.91	286.67	0.44	

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	13-Apr	Drilling	00:00	01:05	1.08	7071	7152	81	25	74.8	50	14000	460	2200		0.98	277.29	0.13	
1	13-Apr	Drilling	01:10	02:10	1.00	7152	7238	86	25	86.0	50	14000	460	2200		0.92	276.80	0.11	
1	13-Apr	Drilling	02:15	03:15	1.00	7238	7298	60	25	60.0	50	14000	460	2200		0.92	276.89	0.00	

Total Drilled: 5430 **Avg. Total ROP:** 122.99 **DEPTH% - TIME %**

Total Rotary Drilled: 5019 **Avg. Rotary ROP:** 122.91 **Percent Rotary:** 92.43 - 92.49

Total Drilled Sliding: 411 **Avg. Slide ROP:** 123.92 **Percent Slide:** 7.57 - 7.51



JOB NO.:	CO15521
Company:	URSA Operating Co.
LOCATION:	Watson Pad
RIG NAME:	Capstar 321
STATE:	CO
COUNTY:	USA
WELL NAME:	Watson Ranch B 32D-17-07-95

FIELD:	Battlement Mesa	
Township:	7S	
SECT\ RANGE:	17	95W

Tool Utilization Report

Bits

12660207 - Security MM55 7 7/8 PDC 5x14s

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00

<< Summary for 12660207

<< Summary for Bits

DC

ATM-64-658 - 6" NMDC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00

<< Summary for ATM-64-658

ATM-64-660 - 6" NMDC

BHA #	Rotary Hours	Slide Hours	Total Hours	Circ. Hours	Below Rotary	Amount Drilled
1	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00
2	80.17	6.63	93.43	93.60	125.00	10,860.00

<< Summary for ATM-64-660

<< Summary for DC

Motors

6023 - 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	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00

<< Summary for 6023

<< 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	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00

<< 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	40.08	3.32	46.72	46.80	62.50	5,430.00
1	40.08	3.32	46.72	46.80	62.50	5,430.00
2	80.17	6.63	93.43	93.60	125.00	10,860.00

<< Summary for PZD IS 611

<< Summary for MWD



JOB NO.: CO15521
Company: URSA Operating Co.
LOCATION: Watson Pad
RIG NAME: Capstar 321
STATE: CO
COUNTY: Garfield
WELL NAME: Watson Ranch B 32D-17-07-95

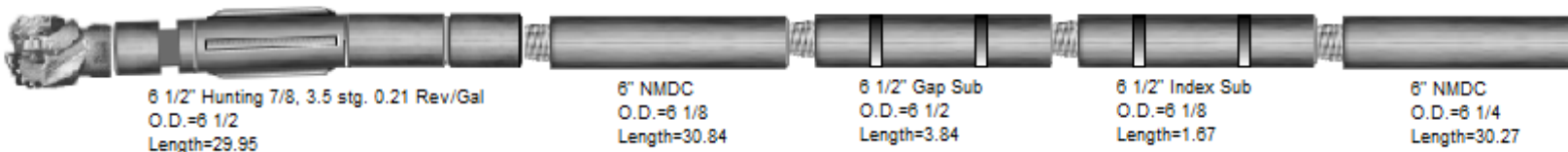
FIELD: Battlement Mesa
Township: 7S
SECT\ RANGE: 17 95W

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		Rate	IN	OUT	IN	OUT	SO	PU	RAB
1	10-Apr-15 @ 20:00	13-Apr-15 @ 10:30	62.50	1868.0	7298.0	5019.0	411.0	5430.0	125.12	125.2	123.9	30-50	330-460	.0	.0	.0	.0	55-100	57-150	57-125
				Hours>		40.08	3.32	43.40												

Security MM55 7 7/8 PDC 5x14s
 O.D.=7 7/8
 Length=1





Well Information

BHA # 1

JOB NO.: CO15521
Company: URSA Operating Co.
LOCATION: Watson Pad
RIG NAME: Capstar 321
STATE: CO
COUNTY: Garfield

FIELD: Battlement Mesa
Township: 7S
SECT. RANGE: 17 95W
Lead DD: Stephen Pickering
Co. Man: Richard McNeill
BHA TYPE: Steerable Assembly

WELL NAME: Watson Ranch B 32D-17-07-95

BHA Summary Information

TIME IN - OUT		Rotary Hours		40.83	Start Depth		1868.00	RPM	Flow	
Start Time	End Time	Circ Hrs Tot/Only		48.47 / 4.32	End Depth		7298.00	Range	Rate	
10-Apr-15 @ 20:00	13-Apr-15 @ 10:30	Slide Hours		3.32	Percent Rotary:		92.43	30 -50	330 -460	
		Below Rotary Hrs.		62.50	Percent Slide:		7.57			
Total Drilled:		5430.00	Avg. Total ROP:		122.99	Incl.	Azimuth			
Total Rotary Drilled:		5019.00	Avg. Rotary ROP:		122.91	IN	OUT	IN	OUT	
Total Drilled Sliding:		411.00	Avg. Slide ROP:		123.92	.0	.0	.00	.00	
SPP	615 -2200	Weights	SO	55 -100	PU	57 -150	RAB	57 -125	Reason POOH	TD

Bit Data								MOTOR DATA						Mud Data					
Security		Security MM55 7 7/8 PDC 5x14s						Fixed 1.5,7/8,3.5,.21						Type	LSND				
Type Bit				PDC				Model: Arrow				Pad OD		WT 9.55		GAS 0		Solids 7.2	
TFA		0.751						MFG. Hunting						6 5/8		Vis 42		SAND 0.25	
JETS			14	14	14	14	14	Bend ° 1.5		Stator/Rotor 7/8		PV 16		PH 9.8		Chlor 900			
			0	0	0	0	0	Bit to Bend 6		Motor Diff		YP 13		WL 6		Oil % 0			
Bit Coding				IADC#					Rev/GAL 0.21						BHT ° 0				
IR	OR	DL	Loc	BS	G	ODL	NB Stab 0				PUMPS		PUMP1		PUMP1				
1	1	CT	N	X	1		Rotor Jet 0				NAME		Gardner Denver		Gardner Denver				
Bit Drop:			330 PSI @ 460 GPM					Sensor Offsets				Model		PZ-9		PZ-9			
Comments						57		Sonic 0				Type		Triplex		Triplex			
				Gamma		0		DNCS 1868				Liner		6.50		6.50			
				Restiv		0		GYRO 0				Stroke		9.00		9.00			
												Efficiency		95.00		95.00			

Maintain 35.50° Inc. @ 38.63° Azi. to TVD of 3450' then drop back to vertical @ 3.0°/100' drilled & stay in target to TD.

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	Security MM55 7 7/8 PDC 5x14s	12660207	.751	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	6023	2	6 1/2	29.95	30.95	4 1/2 XHB
3	6" NMDC	ATM-64-660	2 7/8	6 1/8	30.84	61.79	4 1/2 XHB
4	6 1/2" Gap Sub	PZD GS 606	2 3/4	6 1/2	3.84	65.63	4 1/2 XHB
5	6 1/2" Index Sub	PZD IS 611	2 7/8	6 1/8	1.67	67.30	4 1/2 XHB
6	6" NMDC	ATM-64-658	2 7/8	6 1/4	30.27	97.57	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 1/8
Length=30.84
FN=n/a

6 1/2" Hunting 7/8, 3.5 stg. 0.21 Rev/G
O.D.=6 1/2
Length=29.95
FN=1.27

Security MM55 7 7/8 PDC 5x14s
O.D.=7 7/8
Length=1
FN=n/a



JOB NO.:	CO15521	Report Time:	2400	1 of 4
Company:	URSA Operating Co.	API JOB #	05-045-22804-00	
LOCATION:	Watson Pad	WORK ORDER#	CO15521	
RIG NAME:	Capstar 321	FIELD:	Battlement Mesa	
STATE:	CO	Township:	7S	
COUNTY:	Garfield	SECT RANGE:	17	95W
WELL NAME:	Watson Ranch B 32D-17-07-95			

From Friday, April 10, 2015 at 0000 to Friday, April 10, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	1868.00	Rotary Hours	0.83	WOB	15	Pick UP	57	Slack Off	57	SPM	
End Depth	1878.00	Circulating Hours	0.25	RAB	57	SPP	615	FlowRate	0 - 330	90	
Total Drilled:	10.00	Avg. Total ROP:	12.00	Mud Data							
Total Rotary Drilled:	10.00	Avg. Rotary ROP:	12.00	Type	LSND	PV	18	SOLID	1.7		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	8.6	GAS	0	YP	17	BHT°	0
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	55	SAND	0	PH	10.8	Flow T°	0
Below Rotary Hrs.	8.50	Percent Slide:	.00	Chlorides	900	WL	6	Oil %	0		

PERSONNEL						CASING			BHA
Lead Directional :		Stephen Pickering				Size	Lb/ft	Set Depth	BHA # 1:Security MM55 7 7/8 PDC 5x14s, 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	1850	
MWD Operator1		Colin Chudy				Signature: <div></div>			
MWD Operator2									
Directional Company:		Payzone							
Geologist:									
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
10-Apr-15	00:00	11:00	11.00	1868	1868	Standby	Move rig,Rig up
10-Apr-15	11:00	15:30	4.50	1868	1868	Test BOPS	Test BOPS
10-Apr-15	15:30	18:30	3.00	1868	1868	Other	Set Racks and load Pipe
10-Apr-15	18:30	19:00	0.50	1868	1868	Other	Install Wear Ring
10-Apr-15	19:00	20:00	1.00	1868	1868	Change BHA	Pick up Directional Tools
10-Apr-15	20:00	22:35	2.58	1868	1868	TIH	TIH tag Cement @ 1800
10-Apr-15	22:35	23:20	0.75	1868	1868	Drilling Cement	Drilling - (WOB:10;GPM :330;RPM:40)
10-Apr-15	23:20	23:25	0.08	1868	1878	Drilling	Drilling - (WOB:15;GPM :330;RPM:45)
10-Apr-15	23:25	23:40	0.25	1878	1878	Circulating	Circulating
10-Apr-15	23:40	24:00	0.33	1878	1878	Other	F.I.T



JOB NO.:	CO15521	Report Time:	2400	2 of 4
Company:	URSA Operating Co.	API JOB #	05-045-22804-00	
LOCATION:	Watson Pad	WORK ORDER#	CO15521	
RIG NAME:	Capstar 321	FIELD:	Battlement Mesa	
STATE:	CO	Township:	7S	
COUNTY:	Garfield	SECT RANGE:	17	95W
WELL NAME:	Watson Ranch B 32D-17-07-95			

From Saturday, April 11, 2015 at 0000 to Saturday, April 11, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	1878.00	Rotary Hours	16.93	WOB	25	Pick UP	100	Slack Off	70	SPM	
End Depth	4946.00	Circulating Hours	1.37	RAB	85	SPP	1900	FlowRate	330 - 460	125	
Total Drilled:	3068.00	Avg. Total ROP:	159.79	Mud Data							
Total Rotary Drilled:	2745.00	Avg. Rotary ROP:	162.11	Type	LSND	PV	20	SOLID	3.2		
Total Drilled Sliding:	323.00	Avg. Slide ROP:	142.50	Weight	8.8	GAS	0	YP	14	BHT°	0
Slide Hours:	2.27	Percent Rotary:	89.47	Viscosity	48	SAND	0.25	PH	9.2	Flow T°	90
Below Rotary Hrs.	24.00	Percent Slide:	10.53	Chlorides	1000	WL	5.75	Oil %	0		

PERSONNEL						CASING			BHA
Lead Directional :		Stephen Pickering				Size	Lb/ft	Set Depth	BHA # 1:Security MM55 7 7/8 PDC 5x14s, 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	1850	
MWD Operator1		Colin Chudy				Signature: <div></div>			
MWD Operator2									
Directional Company:		Payzone							
Geologist:									
Company Man:		Richard Mcneill							
Incl. In:	35.89	Azm. In:	36.68	Incl. Out:	7.89	Azm. Out:	36.64		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Apr-15	00:00	00:15	0.25	1878	1878	Other	F.I.T.
11-Apr-15	00:15	00:45	0.50	1878	1943	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
11-Apr-15	00:45	01:00	0.25	1943	1943	Survey & Conn.	Survey & Conn.@1886' Inc 35.89° Azm 36.68°
11-Apr-15	01:00	01:05	0.08	1943	1953	Sliding	Sliding - (WOB:25;GPM :460;TFO:40R))
11-Apr-15	01:05	01:35	0.50	1953	2028	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
11-Apr-15	01:35	01:40	0.08	2028	2028	Survey & Conn.	Survey & Conn.@1971' Inc 36.12° Azm 37.35°
11-Apr-15	01:40	01:45	0.08	2028	2040	Sliding	Sliding - (WOB:25;GPM :460;TFO:50R))
11-Apr-15	01:45	02:05	0.33	2040	2113	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
11-Apr-15	02:05	02:10	0.08	2113	2113	Survey & Conn.	Survey & Conn.@2056' Inc 35.99° Azm 39.54°
11-Apr-15	02:10	02:15	0.08	2113	2128	Sliding	Sliding - (WOB:25;GPM :460;TFO:0))
11-Apr-15	02:15	02:45	0.50	2128	2199	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
11-Apr-15	02:45	02:50	0.08	2199	2199	Survey & Conn.	Survey & Conn.@2142' Inc 37.13° Azm 40.16°
11-Apr-15	02:50	03:10	0.33	2199	2284	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
11-Apr-15	03:10	03:15	0.08	2284	2284	Survey & Conn.	Survey & Conn.@2227' Inc 36.59° Azm 39.97°
11-Apr-15	03:15	03:40	0.42	2284	2370	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
11-Apr-15	03:40	03:55	0.25	2370	2370	Circulating	Circulating
11-Apr-15	03:55	04:00	0.08	2370	2370	Survey & Conn.	Survey & Conn.@2313' Inc 35.74° Azm 39.74°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Apr-15	04:00	04:05	0.08	2370	2382	Sliding	Sliding - (WOB:25;GPM :460;TFO:0))
11-Apr-15	04:05	04:30	0.42	2382	2455	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	04:30	04:35	0.08	2455	2455	Survey & Conn.	Survey & Conn.@2398' Inc 36.25° Azm 39.81°
11-Apr-15	04:35	04:50	0.25	2455	2498	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	04:50	04:55	0.08	2498	2498	Connection	Connection
11-Apr-15	04:55	05:00	0.08	2498	2513	Sliding	Sliding - (WOB:25; :460;TFO:20L))
11-Apr-15	05:00	05:04	0.07	2513	2540	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	05:04	05:10	0.10	2540	2540	Survey & Conn.	Survey & Conn.@2483' Inc 34.67° Azm 39.46°
11-Apr-15	05:10	05:34	0.40	2540	2626	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	05:34	05:43	0.15	2626	2626	Survey & Conn.	Survey & Conn.@2569' Inc 34.85° Azm 39.06°
11-Apr-15	05:43	05:49	0.10	2626	2644	Sliding	Sliding - (WOB:25; :460;TFO:15L))
11-Apr-15	05:49	06:12	0.38	2644	2711	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	06:12	06:19	0.12	2711	2711	Survey & Conn.	Survey & Conn.@2654' Inc 35.37° Azm 37.84°
11-Apr-15	06:19	06:24	0.08	2711	2726	Sliding	Sliding - (WOB:25; :460;TFO:10R))
11-Apr-15	06:24	06:48	0.40	2726	2797	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	06:48	06:52	0.07	2797	2797	Survey & Conn.	Survey & Conn.@2740' Inc 36.25° Azm 38.88°
11-Apr-15	06:52	07:17	0.42	2797	2882	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	07:17	07:23	0.10	2882	2882	Survey & Conn.	Survey & Conn.@2825' Inc 35.2° Azm 38.88°
11-Apr-15	07:23	07:29	0.10	2882	2897	Sliding	Sliding - (WOB:25; :460;TFO:10L))
11-Apr-15	07:29	07:52	0.38	2897	2967	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	07:52	07:58	0.10	2967	2967	Survey & Conn.	Survey & Conn.@2910' Inc 35.9° Azm 38.71°
11-Apr-15	07:58	08:28	0.50	2967	3053	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	08:28	08:31	0.05	3053	3053	Survey & Conn.	Survey & Conn.@2996' Inc 35.17° Azm 38.32°
11-Apr-15	08:31	08:37	0.10	3053	3068	Sliding	Sliding - (WOB:25; :460;TFO:0G))
11-Apr-15	08:37	09:04	0.45	3068	3138	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	09:04	09:11	0.12	3138	3138	Circulating	Circulating
11-Apr-15	09:11	09:14	0.05	3138	3138	Survey & Conn.	Survey & Conn.@3081' Inc 35.95° Azm 38.31°
11-Apr-15	09:14	09:44	0.50	3138	3224	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	09:44	09:48	0.07	3224	3224	Survey & Conn.	Survey & Conn.@3167' Inc 35.41° Azm 38.31°
11-Apr-15	09:48	10:18	0.50	3224	3309	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	10:18	10:21	0.05	3309	3309	Survey & Conn.	Survey & Conn.@3252' Inc 34.54° Azm 37.87°
11-Apr-15	10:21	10:27	0.10	3309	3326	Sliding	Sliding - (WOB:25; :460;TFO:15R))
11-Apr-15	10:27	10:48	0.35	3326	3395	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	10:48	10:53	0.08	3395	3395	Circulating	Circulating
11-Apr-15	10:53	10:57	0.07	3395	3395	Survey & Conn.	Survey & Conn.@3338' Inc 35.55° Azm 38.41°
11-Apr-15	10:57	11:02	0.08	3395	3410	Sliding	Sliding - (WOB:25; :460;TFO:15R))
11-Apr-15	11:02	11:27	0.42	3410	3480	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	11:27	11:30	0.05	3480	3480	Survey & Conn.	Survey & Conn.@3423' Inc 36.34° Azm 39.19°
11-Apr-15	11:30	11:43	0.22	3480	3523	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	11:43	12:30	0.78	3523	3523	Rig Service-Inhole	Rig Service-Inhole
11-Apr-15	12:30	12:33	0.05	3523	3523	Survey & Conn.	Survey & Conn.@3423' Inc 36.34° Azm 39.19°
11-Apr-15	12:33	12:47	0.23	3523	3566	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	12:47	12:51	0.07	3566	3566	Survey & Conn.	Survey & Conn.@3509' Inc 35.42° Azm 38.71°
11-Apr-15	12:51	12:57	0.10	3566	3581	Sliding	Sliding - (WOB:25; :460;TFO:0G))
11-Apr-15	12:57	13:28	0.52	3581	3651	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	13:28	13:31	0.05	3651	3651	Survey & Conn.	Survey & Conn.@3594' Inc 36.08° Azm 38.84°
11-Apr-15	13:31	14:03	0.53	3651	3736	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	14:03	14:08	0.08	3736	3736	Survey & Conn.	Survey & Conn.@3679' Inc 35.29° Azm 38.97°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Apr-15	14:08	14:16	0.13	3736	3754	Sliding	Sliding - (WOB:25; :460;TFO:0G))
11-Apr-15	14:16	14:43	0.45	3754	3821	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	14:43	14:51	0.13	3821	3821	Circulating	Circulating
11-Apr-15	14:51	14:54	0.05	3821	3821	Survey & Conn.	Survey & Conn.@3764' Inc 35.86° Azm 37.52°
11-Apr-15	14:54	15:08	0.23	3821	3864	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	15:08	15:11	0.05	3864	3864	Survey & Conn.	Survey & Conn.@3764' Inc 35.86° Azm 37.52°
11-Apr-15	15:11	15:14	0.05	3864	3869	Sliding	Sliding - (WOB:25; :460;TFO:60R))
11-Apr-15	15:14	15:29	0.25	3869	3907	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	15:29	15:32	0.05	3907	3907	Survey & Conn.	Survey & Conn.@3850' Inc 35.16° Azm 37.26°
11-Apr-15	15:32	16:01	0.48	3907	3992	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	16:01	16:06	0.08	3992	3992	Survey & Conn.	Survey & Conn.@3935' Inc 34.5° Azm 38.27°
11-Apr-15	16:06	16:37	0.52	3992	4078	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	16:37	16:41	0.07	4078	4078	Survey & Conn.	Survey & Conn.@4021' Inc 33.31° Azm 37.79°
11-Apr-15	16:41	17:15	0.57	4078	4163	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	17:15	17:20	0.08	4163	4163	Survey & Conn.	Survey & Conn.@4106' Inc 31.73° Azm 38.4°
11-Apr-15	17:20	17:25	0.08	4163	4173	Sliding	Sliding - (WOB:25; :460;TFO:180))
11-Apr-15	17:25	18:00	0.58	4173	4249	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	18:00	18:05	0.08	4249	4249	Survey & Conn.	Survey & Conn.@4192' Inc 29.05° Azm 37.65°
11-Apr-15	18:05	18:10	0.08	4249	4261	Sliding	Sliding - (WOB:25; :460;TFO:150R))
11-Apr-15	18:10	18:40	0.50	4261	4334	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	18:40	18:45	0.08	4334	4334	Survey & Conn.	Survey & Conn.@4277' Inc 26.76° Azm 38.36°
11-Apr-15	18:45	18:50	0.08	4334	4349	Sliding	Sliding - (WOB:25; :460;TFO:180))
11-Apr-15	18:50	19:30	0.67	4349	4420	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	19:30	19:35	0.08	4420	4420	Survey & Conn.	Survey & Conn.@4363' Inc 23.91° Azm 37.83°
11-Apr-15	19:35	19:40	0.08	4420	4434	Sliding	Sliding - (WOB:25; :460;TFO:170R))
11-Apr-15	19:40	20:20	0.67	4434	4505	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	20:20	20:25	0.08	4505	4505	Survey & Conn.	Survey & Conn.@4448' Inc 21.01° Azm 38.58°
11-Apr-15	20:25	20:30	0.08	4505	4518	Sliding	Sliding - (WOB:25; :460;TFO:180))
11-Apr-15	20:30	21:00	0.50	4518	4590	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	21:00	21:05	0.08	4590	4590	Survey & Conn.	Survey & Conn.@4533' Inc 18.13° Azm 38.82°
11-Apr-15	21:05	21:10	0.08	4590	4602	Sliding	Sliding - (WOB:25; :460;TFO:180))
11-Apr-15	21:10	21:40	0.50	4602	4676	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	21:40	21:45	0.08	4676	4676	Survey & Conn.	Survey & Conn.@4619' Inc 15.47° Azm 39.67°
11-Apr-15	21:45	21:50	0.08	4676	4688	Sliding	Sliding - (WOB:25; :460;TFO:170L))
11-Apr-15	21:50	22:25	0.58	4688	4761	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	22:25	22:30	0.08	4761	4761	Survey & Conn.	Survey & Conn.@4704' Inc 12.79° Azm 39.46°
11-Apr-15	22:30	22:40	0.17	4761	4773	Sliding	Sliding - (WOB:25; :460;TFO:170L))
11-Apr-15	22:40	23:10	0.50	4773	4847	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	23:10	23:15	0.08	4847	4847	Survey & Conn.	Survey & Conn.@4790' Inc 10.2° Azm 40.07°
11-Apr-15	23:15	23:20	0.08	4847	4859	Sliding	Sliding - (WOB:25; :460;TFO:150L))
11-Apr-15	23:20	23:45	0.42	4859	4932	Drilling	Drilling - (WOB:25; :460;RPM:50)
11-Apr-15	23:45	23:50	0.08	4932	4932	Survey & Conn.	Survey & Conn.@4875' Inc 7.89° Azm 36.64°
11-Apr-15	23:50	24:00	0.17	4932	4946	Sliding	Sliding - (WOB:25; :460;TFO:180))



JOB NO.:	CO15521	Report Time:	2400	3 of 4
Company:	URSA Operating Co.	API JOB #	05-045-22804-00	
LOCATION:	Watson Pad	WORK ORDER#	CO15521	
RIG NAME:	Capstar 321	FIELD:	Battlement Mesa	
STATE:	CO	Township:	7S	
COUNTY:	Garfield	SECT RANGE:	17	95W
WELL NAME:	Watson Ranch B 32D-17-07-95			

From Sunday, April 12, 2015 at 0000 to Sunday, April 12, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	4946.00	Rotary Hours	19.98	WOB	25	Pick UP	150	Slack Off	100	SPM	
End Depth	7071.00	Circulating Hours	1.03	RAB	125	SPP	2200	FlowRate	460 - 460	125	
Total Drilled:	2125.00	Avg. Total ROP:	101.03	Mud Data							
Total Rotary Drilled:	2037.00	Avg. Rotary ROP:	101.93	Type	LSND		PV	16	SOLID	7.2	
Total Drilled Sliding:	88.00	Avg. Slide ROP:	83.81	Weight	9.55	GAS	0	YP	13	BHT°	0
Slide Hours:	1.05	Percent Rotary:	95.86	Viscosity	42	SAND	0.25	PH	9.8	Flow T°	103
Below Rotary Hrs.	24.00	Percent Slide:	4.14	Chlorides	900	WL	6	Oil %		0	

PERSONNEL						CASING			BHA
Lead Directional :		Stephen Pickering				Size	Lb/ft	Set Depth	BHA # 1:Security MM55 7 7/8 PDC 5x14s, 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	1850	
MWD Operator1		Colin Chudy				Signature: <div></div>			
MWD Operator2									
Directional Company:		Payzone							
Geologist:									
Company Man:		Richard Mcneill							
Incl. In:	7.89	Azm. In:	36.64	Incl. Out:	0.79	Azm. Out:	302.91		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-Apr-15	00:00	00:25	0.42	4946	5017	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	00:25	00:30	0.08	5017	5017	Survey & Conn.	Survey & Conn.@4960' Inc 5.23° Azm 35.19°
12-Apr-15	00:30	00:40	0.17	5017	5032	Sliding	Sliding - (WOB:25; :460;TFO:150R))
12-Apr-15	00:40	01:05	0.42	5032	5103	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
12-Apr-15	01:05	01:10	0.08	5103	5103	Survey & Conn.	Survey & Conn.@5046' Inc 2.88° Azm 50.2°
12-Apr-15	01:10	01:40	0.50	5103	5188	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
12-Apr-15	01:40	01:45	0.08	5188	5188	Survey & Conn.	Survey & Conn.@5131' Inc 2.37° Azm 51.1°
12-Apr-15	01:45	02:15	0.50	5188	5273	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
12-Apr-15	02:15	02:20	0.08	5273	5273	Survey & Conn.	Survey & Conn.@5216' Inc 1.89° Azm 47.72°
12-Apr-15	02:20	03:05	0.75	5273	5359	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
12-Apr-15	03:05	03:10	0.08	5359	5359	Survey & Conn.	Survey & Conn.@5302' Inc 1.33° Azm 44.06°
12-Apr-15	03:10	03:45	0.58	5359	5444	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
12-Apr-15	03:45	03:50	0.08	5444	5444	Survey & Conn.	Survey & Conn.@5387' Inc 1.01° Azm 44.33°
12-Apr-15	03:50	04:40	0.83	5444	5530	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	04:40	04:45	0.08	5530	5530	Survey & Conn.	Survey & Conn.@5473' Inc 0.53° Azm 34.01°
12-Apr-15	04:45	04:55	0.17	5530	5542	Sliding	Sliding - (WOB:25; :460;TFO:50M))
12-Apr-15	04:55	05:42	0.78	5542	5615	Drilling	Drilling - (WOB:25; :460;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-Apr-15	05:42	05:46	0.07	5615	5615	Survey & Conn.	Survey & Conn.@5558' Inc 1.44° Azm 41.2°
12-Apr-15	05:46	06:41	0.92	5615	5700	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	06:41	06:44	0.05	5700	5700	Survey & Conn.	Survey & Conn.@5643' Inc 0.79° Azm 55.85°
12-Apr-15	06:44	07:36	0.87	5700	5786	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	07:36	07:40	0.07	5786	5786	Survey & Conn.	Survey & Conn.@5729' Inc 0.53° Azm 46.75°
12-Apr-15	07:40	08:27	0.78	5786	5871	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	08:27	08:31	0.07	5871	5871	Survey & Conn.	Survey & Conn.@5814' Inc 0.09° Azm 132.97°
12-Apr-15	08:31	08:45	0.23	5871	5891	Sliding	Sliding - (WOB:25; :460;TFO:50M))
12-Apr-15	08:45	09:42	0.95	5891	5957	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	09:42	09:47	0.08	5957	5957	Survey & Conn.	Survey & Conn.@5900' Inc 1.41° Azm 90.56°
12-Apr-15	09:47	10:30	0.72	5957	6042	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	10:30	10:33	0.05	6042	6042	Survey & Conn.	Survey & Conn.@5985' Inc 1.58° Azm 111.22°
12-Apr-15	10:33	11:29	0.93	6042	6127	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	11:29	11:32	0.05	6127	6127	Survey & Conn.	Survey & Conn.@6070' Inc 1.32° Azm 117.02°
12-Apr-15	11:32	11:54	0.37	6127	6170	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	11:54	12:03	0.15	6170	6170	Circulating	Circulating
12-Apr-15	12:03	12:06	0.05	6170	6170	Survey & Conn.	Survey & Conn.@6070' Inc 1.32° Azm 117.02°
12-Apr-15	12:06	12:29	0.38	6170	6213	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	12:29	12:32	0.05	6213	6213	Survey & Conn.	Survey & Conn.@6156' Inc 1.41° Azm 124.14°
12-Apr-15	12:32	13:20	0.80	6213	6298	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	13:20	14:13	0.88	6298	6298	Rig Service-Inhole	Rig Service-Inhole
12-Apr-15	14:13	14:18	0.08	6298	6298	Survey & Conn.	Survey & Conn.@6241' Inc 1.8° Azm 136.93°
12-Apr-15	14:18	14:35	0.28	6298	6318	Sliding	Sliding - (WOB:25; :460;TFO:340M))
12-Apr-15	14:35	15:22	0.78	6318	6383	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	15:22	15:27	0.08	6383	6383	Survey & Conn.	Survey & Conn.@6326' Inc 0.88° Azm 81.07°
12-Apr-15	15:27	15:39	0.20	6383	6404	Sliding	Sliding - (WOB:25; :460;TFO:340M))
12-Apr-15	15:39	16:20	0.68	6404	6469	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	16:20	16:24	0.07	6469	6469	Survey & Conn.	Survey & Conn.@6412' Inc 2.29° Azm 355.07°
12-Apr-15	16:24	17:15	0.85	6469	6554	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	17:15	17:20	0.08	6554	6554	Survey & Conn.	Survey & Conn.@6497' Inc 2.11° Azm 358.59°
12-Apr-15	17:20	18:10	0.83	6554	6640	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	18:10	18:15	0.08	6640	6640	Survey & Conn.	Survey & Conn.@6583' Inc 1.54° Azm 348.13°
12-Apr-15	18:15	19:10	0.92	6640	6725	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	19:10	19:15	0.08	6725	6725	Survey & Conn.	Survey & Conn.@6668' Inc 1.45° Azm 346.24°
12-Apr-15	19:15	20:05	0.83	6725	6811	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	20:05	20:10	0.08	6811	6811	Survey & Conn.	Survey & Conn.@6754' Inc 1.01° Azm 341.27°
12-Apr-15	20:10	21:20	1.17	6811	6896	Drilling	Drilling - (WOB:25; :460;RPM:50)
12-Apr-15	21:20	21:25	0.08	6896	6896	Survey & Conn.	Survey & Conn.@6839' Inc 0.79° Azm 302.03°
12-Apr-15	21:25	22:30	1.08	6896	6981	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
12-Apr-15	22:30	22:35	0.08	6981	6981	Survey & Conn.	Survey & Conn.@6924' Inc 0.66° Azm 307.08°
12-Apr-15	22:35	23:50	1.25	6981	7067	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
12-Apr-15	23:50	23:55	0.08	7067	7067	Survey & Conn.	Survey & Conn.@7010' Inc 0.79° Azm 302.91°
12-Apr-15	23:55	24:00	0.08	7067	7071	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)



JOB NO.:	CO15521	Report Time:	2400	4 of 4
Company:	URSA Operating Co.	API JOB #	05-045-22804-00	
LOCATION:	Watson Pad	WORK ORDER#	CO15521	
RIG NAME:	Capstar 321	FIELD:	Battlement Mesa	
STATE:	CO	Township:	7S	
COUNTY:	Garfield	SECT RANGE:	17	95W
WELL NAME:	Watson Ranch B 32D-17-07-95			

From Monday, April 13, 2015 at 0000 to Monday, April 13, 2015 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	4946.00	Rotary Hours	19.98	WOB	25	Pick UP	150	Slack Off	100	SPM	
End Depth	7071.00	Circulating Hours	1.03	RAB	125	SPP	2200	FlowRate	460 - 460	125	
Total Drilled:	2125.00	Avg. Total ROP:	101.03	Mud Data							
Total Rotary Drilled:	2037.00	Avg. Rotary ROP:	101.93	Type	LSND		PV	16	SOLID	7.2	
Total Drilled Sliding:	88.00	Avg. Slide ROP:	83.81	Weight	9.55	GAS	0	YP	13	BHT°	0
Slide Hours:	1.05	Percent Rotary:	95.86	Viscosity	42	SAND	0.25	PH	9.8	Flow T°	103
Below Rotary Hrs.	24.00	Percent Slide:	4.14	Chlorides	900	WL	6		Oil %	0	

PERSONNEL						CASING			BHA
Lead Directional :		Stephen Pickering				Size	Lb/ft	Set Depth	BHA # 1:Security MM55 7 7/8 PDC 5x14s, 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	1850	
MWD Operator1		Colin Chudy				Signature:			
MWD Operator2									
Directional Company:		Payzone							
Geologist:									
Company Man:		Richard Mcneill							
Incl. In:	0.79	Azm. In:	302.91	Incl. Out:	0	Azm. Out:	0		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-Apr-15	00:00	01:05	1.08	7071	7152	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
13-Apr-15	01:05	01:10	0.08	7152	7152	Survey & Conn.	Survey & Conn.@7095' Inc 0.98° Azm 281.58°
13-Apr-15	01:10	02:10	1.00	7152	7238	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
13-Apr-15	02:10	02:15	0.08	7238	7238	Survey & Conn.	Survey & Conn.@7181' Inc 0.98° Azm 275.11°
13-Apr-15	02:15	03:15	1.00	7238	7298	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
13-Apr-15	03:15	03:20	0.08	7298	7298	MWD Survey	MWD Survey@7241' Inc 0.92° Azm 276.89°
13-Apr-15	03:20	04:55	1.58	7298	7298	Circulating	Circulating
13-Apr-15	04:55	10:00	5.08	7298	7298	POOH	POOH
13-Apr-15	10:00	10:30	0.50	7298	7298	Change BHA	Change BHA, L/D tools

BHA # 1**Mud Motor Report**

JOB NO.: CO15521
Company: URSA Operating Co.
LOCATION: Watson Pad
RIG NAME: Capstar 321
STATE: CO
COUNTY: Garfield

FIELD: Battlement Mesa
Township: 7S
Range 95W
Lead DD: Stephen Pickering
Co. Man: Richard Mcneill

WELL NAME: Watson Ranch B 32D-17-07-9 **Motor Failed?: NO**

Time and Depths (This BHA)	MOTOR DATA	Drilling Parameters
Date In: 10-Apr-15 @ 20:00	Desc: Fixed 1.5,7/8,3.5,.21	SO/PU: 55 - 100 57-150
Date Out: 13-Apr-15 @ 10:30	MFG.: Hunting	Rot Wt: 57-125
Hrs In Hole: 62.50	BHA Circ/ All BHA: 48.47 / 46.80	WOB: 10 - 25
Start Depth: 1868.00	Motor SN: 6023	TORQ: 1625 - 14000
End Depth: 7298.00	Pad OD: 6 5/8	SPP: 615 - 2200
Total Drilled: 5430.00	NB Stab: 0	Motor RPM: 97
Avg. Total ROP: 122.99	Bit to Bend: 6	Rotary RPM: 45 - 50
Circ Hrs:Tot/Only 48.47 / 4.32	Bent Hsg / Sub: 1.5 /	Flow Rate: 330 - 460
Percent Slide: 7.57	Lobe/Stage: 7/8 / 3.5	Avg Diff:
Percent Hrs: 7.51	Rev/GAL: 0.21	Stall Pres.:
Slide Hours: 3.32	Rotor Jet: 0	Off Bot Pres.:
Total Sliding: 411.00	Prop BUR:	Bit Record Security / Security MM55 7 7/8 PDC Run #: 1 Type Bit: PDC IADC#: TFA: 0.751 JETS: 5-14 Bit Drop: 330 PSI @ 460 GPM Cond.: Green
Avg. Slide ROP: 123.92	Act BUR:	
Percent Rotary: 92.43	Stator Clearance:	
Percent Hrs: 92.49	Lower Stab OD:	
Rot / Total Hrs: 40.83 / 44.15	Upper Stab OD:	
Rotary Drilled: 5019.00	Extended Motor? NO	
Avg. Rotary ROP: 122.91	Number of Stalls: 0	
Reason POOH: TD	Stall Duration:	

Mud Data

Type LSND **WT:** 9.55 **Vis:** 42 **WL:** 6 **PV:** 16 **Flow T °:** 103
SAND 0.25 Chlor: 900 **GAS** 0 **SOL:** 7.2 **Oil %:** 0 **YP:** 13 **PH:** 9.8 **Bottom Hole T °:** 0

Formation:**EXPANDED REASON PULLED:**

TD

BHA PERFORMANCE:

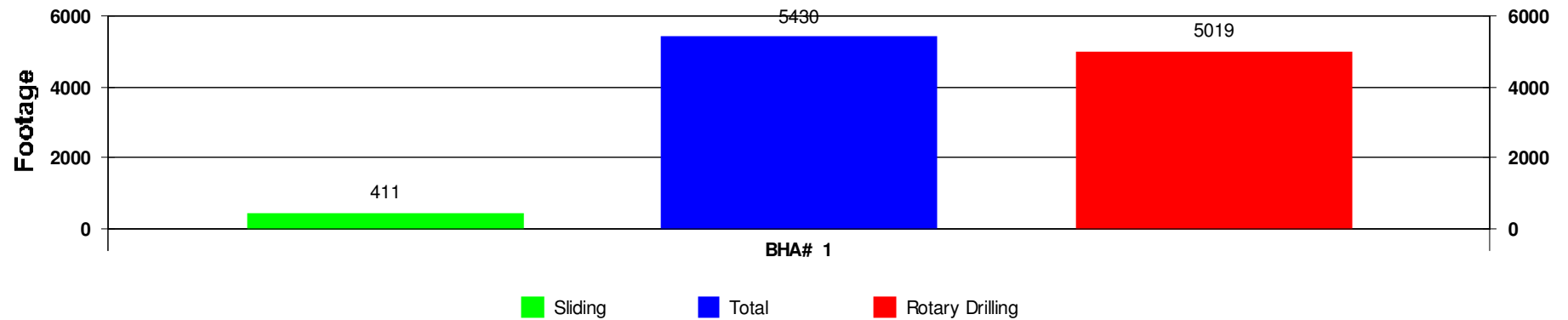
BHA preformed as expected

ADDITIONAL COMMENTS: (Expands to next page if necessary)

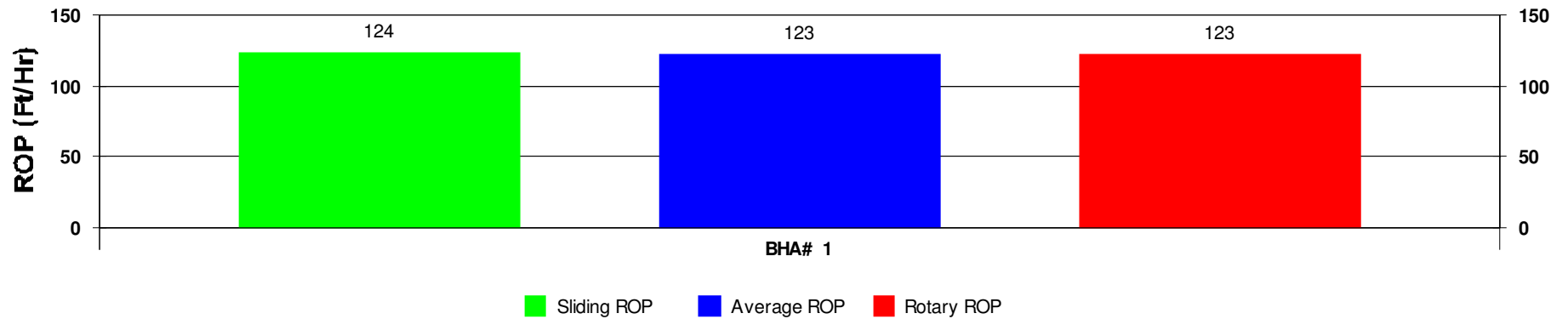


JOB NO.:	CO15521	FIELD:	Battlement Mesa	
Company:	URSA Operating Co.	Township:	7S	
LOCATION:	Watson Pad	SECT\	RANGE: 17	95W
RIG NAME:	Capstar 321	COMMENT		
STATE:	CO			
COUNTY:	Garfield			
WELL NAME:	Watson Ranch B 32D-17-07-95			

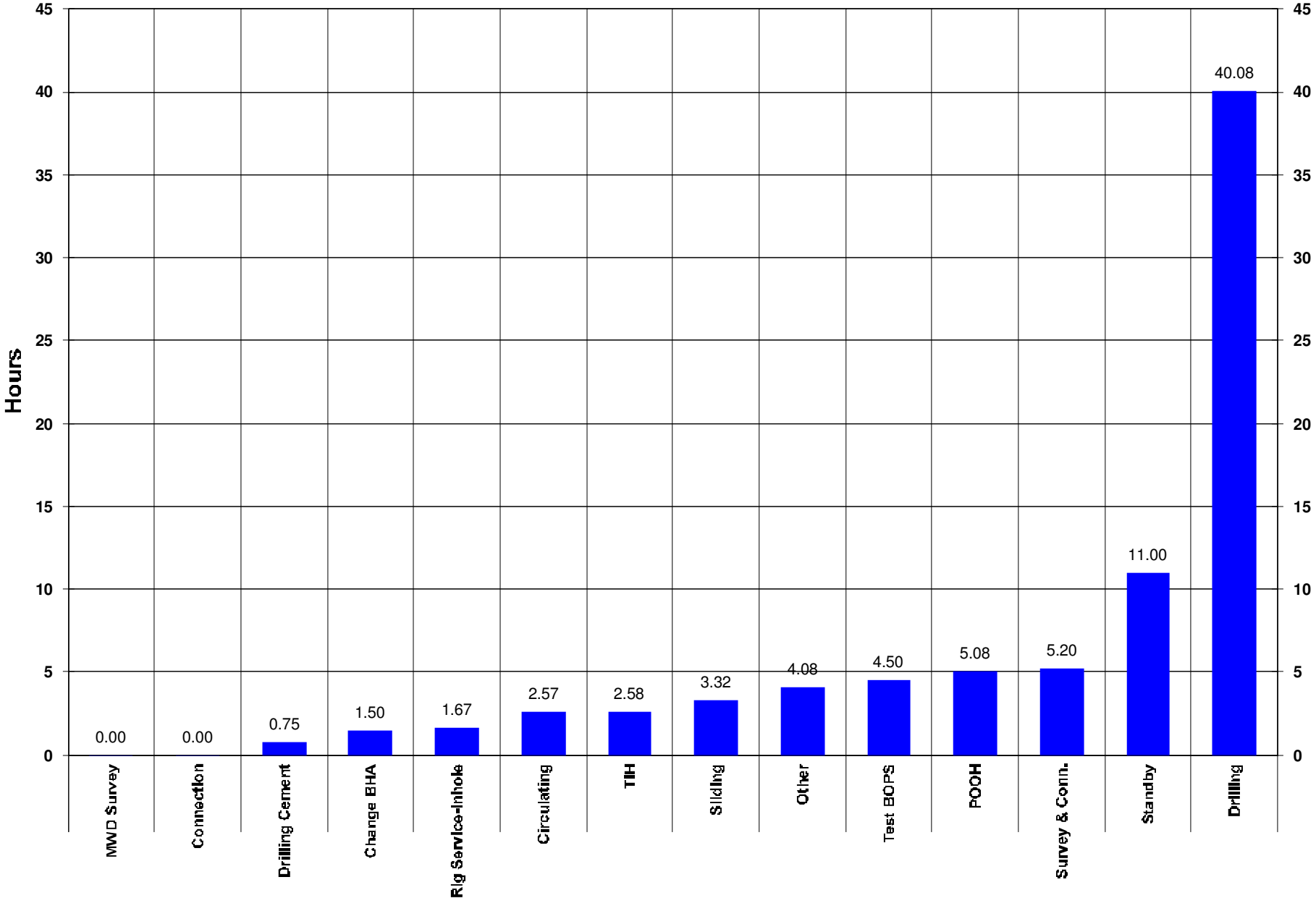
Footage Drilled with BHA



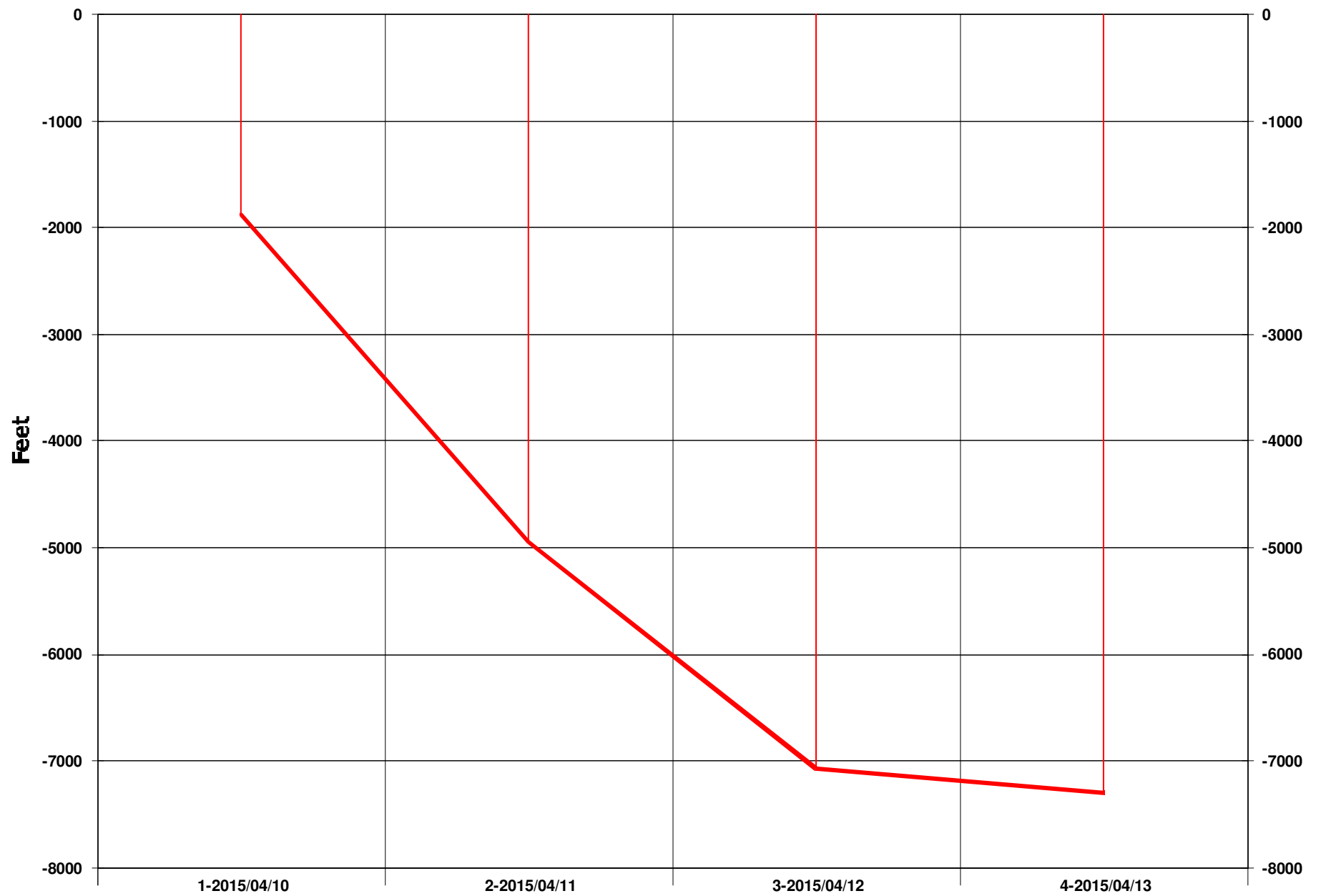
ROP vs BHA



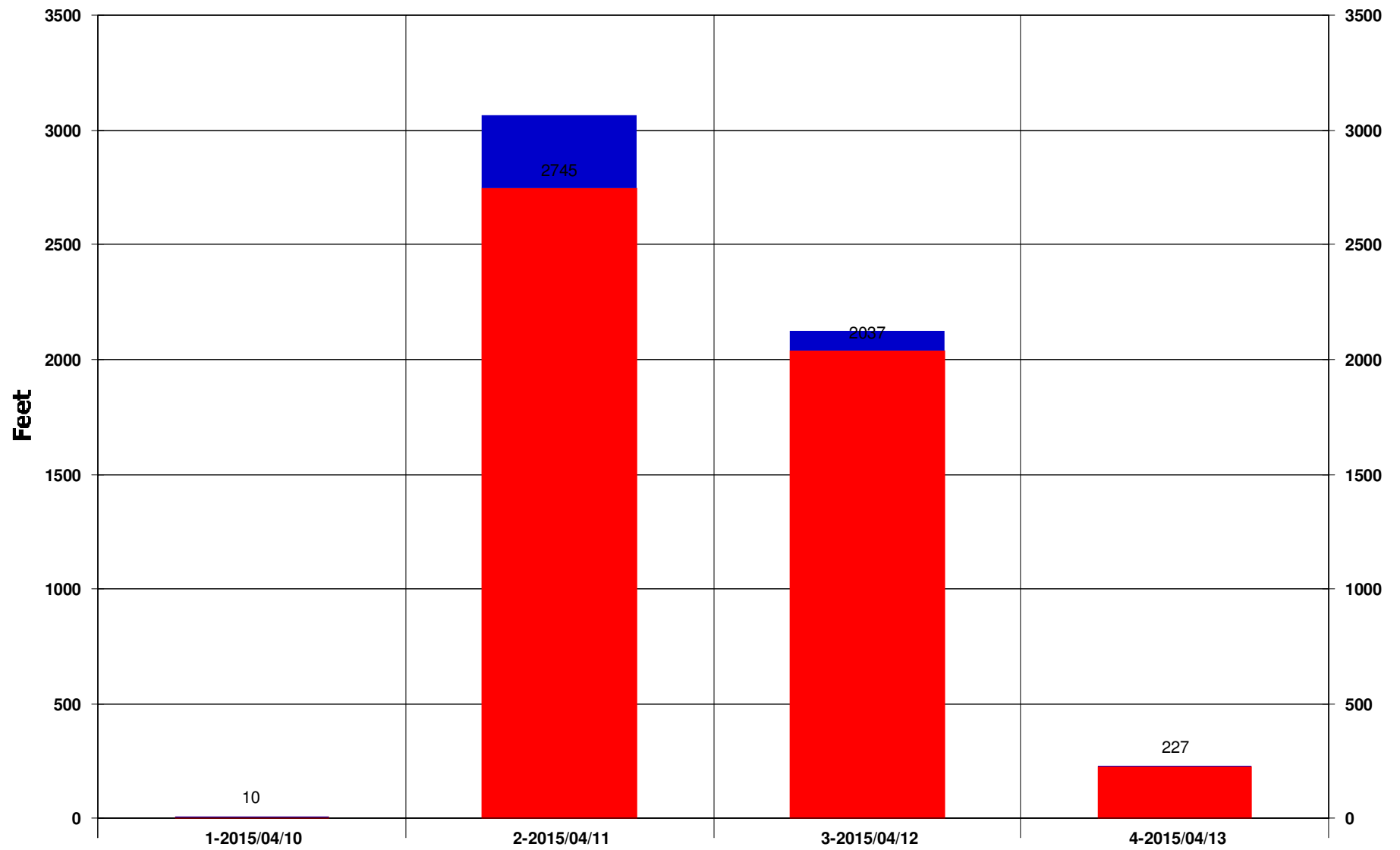
Activity Histogram



Measured Depth vs Days

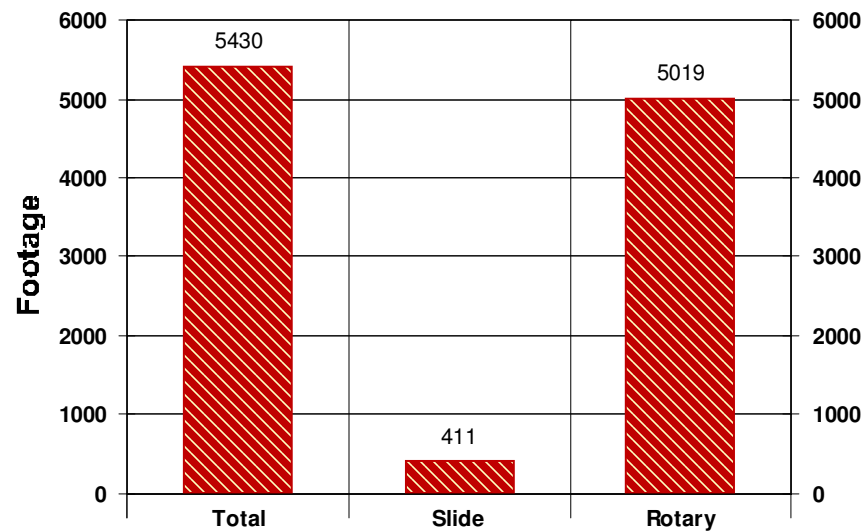


Daily Footage

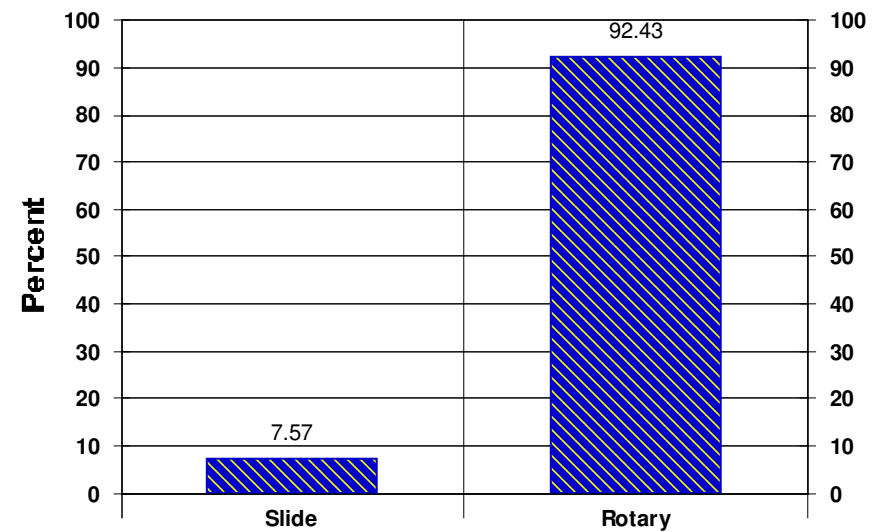


Rotary Drilling Sliding

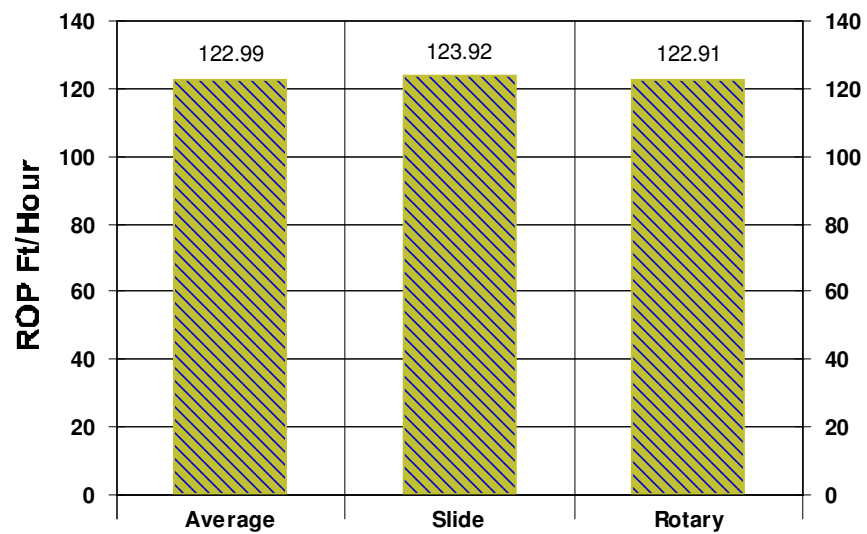
Footage Drilled Totals



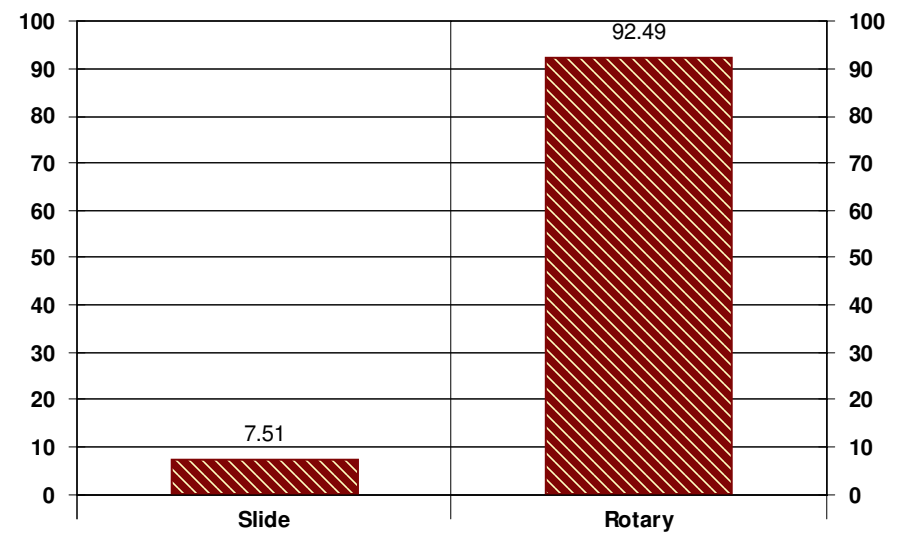
Footage Percent



Rate of Penetration Totals



Time Percent





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