



CARRIZO OIL and GAS

MS #DDOK-110553

**Speaker 1-27-31-8-61
Weld County, Colorado
Xtreme 19**

November 10, 2011

**Prepared By:
Megan Pope**

Actual Well & Surveys 1

Daily Reports 2

BHA's 3

Job Performance Charts 4

Support Staff 5



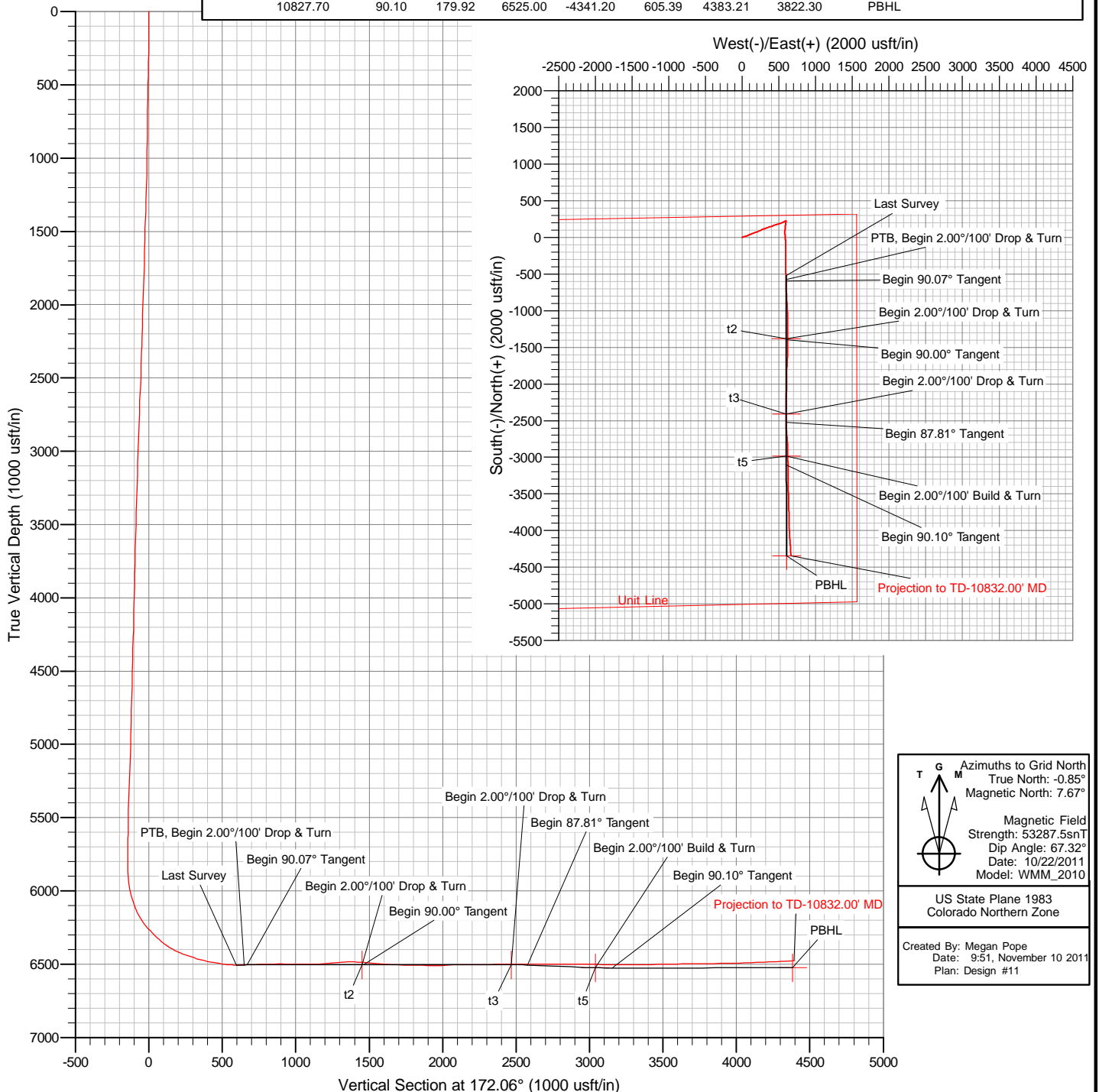
Company: Carrizo Oil & Gas
Site: Speaker
Well: 1-27-31-8-61
Project: Weld County, Colorado (NAD83)
Rig Name: Xtreme 19



Planning: 936.442.2510 Fax: 936.442.2515
Operations: 936.442.2500 Fax: 936.442.2599

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
7005.00	90.30	179.40	6506.33	-518.92	596.26	596.30	0.00	Last Survey
7060.00	90.30	179.40	6506.05	-573.91	596.84	650.85	55.00	PTB, Begin 2.00°/100' Drop & Turn
7077.69	90.07	179.67	6505.99	-591.61	596.98	668.39	72.69	Begin 90.07° Tangent
7867.80	90.07	179.67	6505.00	-1381.70	601.53	1451.54	862.80	Begin 2.00°/100' Drop & Turn
7879.34	90.00	179.89	6504.99	-1393.24	601.57	1462.98	874.34	Begin 90.00° Tangent
8894.73	90.00	179.89	6505.00	-2408.63	603.53	2468.90	1889.73	Begin 2.00°/100' Drop & Turn
9004.56	87.81	180.01	6507.10	-2518.43	603.62	2577.66	1999.53	Begin 87.81° Tangent
9472.17	87.81	180.01	6525.00	-2985.70	603.53	3040.44	2466.80	Begin 2.00°/100' Build & Turn
9586.78	90.10	179.92	6527.10	-3100.29	603.60	3153.94	2581.39	Begin 90.10° Tangent
10827.70	90.10	179.92	6525.00	-4341.20	605.39	4383.21	3822.30	PBHL



Azimuths to Grid North

True North: -0.85°

Magnetic North: 7.67°

Magnetic Field

Strength: 53287.5snT

Dip Angle: 67.32°

Date: 10/22/2011

Model: WMM_2010

US State Plane 1983

Colorado Northern Zone

Created By: Megan Pope

Date: 9:51, November 10 2011

Plan: Design #11

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Energy are at the sole risk and responsibility of the customer. MS Energy is not responsible for the accuracy of this schematic or the information contained herein.



Carrizo Oil & Gas

Weld County, Colorado (NAD83)

Speaker

1-27-31-8-61

Wellbore #1

Survey: Archer MWD

Standard Survey Report

10 November, 2011



Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 1-27-31-8-61
Project:	Weld County, Colorado (NAD83)	TVD Reference:	Well @ 5008.80usft (Xtreme 19)
Site:	Speaker	MD Reference:	Well @ 5008.80usft (Xtreme 19)
Well:	1-27-31-8-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Project	Weld County, Colorado (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Well	1-27-31-8-61				
Well Position	+N/-S	0.00 usft	Northing:	1,478,423.70 usft	Latitude: 40° 38' 21.3924 N
	+E/-W	0.00 usft	Easting:	3,364,087.47 usft	Longitude: 104° 11' 16.996 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 4,991.80 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	10/22/11	8.52	67.32	53,287

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	172.06	

Survey Program	Date	11/10/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
124.00	10,832.00	Archer MWD (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
124.00	0.20	29.60	124.00	0.19	0.11	-0.17	0.16	0.16	0.00	
217.00	1.50	68.70	216.99	0.77	1.32	-0.58	1.45	1.40	42.04	
279.00	2.50	63.20	278.95	1.68	3.28	-1.21	1.64	1.61	-8.87	
341.00	3.20	57.10	340.87	3.23	5.94	-2.37	1.23	1.13	-9.84	
402.00	4.40	63.40	401.74	5.20	9.47	-3.84	2.08	1.97	10.33	
495.00	6.20	72.50	494.34	8.31	17.45	-5.82	2.13	1.94	9.78	
587.00	6.20	72.50	585.80	11.29	26.92	-7.47	0.00	0.00	0.00	
679.00	6.50	69.60	677.24	14.60	36.54	-9.42	0.48	0.33	-3.15	
771.00	5.10	76.30	768.76	17.39	45.40	-10.95	1.69	-1.52	7.28	
863.00	4.60	78.30	860.43	19.10	52.98	-11.60	0.57	-0.54	2.17	
955.00	5.00	73.50	952.11	20.99	60.44	-12.44	0.62	0.43	-5.22	
1,047.00	5.10	75.10	1,043.75	23.18	68.23	-13.53	0.19	0.11	1.74	
1,123.00	5.10	74.00	1,119.45	24.98	74.74	-14.42	0.13	0.00	-1.45	
1,208.00	5.50	60.60	1,204.09	28.02	81.93	-16.44	1.53	0.47	-15.76	

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 1-27-31-8-61
Project:	Weld County, Colorado (NAD83)	TVD Reference:	Well @ 5008.80usft (Xtreme 19)
Site:	Speaker	MD Reference:	Well @ 5008.80usft (Xtreme 19)
Well:	1-27-31-8-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,293.00	5.40	59.80	1,288.71	32.03	88.93	-19.44	0.15	-0.12	-0.94	
1,366.00	5.20	60.20	1,361.40	35.40	94.77	-21.97	0.28	-0.27	0.55	
1,482.00	5.10	64.10	1,476.93	40.27	103.97	-25.52	0.31	-0.09	3.36	
1,567.00	6.70	68.80	1,561.48	43.71	111.99	-27.82	1.96	1.88	5.53	
1,652.00	6.70	73.20	1,645.90	46.94	121.36	-29.72	0.60	0.00	5.18	
1,738.00	7.70	68.60	1,731.22	50.49	131.53	-31.84	1.34	1.16	-5.35	
1,823.00	7.70	66.40	1,815.45	54.85	142.05	-34.70	0.35	0.00	-2.59	
1,906.00	7.60	66.20	1,897.71	59.29	152.17	-37.70	0.12	-0.12	-0.24	
1,991.00	7.70	70.90	1,981.96	63.42	162.69	-40.34	0.75	0.12	5.53	
2,076.00	7.60	70.60	2,066.20	67.15	173.37	-42.56	0.13	-0.12	-0.35	
2,162.00	7.60	71.80	2,151.44	70.82	184.14	-44.70	0.18	0.00	1.40	
2,247.00	7.20	72.50	2,235.74	74.17	194.56	-46.59	0.48	-0.47	0.82	
2,332.00	8.30	69.00	2,319.96	77.97	205.37	-48.86	1.41	1.29	-4.12	
2,417.00	8.30	68.60	2,404.07	82.41	216.81	-51.67	0.07	0.00	-0.47	
2,503.00	8.30	67.60	2,489.17	87.04	228.33	-54.67	0.17	0.00	-1.16	
2,588.00	7.70	66.00	2,573.34	91.70	239.20	-57.78	0.75	-0.71	-1.88	
2,673.00	7.40	64.40	2,657.60	96.38	249.34	-61.01	0.43	-0.35	-1.88	
2,758.00	7.70	65.80	2,741.87	101.08	259.47	-64.27	0.41	0.35	1.65	
2,843.00	7.70	65.30	2,826.10	105.79	269.84	-67.50	0.08	0.00	-0.59	
2,929.00	7.40	64.90	2,911.36	110.55	280.09	-70.80	0.35	-0.35	-0.47	
3,014.00	7.60	72.20	2,995.63	114.59	290.40	-73.38	1.14	0.24	8.59	
3,099.00	7.40	70.90	3,079.90	118.10	300.92	-75.40	0.31	-0.24	-1.53	
3,184.00	7.20	67.90	3,164.21	121.89	311.03	-77.76	0.51	-0.24	-3.53	
3,270.00	7.00	67.60	3,249.55	125.92	320.87	-80.39	0.24	-0.23	-0.35	
3,355.00	6.20	66.90	3,333.99	129.69	329.88	-82.88	0.95	-0.94	-0.82	
3,440.00	6.50	69.20	3,418.47	133.20	338.60	-85.15	0.46	0.35	2.71	
3,525.00	7.20	69.50	3,502.86	136.78	348.08	-87.38	0.82	0.82	0.35	
3,610.00	8.10	70.40	3,587.10	140.65	358.71	-89.75	1.07	1.06	1.06	
3,696.00	8.40	70.70	3,672.21	144.76	370.35	-92.21	0.35	0.35	0.35	
3,781.00	7.40	74.30	3,756.41	148.29	381.48	-94.17	1.31	-1.18	4.24	
3,866.00	7.40	73.90	3,840.70	151.29	392.01	-95.69	0.06	0.00	-0.47	
3,951.00	7.70	72.50	3,924.96	154.52	402.70	-97.41	0.41	0.35	-1.65	
4,036.00	7.40	72.30	4,009.23	157.90	413.34	-99.29	0.35	-0.35	-0.24	
4,120.00	7.20	72.20	4,092.54	161.15	423.51	-101.10	0.24	-0.24	-0.12	
4,204.00	6.70	73.20	4,175.93	164.18	433.21	-102.76	0.61	-0.60	1.19	
4,291.00	8.30	68.10	4,262.18	167.99	443.90	-105.06	1.99	1.84	-5.86	
4,376.00	8.10	67.20	4,346.31	172.60	455.11	-108.07	0.28	-0.24	-1.06	
4,461.00	7.60	70.90	4,430.52	176.76	465.94	-110.70	0.84	-0.59	4.35	
4,546.00	7.00	70.60	4,514.83	180.31	476.14	-112.81	0.71	-0.71	-0.35	
4,632.00	7.00	72.90	4,600.19	183.60	486.09	-114.69	0.33	0.00	2.67	
4,717.00	7.90	72.30	4,684.47	186.90	496.61	-116.50	1.06	1.06	-0.71	
4,802.00	8.30	72.70	4,768.62	190.50	508.03	-118.49	0.48	0.47	0.47	
4,887.00	7.90	73.70	4,852.77	193.96	519.49	-120.34	0.50	-0.47	1.18	
4,973.00	7.60	75.30	4,937.99	197.06	530.67	-121.87	0.43	-0.35	1.86	

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Project:	Weld County, Colorado (NAD83)	TVD Reference:	Well @ 5008.80usft (Xtreme 19)
Site:	Speaker	MD Reference:	Well @ 5008.80usft (Xtreme 19)
Well:	1-27-31-8-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,058.00	7.70	68.50	5,022.23	200.57	541.40	-123.86	1.07	0.12	-8.00	
5,143.00	7.40	62.80	5,106.49	205.16	551.57	-127.01	0.95	-0.35	-6.71	
5,229.00	6.90	60.90	5,191.83	210.21	561.01	-130.70	0.64	-0.58	-2.21	
5,314.00	6.70	64.20	5,276.23	214.85	569.93	-134.06	0.52	-0.24	3.88	
5,399.00	5.80	66.70	5,360.72	218.71	578.34	-136.72	1.11	-1.06	2.94	
5,484.00	5.10	67.60	5,445.34	221.84	585.78	-138.80	0.83	-0.82	1.06	
5,569.00	4.00	71.80	5,530.07	224.21	592.09	-140.27	1.35	-1.29	4.94	
5,655.00	2.50	77.60	5,615.93	225.55	596.77	-140.95	1.78	-1.74	6.74	
5,740.00	0.50	39.10	5,700.90	226.24	598.82	-141.35	2.51	-2.35	-45.29	
5,825.00	0.40	263.20	5,785.89	226.49	598.76	-141.61	0.98	-0.12	-159.88	
5,904.00	0.70	198.40	5,864.89	226.00	598.33	-141.18	0.81	0.38	-82.03	
5,946.00	2.10	193.10	5,906.88	225.01	598.08	-140.23	3.34	3.33	-12.62	
5,989.00	6.90	189.90	5,949.73	221.69	597.45	-137.04	11.17	11.16	-7.44	
6,031.00	11.60	188.90	5,991.17	215.03	596.36	-130.59	11.20	11.19	-2.38	
6,074.00	17.10	186.90	6,032.82	204.48	594.93	-120.33	12.84	12.79	-4.65	
6,116.00	19.70	188.20	6,072.67	191.34	593.18	-107.56	6.27	6.19	3.10	
6,159.00	21.50	186.80	6,112.92	176.34	591.22	-92.98	4.34	4.19	-3.26	
6,202.00	26.60	186.60	6,152.17	158.94	589.18	-76.03	11.86	11.86	-0.47	
6,244.00	32.00	185.20	6,188.78	138.50	587.08	-56.07	12.96	12.86	-3.33	
6,287.00	37.10	184.70	6,224.19	114.21	584.99	-32.31	11.88	11.86	-1.16	
6,329.00	42.80	181.30	6,256.38	87.30	583.62	-5.84	14.53	13.57	-8.10	
6,372.00	45.20	178.10	6,287.31	57.44	583.80	23.76	7.61	5.58	-7.44	
6,414.00	45.70	175.70	6,316.78	27.56	585.42	53.58	4.24	1.19	-5.71	
6,457.00	49.80	174.80	6,345.68	-4.16	588.06	85.35	9.66	9.53	-2.09	
6,500.00	54.90	176.70	6,371.94	-38.10	590.57	119.31	12.36	11.86	4.42	
6,542.00	60.90	179.40	6,394.25	-73.63	591.75	154.67	15.29	14.29	6.43	
6,585.00	65.50	179.90	6,413.64	-112.00	591.98	192.70	10.75	10.70	1.16	
6,627.00	69.50	179.90	6,429.70	-150.80	592.05	231.14	9.52	9.52	0.00	
6,670.00	70.70	180.40	6,444.34	-191.23	591.94	271.17	3.00	2.79	1.16	
6,713.00	72.30	179.90	6,457.98	-232.01	591.84	311.54	3.88	3.72	-1.16	
6,755.00	75.00	179.70	6,469.81	-272.30	591.98	351.47	6.44	6.43	-0.48	
6,798.00	76.70	179.20	6,480.32	-314.00	592.38	392.81	4.11	3.95	-1.16	
6,840.00	80.20	178.50	6,488.73	-355.13	593.20	433.67	8.49	8.33	-1.67	
6,883.00	81.10	178.50	6,495.71	-397.54	594.32	475.83	2.09	2.09	0.00	
6,926.00	82.90	179.40	6,501.70	-440.12	595.09	518.10	4.67	4.19	2.09	
6,968.00	86.90	178.90	6,505.43	-481.94	595.72	559.61	9.60	9.52	-1.19	
7,005.00	90.30	179.40	6,506.33	-518.92	596.26	596.31	9.29	9.19	1.35	
7,047.00	91.80	178.70	6,505.56	-560.90	596.96	637.99	3.94	3.57	-1.67	
7,089.00	92.60	178.50	6,503.95	-602.86	597.99	679.68	1.96	1.90	-0.48	
7,132.00	92.60	177.80	6,502.00	-645.79	599.37	722.40	1.63	0.00	-1.63	
7,175.00	91.50	177.40	6,500.46	-688.73	601.17	765.17	2.72	-2.56	-0.93	
7,217.00	91.00	176.90	6,499.55	-730.66	603.26	806.99	1.68	-1.19	-1.19	
7,260.00	90.40	176.90	6,499.02	-773.60	605.58	849.83	1.40	-1.40	0.00	

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Site:	Speaker	MD Reference:	Well @ 5008.80usft (Xtreme 19)
Well:	1-27-31-8-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,302.00	89.90	176.90	6,498.91	-815.54	607.86	891.68	1.19	-1.19	0.00
7,345.00	89.70	177.80	6,499.06	-858.49	609.84	934.50	2.14	-0.47	2.09
7,388.00	88.30	178.10	6,499.81	-901.45	611.38	977.27	3.33	-3.26	0.70
7,430.00	89.00	178.00	6,500.80	-943.42	612.81	1,019.02	1.68	1.67	-0.24
7,473.00	89.90	177.80	6,501.21	-986.39	614.39	1,061.80	2.14	2.09	-0.47
7,515.00	90.40	177.30	6,501.10	-1,028.35	616.18	1,103.61	1.68	1.19	-1.19
7,558.00	91.70	178.30	6,500.32	-1,071.31	617.83	1,146.38	3.81	3.02	2.33
7,601.00	92.70	178.10	6,498.67	-1,114.25	619.18	1,189.10	2.37	2.33	-0.47
7,643.00	95.20	178.90	6,495.77	-1,156.14	620.28	1,230.73	6.25	5.95	1.90
7,686.00	96.40	178.70	6,491.43	-1,198.91	621.17	1,273.22	2.83	2.79	-0.47
7,729.00	94.10	179.70	6,487.49	-1,241.72	621.77	1,315.70	5.83	-5.35	2.33
7,770.00	91.70	180.60	6,485.42	-1,282.66	621.66	1,356.24	6.25	-5.85	2.20
7,813.00	88.20	181.10	6,485.46	-1,325.65	621.03	1,398.73	8.22	-8.14	1.16
7,855.00	86.60	181.00	6,487.36	-1,367.60	620.26	1,440.17	3.82	-3.81	-0.24
7,898.00	85.30	180.40	6,490.40	-1,410.49	619.73	1,482.57	3.33	-3.02	-1.40
7,941.00	85.50	179.70	6,493.85	-1,453.35	619.70	1,525.02	1.69	0.47	-1.63
7,983.00	85.90	179.90	6,497.00	-1,495.23	619.84	1,566.52	1.06	0.95	0.48
8,026.00	85.90	181.80	6,500.07	-1,538.11	619.21	1,608.90	4.41	0.00	4.42
8,068.00	86.20	182.00	6,502.96	-1,579.99	617.82	1,650.19	0.86	0.71	0.48
8,111.00	87.40	182.40	6,505.36	-1,622.89	616.17	1,692.45	2.94	2.79	0.93
8,154.00	88.30	182.20	6,506.98	-1,665.82	614.44	1,734.73	2.14	2.09	-0.47
8,196.00	89.40	181.80	6,507.82	-1,707.79	612.98	1,776.09	2.79	2.62	-0.95
8,239.00	89.40	182.20	6,508.27	-1,750.76	611.48	1,818.44	0.93	0.00	0.93
8,282.00	89.00	182.00	6,508.87	-1,793.73	609.90	1,860.78	1.04	-0.93	-0.47
8,324.00	89.40	181.50	6,509.46	-1,835.70	608.62	1,902.18	1.52	0.95	-1.19
8,367.00	89.40	180.80	6,509.91	-1,878.69	607.76	1,944.64	1.63	0.00	-1.63
8,410.00	91.30	181.50	6,509.64	-1,921.68	606.89	1,987.09	4.71	4.42	1.63
8,452.00	93.30	181.00	6,507.96	-1,963.63	605.98	2,028.52	4.91	4.76	-1.19
8,495.00	93.30	180.40	6,505.48	-2,006.56	605.45	2,070.96	1.39	0.00	-1.40
8,538.00	90.60	180.60	6,504.02	-2,049.53	605.08	2,113.46	6.30	-6.28	0.47
8,580.00	89.00	182.20	6,504.17	-2,091.51	604.05	2,154.90	5.39	-3.81	3.81
8,623.00	89.90	182.40	6,504.58	-2,134.48	602.33	2,197.22	2.14	2.09	0.47
8,666.00	91.10	182.00	6,504.21	-2,177.44	600.68	2,239.54	2.94	2.79	-0.93
8,708.00	91.80	181.50	6,503.14	-2,219.41	599.40	2,280.93	2.05	1.67	-1.19
8,751.00	91.00	180.40	6,502.09	-2,262.39	598.68	2,323.40	3.16	-1.86	-2.56
8,793.00	90.60	180.30	6,501.51	-2,304.38	598.43	2,364.96	0.98	-0.95	-0.24
8,836.00	91.30	180.10	6,500.79	-2,347.38	598.28	2,407.52	1.69	1.63	-0.47
8,879.00	90.60	180.10	6,500.08	-2,390.37	598.20	2,450.09	1.63	-1.63	0.00
8,921.00	89.60	180.40	6,500.01	-2,432.37	598.02	2,491.66	2.49	-2.38	0.71
8,964.00	89.70	179.70	6,500.27	-2,475.37	597.98	2,534.24	1.64	0.23	-1.63
9,007.00	89.60	178.50	6,500.53	-2,518.36	598.66	2,576.92	2.80	-0.23	-2.79
9,049.00	89.90	176.90	6,500.71	-2,560.33	600.34	2,618.71	3.88	0.71	-3.81
9,092.00	90.10	175.50	6,500.71	-2,603.23	603.19	2,661.60	3.29	0.47	-3.26

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 1-27-31-8-61
Project:	Weld County, Colorado (NAD83)	TVD Reference:	Well @ 5008.80usft (Xtreme 19)
Site:	Speaker	MD Reference:	Well @ 5008.80usft (Xtreme 19)
Well:	1-27-31-8-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,134.00	89.70	175.70	6,500.79	-2,645.11	606.41	2,703.52	1.06	-0.95	0.48	
9,177.00	90.30	176.60	6,500.79	-2,688.01	609.30	2,746.41	2.52	1.40	2.09	
9,220.00	90.60	176.40	6,500.45	-2,730.93	611.92	2,789.28	0.84	0.70	-0.47	
9,262.00	89.70	177.10	6,500.34	-2,772.86	614.31	2,831.14	2.71	-2.14	1.67	
9,305.00	90.10	177.30	6,500.42	-2,815.81	616.41	2,873.96	1.04	0.93	0.47	
9,348.00	90.30	176.90	6,500.27	-2,858.75	618.58	2,916.80	1.04	0.47	-0.93	
9,390.00	89.40	178.30	6,500.38	-2,900.71	620.34	2,958.60	3.96	-2.14	3.33	
9,433.00	88.90	178.50	6,501.01	-2,943.69	621.54	3,001.33	1.25	-1.16	0.47	
9,475.00	88.50	178.70	6,501.97	-2,985.67	622.57	3,043.05	1.06	-0.95	0.48	
9,518.00	88.70	178.50	6,503.02	-3,028.64	623.62	3,085.75	0.66	0.47	-0.47	
9,560.00	89.00	178.10	6,503.86	-3,070.62	624.86	3,127.50	1.19	0.71	-0.95	
9,602.00	89.40	178.50	6,504.45	-3,112.59	626.11	3,169.24	1.35	0.95	0.95	
9,645.00	89.20	178.00	6,504.97	-3,155.57	627.42	3,211.99	1.25	-0.47	-1.16	
9,688.00	89.60	178.90	6,505.42	-3,198.55	628.59	3,254.72	2.29	0.93	2.09	
9,730.00	90.80	180.10	6,505.27	-3,240.55	628.95	3,296.36	4.04	2.86	2.86	
9,773.00	91.30	179.70	6,504.49	-3,283.54	629.03	3,338.95	1.49	1.16	-0.93	
9,816.00	91.70	179.60	6,503.36	-3,326.53	629.29	3,381.56	0.96	0.93	-0.23	
9,858.00	91.70	179.20	6,502.12	-3,368.50	629.73	3,423.20	0.95	0.00	-0.95	
9,901.00	91.00	180.30	6,501.10	-3,411.49	629.92	3,465.80	3.03	-1.63	2.56	
9,943.00	90.60	179.70	6,500.52	-3,453.49	629.92	3,507.39	1.72	-0.95	-1.43	
9,986.00	90.60	178.90	6,500.07	-3,496.48	630.44	3,550.05	1.86	0.00	-1.86	
10,029.00	91.10	178.70	6,499.43	-3,539.47	631.34	3,592.75	1.25	1.16	-0.47	
10,071.00	91.50	178.70	6,498.47	-3,581.44	632.29	3,634.45	0.95	0.95	0.00	
10,114.00	91.50	178.50	6,497.35	-3,624.42	633.34	3,677.16	0.46	0.00	-0.47	
10,157.00	90.80	178.50	6,496.49	-3,667.39	634.47	3,719.88	1.63	-1.63	0.00	
10,199.00	90.30	178.70	6,496.08	-3,709.38	635.50	3,761.60	1.28	-1.19	0.48	
10,242.00	89.70	179.20	6,496.08	-3,752.37	636.28	3,804.29	1.82	-1.40	1.16	
10,285.00	89.90	179.20	6,496.23	-3,795.37	636.88	3,846.96	0.47	0.47	0.00	
10,327.00	91.30	178.90	6,495.79	-3,837.36	637.58	3,888.64	3.41	3.33	-0.71	
10,370.00	91.10	178.10	6,494.89	-3,880.33	638.71	3,931.36	1.92	-0.47	-1.86	
10,412.00	91.30	177.30	6,494.01	-3,922.29	640.39	3,973.15	1.96	0.48	-1.90	
10,455.00	91.70	177.30	6,492.89	-3,965.23	642.42	4,015.95	0.93	0.93	0.00	
10,498.00	92.40	177.10	6,491.35	-4,008.15	644.52	4,058.75	1.69	1.63	-0.47	
10,540.00	92.90	176.40	6,489.41	-4,050.04	646.89	4,100.57	2.05	1.19	-1.67	
10,583.00	92.20	176.40	6,487.49	-4,092.91	649.59	4,143.40	1.63	-1.63	0.00	
10,625.00	91.50	176.20	6,486.14	-4,134.80	652.30	4,185.27	1.73	-1.67	-0.48	
10,668.00	91.70	176.70	6,484.94	-4,177.70	654.96	4,228.12	1.25	0.47	1.16	
10,710.00	92.20	176.00	6,483.51	-4,219.59	657.63	4,269.98	2.05	1.19	-1.67	
10,753.00	93.30	176.20	6,481.45	-4,262.44	660.56	4,312.82	2.60	2.56	0.47	
10,774.00	92.90	176.00	6,480.31	-4,283.36	661.98	4,333.74	2.13	-1.90	-0.95	
10,832.00	92.90	176.00	6,477.38	-4,341.14	666.02	4,391.53	0.00	0.00	0.00	
Projection to TD-10832.00' MD										



Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 1-27-31-8-61
Project:	Weld County, Colorado (NAD83)	TVD Reference:	Well @ 5008.80usft (Xtreme 19)
Site:	Speaker	MD Reference:	Well @ 5008.80usft (Xtreme 19)
Well:	1-27-31-8-61	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,832.00	6,477.38	-4,341.14	666.02	Projection to TD-10832.00' MD



JOB NO.:	DDOK-110553	Report Time:	2400	1 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Monday, October 24, 2011 at 0000 to Monday, October 24, 2011 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.	0.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		N/A				
Second Directional :	Aaron Suttie			9 5/8	36	1409						
MWD Operator1	Chris Anderson			7	26	6950						
MWD Operator2	Lee Mader			Signature:								
Directional Company:	Multi Shot Directional											
Geologist:												
Company Man:	Phil Wilson											
Incl. In:	0	Azm. In:	0	Incl. Out:	92.9	Azm. Out:	176	Daily Cost		\$11,450.00		
								Cummulative Cost:		\$11,450.00		

GENERAL COMMENT

Motors On Location:
 7 3/4" 4/5_5.3 Stg 1.50° ABH Mpact S# MSD77D110D (14 Hrs) DIRTY
 7 3/4" 4/5_5.3 Stg 1.50° ABH Mpact S# MSD (0.0 Hrs)
 6 3/4" 7/8_6.4 Stg 1.50° FBH XXL Mpact S# MSD1458SR (35 Hrs) DIRTY
 6 3/4" 7/8_6.4 Stg 2.12° FBH XXL Mpact S# MSD (0.0 Hrs)
 6 3/4" 6/7_5.0 Stg 1.50° FBH XL Mpact S# MSD (0.0 Hrs)
 6 3/4" 6/7_5.0 Stg 2.12° FBH XL Mpact S# MSD1094SR (58 Hrs) DIRTY
 6 3/4" 6/7_5.0 Stg 2.38° ABH XL Mpact S# MSD (0.0 Hrs)
 4 3/4" 5/6_8.3 Stg 1.50° FBH Mpact S# MSD2597SR (34 Hrs) IN HOLE
 4 3/4" 5/6_8.3 Stg 1.50° FBH Mpact S# MSD (0.0 Hrs)
 4 3/4" 5/6_8.3 Stg 1.50° FBH Mpact S# MSD (0.0 Hrs)
 4 3/4" 5/6_8.3 Stg 1.75° FBH DISCOVERY W/ FLOAT (0.0 Hrs) RENTAL

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-Oct-11	00:00	24:00	24.00	0	0	Standby	Rig Up, Strap Tools



JOB NO.:	DDOK-110553	Report Time:	2400	2 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Tuesday, October 25, 2011 at 0000 to Tuesday, October 25, 2011 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.	0.00		Percent Slide:	NA		Chlorides	0		WL	0					Oil %	0	
PERSONNEL						CASING						BHA					
Lead Directional :		Tom Beckett				Size		Lb/ft		Set Depth		N/A					
Second Directional :		Aaron Suttie				9 5/8		36		1409							
MWD Operator1		Chris Anderson				7		26		6950							
MWD Operator2		Lee Mader															
Directional Company:		Multi Shot Directional				Signature:											
Geologist:																	
Company Man:		Phil Wilson															
Incl. In:	0		Azm. In:	0		Incl. Out:	0		Azm. Out:	0		Daily Cost		\$3,450.00			
										Cummulative Cost:		\$14,900.00					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-Oct-11	00:00	24:00	24.00	0	0	Standby	Standby



JOB NO.:	DDOK-110553	Report Time:	2400	3 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Wednesday, October 26, 2011 at 0000 to Wednesday, October 26, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters						
Start Depth	77.00	Rotary Hours	3.83	WOB	15	Pick UP	40	Slack Off	40	SPM	
End Depth	724.00	Circulating Hours	0.58	RAB	40	SPP	1290	FlowRate	0 - 473	136	
Total Drilled:	647.00	Avg. Total ROP:	117.64	Mud Data							
Total Rotary Drilled:	509.00	Avg. Rotary ROP:	132.78	Type	H2O			PV	0	SOLID	0
Total Drilled Sliding:	138.00	Avg. Slide ROP:	82.80	Weight	8.7	GAS	0	YP	0	BHT°	0
Slide Hours:	1.67	Percent Rotary:	78.67	Viscosity	33	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	20.50	Percent Slide:	21.33	Chlorides	0	WL	0			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth	BHA # 1:12 1/4 VAREL CH1GJMS 3x16 & 1x18 TFA .837, 7 3/4 MPACT 4/5ML 5.3STG .25RPG, 8" Float Sub, 8" UBHO, 8 " NMDC, 12 1/8 ROLLED STABILIZER, 1- 8 INCH DC, 12 1/8 ROLLED STABILIZER, 1- 8 INCH DC, XO 6 5/8 PIN x 4 1/2 XH BOX, 10- 6 1/2 DC, XO 4 1/2 XH PIN x XT39 BOX, 34 JOINTS 4 Hevi, ,				
Second Directional :	Aaron Sutte			Signature:							
MWD Operator1	Chris Anderson										
MWD Operator2	Lee Mader										
Directional Company:	Multi Shot Directional										
Geologist:											
Company Man:	Phil Wilson							Daily Cost		\$7,050.00	
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:		\$21,950.00	

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-Oct-11	00:00	03:30	3.50	77	77	Standby	Standby
26-Oct-11	03:30	03:45	0.25	77	77	Other	Pre Job Saftey Meeting
26-Oct-11	03:45	05:30	1.75	77	77	Change BHA	Change BHA
26-Oct-11	05:30	12:00	6.50	77	77	Other	Pre Spud Meeting
26-Oct-11	12:00	12:05	0.08	77	77	Circulating	Test MWD
26-Oct-11	12:05	12:15	0.17	77	77	Circulating	Wash To Bottom Tag @ 75'
26-Oct-11	12:15	12:30	0.25	77	105	Drilling	Circulating
26-Oct-11	12:30	14:15	1.75	105	105	Connection	Connection, Change Out Saver Sub
26-Oct-11	14:15	14:30	0.25	105	135	Drilling	Drilling - (WOB:15;GPM :345;RPM:50)
26-Oct-11	14:30	15:10	0.67	135	135	Survey & Conn.	Survey & Conn.@0_Inc 0°_Azm 0°
26-Oct-11	15:10	15:30	0.33	135	169	Drilling	Drilling - (WOB:15;GPM :345;RPM:50)
26-Oct-11	15:30	16:05	0.58	169	169	Survey & Conn.	Survey & Conn.@124_Inc .2°_Azm 29.6°
26-Oct-11	16:05	16:15	0.17	169	200	Drilling	Drilling - (WOB:15;GPM :345;RPM:50)
26-Oct-11	16:15	16:45	0.50	200	200	Connection	Connection
26-Oct-11	16:45	17:20	0.58	200	230	Sliding	Slide
26-Oct-11	17:20	17:25	0.08	230	230	Connection	Connection
26-Oct-11	17:25	17:30	0.08	230	262	Drilling	Drilling - (WOB:15;GPM :385;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-Oct-11	17:30	17:40	0.17	262	262	Survey & Conn.	Survey & Conn.@217_Inc 1.5°_Azm 68.7°
26-Oct-11	17:40	18:00	0.33	262	282	Sliding	Sliding - (WOB:15;GPM :385;TFO:70)
26-Oct-11	18:00	18:30	0.50	282	323	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
26-Oct-11	18:30	18:45	0.25	323	323	Survey & Conn.	Survey & Conn.@297_Inc 2.5°_Azm 63.2°
26-Oct-11	18:45	19:10	0.42	323	354	Sliding	Sliding - (WOB:12;GPM :460;TFO:50))
26-Oct-11	19:10	19:40	0.50	354	385	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
26-Oct-11	19:40	20:00	0.33	385	385	Rig Service-Inhole	Rig Service-Inhole
26-Oct-11	20:00	20:15	0.25	385	385	Survey & Conn.	Survey & Conn.@341_Inc 3.2°_Azm 57.1°
26-Oct-11	20:15	20:25	0.17	385	410	Sliding	Sliding - (WOB:14;GPM :473;TFO:45R))
26-Oct-11	20:25	20:45	0.33	410	447	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
26-Oct-11	20:45	21:30	0.75	447	447	Other	P/U and M/U XO SUB. C/O SAVOR SUB and ELEVATORS.
26-Oct-11	21:30	21:40	0.17	447	447	Survey & Conn.	Survey & Conn.@402_Inc 4.4°_Azm 63.4°
26-Oct-11	21:40	21:50	0.17	447	479	Sliding	Sliding - (WOB:14;GPM :473;TFO:25R))
26-Oct-11	21:50	22:00	0.17	479	479		
26-Oct-11	22:00	22:30	0.50	479	540	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
26-Oct-11	22:30	22:40	0.17	540	540	Survey & Conn.	Survey & Conn.@495_Inc 6.2°_Azm 72.5 °
26-Oct-11	22:40	23:05	0.42	540	632	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
26-Oct-11	23:05	23:15	0.17	632	632	Survey & Conn.	Survey & Conn.@587_Inc 6.2°_Azm 72.5°
26-Oct-11	23:15	23:45	0.50	632	724	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
26-Oct-11	23:45	24:00	0.25	724	724	Survey & Conn.	Survey & Conn.@679_Inc 6.5°_Azm 69.6°



JOB NO.:	DDOK-110553	Report Time:	2400	4 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Thursday, October 27, 2011 at 0000 to Thursday, October 27, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	724.00	Rotary Hours	5.42	WOB	15	Pick UP	70	Slack Off	60	SPM	
End Depth	1411.00	Circulating Hours	1.42	RAB	64	SPP	1455	FlowRate	460 - 525	136	
Total Drilled:	687.00	Avg. Total ROP:	109.92	Mud Data							
Total Rotary Drilled:	631.00	Avg. Rotary ROP:	116.49	Type	H2O			PV	2	SOLID	4
Total Drilled Sliding:	56.00	Avg. Slide ROP:	67.20	Weight	8.5	GAS	0	YP	16	BHT°	100
Slide Hours:	0.83	Percent Rotary:	91.85	Viscosity	29	SAND	0.2	PH	8.5	Flow T°	60
Below Rotary Hrs.	24.00	Percent Slide:	8.15	Chlorides	300	WL	16			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 2:12 1/4 VAREL CH1GJMS 3x16 & 1x18 TFA .837, 7 3/4 MPACT 4/5ML 5.3STG .25RPG, 8" Float Sub, 8" UBHO, 8 " NMDC, XO 6 5/8 PIN x 4 1/2 XH BOX, 9- 6 1/2 DC, XO 4 1/2 XH PIN x XT39 BOX, 24 Joints 4 Hevi, ,			
Second Directional :	Aaron Sutte			9 5/8	36	1409					
MWD Operator1	Chris Anderson			Signature:							
MWD Operator2	Lee Mader										
Directional Company:	Multi Shot Directional										
Geologist:											
Company Man:	Phil Wilson							Daily Cost		\$7,050.00	
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:		\$29,000.00	

GENERAL COMMENT

7 3/4, 4/5, 5.3, MSD77D110D-In Hole
 7 3/4, 4/5, 5.3, MSD77D126D-Clean
 6 3/4, MSD67D1094SR-Clean
 6 3/4, MSD67D1177SR-Clean
 6 3/4, MSD67D1054SR-Clean
 6 3/4, MSD67D1458SR-Clean
 6 3/4, MSD67D1231SR-Clean
 4 3/4, 5/6, 8.3, MSD47D2597SR-Clean
 4 3/4, 5/6, 8.3, MSD47D2486SR-Clean
 4 3/4, 5/6, 8.3, MSD47D2480SR-Clean

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-Oct-11	00:00	00:15	0.25	724	745	Sliding	Sliding - (WOB: 15;GPM :460; TFO:170R))
27-Oct-11	00:15	00:45	0.50	745	772	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
27-Oct-11	00:45	01:30	0.75	772	772	Circulating	Circulating and Condition hole, clean and clear flowline.
27-Oct-11	01:30	01:50	0.33	772	816	Drilling	Drilling - (WOB:15;GPM :460;RPM:60)
27-Oct-11	01:50	02:00	0.17	816	816	Survey & Conn.	Survey & Conn. @771_Inc 5.1°_Azm 76.3°
27-Oct-11	02:00	03:00	1.00	816	908	Drilling	Drilling - (WOB:15;GPM :460;RPM:60)
27-Oct-11	03:00	03:10	0.17	908	908	Survey & Conn.	Survey & Conn. @863_Inc 4.6°_Azm 78.3°
27-Oct-11	03:10	03:30	0.33	908	918	Sliding	Sliding - (WOB:15;GPM :460;TFO:15L))
27-Oct-11	03:30	04:20	0.83	918	1000	Drilling	Drilling - (WOB:15;GPM :460;RPM:60)
27-Oct-11	04:20	04:30	0.17	1000	1000	Survey & Conn.	Survey & Conn. @955_Inc 5.0°_Azm 73.5°
27-Oct-11	04:30	05:00	0.50	1000	1000	Rig repair	Black Out
27-Oct-11	05:00	06:00	1.00	1000	1092	Drilling	Drilling - (WOB:15;GPM :525;RPM:60)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-Oct-11	06:00	06:10	0.17	1092	1092	Survey & Conn.	Survey & Conn.@1047_Inc 5.10°_Azm 75.1°
27-Oct-11	06:10	06:25	0.25	1092	1092	Other	Troubleshoot autodriller
27-Oct-11	06:25	06:35	0.17	1092	1134	Drilling	Drilling - (WOB:15;GPM :525;RPM:60)
27-Oct-11	06:35	06:50	0.25	1134	1134	Connection	Connection
27-Oct-11	06:50	11:05	4.25	1134	1134	Rig repair	Flow Line Packed Off
27-Oct-11	11:05	18:00	6.92	1134	1134	POOH	POOH, To CLean Boot, LD 8 Inch Items
27-Oct-11	18:00	18:15	0.25	1134	1134	Change BHA	Clean boot off bit
27-Oct-11	18:15	20:30	2.25	1134	1134	TIH	TIH
27-Oct-11	20:30	21:15	0.75	1134	1134	Other	Clean and clear flowline
27-Oct-11	21:15	21:30	0.25	1100	1134	Reaming	Safety ream to bottom
27-Oct-11	21:30	21:40	0.17	1134	1167	Drilling	Drilling - (WOB:15;GPM :525;RPM:60)
27-Oct-11	21:40	21:45	0.08	1167	1167	Survey & Conn.	Survey & Conn.@1123_Inc 5.1°_Azm 74°
27-Oct-11	21:45	22:00	0.25	1167	1192	Sliding	Sliding - (WOB:14;GPM :460;TFO:80L))
27-Oct-11	22:00	22:30	0.50	1192	1253	Drilling	Drilling - (WOB:15;GPM :525;RPM:60)
27-Oct-11	22:30	22:35	0.08	1253	1253	Survey & Conn.	Survey & Conn.@1208_Inc 5.5°_Azm 60.6°
27-Oct-11	22:35	23:00	0.42	1253	1338	Drilling	Drilling - (WOB:15;GPM :525;RPM:60)
27-Oct-11	23:00	23:05	0.08	1338	1338	Survey & Conn.	Survey & Conn.@1208_Inc 5.4°_Azm 59.8°
27-Oct-11	23:05	23:35	0.50	1338	1411	Drilling	Drilling - (WOB:15;GPM :525;RPM:60)
27-Oct-11	23:35	23:40	0.08	1411	1411	MWD Survey	MWD Survey@1366_Inc 5.2°_Azm 60.2°
27-Oct-11	23:40	24:00	0.33	1411	1411	Circulating	TD SURFACE: CIRC BOTTOMS UP.



JOB NO.:	DDOK-110553	Report Time:	2400	5 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Friday, October 28, 2011 at 0000 to Friday, October 28, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	15	Pick UP	70	Slack Off	60	SPM		
End Depth	0.00	Circulating Hours	0.92	RAB	64	SPP	1455	FlowRate	525 - 525	136		
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data								
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	H2O			PV	10	SOLID	4	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	8.8	GAS	0	YP	10	BHT°	100	
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	36	SAND	0.25	PH	8.5	Flow T°	55	
Below Rotary Hrs.	7.75	Percent Slide:	NA	Chlorides	200	WL	15			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 2:12 1/4 VAREL CH1GJMS 3x16 & 1x18 TFA .837, 7 3/4 MPACT 4/5ML 5.3STG .25RPG, 8" Float Sub, 8" UBHO, 8 " NMDC, XO 6 5/8 PIN x 4 1/2 XH BOX, 9- 6 1/2 DC, XO 4 1/2 XH PIN x XT39 BOX, 24 Joints 4 Hevi, ,				
Second Directional :	Aaron Suttée			9 5/8	36	1409						
MWD Operator1	Chris Anderson			7	26	6950						
MWD Operator2	Lee Mader			Signature:								
Directional Company:	Multi Shot Directional											
Geologist:												
Company Man:	Phil Wilson							Daily Cost		\$9,260.00		
Incl. In:	5.2	Azm. In:	60.2	Incl. Out:	5.2	Azm. Out:	60.2	Cummulative Cost:		\$38,260.00		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-Oct-11	00:00	00:10	0.17	1411	1411	Circulating	CON'T CIRCULATING BOTTOMS UP.
28-Oct-11	00:10	00:45	0.58	1411	1411	Other	BLOW DOWN TOPDRIVE.
28-Oct-11	00:45	01:50	1.08	1411	1411	POOH	WIPER TRIP TO 500': NO TIGHT SPOTS NOTED.
28-Oct-11	01:50	02:45	0.92	1411	1411	TIH	RUN BACK TO BOTTOM: NO TIGHT SPOTS NOTED.
28-Oct-11	02:45	03:30	0.75	1411	1411	Circulating	CIRCULATING BOTTOMS UP.
28-Oct-11	03:30	04:15	0.75	1411	1411	Other	BLOW DOWN TOPDRIVE.
28-Oct-11	04:15	06:45	2.50	1411	1411	POOH	POOH TO L/D 8" DIRECTIONAL ASSEMBLY AND PREP TO RUN 9 5/8" CSG.
28-Oct-11	06:45	07:45	1.00	1411	1411	Change BHA	LD Directional Tools Motor Drained And Tested Good (Winterized)
28-Oct-11	07:45	24:00	16.25	1411	1411	Standby	Run Casing, Cement, Nipple BOP's, Test BOP's



JOB NO.:	DDOK-110553	Report Time:	2400	6 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Saturday, October 29, 2011 at 0000 to Saturday, October 29, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth	0.00		Rotary Hours	0.00		WOB	15		Pick UP	70		Slack Off	60		SPM		
End Depth	0.00		Circulating Hours	0.00		RAB	64		SPP	1455		FlowRate	525 - 525		136		
Total Drilled:	0.00		Avg. Total ROP:	NA		Mud Data											
Total Rotary Drilled:	0.00		Avg. Rotary ROP:	NA		Type	H2O				PV	10		SOLID	4		
Total Drilled Sliding:	0.00		Avg. Slide ROP:	NA		Weight	8.8		GAS	0		YP	10		BHT°	100	
Slide Hours:	0.00		Percent Rotary:	NA		Viscosity	36		SAND	0.25		PH	8.5		Flow T°	55	
Below Rotary Hrs.	1.00		Percent Slide:	NA		Chlorides	200		WL	15					Oil %	0	
PERSONNEL						CASING						BHA					
Lead Directional :		Tom Beckett				Size		Lb/ft		Set Depth		BHA # 3:8 3/4 ULTERRA U519M 5x16 TFA .981, 6 3/4 Mpack 7/8ML 6.4 Stg .28Rpg Set @ 1.5° FBH, 6 3/4 Float Sub , 6 13/16 XO PIN TO PIN, GRT RESISTIVITY , 6 3/4 NMDC, 6 3/4 NMPDC, 6 3/4 XO 4 1/2IF PINx4 1/2XH BOX, 8 1/2 4 BLADE, 9- 6 1/2 DC, XO 4 1/2 XH PIN x XT39 BOX, 24 Joints 4 Hevi, ,					
Second Directional :		Aaron Sutttee				9 5/8		36		1409							
MWD Operator1		Chris Anderson				7		26		6950							
MWD Operator2		Lee Mader				Signature:											
Directional Company:		Multi Shot Directional															
Geologist:																	
Company Man:		Phil Wilson										Daily Cost		\$7,050.00			
Incl. In:	5.2	Azm. In:	60.2	Incl. Out:	0							Azm. Out:	0	Cummulative Cost:		\$45,310.00	

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Oct-11	00:00	23:00	23.00	1411	1411	Standby	Run Casing, Cement, Nipple up BOP's, Test BOP's
29-Oct-11	23:00	23:15	0.25	1411	1411	Other	PJSM ON P/U BHA # 3.
29-Oct-11	23:15	24:00	0.75	1411	1411	Change BHA	P/U and M/U 6 3/4" MOTOR, FLOAT SUB (INSTALL FLOAT) and DOUBLE PIN SUB.



JOB NO.:	DDOK-110553	Report Time:	2400	7 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Sunday, October 30, 2011 at 0000 to Sunday, October 30, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	1411.00	Rotary Hours	14.58	WOB	20	Pick UP	70	Slack Off	60	SPM	
End Depth	3700.00	Circulating Hours	1.42	RAB	64	SPP	2425	FlowRate	320 - 525	120	
Total Drilled:	2289.00	Avg. Total ROP:	139.43	Mud Data							
Total Rotary Drilled:	2191.00	Avg. Rotary ROP:	150.24	Type	H20			PV	2	SOLID	2
Total Drilled Sliding:	98.00	Avg. Slide ROP:	53.45	Weight	8.5	GAS	0	YP	2	BHT°	100
Slide Hours:	1.83	Percent Rotary:	95.72	Viscosity	29	SAND	0.25	PH	9	Flow T°	55
Below Rotary Hrs.	23.67	Percent Slide:	4.28	Chlorides	230	WL	30			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 3:8 3/4 ULTERRA U519M 5x16 TFA .981, 6 3/4 Mpac7 7/8ML 6.4 Stg .28Rpg Set @ 1.5° FBH, 6 3/4 Float Sub , 6 13/16 XO PIN TO PIN, GRT RESISTIVITY , 6 3/4 NMDC, 6 3/4 NMPDC, 6 3/4 XO 4 1/2IF PINx4 1/2XH BOX, 8 1/2 4 BLADE, 9- 6 1/2 DC, XO 4 1/2 XH PIN x XT39 BOX, 24 Joints 4 Hevi, ,			
Second Directional :	Aaron Suttie			9 5/8	36	1409					
MWD Operator1	Chris Anderson			Signature:							
MWD Operator2	Lee Mader										
Directional Company:	Multi Shot Directional										
Geologist:											
Company Man:	Phil Wilson					Daily Cost		\$7,050.00			
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:		\$52,360.00	

GENERAL COMMENT

7 3/4, 4/5, 5.3, MSD77D110D-Dirty(Winterized)
 7 3/4, 4/5, 5.3, MSD77D126D-Clean
 6 3/4, MSD67D1094SR-Clean
 6 3/4, MSD67D1177SR-Clean
 6 3/4, MSD67D1054SR-Clean
 6 3/4, MSD67D1458SR-(In Hole)
 6 3/4, MSD67D1231SR-Clean
 4 3/4, 5/6, 8.3, MSD47D2597SR-Clean
 4 3/4, 5/6, 8.3, MSD47D2486SR-Clean
 4 3/4, 5/6, 8.3, MSD47D2480SR-Clean

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Oct-11	00:20	00:30	0.17	1411	1411	TIH	SCRIBE TOOLS.
30-Oct-11	00:30	00:45	0.25	1411	1411	TIH	PLUG INTO GRT and DUMP MEMORY, VERIFY and SET TOOL TO BEGIN LOGGING.
30-Oct-11	00:45	00:55	0.17	1411	1411	Circulating	TEST MWD: GOOD.
30-Oct-11	00:55	01:00	0.08	1411	1411	TIH	P/U and M/U BIT.
30-Oct-11	01:00	01:45	0.75	1411	1411	TIH	P/U and M/U NMPDC, XO and STAB.
30-Oct-11	01:45	04:00	2.25	1411	1411	TIH	TIH TO 1283'.
30-Oct-11	04:00	04:30	0.50	1411	1411	Circulating	TEST CASING @ 1500 PSI.
30-Oct-11	04:30	04:45	0.25	1411	1411	TIH	TIH TO 1366' TAG PLUG.
30-Oct-11	04:45	05:30	0.75	1411	1411	Drilling Cement	DRILL SHOE TRACK.
30-Oct-11	05:30	05:45	0.25	1411	1421	Drilling	Drilling - (WOB:15;GPM :400;RPM:50)
30-Oct-11	05:45	06:00	0.25	1421	1421	Circulating	FIT TEST @ 10.5 PPG.
30-Oct-11	06:00	07:45	1.75	1421	1543	Drilling	Drilling - (WOB:15;GPM :400;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Oct-11	07:45	07:50	0.08	1543	1543	Survey & Conn.	Survey & Conn.@1482_Inc 5.2°_Azm 64.1°
30-Oct-11	07:50	08:20	0.50	1543	1555	Sliding	Sliding - (WOB:14;GPM :525;TFO:30R))Diagnose Auto Driller
30-Oct-11	08:20	08:30	0.17	1555	1628	Drilling	Drilling - (WOB:10;GPM :400;RPM:40)
30-Oct-11	08:30	08:35	0.08	1628	1628	Survey & Conn.	Survey & Conn.@1567_Inc 6.7°_Azm 68.8°
30-Oct-11	08:35	09:00	0.42	1628	1713	Drilling	Drilling - (WOB:10;GPM :400;RPM:40)
30-Oct-11	09:00	09:05	0.08	1713	1713	Survey & Conn.	Survey & Conn.@1653_Inc 6.7°_Azm 73.2°
30-Oct-11	09:05	09:15	0.17	1713	1719	Sliding	Sliding - (WOB:14;GPM :525;TFO:30R))
30-Oct-11	09:15	09:35	0.33	1719	1798	Drilling	Drilling - (WOB:10;GPM :400;RPM:40)
30-Oct-11	09:35	09:40	0.08	1798	1798	Survey & Conn.	Survey & Conn.@1738_Inc 7.7°_Azm 68.8°
30-Oct-11	09:40	10:10	0.50	1798	1883	Drilling	Drilling - (WOB:10;GPM :400;RPM:40)
30-Oct-11	10:10	10:15	0.08	1883	1883	Survey & Conn.	Survey & Conn.@1823_Inc 7.7°_Azm 66.4°
30-Oct-11	10:15	11:00	0.75	1883	1966	Drilling	Drilling - (WOB:15;GPM :400;RPM:40)
30-Oct-11	11:00	11:05	0.08	1966	1966	Survey & Conn.	Survey & Conn.@1906_Inc 7.6°_Azm 66.2°
30-Oct-11	11:05	11:10	0.08	1966	1972	Sliding	Sliding - (WOB:14;GPM :525;TFO:10L))
30-Oct-11	11:10	11:35	0.42	1972	2052	Drilling	Drilling - (WOB:15;GPM :400;RPM:40)
30-Oct-11	11:35	11:40	0.08	2052	2052	Survey & Conn.	Survey & Conn.@1991_Inc 7.7°_Azm 70.9°
30-Oct-11	11:40	12:20	0.67	2052	2137	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
30-Oct-11	12:20	12:25	0.08	2137	2137	Survey & Conn.	Survey & Conn.@2076_Inc 7.6°_Azm 70.6°
30-Oct-11	12:25	12:55	0.50	2137	2222	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
30-Oct-11	12:55	13:00	0.08	2222	2222	Survey & Conn.	Survey & Conn.@2162_Inc 7.6°_Azm 71.8°
30-Oct-11	13:00	13:40	0.67	2222	2307	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
30-Oct-11	13:40	13:45	0.08	2307	2307	Survey & Conn.	Survey & Conn.@2247_Inc °_Azm °
30-Oct-11	13:45	13:50	0.08	2307	2313	Sliding	Sliding - (WOB:14;GPM :525;TFO:30L))
30-Oct-11	13:50	14:20	0.50	2313	2393	Drilling	Drilling - (WOB:15;GPM :460;RPM:50)
30-Oct-11	14:20	14:25	0.08	2393	2393	Survey & Conn.	Survey & Conn.@2332_Inc 8.3°_Azm 69°
30-Oct-11	14:25	15:30	1.08	2393	2478	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
30-Oct-11	15:30	16:00	0.50	2478	2478	Rig Service-Inhole	Rig Service-Inhole
30-Oct-11	16:00	16:05	0.08	2478	2478	Survey & Conn.	Survey & Conn.@2417_Inc 8.3°_Azm 68.8°
30-Oct-11	16:05	16:25	0.33	2478	2563	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
30-Oct-11	16:25	16:30	0.08	2563	2563	Survey & Conn.	Survey & Conn.@2503_Inc 8.3°_Azm 67.6°
30-Oct-11	16:30	17:25	0.92	2563	2733	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
30-Oct-11	17:25	17:40	0.25	2733	2733	Survey & Conn.	Survey & Conn.@2673_Inc 7.4°_Azm 64.4°
30-Oct-11	17:40	17:50	0.17	2733	2739	Sliding	Sliding - (WOB:14;GPM :525;TFO:45R))
30-Oct-11	17:50	19:30	1.67	2739	2989	Drilling	Drilling - (WOB:16;GPM :460;RPM:50)
30-Oct-11	19:30	19:35	0.08	2989	2989	Survey & Conn.	Survey & Conn.@2929_Inc 7.4°_Azm 64.9°
30-Oct-11	19:35	19:50	0.25	2989	3001	Sliding	Sliding - (WOB:20;GPM :460;TFO:85R))
30-Oct-11	19:50	21:25	1.58	3001	3330	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
30-Oct-11	21:25	21:35	0.17	3330	3330	Survey & Conn.	Survey & Conn.@3270_Inc 7.0°_Azm 67.6°
30-Oct-11	21:35	21:55	0.33	3330	3415	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
30-Oct-11	21:55	22:00	0.08	3415	3415	Survey & Conn.	Survey & Conn.@3355_Inc 6.2°_Azm 66.9°
30-Oct-11	22:00	22:25	0.42	3415	3435	Sliding	Sliding - (WOB:20;GPM :460;TFO:45R))
30-Oct-11	22:25	22:45	0.33	3435	3500	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
30-Oct-11	22:45	23:00	0.25	3500	3500	Survey & Conn.	Survey & Conn.@3440_Inc 6.5°_Azm 69.2°
30-Oct-11	23:00	23:10	0.17	3500	3530	Sliding	Sliding - (WOB:22;GPM :460;TFO:45R))
30-Oct-11	23:10	23:30	0.33	3530	3586	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
30-Oct-11	23:30	23:35	0.08	3586	3586	Survey & Conn.	Survey & Conn.@3525_Inc 7.2°_Azm 69.5°
30-Oct-11	23:35	23:55	0.33	3586	3700	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Oct-11	23:55	24:00	0.08	3700	3700	Survey & Conn.	Survey & Conn.@3610_Inc 8.1°_Azm 70.4°



JOB NO.:	DDOK-110553	Report Time:	2400	8 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Monday, October 31, 2011 at 0000 to Monday, October 31, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters						
Start Depth	3700.00	Rotary Hours	14.08	WOB	25	Pick UP	100	Slack Off	75	SPM		
End Depth	5886.00	Circulating Hours	2.08	RAB	85	SPP	2225	FlowRate	460 - 460	120		
Total Drilled:	2186.00	Avg. Total ROP:	117.11	Mud Data								
Total Rotary Drilled:	2028.00	Avg. Rotary ROP:	144.00	Type	H2O			PV	2	SOLID	2	
Total Drilled Sliding:	158.00	Avg. Slide ROP:	34.47	Weight	8.5	GAS	0	YP	2	BHT°	100	
Slide Hours:	4.58	Percent Rotary:	92.77	Viscosity	29	SAND	0.25	PH	9	Flow T°	55	
Below Rotary Hrs.	24.00	Percent Slide:	7.23	Chlorides	230	WL	30			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 3:8 3/4 ULTERRA U519M 5x16 TFA .981, 6 3/4 Mpac 7/8ML 6.4 Stg .28Rpg Set @ 1.5° FBH, 6 3/4 Float Sub , 6 13/16 XO PIN TO PIN, GRT RESISTIVITY , 6 3/4 NMDC, 6 3/4 NMPDC, 6 3/4 XO 4 1/2IF PINx4 1/2XH BOX, 8 1/2 4 BLADE, 9- 6 1/2 DC, XO 4 1/2 XH PIN x XT39 BOX, 24 Joints 4 Hevi, ,				
Second Directional :	Aaron Sutte			9 5/8	36	1409						
MWD Operator1	Chris Anderson			Signature:								
MWD Operator2	Alberto Bellina											
Directional Company:	Multi Shot Directional											
Geologist:												
Company Man:	Phil Wilson						Daily Cost		\$7,050.00			
Incl. In:	5	Azm. In:	69	Incl. Out:	0.4	Azm. Out:	263.2	Cummulative Cost:		\$59,410.00		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
31-Oct-11	00:00	00:15	0.25	3700	3756	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	00:15	00:20	0.08	3756	3756	Survey & Conn.	Survey & Conn.@3696_Inc 8.4°_Azm 70.7°
31-Oct-11	00:20	01:20	1.00	3756	3776	Sliding	Sliding - (WOB:22;GPM :460;TFO:45R))
31-Oct-11	01:20	03:25	2.08	3776	4181	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	03:25	03:30	0.08	4181	4181	Survey & Conn.	Survey & Conn.@4120_Inc 7.2°_Azm 72.2°
31-Oct-11	03:30	03:55	0.42	4181	4264	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	03:55	04:00	0.08	4264	4264	Survey & Conn.	Survey & Conn.@4204_Inc 6.7°_Azm 73.2°
31-Oct-11	04:00	04:25	0.42	4264	4284	Sliding	Sliding - (WOB:22;GPM :460;TFO: 45L))
31-Oct-11	04:25	04:45	0.33	4284	4351	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	04:45	05:15	0.50	4351	4351	Rig Service-Inhole	Rig Service-Inhole
31-Oct-11	05:15	05:20	0.08	4351	4351	Survey & Conn.	Survey & Conn.@4289_Inc 8.3°_Azm 68.1°
31-Oct-11	05:20	06:15	0.92	4351	4617	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	06:15	06:35	0.33	4617	4617	Survey & Conn.	Survey & Conn.@4546_Inc 7°_Azm 70.6°
31-Oct-11	06:35	08:00	1.42	4617	4706	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	08:00	08:20	0.33	4706	4721	Sliding	Sliding - (WOB:20;GPM :460;TFO:45L))
31-Oct-11	08:20	08:35	0.25	4721	4777	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	08:35	08:40	0.08	4777	4777	Survey & Conn.	Survey & Conn.@4717_Inc 7.9°_Azm 72.3°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
31-Oct-11	08:40	09:20	0.67	4777	4948	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	09:20	09:40	0.33	4948	4948	Survey & Conn.	Survey & Conn.@4887_Inc 7.9°_Azm 73.7°
31-Oct-11	09:40	10:25	0.75	4948	5000	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	10:25	10:40	0.25	5000	5008	Sliding	Sliding - (WOB:20;GPM :460;TFO:10R))
31-Oct-11	10:40	10:50	0.17	5008	5033	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	10:50	10:55	0.08	5033	5033	Survey & Conn.	Survey & Conn.@4973_Inc 7.6°_Azm 75.3°
31-Oct-11	10:55	11:05	0.17	5033	5065	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	11:05	11:20	0.25	5065	5075	Sliding	Sliding - (WOB:20;GPM :460;TFO:60L))
31-Oct-11	11:20	11:40	0.33	5075	5119	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	11:40	11:45	0.08	5119	5119	Survey & Conn.	Survey & Conn.@5058_Inc 7.7°_Azm 68.5°
31-Oct-11	11:45	13:30	1.75	5119	5374	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	13:30	14:00	0.50	5374	5374	Survey & Conn.	Survey & Conn.@5314_Inc 0°_Azm 0°
31-Oct-11	14:00	14:40	0.67	5374	5408	Drilling	Drilling - (WOB:20;GPM :460;RPM:50)
31-Oct-11	14:40	14:50	0.17	5408	5415	Sliding	Sliding - (WOB:20;GPM :460;TFO:80L))
31-Oct-11	14:50	15:10	0.33	5415	5460	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
31-Oct-11	15:10	15:15	0.08	5460	5460	Survey & Conn.	Survey & Conn.@5399_Inc 5.8°_Azm 66.7°
31-Oct-11	15:15	16:00	0.75	5460	5545	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
31-Oct-11	16:00	16:05	0.08	5545	5545	Survey & Conn.	Survey & Conn.@5484_Inc 5.1°_Azm 67.6°
31-Oct-11	16:05	17:00	0.92	5545	5566	Sliding	Sliding - (WOB:20;GPM :460;TFO:140R)
31-Oct-11	17:00	17:25	0.42	5566	5630	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
31-Oct-11	17:25	17:30	0.08	5630	5630	Survey & Conn.	Survey & Conn.@5569_Inc 4.0°_Azm 71.8°
31-Oct-11	17:30	17:55	0.42	5630	5652	Sliding	Sliding - (WOB:20;GPM :460;TFO:135R)
31-Oct-11	17:55	18:30	0.58	5652	5715	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
31-Oct-11	18:30	18:35	0.08	5715	5715	Survey & Conn.	Survey & Conn.@5655_Inc 2.5°_Azm 77.6°
31-Oct-11	18:35	19:25	0.83	5715	5750	Sliding	Sliding - (WOB:30;GPM :460;TFO:270M))
31-Oct-11	19:25	19:55	0.50	5750	5800	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
31-Oct-11	19:55	20:00	0.08	5800	5800	Survey & Conn.	Survey & Conn.@5740_Inc 0.5°_Azm 39.1°
31-Oct-11	20:00	21:20	1.33	5800	5886	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
31-Oct-11	21:20	21:25	0.08	5886	5886	Survey & Conn.	Survey & Conn.@5825_Inc .4°_Azm 263.2°
31-Oct-11	21:25	23:00	1.58	5886	5886	Circulating	CIRCULATE BOTTOMS UP, PUMP 25 BBL SWEEP AND MONITOR SHAKERS UNTIL CLEAN.
31-Oct-11	23:00	24:00	1.00	5886	5886	POOH	POOH To PU Curve Assy



JOB NO.:	DDOK-110553	Report Time:	2400	9 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Tuesday, November 01, 2011 at 0000 to Tuesday, November 01, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth		5886.00	Rotary Hours		1.17	WOB		30	Pick UP		100	Slack Off		75	SPM		
End Depth		5905.00	Circulating Hours		6.50	RAB		85	SPP		2225	FlowRate		460 - 460	120		
Total Drilled:		19.00	Avg. Total ROP:		8.77	Mud Data											
Total Rotary Drilled:		8.00	Avg. Rotary ROP:		6.86	Type	H2O				PV	9	SOLID	4			
Total Drilled Sliding:		11.00	Avg. Slide ROP:		11.00	Weight		9	GAS	0	YP	11	BHT°	131			
Slide Hours:		1.00	Percent Rotary:		42.11	Viscosity		43	SAND	4	PH	9	Flow T°	90			
Below Rotary Hrs.		22.75	Percent Slide:		57.89	Chlorides		200	WL	7			Oil %	0			
PERSONNEL						CASING						BHA					
Lead Directional :		Tom Beckett				Size		Lb/ft		Set Depth		BHA # 4:8 3/4 ULTERRA UD516 5x16 3x8TFA 1.128, 6 3/4 Mpact 6/7ML 5.0 Stg .28Rpg Set @ 2.12° FBH, 6 3/4 Float Sub , 6 13/16 XO PIN TO PIN, GRT RESISTIVITY , 6 3/4 NMDC, 6 3/4 NMFDC, 5 1/16 XO 4 1/2 IFPINx XT39 BOX, 13 Stands 4 Drill Pipe, 24 Joints 4 Hevi, ,					
Second Directional :		Aaron Suttée				9 5/8		36		1409							
MWD Operator1		Chris Anderson				Signature:											
MWD Operator2		Alberto Bellina															
Directional Company:		Multi Shot Directional															
Geologist:																	
Company Man:		Phil Wilson										Daily Cost		\$8,910.00			
Incl. In:	0.4	Azm. In:	263.2	Incl. Out:	0	Azm. Out:		0	Cummulative Cost:		\$68,320.00						

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
1-Nov-11	00:00	05:00	5.00	5886	5886	POOH	POOH, To PU Curve Assy.LD 9DC
1-Nov-11	05:00	05:30	0.50	5886	5886	Change BHA	Change BHA
1-Nov-11	05:30	08:45	3.25	5886	5886	Other	LD And PU Curve BHA
1-Nov-11	08:45	09:45	1.00	5886	5886	Other	Plug In & Dump Res Tool
1-Nov-11	09:45	11:30	1.75	5886	5886	TIH	TIH, To Shoe
1-Nov-11	11:30	13:00	1.50	5886	5886	Reaming	Wash Ream To 2200, UD 516 Bit Unable To Follow U 519M Well Bore Without Reaming To Bottom
1-Nov-11	13:00	13:10	0.17	5886	5886	Circulating	Test MWD
1-Nov-11	13:10	15:45	2.58	5886	5886	TIH	TIH,To 5619 Going TO Bottom Without Pumps
1-Nov-11	15:45	17:00	1.25	5886	5886	P/U DP	P/U DP,
1-Nov-11	17:00	17:20	0.33	5886	5886	Circulating	WASH TP BOTTOM.
1-Nov-11	17:20	18:30	1.17	5886	5894	Drilling	Drilling - (WOB:25;GPM :460;RPM:50)
1-Nov-11	18:30	23:00	4.50	5894	5894	Circulating	RE-LOG F/ 5618' - 5694'.
1-Nov-11	23:00	24:00	1.00	5894	5905	Sliding	Sliding - (WOB:30;GPM :460;TFO:180M)



JOB NO.:	DDOK-110553	Report Time:	2400	10 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Wednesday, November 02, 2011 at 0000 to Wednesday, November 02, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	5905.00	Rotary Hours	3.50	WOB	22	Pick UP	100	Slack Off	75	SPM		
End Depth	6450.00	Circulating Hours	1.33	RAB	85	SPP	2225	FlowRate	460 - 460	120		
Total Drilled:	545.00	Avg. Total ROP:	28.19	Mud Data								
Total Rotary Drilled:	152.00	Avg. Rotary ROP:	43.43	Type	H2O			PV	16	SOLID	4	
Total Drilled Sliding:	393.00	Avg. Slide ROP:	24.82	Weight	9	GAS	0	YP	4	BHT°	127	
Slide Hours:	15.83	Percent Rotary:	27.89	Viscosity	41	SAND	4	PH	9	Flow T°	100	
Below Rotary Hrs.	24.00	Percent Slide:	72.11	Chlorides	550	WL	8			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 4:8 3/4 ULTERRA UD516 5x16 3x8TFA 1.128, 6 3/4 Mpact 6/7ML 5.0 Stg .28Rpg Set @ 2.12° FBH, 6 3/4 Float Sub , 6 13/16 XO PIN TO PIN, GRT RESISTIVITY , 6 3/4 NMDC, 6 3/4 NMFDC, 5 1/16 XO 4 1/2 IFPINx XT39 BOX, 13 Stands 4 Drill Pipe, 24 Joints 4 Hevi, ,				
Second Directional :	Aaron Suttée			9 5/8	36	1409						
MWD Operator1	Chris Anderson			Signature:								
MWD Operator2	Alberto Bellina											
Directional Company:	Multi Shot Directional											
Geologist:												
Company Man:	Phil Wilson					Daily Cost		\$7,050.00				
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:		\$75,370.00		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
2-Nov-11	00:00	00:30	0.50	5905	5913	Drilling	Drilling - (WOB:30;GPM :460;RPM:50)
2-Nov-11	00:30	01:45	1.25	5913	5925	Sliding	Sliding - (WOB:30;GPM :460;TFO:270M)
2-Nov-11	01:45	02:30	0.75	5925	5960	Drilling	Drilling - (WOB:30;GPM :460;RPM:50)
2-Nov-11	02:30	03:00	0.50	5960	5960	Rig Service-Inhole	Rig Service-Inhole
2-Nov-11	03:00	03:05	0.08	5960	5960	Survey & Conn.	Survey & Conn. @5960_Inc .7°_Azm 198.4°
2-Nov-11	03:05	05:10	2.08	5960	6030	Sliding	Sliding - (WOB:30;GPM :460;TFO:180M))
2-Nov-11	05:10	05:25	0.25	6030	6045	Drilling	Drilling - (WOB:15;GPM :460;RPM:40)
2-Nov-11	05:25	05:35	0.17	6045	6045	Survey & Conn.	Survey & Conn. @5989_Inc 6.9°_Azm 189.9°
2-Nov-11	05:35	06:30	0.92	6045	6100	Sliding	Sliding - (WOB:22;GPM :460;TFO:10R))
2-Nov-11	06:30	06:55	0.42	6100	6130	Drilling	Drilling - (WOB:15;GPM :460;RPM:40)
2-Nov-11	06:55	07:00	0.08	6130	6130	Survey & Conn.	Survey & Conn. @6074_Inc 17.1°_Azm 186.9°
2-Nov-11	07:00	07:20	0.33	6130	6144	Drilling	Drilling - (WOB:15;GPM :460;RPM:40)
2-Nov-11	07:20	08:10	0.83	6144	6154	Sliding	Sliding - (WOB:22;GPM :460;TFO:30R))
2-Nov-11	08:10	10:10	2.00	6154	6154	Work Pipe	Work Pipe, While Sliding Took Diff Spike, Pipe Stuck, Work Pipe Pump 50 BBL Fresh water Pull Free.
2-Nov-11	10:10	10:50	0.67	6154	6159	Sliding	Sliding - (WOB:22;GPM :460;TFO:30R))
2-Nov-11	10:50	10:55	0.08	6159	6159	Circulating	Mix Sweep Pump Sweep 10 BBL every 15 Min. While Sliding

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
2-Nov-11	10:55	12:00	1.08	6159	6208	Sliding	Sliding - (WOB:22;GPM :460;TFO:30R))
2-Nov-11	12:00	12:30	0.50	6208	6208	Rig repair	# 1 Pump Died XO To # 2 To Finish Slide
2-Nov-11	12:30	12:50	0.33	6208	6215	Sliding	Sliding - (WOB:22;GPM :460;TFO:30R))
2-Nov-11	12:50	13:00	0.17	6215	6215	Survey & Conn.	Survey & Conn.@6159_Inc 21.5°_Azm 186.8°
2-Nov-11	13:00	13:30	0.50	6215	6215	Rig Service-Inhole	Rig Service-Inhole
2-Nov-11	13:30	17:30	4.00	6215	6296	Sliding	Sliding - (WOB:22;GPM :460;TFO:30R))
2-Nov-11	17:30	17:35	0.08	6296	6296	MWD Survey	MWD Survey@6159_Inc 6202°_Azm 26.6°
2-Nov-11	17:35	17:50	0.25	6296	6301	Drilling	Drilling - (WOB:15;GPM :460;RPM:40)
2-Nov-11	17:50	18:00	0.17	6301	6301	Survey & Conn.	Survey & Conn.@6244_Inc 32°_Azm 185.2°
2-Nov-11	18:00	19:30	1.50	6301	6361	Sliding	Sliding - (WOB:22;GPM :460;TFO:30L))
2-Nov-11	19:30	19:40	0.17	6361	6361	MWD Survey	MWD Survey@6287_Inc 37.1°_Azm 184.7°
2-Nov-11	19:40	20:10	0.50	6361	6386	Drilling	Drilling - (WOB:20;GPM :460;RPM:40)
2-Nov-11	20:10	20:15	0.08	6386	6386	Survey & Conn.	Survey & Conn.@6329_Inc 42.8°_Azm 181.3°
2-Nov-11	20:15	22:30	2.25	6386	6408	Sliding	Sliding - (WOB:22;GPM :460;TFO:30L))
2-Nov-11	22:30	23:00	0.50	6408	6428	Drilling	Drilling - (WOB:20;GPM :460;RPM:40)
2-Nov-11	23:00	23:05	0.08	6428	6428	Survey & Conn.	Survey & Conn.@6372_Inc 45.2°_Azm 178.1°
2-Nov-11	23:05	24:00	0.92	6428	6450	Sliding	Sliding - (WOB:22;GPM :460;TFO:30L))



JOB NO.:	DDOK-110553	Report Time:	2400	11 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Thursday, November 03, 2011 at 0000 to Thursday, November 03, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	6450.00	Rotary Hours	7.17	WOB	80	Pick UP	100	Slack Off	75	SPM		
End Depth	6952.00	Circulating Hours	0.17	RAB	85	SPP	2275	FlowRate	460 - 460	120		
Total Drilled:	502.00	Avg. Total ROP:	21.91	Mud Data								
Total Rotary Drilled:	266.00	Avg. Rotary ROP:	37.12	Type	Water Base			PV	16	SOLID	3	
Total Drilled Sliding:	236.00	Avg. Slide ROP:	14.98	Weight	9.2	GAS	0	YP	11	BHT°	136	
Slide Hours:	15.75	Percent Rotary:	52.99	Viscosity	43	SAND	3	PH	9	Flow T°	110	
Below Rotary Hrs.	24.00	Percent Slide:	47.01	Chlorides	650	WL	7			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 4:8 3/4 ULTERRA UD516 5x16 3x8TFA 1.128, 6 3/4 Mpact 6/7ML 5.0 Stg .28Rpg Set @ 2.12° FBH, 6 3/4 Float Sub , 6 13/16 XO PIN TO PIN, GRT RESISTIVITY , 6 3/4 NMDC, 6 3/4 NMFDC, 5 1/16 XO 4 1/2 IFPINx XT39 BOX, 13 Stands 4 Drill Pipe, 24 Joints 4 Hevi, ,				
Second Directional :	Aaron Sutte			9 5/8	36	1409						
MWD Operator1	Chris Anderson			7	26	6950						
MWD Operator2	Alberto Bellina			Signature:								
Directional Company:	Multi Shot Directional											
Geologist:												
Company Man:	Phil Wilson							Daily Cost		\$7,050.00		
Incl. In:	0	Azm. In:	0					Incl. Out:	81.1	Azm. Out:	178.5	Cummulative Cost:

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
3-Nov-11	00:00	01:10	1.17	6450	6471	Sliding	Sliding - (WOB:22;GPM :460;TFO:30L)
3-Nov-11	01:10	01:15	0.08	6471	6471	Survey & Conn.	Survey & Conn.@6414_Inc 45.7°_Azm 175.7°
3-Nov-11	01:15	03:00	1.75	6471	6514	Sliding	Sliding - (WOB:22;GPM :460;TFO:5R)
3-Nov-11	03:00	03:05	0.08	6514	6514	MWD Survey	MWD Survey@6457_Inc 49.8°_Azm 174.8°
3-Nov-11	03:05	04:00	0.92	6514	6546	Sliding	Sliding - (WOB:22;GPM :460;TFO:15R)
3-Nov-11	04:00	04:15	0.25	6546	6556	Drilling	Drilling - (WOB:20;GPM :460;RPM:40)
3-Nov-11	04:15	04:30	0.25	6556	6556	Survey & Conn.	Survey & Conn.@6500_Inc 54.9°_Azm 176.7°
3-Nov-11	04:30	06:15	1.75	6556	6585	Sliding	Sliding - (WOB:22;GPM :460;TFO:360))
3-Nov-11	06:15	06:45	0.50	6585	6599	Drilling	Drilling - (WOB:20;GPM :460;RPM:40)
3-Nov-11	06:45	06:55	0.17	6599	6599	Survey & Conn.	Survey & Conn.@6542_Inc 60.9°_Azm 179.4°
3-Nov-11	06:55	09:15	2.33	6599	6631	Sliding	Sliding - (WOB:22;GPM :460;TFO:360)
3-Nov-11	09:15	12:50	3.58	6631	6727	Drilling	Drilling - (WOB:20;GPM :460;RPM:40)
3-Nov-11	12:50	12:55	0.08	6727	6727	Survey & Conn.	Survey & Conn.@6670_Inc °_Azm °
3-Nov-11	12:55	14:50	1.92	6727	6744	Sliding	Sliding - (WOB:22;GPM :460;TFO:360))
3-Nov-11	14:50	16:00	1.17	6744	6799	Drilling	Drilling - (WOB:20;GPM :460;RPM:40)
3-Nov-11	16:00	16:05	0.08	6799	6799	Circulating	CHECK SHOT.
3-Nov-11	16:05	17:30	1.42	6799	6812	Sliding	Sliding - (WOB:22;GPM :460;TFO:360))

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
3-Nov-11	17:30	17:35	0.08	6812	6812	Survey & Conn.	Survey & Conn.@6755_Inc 75°_Azm 179.7°
3-Nov-11	17:35	18:15	0.67	6812	6828	Sliding	Sliding - (WOB:22;GPM :460;TFO:360))
3-Nov-11	18:15	18:40	0.42	6828	6854	Drilling	Drilling - (WOB:24;GPM :460;RPM:40)
3-Nov-11	18:40	18:45	0.08	6854	6854	Survey & Conn.	Survey & Conn.@6798_Inc 76.7°_Azm 179.2°
3-Nov-11	18:45	19:30	0.75	6854	6897	Drilling	Drilling - (WOB:24;GPM :460;RPM:40)
3-Nov-11	19:30	19:35	0.08	6897	6897	Survey & Conn.	Survey & Conn.@6840_Inc °_Azm °
3-Nov-11	19:35	21:00	1.42	6897	6917	Sliding	Sliding - (WOB:22;GPM :460;TFO:360))
3-Nov-11	21:00	21:30	0.50	6917	6939	Drilling	Drilling - (WOB:24;GPM :460;RPM:40)
3-Nov-11	21:30	21:35	0.08	6939	6939	Survey & Conn.	Survey & Conn.@6883_Inc 81.1°_Azm 178.5°
3-Nov-11	21:35	24:00	2.42	6939	6952	Sliding	1Sliding - (WOB:22;GPM :460;TFO:360)



JOB NO.:	DDOK-110553	Report Time:	2400	12 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Friday, November 04, 2011 at 0000 to Friday, November 04, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth		6952.00	Rotary Hours		1.08	WOB		24	Pick UP		150	Slack Off		115	SPM		
End Depth		7060.00	Circulating Hours		3.25	RAB		133	SPP		2250	FlowRate		460 - 460	120		
Total Drilled:		108.00	Avg. Total ROP:		12.71	Mud Data											
Total Rotary Drilled:		60.00	Avg. Rotary ROP:		55.38	Type	Water Base				PV	16	SOLID	6			
Total Drilled Sliding:		48.00	Avg. Slide ROP:		6.47	Weight		9.3	GAS		0	YP	15	BHT°	136		
Slide Hours:		7.42	Percent Rotary:		55.56	Viscosity		45	SAND		6	PH	9	Flow T°	110		
Below Rotary Hrs.		22.50	Percent Slide:		44.44	Chlorides		650	WL	7				Oil %	0		
PERSONNEL						CASING						BHA					
Lead Directional :		Tom Beckett				Size		Lb/ft		Set Depth		BHA # 4:8 3/4 ULTERRA UD516 5x16 3x8TFA 1.128, 6 3/4 Mpact 6/7ML 5.0 Stg .28Rpg Set @ 2.12° FBH, 6 3/4 Float Sub , 6 13/16 XO PIN TO PIN, GRT RESISTIVITY , 6 3/4 NMDC, 6 3/4 NMFDC, 5 1/16 XO 4 1/2 IFPINx XT39 BOX, 13 Stands 4 Drill Pipe, 24 Joints 4 Hevi, ,					
Second Directional :		Aaron Sutte				9 5/8		36		1409							
MWD Operator1		Chris Anderson				7		26		6950							
MWD Operator2		Alberto Bellina															
Directional Company:		Multi Shot Directional				Signature:											
Geologist:																	
Company Man:		Phil Wilson															
Incl. In:		81.1	Azm. In:		178.5	Incl. Out:		90.3	Azm. Out:		179.4	Daily Cost		\$7,050.00			
												Cummulative Cost:		\$89,470.00			

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
4-Nov-11	00:00	05:30	5.50	6952	6982	Sliding	Sliding - (WOB:22;GPM :460;TFO:360)
4-Nov-11	05:30	05:40	0.17	6982	6982	Survey & Conn.	Survey & Conn.@6926_Inc 82.9°_Azm 179.3°
4-Nov-11	05:40	07:35	1.92	6982	7000	Sliding	Sliding - (WOB:65;GPM :460;TFO:360))
4-Nov-11	07:35	08:40	1.08	7000	7060	Drilling	Drilling - (WOB:24;GPM :460;RPM:40) TD
4-Nov-11	08:40	08:45	0.08	7060	7060	Survey & Conn.	Survey & Conn.@7005_Inc 90.3°_Azm 179.4°
4-Nov-11	08:45	10:00	1.25	7060	7060	Circulating	CIRCULATE BOTTOMS UP.
4-Nov-11	10:00	13:00	3.00	7060	7060	Short Trip	WIPER TRIP TO TOP OF CURVE.
4-Nov-11	13:00	14:30	1.50	7060	7060	Circulating	CIRCULATE BOTTOMS UP.
4-Nov-11	14:30	15:30	1.00	7060	7060	POOH	POOH.
4-Nov-11	15:30	16:00	0.50	7060	7060	Rig Service-Inhole	RIG SERVICE.
4-Nov-11	16:00	20:45	4.75	7060	7060	POOH	POOH.
4-Nov-11	20:45	21:00	0.25	7060	7060	POOH	OAS: PJSM L/D XO and NMFDC.
4-Nov-11	21:00	21:30	0.50	7060	7060	POOH	DUMP RESISTIVITY MEMORY.
4-Nov-11	21:30	21:45	0.25	7060	7060	POOH	PULL and L/D MWD TOOL.
4-Nov-11	21:45	22:00	0.25	7060	7060	POOH	L/D RESISTIVITY TOOL, NMDC and XO.
4-Nov-11	22:00	22:30	0.50	7060	7060	POOH	DRAIN MOTOR, BREAK BIT and L/D SAME.
4-Nov-11	22:30	24:00	1.50	7060	7060	Standby	PREP TO RUN 7" INTERMEDIATE STRING, STANDBY.



JOB NO.:	DDOK-110553	Report Time:	2400	13 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Saturday, November 05, 2011 at 0000 to Saturday, November 05, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters																	
Start Depth		0.00		Rotary Hours		0.00		WOB		24		Pick UP		150		Slack Off		115		SPM			
End Depth		0.00		Circulating Hours		0.00		RAB		133		SPP		2250		FlowRate		460 - 460		120			
Total Drilled:		0.00		Avg. Total ROP:		NA		Mud Data															
Total Rotary Drilled:		0.00		Avg. Rotary ROP:		NA		Type	Water Base					PV	16	SOLID	6						
Total Drilled Sliding:		0.00		Avg. Slide ROP:		NA		Weight		9.3		GAS	0	YP	15	BHT°	136						
Slide Hours:		0.00		Percent Rotary:		NA		Viscosity		45		SAND	6	PH	9	Flow T°	110						
Below Rotary Hrs.		0.75		Percent Slide:		NA		Chlorides		650		WL	7				Oil %	0					
PERSONNEL								CASING						BHA									
Lead Directional :				Tom Beckett				Size		Lb/ft		Set Depth		BHA # 5:6 1/8 BAKER QD405 5x16TFA .981, 4 3/4 Mpa 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH, 4 3/4 FLOAT SUB, 4 3/4 XO PIN TO PIN, GRT RESISTIVITY , 4 3/4 NMDC, 4 3/4 NMPDC, 4 3/4 XO 3 1/2 iIF PINxXT39BOX, 61 Stands 4 Drill Pipe, 16 Stands 4 Hevi, ,									
Second Directional :				Aaron Sutte				9 5/8		36		1409											
MWD Operator1				Chris Anderson				7		26		6950											
MWD Operator2				Alberto Bellina				Signature:															
Directional Company:				Multi Shot Directional																			
Geologist:																							
Company Man:				Phil Wilson														Daily Cost		\$9,135.00			
Incl. In:		90.3		Azm. In:		179.4												Incl. Out:		0		Azm. Out:	

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
5-Nov-11	00:00	23:15	23.25	7060	7060	Standby	RUN 7" INTERMEDIATE CSG, and CMT STRING, STANDBY.
5-Nov-11	23:15	23:30	0.25	7060	7060	Other	PJSM: P/U BHA.
5-Nov-11	23:30	24:00	0.50	7060	7060	Change BHA	P/U and M/U MOTOR, FLOAT SUB (FLOAT INSTALLED) and XO.



JOB NO.:	DDOK-110553	Report Time:	2400	14 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Sunday, November 06, 2011 at 0000 to Sunday, November 06, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	7060.00	Rotary Hours	5.42	WOB	20	Pick UP	150	Slack Off	120	SPM	
End Depth	7758.00	Circulating Hours	2.33	RAB	130	SPP	2230	FlowRate	0 - 268	70	
Total Drilled:	698.00	Avg. Total ROP:	56.21	Mud Data							
Total Rotary Drilled:	439.00	Avg. Rotary ROP:	81.05	Type	Water Base			PV	13	SOLID	5
Total Drilled Sliding:	259.00	Avg. Slide ROP:	37.00	Weight	9.2	GAS	0	YP	9	BHT°	158
Slide Hours:	7.00	Percent Rotary:	62.89	Viscosity	48	SAND	0.25	PH	9	Flow T°	90
Below Rotary Hrs.	24.00	Percent Slide:	37.11	Chlorides	650	WL	6			Oil %	0
PERSONNEL				CASING					BHA		
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 5:6 1/8 BAKER QD405 5x16TFA .981, 4 3/4 Mpack 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH, 4 3/4 FLOAT SUB, 4 3/4 XO PIN TO PIN, GRT RESISTIVITY , 4 3/4 NMDC, 4 3/4 NMPDC, 4 3/4 XO 3 1/2 iIF PINxXT39BOX, 61 Stands 4 Drill Pipe, 16 Stands 4 Hevi, ,			
Second Directional :	Aaron Suttée			9 5/8	36	1409					
MWD Operator1	Chris Anderson			7	26	6950					
MWD Operator2	Alberto Bellina			Signature:							
Directional Company:	Multi Shot Directional										
Geologist:											
Company Man:	Phil Wilson / Jay Sandquist								Daily Cost		\$7,050.00
Incl. In:	0	Azm. In:	0						Incl. Out:	0	Azm. Out:

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
6-Nov-11	00:00	00:10	0.17	7060	7060	TIH	P/U and M/U GRT and NMDC.
6-Nov-11	00:10	00:15	0.08	7060	7060	TIH	SCRIBE.
6-Nov-11	00:15	00:30	0.25	7060	7060	TIH	P/U and M/U NMPC.
6-Nov-11	00:30	00:45	0.25	7060	7060	TIH	INSERT MWD.
6-Nov-11	00:45	01:00	0.25	7060	7060	TIH	PLUG INTO GRT and PREP INITIALIZATION FOR LOGGING.
6-Nov-11	01:00	01:10	0.17	7060	7060	Circulating	P/U XO and TEST MWD: GOOD.
6-Nov-11	01:10	05:30	4.33	7060	7060	TIH	TIH.
6-Nov-11	05:30	06:00	0.50	7060	7060	Other	CSG Test 1500PSI 20# Loss 30 MIN.
6-Nov-11	06:00	06:30	0.50	7060	7060	TIH	TIH, Tag @ 6800
6-Nov-11	06:30	07:30	1.00	7060	7060	Circulating	Drill Cenent 6800-6050
6-Nov-11	07:30	09:00	1.50	7060	7060	Logging	Logging, Wash Ream Thru Fill to Bottom
6-Nov-11	09:00	09:05	0.08	7060	7060	Connection	Connection
6-Nov-11	09:05	09:15	0.17	7060	7065	Sliding	Sliding - (WOB:20;GPM :200;TFO:180))
6-Nov-11	09:15	09:45	0.50	7065	7105	Drilling	Drilling - (WOB:15;GPM :200;RPM:60)
6-Nov-11	09:45	09:50	0.08	7105	7105	Survey & Conn.	Survey & Conn. @7047 _Inc 91.8° _Azm 178.7°
6-Nov-11	09:50	10:00	0.17	7105	7117	Sliding	Sliding - (WOB:20;GPM :200;TFO:180))
6-Nov-11	10:00	10:30	0.50	7117	7133	Drilling	Drilling - (WOB:15;GPM :460;RPM:60)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
6-Nov-11	10:30	10:35	0.08	7133	7133	MWD Survey	CK SHOT
6-Nov-11	10:35	10:45	0.17	7133	7140	Drilling	Drilling - (WOB:15;GPM :200;RPM:60)
6-Nov-11	10:45	10:50	0.08	7140	7140	Other	CK SHOT
6-Nov-11	10:50	11:10	0.33	7140	7153	Sliding	Sliding - (WOB:20;GPM :200;TFO:180))
6-Nov-11	11:10	11:15	0.08	7153	7153	Survey & Conn.	Survey & Conn.@7089_Inc 92.6°_Azm 178.5°
6-Nov-11	11:15	11:30	0.25	7153	7173	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
6-Nov-11	11:30	11:35	0.08	7173	7173	Other	CK SHOT
6-Nov-11	11:35	12:10	0.58	7173	7188	Sliding	Sliding - (WOB:20;GPM :268;TFO:180))
6-Nov-11	12:10	12:15	0.08	7188	7190	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
6-Nov-11	12:15	12:25	0.17	7190	7190	Survey & Conn.	Survey & Conn.@7132_Inc 92.6°_Azm 177.8°
6-Nov-11	12:25	12:35	0.17	7190	7205	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
6-Nov-11	12:35	12:40	0.08	7205	7205	Other	CK SHOT
6-Nov-11	12:40	13:05	0.42	7205	7232	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
6-Nov-11	13:05	13:10	0.08	7232	7232	MWD Survey	MWD Survey@7175_Inc 91.5°_Azm °
6-Nov-11	13:10	13:30	0.33	7232	7247	Sliding	Sliding - (WOB:20;GPM :268;TFO:180))
6-Nov-11	13:30	13:50	0.33	7247	7275	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
6-Nov-11	13:50	13:55	0.08	7275	7275	Survey & Conn.	Survey & Conn.@7217_Inc 91°_Azm 176.9°
6-Nov-11	13:55	14:15	0.33	7275	7290	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	14:15	14:20	0.08	7290	7290	Other	CK SHOT
6-Nov-11	14:20	14:35	0.25	7290	7305	Sliding	Sliding - (WOB:20;GPM :268;TFO:135R))
6-Nov-11	14:35	14:45	0.17	7305	7317	Drilling	Drilling - (WOB:18;GPM :460;RPM:60)
6-Nov-11	14:45	14:50	0.08	7317	7317	MWD Survey	MWD Survey@7260_Inc 90.4°_Azm 176.9°
6-Nov-11	14:50	15:15	0.42	7317	7360	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	15:15	15:20	0.08	7360	7360	Survey & Conn.	Survey & Conn.@7302_Inc 89.9°_Azm 176.9°
6-Nov-11	15:20	15:50	0.50	7360	7390	Sliding	Sliding - (WOB:20;GPM :268;TFO:135R))
6-Nov-11	15:50	16:00	0.17	7390	7402	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	16:00	16:05	0.08	7402	7402	MWD Survey	MWD Survey@7345_Inc 89.7°_Azm 177.8°
6-Nov-11	16:05	16:30	0.42	7402	7445	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	16:30	17:00	0.50	7445	7445	Rig Service-Inhole	Rig Service-Inhole
6-Nov-11	17:00	17:05	0.08	7445	7445	Survey & Conn.	Survey & Conn.@7388_Inc °_Azm °
6-Nov-11	17:05	18:00	0.92	7445	7459	Sliding	Sliding - (WOB:20;GPM :268;TFO:130R))
6-Nov-11	18:00	18:20	0.33	7459	7488	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	18:20	18:25	0.08	7488	7488	MWD Survey	MWD Survey@7430_Inc 89°_Azm 178°
6-Nov-11	18:25	18:45	0.33	7488	7530	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	18:45	18:50	0.08	7530	7530	Survey & Conn.	Survey & Conn.@7473_Inc 89.9°_Azm 177.8°
6-Nov-11	18:50	19:50	1.00	7530	7550	Sliding	Sliding - (WOB:20;GPM :268;TFO:160R))
6-Nov-11	19:50	20:00	0.17	7550	7573	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	20:00	20:05	0.08	7573	7573	MWD Survey	MWD Survey@7515_Inc 90.4°_Azm 177.3°
6-Nov-11	20:05	20:30	0.42	7573	7615	Drilling	Drilling - (WOB:18;GPM :268;RPM:60)
6-Nov-11	20:30	20:40	0.17	7615	7615	Survey & Conn.	Survey & Conn.@7558_Inc 91.7°_Azm 178.3°
6-Nov-11	20:40	21:20	0.67	7615	7635	Sliding	Sliding - (WOB:20;GPM :268;TFO:130R))
6-Nov-11	21:20	21:35	0.25	7635	7658	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
6-Nov-11	21:35	21:40	0.08	7658	7658	MWD Survey	MWD Survey@7601_Inc 92.7°_Azm 178.1°
6-Nov-11	21:40	22:15	0.58	7658	7701	Sliding	Drilling - (WOB:20;GPM :268;RPM:0)
6-Nov-11	22:15	22:25	0.17	7701	7701	Survey & Conn.	Survey & Conn.@7643_Inc 95.2°_Azm 178.9°
6-Nov-11	22:25	23:25	1.00	7701	7743	Sliding	Sliding - (WOB:20;GPM :268;TFO:170R))
6-Nov-11	23:25	23:30	0.08	7743	7743	MWD Survey	MWD Survey@7686_Inc 96.4°_Azm 178.7°
6-Nov-11	23:30	24:00	0.50	7743	7758	Sliding	Sliding - (WOB:20;GPM :268;TFO:170R))



JOB NO.:	DDOK-110553	Report Time:	2400	15 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Monday, November 07, 2011 at 0000 to Monday, November 07, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	7758.00	Rotary Hours	9.83	WOB	20	Pick UP	150	Slack Off	120	SPM	
End Depth	8961.00	Circulating Hours	3.33	RAB	130	SPP	2230	FlowRate	268 - 268	70	
Total Drilled:	1203.00	Avg. Total ROP:	67.14	Mud Data							
Total Rotary Drilled:	890.00	Avg. Rotary ROP:	90.51	Type	Water Base			PV	13	SOLID	5
Total Drilled Sliding:	313.00	Avg. Slide ROP:	38.72	Weight	9.2	GAS	0	YP	9	BHT°	158
Slide Hours:	8.08	Percent Rotary:	73.98	Viscosity	48	SAND	0.25	PH	9	Flow T°	90
Below Rotary Hrs.	24.00	Percent Slide:	26.02	Chlorides	650	WL	6			Oil %	0
PERSONNEL				CASING					BHA		
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 5:6 1/8 BAKER QD405 5x16TFA .981, 4 3/4 Mpack 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH, 4 3/4 FLOAT SUB, 4 3/4 XO PIN TO PIN, GRT RESISTIVITY , 4 3/4 NMDC, 4 3/4 NMPDC, 4 3/4 XO 3 1/2 iIF PINxXT39BOX, 61 Stands 4 Drill Pipe, 16 Stands 4 Hevi, ,			
Second Directional :	Aaron Suttée			9 5/8	36	1409					
MWD Operator1	Chris Anderson			7	26	6950					
MWD Operator2	Alberto Bellina			Signature:							
Directional Company:	Multi Shot Directional										
Geologist:											
Company Man:	Phil Wilson / Jay Sandquist								Daily Cost		\$7,050.00
Incl. In:	0	Azm. In:	0						Incl. Out:	0	Cummulative Cost:

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
7-Nov-11	00:00	00:05	0.08	7758	7758	Circulating	CHECK SHOT: INC: 96.2 AZI: 179.20
7-Nov-11	00:05	00:20	0.25	7758	7762	Sliding	Sliding - (WOB:20;GPM :268;TFO:170R))
7-Nov-11	00:20	00:45	0.42	7762	7762	Circulating	CIRCULATING: WOO FROM GEOLOGY.
7-Nov-11	00:45	01:20	0.58	7762	7786	Sliding	Sliding - (WOB:20;GPM :268;TFO:170R)
7-Nov-11	01:20	01:25	0.08	7786	7786	Survey & Conn.	Survey & Conn. @7729_Inc 94.10°_Azm 179.7°
7-Nov-11	01:25	02:00	0.58	7786	7803	Sliding	Sliding - (WOB:20;GPM :268;TFO:170R)
7-Nov-11	02:00	02:05	0.08	7803	7803	Circulating	CHECK SHOT: INC: 93.3 AZI: 180.4
7-Nov-11	02:05	02:30	0.42	7803	7828	Sliding	Sliding - (WOB:20;GPM :268;TFO:170R)
7-Nov-11	02:30	02:35	0.08	7828	7828	MWD Survey	MWD Survey@7770_Inc 91.7°_Azm 180.6°
7-Nov-11	02:35	02:55	0.33	7828	7850	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	02:55	03:05	0.17	7850	7871	Sliding	Sliding - (WOB:20;GPM :268;TFO:170R)
7-Nov-11	03:05	03:15	0.17	7871	7871	Survey & Conn.	Survey & Conn. @7813_Inc 88.2°_Azm 181.1°
7-Nov-11	03:15	03:35	0.33	7871	7913	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	03:35	03:40	0.08	7913	7913	MWD Survey	MWD Survey@7855_Inc 86.13°_Azm 181°
7-Nov-11	03:40	04:10	0.50	7913	7956	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	04:10	04:30	0.33	7956	7956	Rig Service-Inhole	Rig Service-Inhole
7-Nov-11	04:30	04:35	0.08	7956	7956	Survey & Conn.	Survey & Conn. @7898_Inc 85.3°_Azm 180.4°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
7-Nov-11	04:35	04:55	0.33	7956	7998	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	04:55	05:00	0.08	7998	7998	MWD Survey	MWD Survey@7941_Inc °_Azm °
7-Nov-11	05:00	05:30	0.50	7998	8030	Sliding	Sliding - (WOB:20;GPM :268;TFO:75R))
7-Nov-11	05:30	05:40	0.17	8030	8041	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	05:40	05:45	0.08	8041	8041	Survey & Conn.	Survey & Conn.@7983_Inc 85.9°_Azm 179.9°
7-Nov-11	05:45	06:10	0.42	8041	8083	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	06:10	06:15	0.08	8083	8083	Survey & Conn.	Survey & Conn.@7983_Inc °_Azm °
7-Nov-11	06:15	06:30	0.25	8083	8095	Sliding	Sliding - (WOB:20;GPM :268;TFO:75R))BRING UP TO 88 DEGREES AND COME DOWN TILL DIRECTED
7-Nov-11	06:30	06:50	0.33	8095	8126	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	06:50	06:55	0.08	8126	8126	Survey & Conn.	Survey & Conn.@8068_Inc 86.2°_Azm 182°
7-Nov-11	06:55	07:05	0.17	8126	8154	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	07:05	07:20	0.25	8154	8154	Other	CK SHOT
7-Nov-11	07:20	07:30	0.17	8154	8164	Sliding	Sliding - (WOB:20;GPM :268;TFO:360))
7-Nov-11	07:30	07:40	0.17	8164	8169	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	07:40	07:50	0.17	8169	8169	Survey & Conn.	Survey & Conn.@8111_Inc 87.4°_Azm 182.4°
7-Nov-11	07:50	08:00	0.17	8169	8211	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	08:00	08:05	0.08	8211	8211	Survey & Conn.	Survey & Conn.@8154_Inc 88.3°_Azm 182.2°
7-Nov-11	08:05	08:15	0.17	8211	8226	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	08:15	08:20	0.08	8226	8226	Other	CK SHOT
7-Nov-11	08:20	08:30	0.17	8226	8236	Sliding	Sliding - (WOB:20;GPM :268;TFO:180))SLIDING DOWN TO HOLD 88 DEGREES BUILDING IN ROTATION
7-Nov-11	08:30	08:35	0.08	8236	8236	Survey & Conn.	Survey & Conn.@8154_Inc °_Azm °
7-Nov-11	08:35	08:50	0.25	8236	8254	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	08:50	08:55	0.08	8254	8254	MWD Survey	MWD Survey@8196_Inc 89.4°_Azm 181.8°
7-Nov-11	08:55	09:10	0.25	8254	8274	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	09:10	09:15	0.08	8274	8274	Other	CK SHOT
7-Nov-11	09:15	09:30	0.25	8274	8280	Sliding	Sliding - (WOB:20;GPM :268;TFO:135))SLIDING DOWN BUILDING IN ROTATION
7-Nov-11	09:30	09:35	0.08	8280	8297	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	09:35	09:40	0.08	8297	8297	Survey & Conn.	Survey & Conn.@8239_Inc °_Azm °
7-Nov-11	09:40	10:05	0.42	8297	8339	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	10:05	10:10	0.08	8339	8339	MWD Survey	MWD Survey@8282_Inc 89°_Azm 182°
7-Nov-11	10:10	10:15	0.08	8339	8355	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	10:15	10:20	0.08	8355	8355	Other	CK SHOT
7-Nov-11	10:20	10:30	0.17	8355	8370	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	10:30	10:50	0.33	8370	8380	Sliding	Sliding - (WOB:20;GPM :268;TFO:360))SLIDING UP BRING TO 91-92 DEGREES AS PER CARRIZO TARGET TVD 6495
7-Nov-11	10:50	10:55	0.08	8380	8382	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	10:55	11:00	0.08	8382	8382	Survey & Conn.	Survey & Conn.@8324_Inc 89.4°_Azm 181.5°
7-Nov-11	11:00	11:25	0.42	8382	8402	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	11:25	11:30	0.08	8402	8402	Other	CK SHOT
7-Nov-11	11:30	11:50	0.33	8402	8420	Sliding	
7-Nov-11	11:50	12:00	0.17	8420	8424	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	12:00	12:05	0.08	8424	8424	MWD Survey	MWD Survey@8367_Inc 89.4°_Azm 180.8°
7-Nov-11	12:05	12:15	0.17	8424	8444	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	12:15	12:20	0.08	8444	8444	Other	CK SHOT
7-Nov-11	12:20	12:30	0.17	8444	8454	Sliding	Sliding - (WOB:20;GPM :268;TFO:360)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
7-Nov-11	12:30	12:40	0.17	8454	8467	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	12:40	12:45	0.08	8467	8467	Survey & Conn.	Survey & Conn.@8367_Inc °_Azm °
7-Nov-11	12:45	13:00	0.25	8467	8487	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	13:00	13:05	0.08	8487	8487	Other	CK SHOT
7-Nov-11	13:05	13:20	0.25	8487	8494	Sliding	Sliding - (WOB:20;GPM :268;TFO:360))
7-Nov-11	13:20	13:40	0.33	8494	8510	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	13:40	13:45	0.08	8510	8510	MWD Survey	MWD Survey@8452_Inc 93.3°_Azm 181.0°
7-Nov-11	13:45	14:10	0.42	8510	8530	Sliding	Sliding - (WOB:20;GPM :268;TFO:180)
7-Nov-11	14:10	14:15	0.08	8530	8530	Other	CK SHOT
7-Nov-11	14:15	14:30	0.25	8530	8540	Sliding	Sliding - (WOB:20;GPM :268;TFO:180)
7-Nov-11	14:30	14:40	0.17	8540	8552	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	14:40	14:45	0.08	8552	8552	Survey & Conn.	Survey & Conn.@8495_Inc °_Azm °
7-Nov-11	14:45	14:50	0.08	8552	8562	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	14:50	15:20	0.50	8562	8572	Sliding	Sliding - (WOB:20;GPM :268;TFO:180)
7-Nov-11	15:20	15:25	0.08	8572	8572	Other	CK SHOT
7-Nov-11	15:25	15:40	0.25	8572	8592	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	15:40	15:45	0.08	8592	8592	MWD Survey	MWD Survey@8495_Inc °_Azm °
7-Nov-11	15:45	16:00	0.25	8592	8615	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	16:00	16:05	0.08	8615	8615	Other	CK SHOT
7-Nov-11	16:05	16:25	0.33	8615	8621	Sliding	Sliding - (WOB:20;GPM :268;TFO:180)
7-Nov-11	16:25	17:05	0.67	8621	8638	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	17:05	17:20	0.25	8638	8638	Rig Service-Inhole	Rig Service-Inhole
7-Nov-11	17:20	17:25	0.08	8638	8638	Survey & Conn.	Survey & Conn.@8580_Inc 89°_Azm 182.2°
7-Nov-11	17:25	18:00	0.58	8638	8648	Sliding	Sliding - (WOB:20;GPM :268;TFO:360)
7-Nov-11	18:00	18:05	0.08	8648	8658	Drilling	Sliding - (WOB:20;GPM :268;TFO:360)
7-Nov-11	18:05	18:10	0.08	8658	8658	Circulating	CHECK SHOT: INC: 88.9 AZI: 181.8
7-Nov-11	18:10	18:20	0.17	8658	8680	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	18:20	18:30	0.17	8680	8680	MWD Survey	MWD Survey@8623_Inc 89.9°_Azm 182.4°
7-Nov-11	18:30	18:40	0.17	8680	8700	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	18:40	18:45	0.08	8700	8700	Circulating	CHECK SHOT: INC: 90.6 AZI: 182.0
7-Nov-11	18:45	18:55	0.17	8700	8723	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	18:55	19:10	0.25	8723	8723	Survey & Conn.	Survey & Conn.@8666_Inc 91.10°_Azm 182°
7-Nov-11	19:10	19:25	0.25	8723	8738	Sliding	Sliding - (WOB:20;GPM :268;TFO:360)
7-Nov-11	19:25	19:30	0.08	8738	8738	Circulating	CHECK SHOT: INC:91.3 AZI: 181.7.
7-Nov-11	19:30	19:40	0.17	8738	8766	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	19:40	19:45	0.08	8766	8766	MWD Survey	MWD Survey@8708_Inc 91.8°_Azm 181.5°
7-Nov-11	19:45	19:55	0.17	8766	8776	Sliding	Sliding - (WOB:20;GPM :268;TFO:170L)
7-Nov-11	19:55	20:10	0.25	8776	8786	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	20:10	20:15	0.08	8786	8786	Circulating	CHECK SHOT: INC:91.8 AZI: 180.8
7-Nov-11	20:15	20:25	0.17	8786	8808	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	20:25	20:30	0.08	8808	8808	Survey & Conn.	Survey & Conn.@8751_Inc 91°_Azm 180.4°
7-Nov-11	20:30	20:45	0.25	8808	8828	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	20:45	20:50	0.08	8828	8828	Circulating	CHECK SHOT: INC: 90.6 AZI: 179.9
7-Nov-11	20:50	21:00	0.17	8828	8851	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	21:00	21:05	0.08	8851	8851	MWD Survey	MWD Survey@8793_Inc 90.6°_Azm 108.3°
7-Nov-11	21:05	21:45	0.67	8851	8861	Sliding	Sliding - (WOB:20;GPM :268;TFO:170L) *8035 UNITS OF GAS.
7-Nov-11	21:45	21:50	0.08	8861	8861	Circulating	CHECK SHOT: INC: 91.0 AZI: 180.1

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
7-Nov-11	21:50	22:10	0.33	8861	8894	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	22:10	22:15	0.08	8894	8894	Survey & Conn.	Survey & Conn.@8836_Inc 91.3°_Azm 180.1°
7-Nov-11	22:15	22:35	0.33	8894	8905	Sliding	Sliding - (WOB:20;GPM :268;TFO:170L)
7-Nov-11	22:35	22:55	0.33	8905	8936	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	22:55	23:00	0.08	8936	8936	MWD Survey	MWD Survey@8879_Inc 90.6°_Azm 180.1°
7-Nov-11	23:00	23:15	0.25	8936	8956	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
7-Nov-11	23:15	23:20	0.08	8956	8956	Circulating	CHECK SHOT: INC:90.3 AZI: 180.1
7-Nov-11	23:20	23:30	0.17	8956	8961	Sliding	Sliding - (WOB:20;GPM :268;TFO:170L) MAINTAIN INC OF 89.5° PER CARRIZO @ 23:15.
7-Nov-11	23:30	24:00	0.50	8961	8961	Circulating	CIRCULATE WHILE PUTTING GAS SEPERATOR ON THE HOLE.



JOB NO.:	DDOK-110553	Report Time:	2400	16 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Tuesday, November 08, 2011 at 0000 to Tuesday, November 08, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	8961.00	Rotary Hours	12.17	WOB	20	Pick UP	160	Slack Off	90	SPM	
End Depth	10171.00	Circulating Hours	2.08	RAB	130	SPP	2230	FlowRate	268 - 268	70	
Total Drilled:	1210.00	Avg. Total ROP:	61.79	Mud Data							
Total Rotary Drilled:	1051.00	Avg. Rotary ROP:	86.38	Type	Water Base			PV	23	SOLID	6
Total Drilled Sliding:	159.00	Avg. Slide ROP:	21.44	Weight	9.6	GAS	2000	YP	21	BHT°	181
Slide Hours:	7.42	Percent Rotary:	86.86	Viscosity	50	SAND	0.25	PH	9	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	13.14	Chlorides	650	WL	6			Oil %	0
PERSONNEL				CASING					BHA		
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 5:6 1/8 BAKER QD405 5x16TFA .981, 4 3/4 Mpack 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH, 4 3/4 FLOAT SUB, 4 3/4 XO PIN TO PIN, GRT RESISTIVITY , 4 3/4 NMDC, 4 3/4 NMPDC, 4 3/4 XO 3 1/2 iIF PINxXT39BOX, 61 Stands 4 Drill Pipe, 16 Stands 4 Hevi, ,			
Second Directional :	Aaron Suttée			9 5/8	36	1409					
MWD Operator1	Chris Anderson			7	26	6950					
MWD Operator2	Alberto Bellina			Signature:							
Directional Company:	Multi Shot Directional										
Geologist:											
Company Man:	Phil Wilson / Jay Sandquist							Daily Cost		\$7,050.00	
Incl. In:	0	Azm. In:	0					Incl. Out:	0	Cummulative Cost:	

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Nov-11	00:00	00:20	0.33	8961	8961	Circulating	CON'T R/U ON GAS BUSTER.
8-Nov-11	00:20	00:35	0.25	8961	8965	Sliding	Sliding - (WOB:20;GPM :268;TFO:170L)
8-Nov-11	00:35	00:45	0.17	8965	8979	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	00:45	00:50	0.08	8979	8979	Survey & Conn.	Survey & Conn. @8921_Inc 89.6°_Azm 180.4°
8-Nov-11	00:50	01:10	0.33	8979	9021	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	01:10	01:15	0.08	9021	9021	MWD Survey	MWD Survey@8964_Inc 89.7°_Azm 179.7°
8-Nov-11	01:15	01:35	0.33	9021	9064	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	01:35	01:45	0.17	9064	9064	Survey & Conn.	Survey & Conn. @9007_Inc 89.6°_Azm 178.5°
8-Nov-11	01:45	02:00	0.25	9064	9107	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	02:00	02:05	0.08	9107	9107	MWD Survey	MWD Survey@9049_Inc 89.90°_Azm 176.9°
8-Nov-11	02:05	02:30	0.42	9107	9120	Sliding	Sliding - (WOB:20;GPM :268;TFO:170L))
8-Nov-11	02:30	02:45	0.25	9120	9149	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	02:45	02:55	0.17	9149	9149	Survey & Conn.	Survey & Conn. @9092_Inc 0°_Azm 0°
8-Nov-11	02:55	03:40	0.75	9149	9169	Sliding	Sliding - (WOB:20;GPM :268;TFO:100R)
8-Nov-11	03:40	04:00	0.33	9169	9192	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	04:00	04:05	0.08	9192	9192	MWD Survey	MWD Survey@9134_Inc 89.7°_Azm 175.7°
8-Nov-11	04:05	04:15	0.17	9192	9234	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Nov-11	04:15	04:25	0.17	9234	9234	Survey & Conn.	Survey & Conn.@9177_Inc 90.3°_Azm 176.6°
8-Nov-11	04:25	05:00	0.58	9234	9254	Sliding	Sliding - (WOB:20;GPM :268;TFO:90R)
8-Nov-11	05:00	05:10	0.17	9254	9277	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	05:10	05:15	0.08	9277	9277	MWD Survey	MWD Survey@9220_Inc 90.6°_Azm 176.40°
8-Nov-11	05:15	05:45	0.50	9277	9320	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	05:45	05:50	0.08	9320	9320	Survey & Conn.	Survey & Conn.@9226_Inc 89.7°_Azm 177.1°
8-Nov-11	05:50	06:05	0.25	9320	9362	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	06:05	06:10	0.08	9362	9362	MWD Survey	MWD Survey@9226_Inc °_Azm TARGET CHANGE TO 6505 TVD AND HOLD 88.5-88 DEGREES AS PER CARRIZO
8-Nov-11	06:10	07:00	0.83	9362	9382	Sliding	Sliding - (WOB:20;GPM :268;TFO:120R)
8-Nov-11	07:00	07:15	0.25	9382	9405	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	07:15	07:20	0.08	9405	9405	Survey & Conn.	Survey & Conn.@9348_Inc 90.3°_Azm 176.9°
8-Nov-11	07:20	07:25	0.08	9405	9420	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	07:25	07:40	0.25	9420	9427	Sliding	Sliding - (WOB:20;GPM :268;TFO:120R)
8-Nov-11	07:40	07:50	0.17	9427	9448	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	07:50	07:55	0.08	9448	9448	MWD Survey	MWD Survey@9390_Inc 89.4°_Azm 178.3°
8-Nov-11	07:55	08:10	0.25	9448	9468	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)TARGET CHANGE TO 6510 TVD AND HOLD 89-88,5 DEGREES AS PER CARRIZO
8-Nov-11	08:10	08:20	0.17	9468	9468	Other	CK SHOT
8-Nov-11	08:20	08:30	0.17	9468	9475	Sliding	Sliding - (WOB:20;GPM :268;TFO:120R))
8-Nov-11	08:30	08:40	0.17	9475	9490	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	08:40	08:45	0.08	9490	9490	Survey & Conn.	Survey & Conn.@9433_Inc 88.9°_Azm 178.5°
8-Nov-11	08:45	09:05	0.33	9490	9520	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	09:05	09:15	0.17	9520	9520	Other	CK SHOT ADJ MWD PUMPS OFF THRESHHOLD
8-Nov-11	09:15	09:30	0.25	9520	9533	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	09:30	09:35	0.08	9533	9533	Survey & Conn.	Survey & Conn.@9475_Inc 88.5°_Azm 178.7°
8-Nov-11	09:35	10:00	0.42	9533	9576	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	10:00	10:05	0.08	9576	9576	Survey & Conn.	Survey & Conn.@9518_Inc °_Azm °
8-Nov-11	10:05	10:35	0.50	9576	9582	Sliding	Sliding - (WOB:20;GPM :268;TFO:110R))TARGET CHANGE LEVEL OUT TO 6503 AS PER CARRIZO
8-Nov-11	10:35	10:50	0.25	9582	9587	Sliding	Sliding - (WOB:20;GPM :268;TFO:110R)RE ORIENT AND SLIDE TO LEVEL OUT
8-Nov-11	10:50	11:05	0.25	9587	9617	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	11:05	11:10	0.08	9617	9617	MWD Survey	MWD Survey@9560_Inc 89°_Azm 178.1°
8-Nov-11	11:10	11:35	0.42	9617	9660	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	11:35	11:40	0.08	9660	9660	Survey & Conn.	Survey & Conn.@9602_Inc 89.4°_Azm 178.5°
8-Nov-11	11:40	11:45	0.08	9660	9666	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	11:45	12:30	0.75	9666	9674	Sliding	Sliding - (WOB:20;GPM :268;TFO:65))
8-Nov-11	12:30	12:45	0.25	9674	9702	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	12:45	12:50	0.08	9702	9702	MWD Survey	MWD Survey@9645_Inc 89.2°_Azm 178.0°
8-Nov-11	12:50	13:40	0.83	9702	9711	Sliding	Sliding - (WOB:20;GPM :268;TFO:65R))TARGET CHANGE 6495 TVD BRING ANGLE TO 91 DGREES AND HOLD AS PER CARRIZO
8-Nov-11	13:40	14:00	0.33	9711	9730	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	14:00	14:05	0.08	9730	9730	Other	CK SHOT
8-Nov-11	14:05	14:25	0.33	9730	9745	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	14:25	14:30	0.08	9745	9745	Survey & Conn.	Survey & Conn.@9688_Inc 89.6°_Azm 178.9°
8-Nov-11	14:30	15:00	0.50	9745	9767	Drilling	Drilling - (WOB:15;GPM :268;RPM:60)
8-Nov-11	15:00	15:05	0.08	9767	9767	Other	CK SHOT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Nov-11	15:05	15:20	0.25	9767	9788	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	15:20	15:25	0.08	9788	9788	MWD Survey	MWD Survey@9730_Inc °_Azm °
8-Nov-11	15:25	16:10	0.75	9788	9830	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	16:10	16:15	0.08	9830	9830	Survey & Conn.	Survey & Conn.@9773_Inc 91.3°_Azm 179.7°
8-Nov-11	16:15	16:45	0.50	9830	9873	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	16:45	16:50	0.08	9873	9873	MWD Survey	MWD Survey@9816_Inc 91.7°_Azm 179.6°
8-Nov-11	16:50	17:30	0.67	9873	9893	Sliding	Sliding - (WOB:20;GPM :268;TFO:45R))
8-Nov-11	17:30	18:00	0.50	9893	9916	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	18:00	18:10	0.17	9916	9916	Survey & Conn.	Survey & Conn.@9858_Inc 91.7°_Azm 179.2°
8-Nov-11	18:10	18:40	0.50	9916	9956	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	18:40	18:45	0.08	9956	9956	MWD Survey	MWD Survey@9901_Inc 91°_Azm 180.3°
8-Nov-11	18:45	19:20	0.58	9956	10001	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	19:20	19:30	0.17	10001	10001	Survey & Conn.	Survey & Conn.@9943_Inc 90.6°_Azm 179.7°
8-Nov-11	19:30	20:00	0.50	10001	10044	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	20:00	20:05	0.08	10044	10044	MWD Survey	MWD Survey@9986_Inc 90.6°_Azm 178.9°
8-Nov-11	20:05	20:35	0.50	10044	10062	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	20:35	21:10	0.58	10062	10072	Sliding	Sliding - (WOB:20;GPM :268;TFO:60R))
8-Nov-11	21:10	21:25	0.25	10072	10086	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	21:25	21:30	0.08	10086	10086	Survey & Conn.	Survey & Conn.@10029_Inc 91.1°_Azm 178.7°
8-Nov-11	21:30	21:45	0.25	10086	10091	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	21:45	22:25	0.67	10091	10091	Circulating	WORK ON RIG.
8-Nov-11	22:25	22:45	0.33	10091	10129	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	22:45	22:50	0.08	10129	10129	MWD Survey	MWD Survey@10071_Inc 91.5°_Azm 178.7°
8-Nov-11	22:50	23:05	0.25	10129	10150	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	23:05	23:40	0.58	10150	10160	Sliding	Sliding - (WOB:20;GPM :268;TFO:60R)
8-Nov-11	23:40	23:50	0.17	10160	10171	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
8-Nov-11	23:50	24:00	0.17	10171	10171	Survey & Conn.	Survey & Conn.@10114_Inc 91.5°_Azm 178.5°



JOB NO.:	DDOK-110553	Report Time:	2400	17 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Wednesday, November 09, 2011 at 0000 to Wednesday, November 09, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	10171.00	Rotary Hours	7.83	WOB	20	Pick UP	170	Slack Off	80	SPM	
End Depth	10832.00	Circulating Hours	4.17	RAB	130	SPP	2230	FlowRate	268 - 268	70	
Total Drilled:	661.00	Avg. Total ROP:	45.07	Mud Data							
Total Rotary Drilled:	549.00	Avg. Rotary ROP:	70.09	Type	Water Base			PV	23	SOLID	6
Total Drilled Sliding:	112.00	Avg. Slide ROP:	16.39	Weight	9.6	GAS	2000	YP	21	BHT°	181
Slide Hours:	6.83	Percent Rotary:	83.06	Viscosity	50	SAND	0.25	PH	9	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	16.94	Chlorides	650	WL	6			Oil %	0
PERSONNEL				CASING					BHA		
Lead Directional :	Tom Beckett			Size	Lb/ft	Set Depth		BHA # 5:6 1/8 BAKER QD405 5x16TFA .981, 4 3/4 Mpack 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH, 4 3/4 FLOAT SUB, 4 3/4 XO PIN TO PIN, GRT RESISTIVITY , 4 3/4 NMDC, 4 3/4 NMPDC, 4 3/4 XO 3 1/2 iIF PINxXT39BOX, 61 Stands 4 Drill Pipe, 16 Stands 4 Hevi, ,			
Second Directional :	Aaron Suttée			9 5/8	36	1409					
MWD Operator1	Chris Anderson			7	26	6950					
MWD Operator2	Alberto Bellina			Signature:							
Directional Company:	Multi Shot Directional										
Geologist:											
Company Man:	Jay Sandquist								Daily Cost		\$7,050.00
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:		\$126,805.00	

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Nov-11	00:00	00:40	0.67	10171	10214	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	00:40	00:45	0.08	10214	10214	MWD Survey	MWD Survey@10157_Inc 90.8°_Azm 187.5°
9-Nov-11	00:45	01:45	1.00	10214	10232	Sliding	Sliding - (WOB:20;GPM :268;TFO:70R)
9-Nov-11	01:45	02:10	0.42	10232	10257	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	02:10	02:20	0.17	10257	10257	Survey & Conn.	Survey & Conn.@10199_Inc 90.3°_Azm 178.7°
9-Nov-11	02:20	02:55	0.58	10257	10299	Drilling	Drilling - (WOB:20;GPM :268;RPM:60) *NEW TARGET 6492' TVD and HOLD 91.5 INC.
9-Nov-11	02:55	03:00	0.08	10299	10299	MWD Survey	MWD Survey@10242_Inc °_Azm °
9-Nov-11	03:00	03:45	0.75	10299	10319	Sliding	Sliding - (WOB:20;GPM :268;TFO:130R)
9-Nov-11	03:45	04:10	0.42	10319	10342	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	04:10	04:20	0.17	10342	10342	Survey & Conn.	Survey & Conn.@10285_Inc 89.9°_Azm 179.2°
9-Nov-11	04:20	05:05	0.75	10342	10385	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	05:05	05:10	0.08	10385	10385	MWD Survey	MWD Survey@10327_Inc 91.3°_Azm 178.9°
9-Nov-11	05:10	05:55	0.75	10385	10427	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	05:55	06:00	0.08	10427	10427	Survey & Conn.	Survey & Conn.@10370_Inc 91.1°_Azm 178.1°
9-Nov-11	06:00	07:00	1.00	10427	10441	Sliding	Sliding - (WOB:20;GPM :268;TFO:65R))TARGET CHANGE TO 6486 AND HOLD 91 DEGREES SLIDE TO 93 DEGREES TO CATCH DIP.
9-Nov-11	07:00	07:15	0.25	10441	10470	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Nov-11	07:15	07:20	0.08	10470	10470	MWD Survey	MWD Survey@10412_Inc 91.3°_Azm 177.3°
9-Nov-11	07:20	08:00	0.67	10470	10485	Sliding	Sliding - (WOB:20;GPM :268;TFO:65R))
9-Nov-11	08:00	08:25	0.42	10485	10512	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	08:25	08:30	0.08	10512	10512	Survey & Conn.	Survey & Conn.@10455_Inc 91.7°_Azm 177.3°
9-Nov-11	08:30	08:50	0.33	10512	10555	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	08:50	08:55	0.08	10555	10555	MWD Survey	MWD Survey@10498_Inc 92.4°_Azm 177.1°
9-Nov-11	08:55	09:05	0.17	10555	10577	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	09:05	10:05	1.00	10577	10589	Sliding	Sliding - (WOB:20;GPM :268;TFO:145R))
9-Nov-11	10:05	10:25	0.33	10589	10620	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	10:25	11:45	1.33	10620	10640	Sliding	Sliding - (WOB:20;GPM :268;TFO:145R))
9-Nov-11	11:45	11:50	0.08	10640	10640	Survey & Conn.	Survey & Conn.@10583_Inc 92.2°_Azm 176.4°
9-Nov-11	11:50	13:00	1.17	10640	10725	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	13:00	13:05	0.08	10725	10725	Survey & Conn.	Survey & Conn.@10668_Inc 91.7°_Azm 176.7°
9-Nov-11	13:05	13:45	0.67	10725	10768	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)
9-Nov-11	13:45	14:50	1.08	10768	10781	Sliding	Sliding - (WOB:20;GPM :268;TFO:135R))
9-Nov-11	14:50	15:45	0.92	10781	10832	Drilling	Drilling - (WOB:20;GPM :268;RPM:60)TD
9-Nov-11	15:45	19:30	3.75	10832	10832	Circulating	Circulating
9-Nov-11	19:30	24:00	4.50	10832	10832	POOH	POOH, TD



JOB NO.:	DDOK-110553	Report Time:	2400	18 of 18
COMPANY:	Carrizo Oil and Gas	API JOB #	051233409901	
LOCATION:	Weld County	WORK ORDER#		
RIG NAME:	Xtreme 19	FIELD:	East Niobrara	
STATE:	Colorado	TOWNSHIP:		
COUNTY:	Weld County	SECTRANGE:		
WELL NAME:	Speaker 1-27-31-8-61			

From Thursday, November 10, 2011 at 0000 to Thursday, November 10, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth	0.00		Rotary Hours	0.00		WOB	20		Pick UP	170		Slack Off	80		SPM		
End Depth	0.00		Circulating Hours	0.00		RAB	130		SPP	2230		FlowRate	268 - 268		70		
Total Drilled:	0.00		Avg. Total ROP:	NA		Mud Data											
Total Rotary Drilled:	0.00		Avg. Rotary ROP:	NA		Type	Water Base				PV	23		SOLID	6		
Total Drilled Sliding:	0.00		Avg. Slide ROP:	NA		Weight	9.6		GAS	2000		YP	21		BHT°	181	
Slide Hours:	0.00		Percent Rotary:	NA		Viscosity	50		SAND	0.25		PH	9		Flow T°	120	
Below Rotary Hrs.	5.00		Percent Slide:	NA		Chlorides	650		WL	6					Oil %	0	
PERSONNEL						CASING						BHA					
Lead Directional :		Tom Beckett				Size		Lb/ft		Set Depth		BHA # 5:6 1/8 BAKER QD405 5x16TFA .981, 4 3/4 Mpack 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH, 4 3/4 FLOAT SUB, 4 3/4 XO PIN TO PIN, GRT RESISTIVITY , 4 3/4 NMDC, 4 3/4 NMPDC, 4 3/4 XO 3 1/2 iIF PINxXT39BOX, 61 Stands 4 Drill Pipe, 16 Stands 4 Hevi, ,					
Second Directional :		Aaron Suttée				9 5/8		36		1409							
MWD Operator1		Chris Anderson				7		26		6950							
MWD Operator2		Alberto Bellina				Signature:											
Directional Company:		Multi Shot Directional															
Geologist:																	
Company Man:		Tom Harris										Daily Cost		\$9,610.00			
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-Nov-11	00:00	04:00	4.00	10832	10832	POOH	POOH,TD
10-Nov-11	04:00	05:00	1.00	10832	10832	Change BHA	LD BHA #5
10-Nov-11	05:00	24:00	19.00	10832	10832	Standby	Rig Down Load Trucks

Well Information

BHA # 1



JOB NO.: DDOK-110553
COMPANY: Carrizo Oil and Gas
LOCATION: Weld County
RIG NAME: Xtreme 19
STATE: Colorado
COUNTY: Weld County
WELL NAME: Speaker 1-27-31-8-61

FIELD: East Niobrara
TOWNSHIP:
SECT. RANGE:
Lead DD: Tom Beckett
Co. Man: Phil Wilson
BHA TYPE: Steerable Assembly

BHA Summary Information

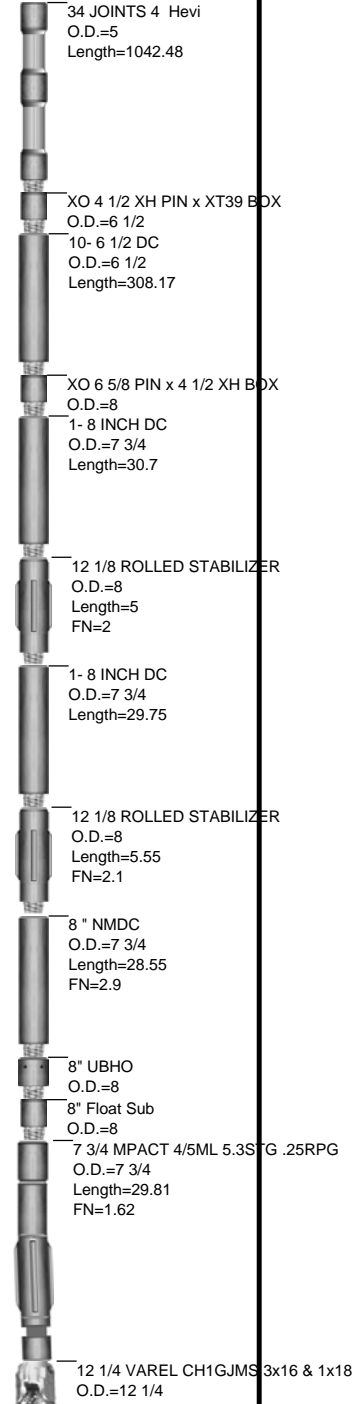
TIME IN - OUT			Rotary Hours		7.67		Start Depth			77.00		RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		11.25 / 1.33		End Depth			1134.00				
26-Oct-11 @ 05:30	27-Oct-11 @ 18:15	Slide Hours		2.25		Percent Rotary:			84.01		0 -60	345 -525	
		Below Rotary Hrs.		36.75		Percent Slide:			15.99				
Total Drilled:			1057.00		Avg. Total ROP:		106.59		Incl.		Azimuth		
Total Rotary Drilled:			888.00		Avg. Rotary ROP:		115.83		IN	OUT	IN	OUT	
Total Drilled Sliding:			169.00		Avg. Slide ROP:		75.11		.0	.0	.00	.00	
SPP	650 -1455	Weights	SO	40 -60	PU	40 -70	RAB	40 -64	Reason POOH		BHA		

Bit Data							MOTOR DATA							Mud Data							
OTHER		12 1/4 VAREL CH1GJMS 3x16 &					7 3/4 PDM 4/5ML 5.3STG .25RPG							Type	H20						
Type Bit				ROCK			Model: XL			Pad OD				WT 8.5		GAS 0		Solids 4			
TFA		0.837					PERFORMANCE			5/16				Vis 29		SAND 0.2		T ° 60			
JETS			16	16	16	18	0	Bend ° 1.5		Stator/Rotor 4/5		PV 2		PH 8.5		Chlor 300					
			0	0	0	0	0	Bit to Bend 7		Motor Diff 250		YP 16		WL 16		Oil % 0					
Bit Coding				IADC#		117		Rev/GAL 0.25		PUMPS			PUMP1			PUMP1					
IR	OR	DL	Loc	BS	G	ODL	NB Stab 12		NAME				CHING			CHING					
1	1	NO	A	0	0	NO	Rotor Jet 0		Model				PZ11			PZ11					
Bit Drop:			308 PSI @ 525 GPM				Sensor Offsets				Type			TRIPLEX			TRIPLEX				
Comments					Sensor	0	Sonic	0	Liner			6.00			6.00						
					Gamma	0	DNSC	77	Stroke			11.00			11.00						
					Restiv	0	GYRO	0	Efficiency			95.00			95.00						

12 1/4 VAREL CH1GJMS 3x16 & 1x18 TFA .837
 7 3/4 MPACT 4/5ML 5.3STG .25RPG
 Wiper Trip Remove Boot
 Drop 8 inch BHA

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	12 1/4 VAREL CH1GJMS 3x16 & 1x18 TFA .837	HB6338		12 1/4	1.00	1.00	6 5/8 REGP
2	7 3/4 MPACT 4/5ML 5.3STG .25RPG	MSD77D110D		7 3/4	29.81	30.81	6 5/8 REGB
3	8" Float Sub	SD103280	2 7/8	8	2.67	33.48	6 5/8 REGB
4	8" UBHO	80005	2 7/8	8	2.90	36.38	6 5/8 REGB
5	8" NMDC	SD37883	2 15/16	7 3/4	28.55	64.93	6 5/8 REGB
6	12 1/8 ROLLED STABILIZER	SD13564	2 1/2	8	5.55	70.48	6 5/8 REGB
7	1- 8 INCH DC	RIG		7 3/4	29.75	100.23	6 5/8 REGB
8	12 1/8 ROLLED STABILIZER	SD16633	2 7/8	8	5.00	105.23	6 5/8 REGB
9	1- 8 INCH DC	RIG		7 3/4	30.70	135.93	6 5/8 REGB
10	XO 6 5/8 PIN x 4 1/2 XH BOX	RIG		8	3.03	138.96	4 1/2 XHB
11	10- 6 1/2 DC	RIG		6 1/2	308.17	447.13	4 1/2 XHB
12	XO 4 1/2 XH PIN x XT39 BOX	RIG		6 1/2	1.30	448.43	XT39B
13	34 JOINTS 4 Hevi	HWDP-2.563-	2.563	5	1,042.48	1490.91	XT39B
14					0.00	1490.91	



Well Information

BHA # 2



JOB NO.: DDOK-110553
 COMPANY: Carrizo Oil and Gas
 LOCATION: Weld County
 RIG NAME: Xtreme 19
 STATE: Colorado
 COUNTY: Weld County
 WELL NAME: Speaker 1-27-31-8-61

FIELD: East Niobrara
 TOWNSHIP:
 SECT. RANGE:
 Lead DD: Tom Beckett
 Co. Man: Phil Wilson
 BHA TYPE: Steerable Assembly

BHA Summary Information

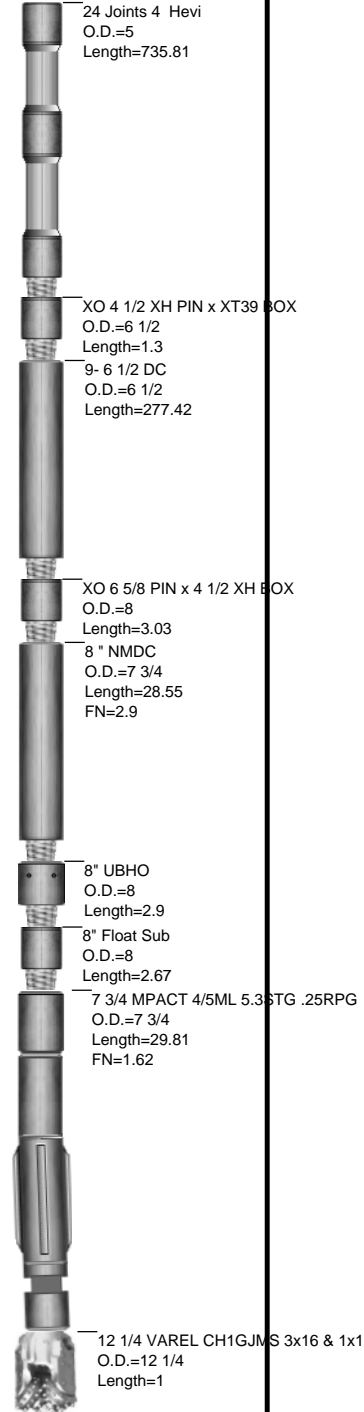
TIME IN - OUT			Rotary Hours			1.58		Start Depth			1134.00		RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only			3.42 / 1.58		End Depth			1411.00				
27-Oct-11 @ 18:15	28-Oct-11 @ 07:45	Slide Hours			.25		Percent Rotary:			90.97		0 -60	525 -525	
		Below Rotary Hrs.			13.50		Percent Slide:			9.03				
Total Drilled:			277.00			Avg. Total ROP:			151.09		Incl.		Azimuth	
Total Rotary Drilled:			252.00			Avg. Rotary ROP:			159.16		IN	OUT	IN	OUT
Total Drilled Sliding:			25.00			Avg. Slide ROP:			100.00		.0	5.2	.00	60.20
SPP	1455 -1455	Weights	SO	60 -60	PU	70 -70	RAB	64 -64	Reason POOH			TD		

Bit Data							MOTOR DATA							Mud Data													
OTHER		12 1/4 VAREL CH1GJMS 3x16 &					7 3/4 PDM 4/5ML 5.3STG .25RPG							Type	H20												
Type Bit				ROCK			Model: XL			Pad OD				WT		8.8		GAS		0		Solids		4			
TFA		0.837					PERFORMANCE			5/16				Vis		36		SAND		0.25		T °		55			
JETS			16	16	16	18	0	Bend °		1.5		Stator/Rotor		4/5		PV		10		PH		8.5		Chlor		200	
			0	0	0	0	0	Bit to Bend		7		Motor Diff		250		YP		10		WL		15		Oil %		0	
Bit Coding				IADC#		117		Rev/GAL		0.25		PUMPS		PUMP1			BHT°				100						
IR	OR	DL	Loc	BS	G	ODL	NB Stab		12		PUMP1			CHING				CHING									
2	2	WT	A	1	0	WT	Rotor Jet		0		Model			PZ11			PZ11										
Bit Drop:			319 PSI @ 525 GPM				Sensor Offsets					Type		TRIPLEX			TRIPLEX										
Comments					Sensor	43	Sonic	0	Liner		6.00			6.00													
					Gamma	0	DNSC	1134	Stroke		11.00			11.00													
					Restiv	0	GYRO	0	Efficiency		95.00			95.00													

12 1/4 VAREL CH1GJMS 3x16 & 1x18 TFA .837
 7 3/4 MPACT 4/5ML 5.3STG .25RPG 300-900GPM
 Motor Drained & Tested Good.(Winterized)

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	12 1/4 VAREL CH1GJMS 3x16 & 1x18 TFA .837	HB6338		12 1/4	1.00	1.00	6 5/8 REGP
2	7 3/4 MPACT 4/5ML 5.3STG .25RPG	MSD77D110D		7 3/4	29.81	30.81	6 5/8 REGB
3	8" Float Sub	SD103280	2 7/8	8	2.67	33.48	6 5/8 REGB
4	8" UBHO	80005	2 7/8	8	2.90	36.38	6 5/8 REGB
5	8 " NMDC	SD37883	2 15/16	7 3/4	28.55	64.93	6 5/8 REGB
6	XO 6 5/8 PIN x 4 1/2 XH BOX	RIG		8	3.03	67.96	4 1/2 XHB
7	9- 6 1/2 DC	RIG		6 1/2	277.42	345.38	4 1/2 XHB
8	XO 4 1/2 XH PIN x XT39 BOX	RIG		6 1/2	1.30	346.68	XT39B
9	24 Joints 4 Hevi	HWDP-2.563-	2.563	5	735.81	1082.49	4 FHB
10					0.00	1082.49	



Well Information

BHA # 3



JOB NO.: DDOK-110553

FIELD: East Niobrara

COMPANY: Carrizo Oil and Gas

TOWNSHIP:

LOCATION: Weld County

SECT. RANGE:

RIG NAME: Xtreme 19

Lead DD: Tom Beckett

STATE: Colorado

Co. Man: Phil Wilson

COUNTY: Weld County

BHA TYPE: Steerable Assembly

WELL NAME: Speaker 1-27-31-8-61

BHA Summary Information

TIME IN - OUT			Rotary Hours		28.67		Start Depth		1411.00		RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		38.58 / 3.50		End Depth		5886.00				
29-Oct-11 @ 23:15	01-Nov-11 @ 05:30	Slide Hours		6.42		Percent Rotary:		94.28		0 -60	320 -525	
		Below Rotary Hrs.		53.92		Percent Slide:		5.72				
Total Drilled:			4475.00		Avg. Total ROP:		127.55		Incl.		Azimuth	
Total Rotary Drilled:			4219.00		Avg. Rotary ROP:		147.17		IN	OUT	IN	OUT
Total Drilled Sliding:			256.00		Avg. Slide ROP:		39.90		.0	.0	.00	.00
SPP	750 -2425	Weights	SO	60 -75	PU	70 -100	RAB	64 -85	Reason POOH		TD	

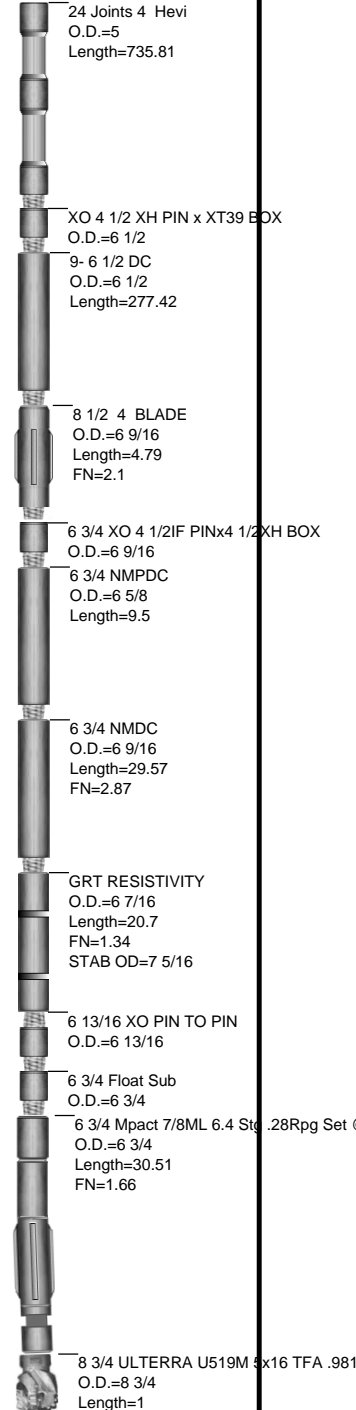
Bit Data							MOTOR DATA					Mud Data					
OTHER		8 3/4 ULTERRA U519M 5x16					6 3/4 PDM 7/8ML 6.4STG .28RPG					Type	H20				
Type Bit				PDC			Model: XXL		Pad OD			WT 9 GAS 0 Solids 4					
TFA		0.981					PERFORMANCE		1/4			Vis 43 SAND 4 T° 90					
							MFG. MPACT										
JETS		16	16	16	16	16	Bend ° 1.5		Stator/Rotor 7/8		PV 9 PH 9 Chlor 200						
		0	0	0	0	0	Bit to Bend 5.68		Motor Diff 250		YP 11 WL 7 Oil % 0						
Bit Coding			IADC#		117		Rev/GAL 0.28					BHT° 131					
IR	OR	DL	Loc	BS	G	ODL	NB Stab 8.5		PUMPS		PUMP1		PUMP1				
									NAME				CHING CHING				
									Model				PZ11 PZ11				
Bit Drop:		237 PSI @ 525 GPM					Sensor Offsets		Type		TRIPLEX		TRIPLEX				
Comments				Sensor		59	Sonic	0	Liner		6.00		6.00				
				Gamma		50	DN	1134	Stroke		11.00		11.00				
				Restiv		47	GYRO	0	Efficiency		95.00		95.00				

8 3/4 ULTERRA U519M 5x16 TFA .981
6 3/4 Mpac 7/8ML 6.4 Stg .28Rpg Set @ 1.5° FBH 300-600GPM
Bit To Bend 5.68

RESISTIVITY -47'
GAMMA -50'
SURVEY -61'

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	8 3/4 ULTERRA U519M 5x16 TFA .981	M10337		8 3/4	1.00	1.00	4 1/2 REGP
2	6 3/4 Mpac 7/8ML 6.4 Stg .28Rpg Set @ 1.5° FBH	MSD67D1458SR		6 3/4	30.51	31.51	4 1/2 IFB
3	6 3/4 Float Sub	SD105211	2 7/8	6 3/4	3.11	34.62	4 1/2 IFB
4	6 13/16 XO PIN TO PIN	SPI675IF001	2 7/8	6 13/16	1.29	35.91	4 1/2 IFP
5	GRT RESISTIVITY	GRT117	1.4	6 7/16	20.70	56.61	4 1/2 IFB
6	6 3/4 NMDC	SD44794	2 7/8	6 9/16	29.57	86.18	4 1/2 IFB
7	6 3/4 NMPDC	SD3375	2 7/8	6 5/8	9.50	95.68	4 1/2 IFB
8	6 3/4 XO 4 1/2IF PINx4 1/2XH BOX	SD4330	2 13/16	6 9/16	2.26	97.94	4 1/2 XHB
9	8 1/2 4 BLADE	SD20021	2 1/4	6 9/16	4.79	102.73	4 1/2 XHB
10	9- 6 1/2 DC	RIG	2 1/4	6 1/2	277.42	380.15	4 1/2 XHB
11	XO 4 1/2 XH PIN x XT39 BOX	RIG	2 1/4	6 1/2	1.30	381.45	XT39B
12	24 Joints 4 Hevi	HWDP-2.563-	2.563	5	735.81	1117.26	XT39B
13					0.00	1117.26	



BHA #	4
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24 Joints 4 Hevi
O.D.=5
Length=735.81

13 Stands 4 Drill Pipe
O.D.=4
Length=1105.41
FN=2.1

5 1/16 XO 4 1/2 IFPINx XT39 BOX
O.D.=5 1/16

6 3/4 NMFDC
O.D.=6 11/16
Length=29.38
FN=2.39

6 3/4 NMDC
O.D.=6 9/16
Length=29.57
FN=2.87

GRT RESISTIVITY
O.D.=6 7/16
Length=20.7
FN=1.34
STAB OD=7 5/16

6 13/16 XO PIN TO PIN
O.D.=6 13/16
Length=1.29

6 3/4 Float Sub
O.D.=6 3/4

6 3/4 Mpack 6/7ML 5.0 Stab .28Rpg
O.D.=6 3/4
Length=26.86
FN=2.08

8 3/4 ULTERRA UD516 3x16 3x8T
O.D.=8 3/4
Length=0.5

Well Information

BHA # 5



JOB NO.: DDOK-110553

FIELD: East Niobrara

COMPANY: Carrizo Oil and Gas

TOWNSHIP:

LOCATION: Weld County

SECT. RANGE:

RIG NAME: Xtreme 19

Lead DD: Tom Beckett

STATE: Colorado

Co. Man: Tom Harris

COUNTY: Weld County

BHA TYPE: Steerable Assembly

WELL NAME: Speaker 1-27-31-8-61

BHA Summary Information

TIME IN - OUT			Rotary Hours		35.25		Start Depth		7060.00		RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		76.50 / 11.92		End Depth		10832.00				
05-Nov-11 @ 23:30	10-Nov-11 @ 05:00	Slide Hours		29.33		Percent Rotary:		77.65		0 -60	0 -268	
		Below Rotary Hrs.		101.50		Percent Slide:		22.35				
Total Drilled:			3772.00		Avg. Total ROP:		58.41		Incl.		Azimuth	
Total Rotary Drilled:			2929.00		Avg. Rotary ROP:		83.09		IN OUT		IN OUT	
Total Drilled Sliding:			843.00		Avg. Slide ROP:		28.74		.0 .0		.00 .00	
SPP	0 -2230	Weights	SO	0 -120	PU	0 -170	RAB	0 -130	Reason POOH		TD	

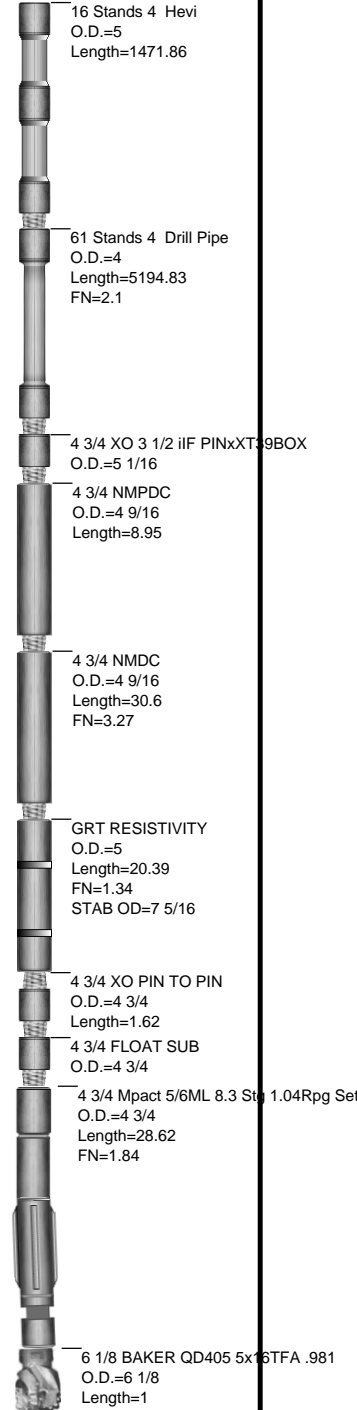
Bit Data							MOTOR DATA							Mud Data						
OTHER		6 1/8 BAKER QD405 5x16TFA					4 3/4 PDM 75/6ML 8.3STG 1.04RPG							Type		Water Base				
Type Bit				PDC			Model: PERFORMANCE				Pad OD			WT 9.6		GAS 2000		Solids 6		
TFA		0.981					MFG. MPACT				1/4			Vis 50		SAND 0.25		T ° 120		
JETS			16	16	16	16	16	Bend ° 1.5		Stator/Rotor 5/6			PV 23		PH 9		Chlor 650			
			0	0	0	0	0	Bit to Bend 5.35		Motor Diff 750			YP 21		WL 6		Oil % 0			
Bit Coding				IADC#		117		Rev/GAL 1.04							BHT°		181			
IR	OR	DL	Loc	BS	G	ODL	NB Stab 0		PUMPS			PUMP1			PUMP1					
									NAME			CHING			CHING					
							Rotor Jet 0		Model			PZ11			PZ11					
1		3		WT		A		1		0		WT		TRIPLEX			TRIPLEX			
Bit Drop:			66 PSI @ 268 GPM				Sensor Offsets				Type			6.00			6.00			
Comments					Sensor		57	Sonic	0	Liner			11.00			11.00				
					Gamma		46	DNSC	5886	Stroke			95.00			95.00				
					Restiv		43	GYRO	0	Efficiency										

6 1/8 BAKER QD405 5x16TFA .981
 4 3/4 Mpack 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH 100-275GPM
 Bit To Bend 5.35

RESISTIVITY -45'
 GAMMA -48'
 SURVEY -58'

BHA Detail

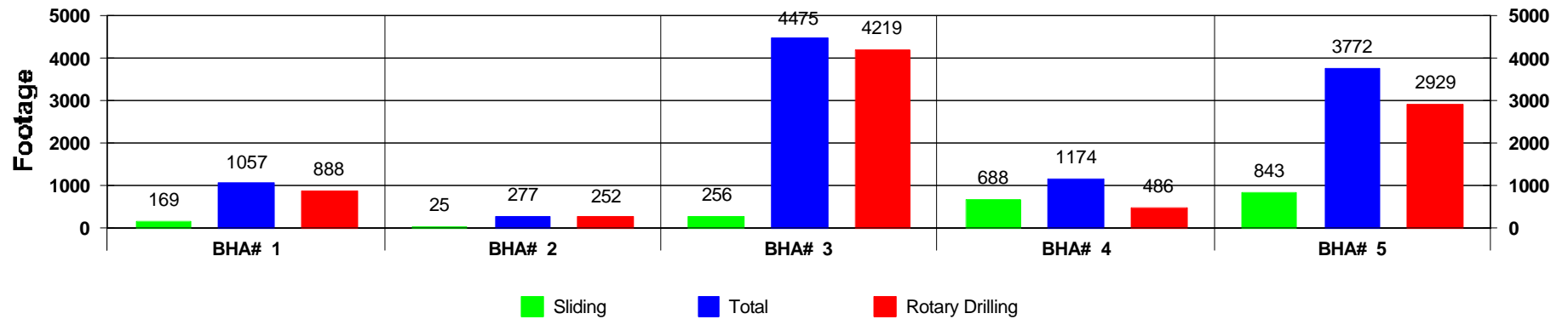
#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	6 1/8 BAKER QD405 5x16TFA .981	702393		6 1/8	1.00	1.00	3 1/2 REGP
2	4 3/4 Mpack 5/6ML 8.3 Stg 1.04Rpg Set @ 1.50° FBH	MSD47D2597SR		4 3/4	28.62	29.62	3 1/2 IFB
3	4 3/4 FLOAT SUB	SD104517	2 5/16	4 3/4	2.47	32.09	3 1/2 IFB
4	4 3/4 XO PIN TO PIN	ARCHER7911	2 1/4	4 3/4	1.62	33.71	3 1/2 IFP
5	GRT RESISTIVITY	GRT115	2 1/2	5	20.39	54.10	3 1/2 IFB
6	4 3/4 NMDC	SD46809	2 11/16	4 9/16	30.60	84.70	3 1/2 IFB
7	4 3/4 NMPDC	SD33624	2 11/16	4 9/16	8.95	93.65	3 1/2 IFB
8	4 3/4 XO 3 1/2 iIF PINXT39BOX	SD108162	2 1/4	5 1/16	3.89	97.54	XT39B
9	61 Stands 4 Drill Pipe	DP-3-S-135	3	4	5,194.83	5292.37	XT39B
10	16 Stands 4 Hevi	HWDP-2.563-	2.563	5	1,471.86	6764.23	XT39B
11					0.00	6764.23	



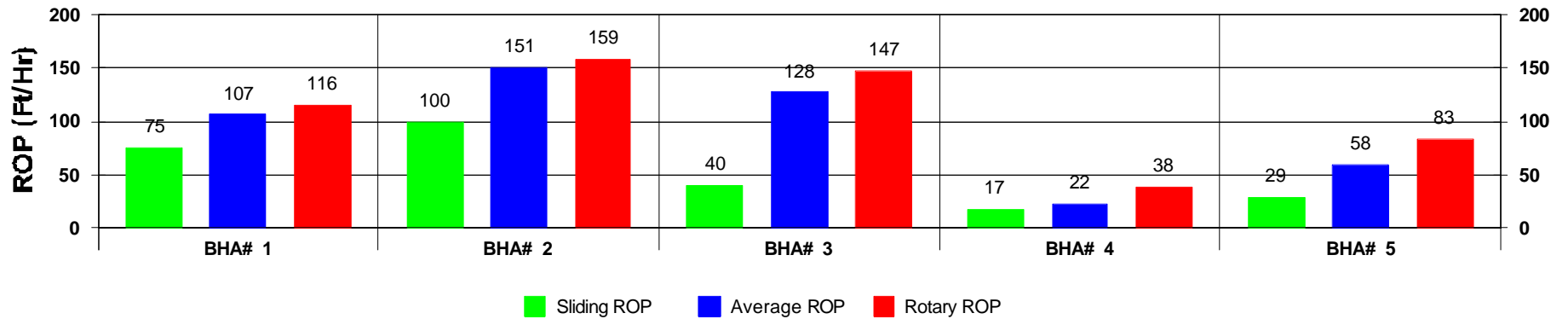


JOB NO.:	DDOK-110553	FIELD:	East Niobrara	
COMPANY:	Carrizo Oil and Gas	TOWNSHIP:		
LOCATION:	Weld County	SECT/RANGE:		
RIG NAME:	Xtreme 19	COMMENT		
STATE:	Colorado			
COUNTY:	Weld County			
WELL NAME:	Speaker 1-27-31-8-61			

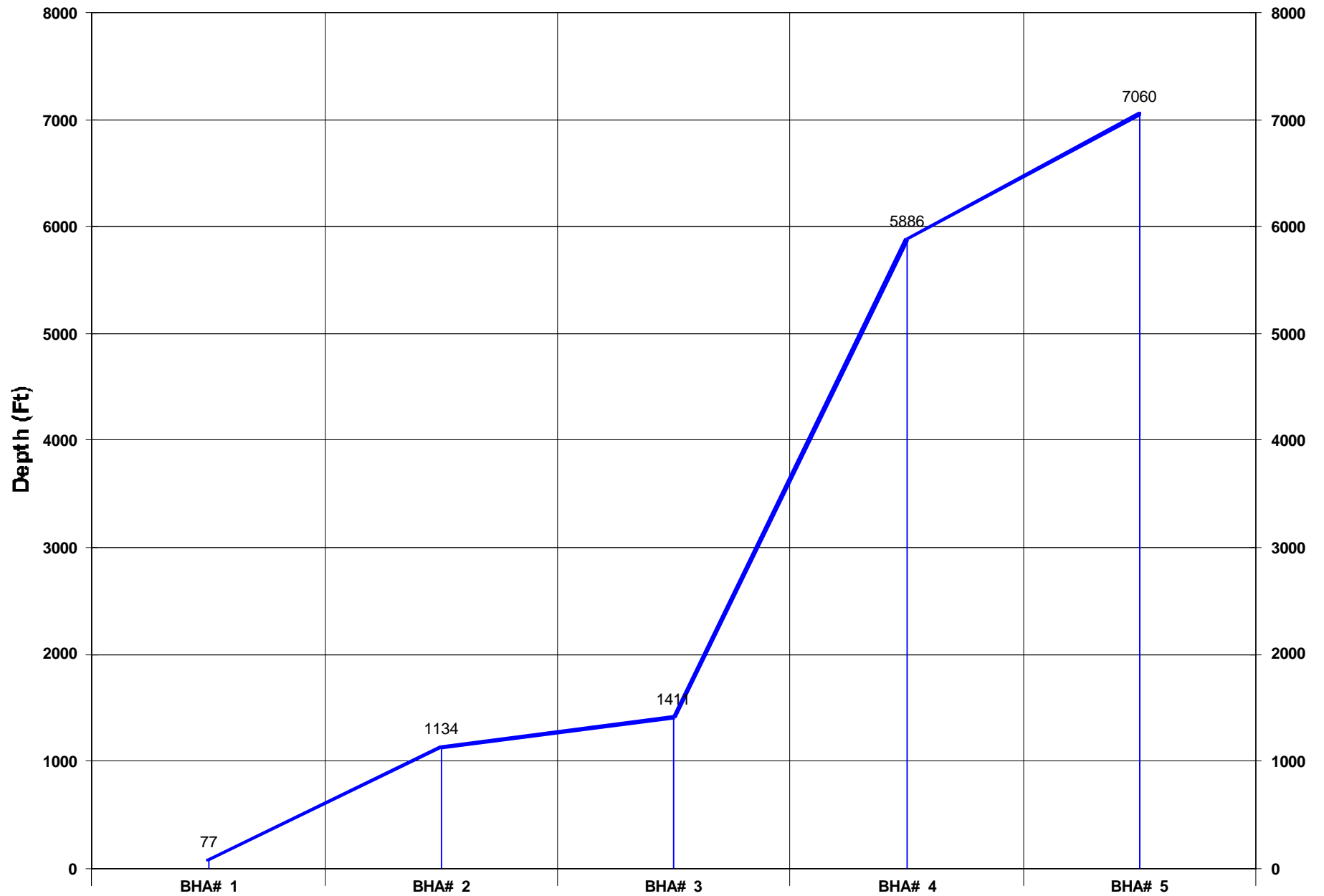
Footage Drilled with BHA



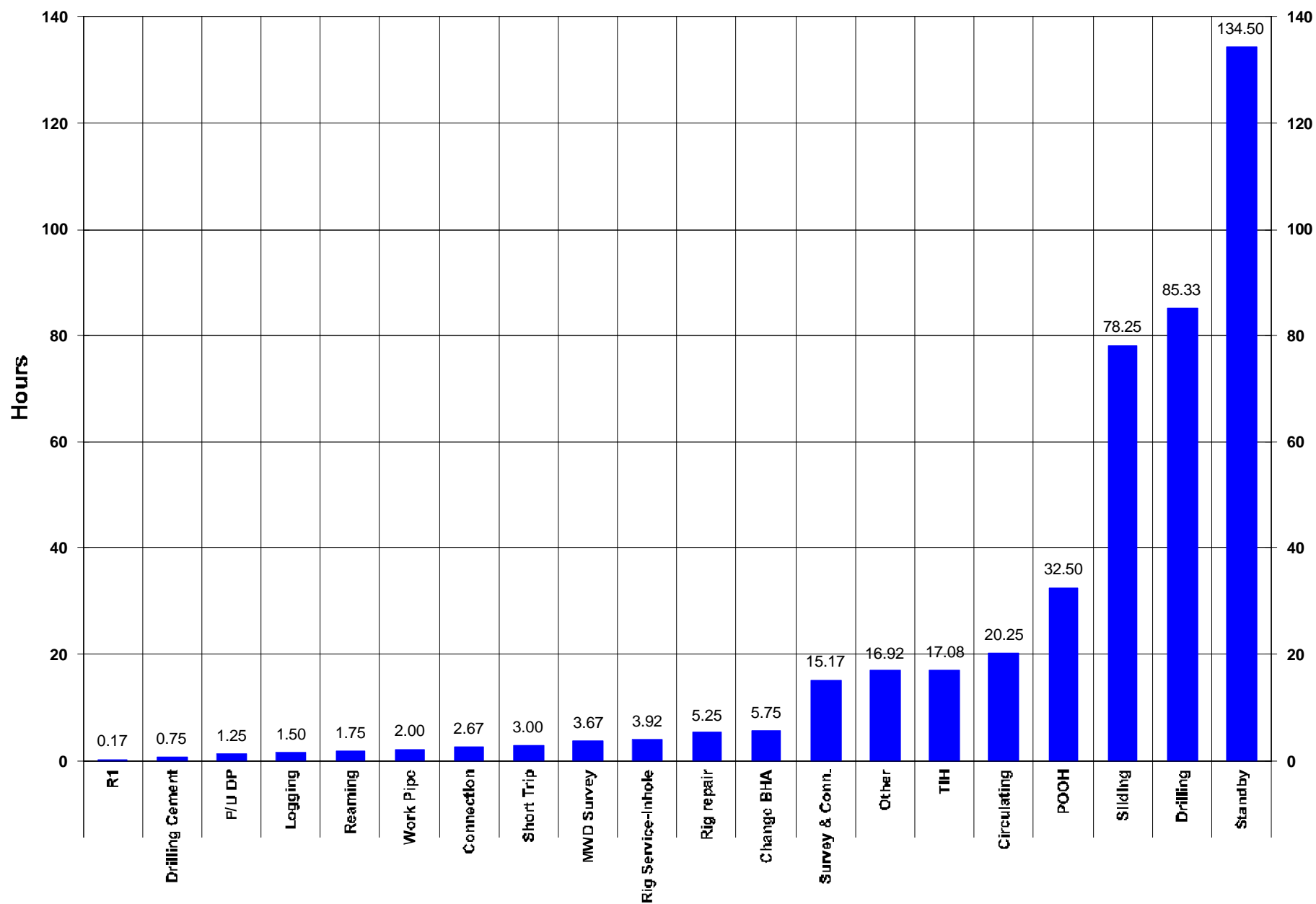
ROP vs BHA



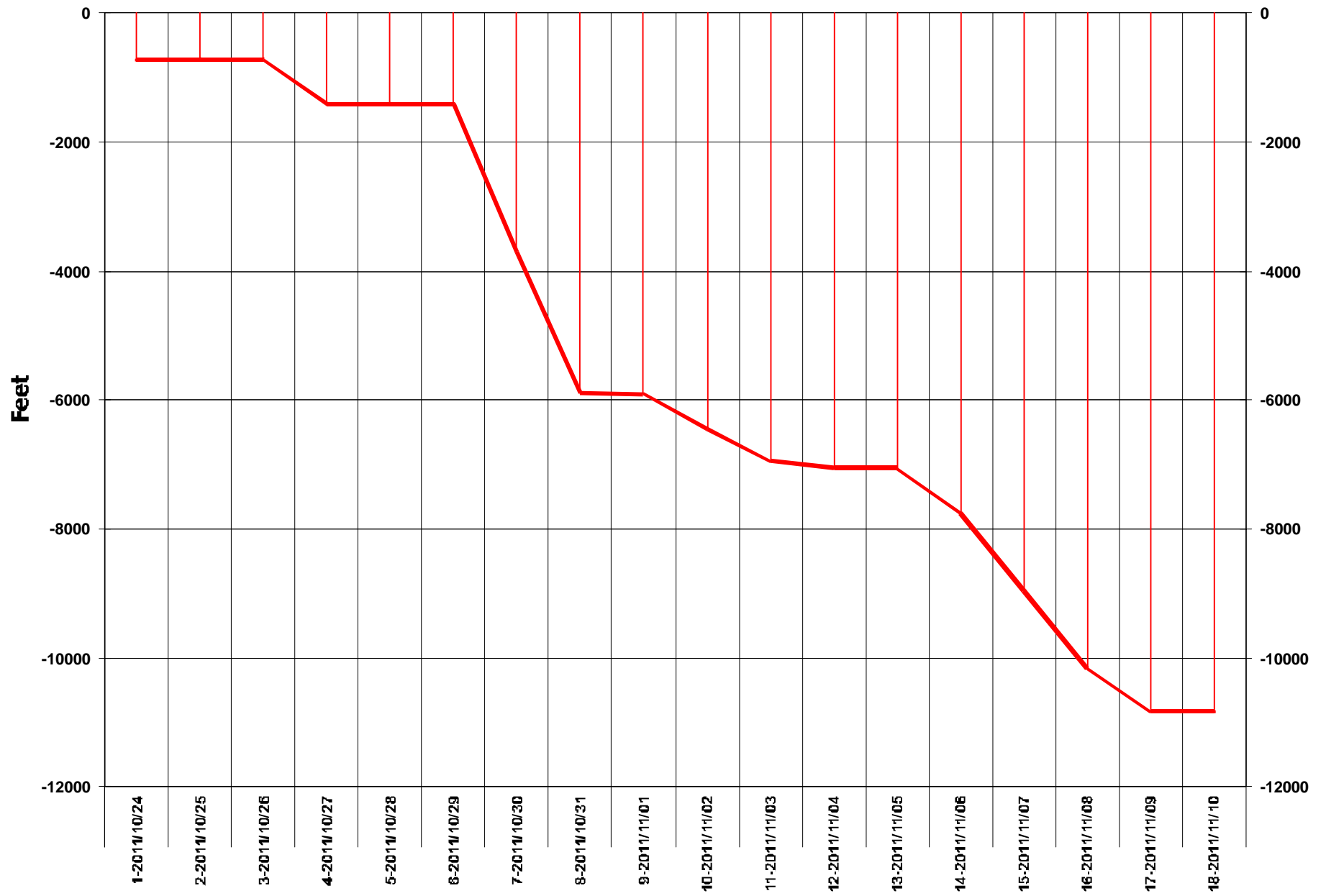
Depth vs BHA



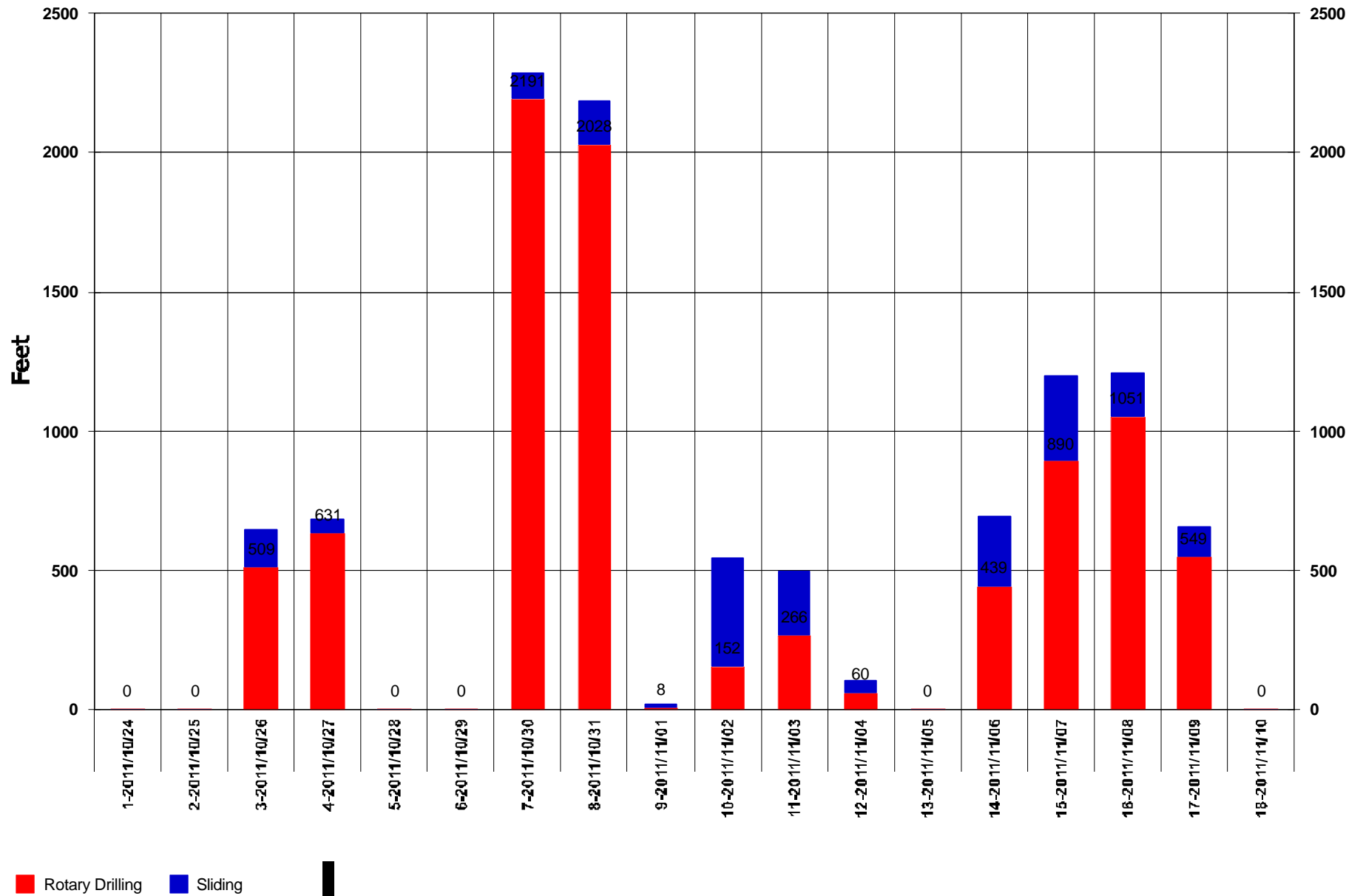
Activity Histogram



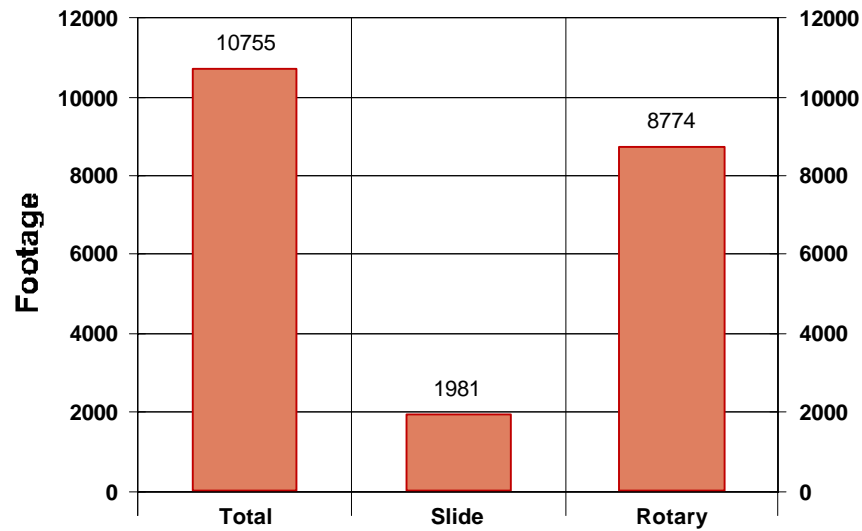
Measured Depth vs Days



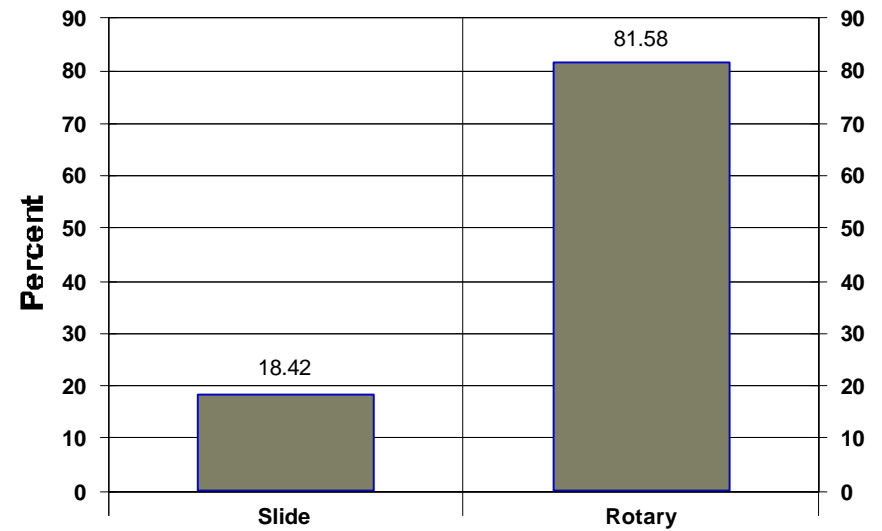
Daily Footage



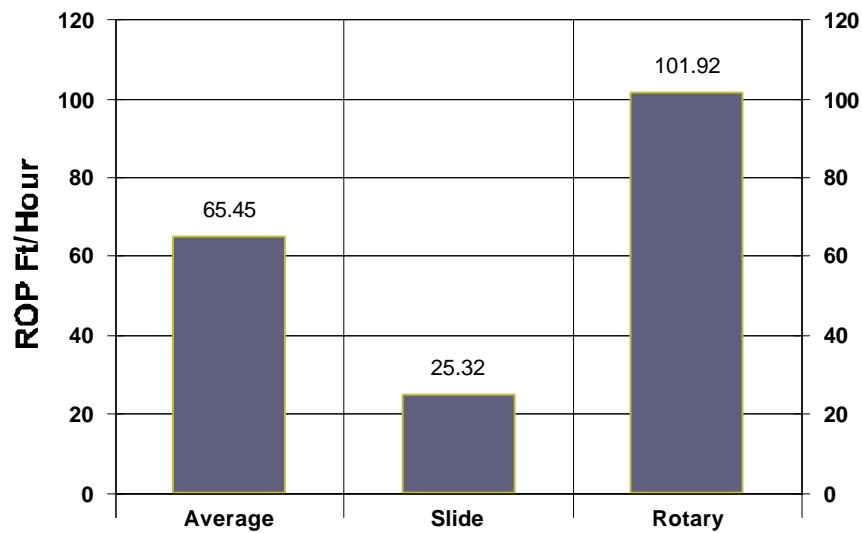
Footage Drilled Totals



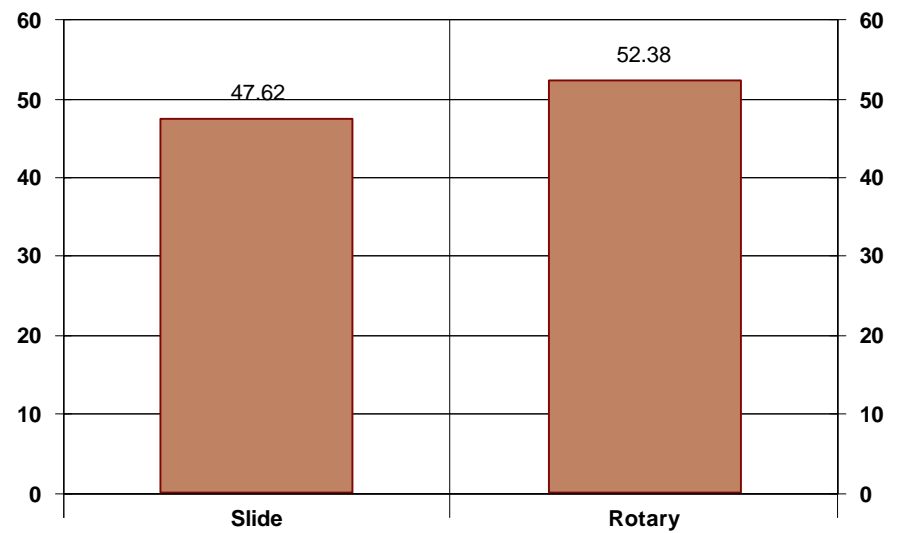
Footage Percent



Rate of Penetration Totals



Time Percent



**Baker, MT**

22 S. 4th St. W.
Baker, MT 59313
Phone: 406.778.3983
Watts: 877.844.9850
Fax: 406.778.3982

Conroe, TX

3335 Pollok Drive
Conroe, TX 77303
Phone: 936.442.2500
Watts: 800.769.5988
Fax: 936.442.2599

Corpus Christi, TX

1579 N. Lexington
Corpus Christi, TX 78409
Phone: 361.289.7272
Watts: 800.880.7468
Fax: 361.289.7320

Dallas, TX

307 W. 7th St. Ste 1230
Ft. Worth, TX 76102
Phone: 817.870.4847
Fax: 817.870.4829

Denver, CO

1600 Broadway St. 2400
Denver, CO 80202
Phone: 303.542.1957
Fax: 303.542.1958

Ft. Worth, TX

7821 Will Rogers Blvd.
Ft. Worth, TX 76140
Phone: 817.568.1038

Grand Junction, CO

742 W. White Ave.
Grand Junction, CO 81501
Phone: 970.257.1911
Watts: 970.257.1946
Fax: 970.257.1947

Houston, TX

1030 Regional Park Dr.
Houston, TX 77060
Phone: 281.951.4346
Fax: 281.951.4342

Lafayette, LA

301 Marcon Drive
Lafayette, LA 70507
Phone: 337.267.7468
Watts: 800.259.2867
Fax: 337.267.9409

Odessa, TX

1620 South Marlin Dr
Odessa, TX 79763
Phone: 432.339.0360
Fax: 432.570.8385

Oklahoma City, OK

3800 S. Thomas Rd
Oklahoma City, OK 73179
Phone: 800.769.5988

West Alexander, PA

903 Old Brick Rd.
West Alexander, PA 15376
Phone: 724.484.7550
Fax: 724.484.0326