



CARRIZO OIL and GAS

MS #DDOK-110307

**Wickstrom 7-11-5-60
Morgan County, Colorado
Cade 22**

July 14, 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: Wickstrom

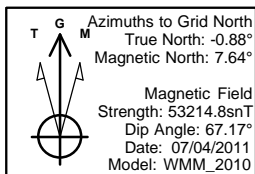
Well: 7-11-5-60

Project: Morgan County, Colorado (NAD83)

Rig Name: Cade 22



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

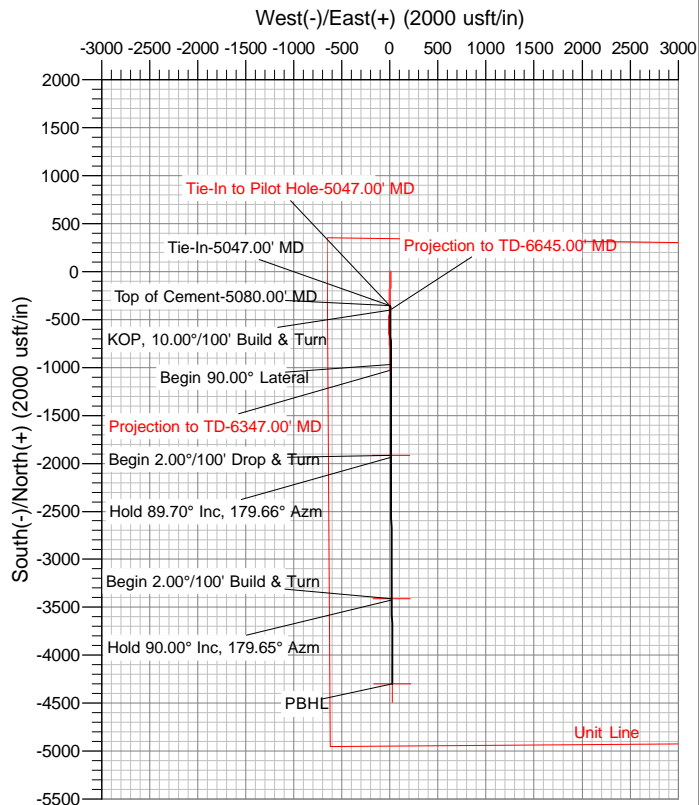
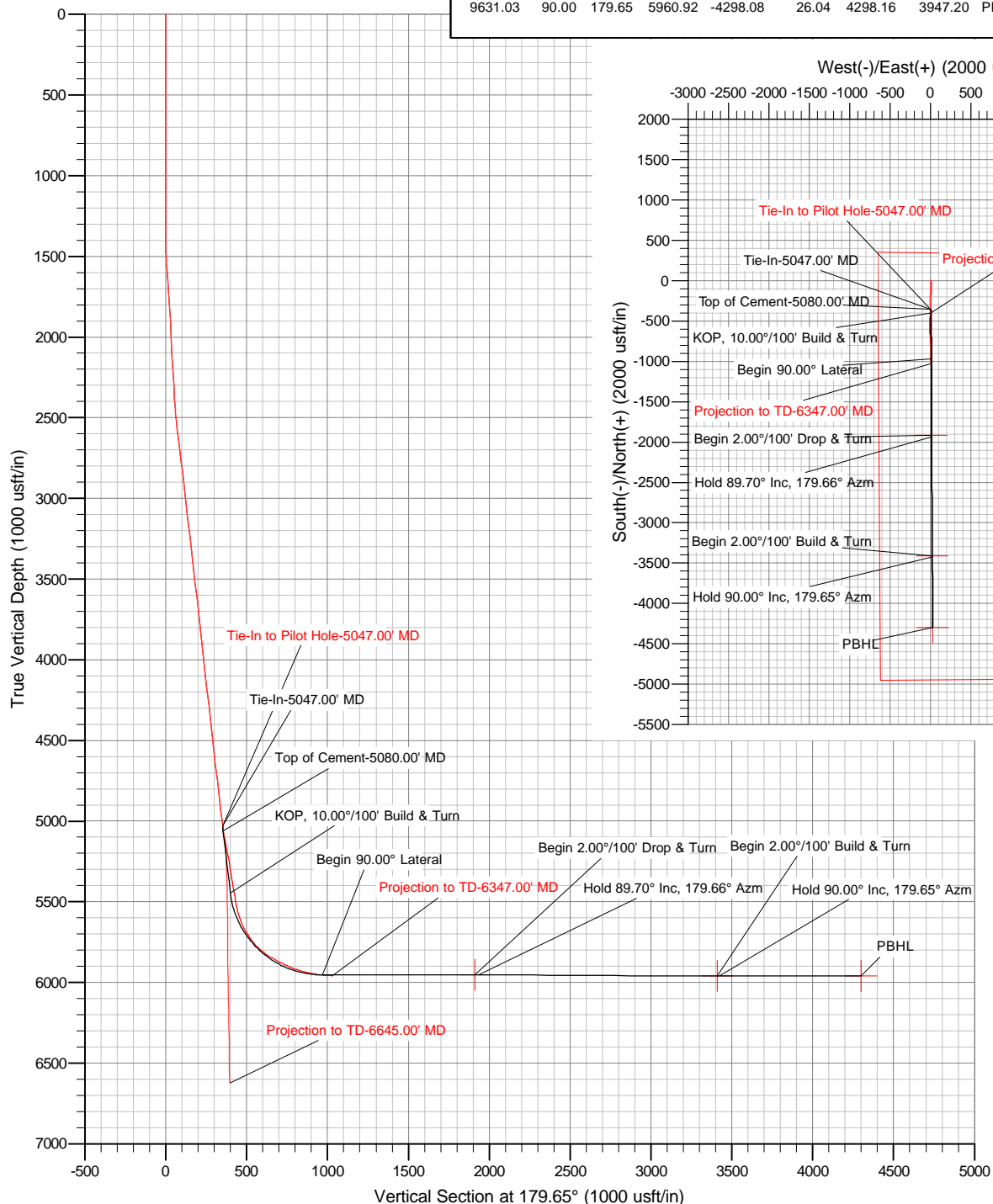


US State Plane 1983
Colorado Northern Zone

Created By: Megan Pope
Date: 9:55, July 14 2011
Plan: Design #6

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
5047.00	6.80	175.30	5028.60	-351.16	1.33	351.16	0.00	Tie-In-5047.00' MD
5080.00	6.56	175.07	5061.37	-354.99	1.65	354.99	3.84	Top of Cement-5080.00' MD
5466.44	6.56	175.07	5445.29	-398.97	5.45	399.00	47.99	KOP, 10.00°/100' Build & Turn
6301.08	90.00	179.95	5953.00	-968.20	10.93	968.25	617.27	Begin 90.00° Lateral
7245.09	90.00	179.95	5953.00	-1912.21	11.80	1912.25	1561.28	Begin 2.00°/100' Drop & Turn
7266.02	89.70	179.66	5953.06	-1933.13	11.87	1933.17	1582.21	Hold 89.70° Inc, 179.66° Azm
8742.45	89.70	179.66	5960.88	-3409.52	20.65	3409.58	3058.62	Begin 2.00°/100' Build & Turn
8757.64	90.00	179.65	5960.92	-3424.71	20.74	3424.77	3073.81	Hold 90.00° Inc, 179.65° Azm
9631.03	90.00	179.65	5960.92	-4298.08	26.04	4298.16	3947.20	PBHL



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

Morgan County, Colorado (NAD83)

Wickstrom

7-11-5-60

Pilot

Survey: MS MWD

Standard Survey Report

12 July, 2011



Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 7-11-5-60
Project:	Morgan County, Colorado (NAD83)	TVD Reference:	Well @ 4605.30usft (Cade 22)
Site:	Wickstrom	MD Reference:	Well @ 4605.30usft (Cade 22)
Well:	7-11-5-60	North Reference:	Grid
Wellbore:	Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Project	Morgan 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	7-11-5-60				
Well Position	+N/-S	0.00 usft	Northing:	1,399,620.78 usft	Latitude: 40° 25' 20.7853 N
	+E/-W	0.00 usft	Easting:	3,377,446.35 usft	Longitude: 104° 8' 39.357 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 4,589.30 usft

Wellbore	Pilot				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	07/04/11	8.51	67.17	53,215

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	179.65	

Survey Program	Date	07/12/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,442.00	6,645.00	MS MWD (Pilot)	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	
1,442.00	0.40	109.40	1,441.99	-1.67	4.75	1.70	0.03	0.03	0.00	
1,472.00	0.40	132.60	1,471.99	-1.78	4.92	1.81	0.54	0.00	77.33	
1,563.00	4.10	174.10	1,562.90	-5.23	5.49	5.26	4.19	4.07	45.60	
1,656.00	4.70	166.70	1,655.63	-12.24	6.71	12.29	0.89	0.65	-7.96	
1,717.00	3.80	172.20	1,716.46	-16.68	7.56	16.73	1.62	-1.48	9.02	
1,812.00	3.30	177.80	1,811.28	-22.53	8.09	22.58	0.64	-0.53	5.89	
1,907.00	3.30	182.40	1,906.12	-28.00	8.08	28.04	0.28	0.00	4.84	
2,002.00	3.00	175.00	2,000.98	-33.20	8.18	33.25	0.53	-0.32	-7.79	
2,098.00	2.60	178.90	2,096.86	-37.88	8.45	37.93	0.46	-0.42	4.06	
2,193.00	3.30	187.50	2,191.74	-42.75	8.13	42.80	0.87	0.74	9.05	
2,288.00	3.30	192.00	2,286.58	-48.13	7.20	48.18	0.27	0.00	4.74	
2,383.00	3.50	183.40	2,381.41	-53.70	6.46	53.74	0.58	0.21	-9.05	
2,478.00	5.50	185.40	2,476.12	-61.13	5.86	61.17	2.11	2.11	2.11	
2,573.00	6.80	180.10	2,570.57	-71.29	5.42	71.32	1.49	1.37	-5.58	



Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 7-11-5-60
Project:	Morgan County, Colorado (NAD83)	TVD Reference:	Well @ 4605.30usft (Cade 22)
Site:	Wickstrom	MD Reference:	Well @ 4605.30usft (Cade 22)
Well:	7-11-5-60	North Reference:	Grid
Wellbore:	Pilot	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)	
2,669.00	7.20	181.50	2,665.85	-82.99	5.26	83.02	0.45	0.42	1.46	
2,764.00	6.90	179.90	2,760.13	-94.64	5.11	94.67	0.38	-0.32	-1.68	
2,859.00	6.90	179.90	2,854.45	-106.06	5.13	106.09	0.00	0.00	0.00	
2,954.00	6.40	178.10	2,948.81	-117.05	5.32	117.09	0.57	-0.53	-1.89	
3,049.00	6.10	179.20	3,043.24	-127.39	5.56	127.43	0.34	-0.32	1.16	
3,144.00	6.20	183.20	3,137.70	-137.56	5.35	137.59	0.46	0.11	4.21	
3,239.00	6.90	185.90	3,232.08	-148.36	4.47	148.39	0.80	0.74	2.84	
3,335.00	6.60	187.30	3,327.41	-159.57	3.18	159.59	0.36	-0.31	1.46	
3,430.00	6.60	184.80	3,421.78	-170.43	2.03	170.43	0.30	0.00	-2.63	
3,524.00	6.60	185.40	3,515.16	-181.19	1.07	181.19	0.07	0.00	0.64	
3,620.00	6.50	183.80	3,610.53	-192.10	0.19	192.10	0.22	-0.10	-1.67	
3,715.00	6.00	182.00	3,704.97	-202.43	-0.34	202.42	0.57	-0.53	-1.89	
3,810.00	6.20	181.70	3,799.43	-212.52	-0.66	212.51	0.21	0.21	-0.32	
3,905.00	6.50	181.30	3,893.85	-223.02	-0.94	223.01	0.32	0.32	-0.42	
4,000.00	6.30	178.10	3,988.25	-233.61	-0.89	233.60	0.43	-0.21	-3.37	
4,096.00	6.00	179.70	4,083.70	-243.89	-0.69	243.88	0.36	-0.31	1.67	
4,191.00	6.90	180.80	4,178.10	-254.56	-0.74	254.55	0.96	0.95	1.16	
4,286.00	6.90	183.20	4,272.41	-265.96	-1.14	265.95	0.30	0.00	2.53	
4,381.00	6.20	184.50	4,366.79	-276.78	-1.86	276.76	0.75	-0.74	1.37	
4,476.00	6.40	181.00	4,461.22	-287.18	-2.36	287.16	0.46	0.21	-3.68	
4,571.00	6.30	179.20	4,555.63	-297.69	-2.37	297.67	0.23	-0.11	-1.89	
4,667.00	5.80	178.30	4,651.10	-307.80	-2.16	307.79	0.53	-0.52	-0.94	
4,762.00	6.80	175.70	4,745.52	-318.21	-1.59	318.20	1.09	1.05	-2.74	
4,857.00	6.20	173.10	4,839.91	-328.91	-0.56	328.90	0.70	-0.63	-2.74	
4,952.00	7.00	176.00	4,934.28	-339.78	0.46	339.78	0.91	0.84	3.05	
5,047.00	6.80	175.30	5,028.60	-351.16	1.33	351.16	0.23	-0.21	-0.74	
5,142.00	6.10	174.60	5,122.99	-361.79	2.27	361.80	0.74	-0.74	-0.74	
5,237.00	5.20	173.10	5,217.53	-371.09	3.26	371.10	0.96	-0.95	-1.58	
5,332.00	1.80	163.90	5,312.34	-376.80	4.19	376.82	3.62	-3.58	-9.68	
5,428.00	1.20	148.80	5,408.31	-379.11	5.13	379.13	0.74	-0.63	-15.73	
5,523.00	1.10	147.90	5,503.29	-380.73	6.13	380.76	0.11	-0.11	-0.95	
5,618.00	1.10	153.90	5,598.27	-382.32	7.01	382.36	0.12	0.00	6.32	
5,713.00	0.50	127.50	5,693.26	-383.39	7.74	383.43	0.73	-0.63	-27.79	
5,808.00	0.40	123.10	5,788.26	-383.83	8.35	383.87	0.11	-0.11	-4.63	
5,903.00	1.00	146.90	5,883.25	-384.70	9.08	384.75	0.69	0.63	25.05	
5,998.00	1.10	149.00	5,978.24	-386.18	10.00	386.23	0.11	0.11	2.21	
6,094.00	1.10	155.80	6,074.22	-387.81	10.86	387.87	0.14	0.00	7.08	
6,189.00	0.80	147.90	6,169.20	-389.20	11.58	389.27	0.34	-0.32	-8.32	
6,284.00	0.80	148.60	6,264.20	-390.33	12.28	390.40	0.01	0.00	0.74	
6,379.00	1.10	176.70	6,359.18	-391.81	12.68	391.88	0.57	0.32	29.58	
6,474.00	0.60	195.60	6,454.17	-393.20	12.60	393.27	0.60	-0.53	19.89	
6,570.00	0.90	194.80	6,550.16	-394.41	12.27	394.48	0.31	0.31	-0.83	
6,645.00	0.90	194.80	6,625.15	-395.55	11.97	395.61	0.00	0.00	0.00	
Projection to TD-6645.00' MD										



Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 7-11-5-60
Project:	Morgan County, Colorado (NAD83)	TVD Reference:	Well @ 4605.30usft (Cade 22)
Site:	Wickstrom	MD Reference:	Well @ 4605.30usft (Cade 22)
Well:	7-11-5-60	North Reference:	Grid
Wellbore:	Pilot	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)

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,645.00	6,625.15	-395.55	11.97	Projection to TD-6645.00' MD



Carrizo Oil & Gas

Morgan County, Colorado (NAD83)

Wickstrom

7-11-5-60

Wellbore #1

Survey: MS MWD

Standard Survey Report

14 July, 2011

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 7-11-5-60
Project:	Morgan County, Colorado (NAD83)	TVD Reference:	Well @ 4605.30usft (Cade 22)
Site:	Wickstrom	MD Reference:	Well @ 4605.30usft (Cade 22)
Well:	7-11-5-60	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Project	Morgan 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	7-11-5-60				
Well Position	+N/-S	0.00 usft	Northing:	1,399,620.78 usft	Latitude: 40° 25' 20.7853 N
	+E/-W	0.00 usft	Easting:	3,377,446.35 usft	Longitude: 104° 8' 39.357 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 4,589.30 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	07/04/11	8.51	67.17	53,215

Design	Surveys				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5,047.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	179.65	

Survey Program	Date	07/14/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
1,442.00	5,047.00	MS MWD (Pilot)	MWD	MWD - Standard	
5,047.00	6,347.00	MS 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)	
5,047.00	6.80	175.30	5,028.60	-351.16	1.33	351.16	0.00	0.00	0.00	
Tie-In to Pilot Hole-5047.00' MD										
5,086.00	10.20	183.90	5,067.16	-356.91	1.28	356.91	9.28	8.72	22.05	
5,118.00	11.10	184.40	5,098.61	-362.81	0.85	362.81	2.83	2.81	1.56	
5,150.00	10.90	186.40	5,130.02	-368.88	0.28	368.88	1.35	-0.63	6.25	
5,181.00	10.90	187.40	5,160.46	-374.70	-0.42	374.69	0.61	0.00	3.23	
5,213.00	10.80	186.00	5,191.89	-380.69	-1.13	380.67	0.88	-0.31	-4.38	
5,245.00	9.90	182.70	5,223.37	-386.42	-1.57	386.40	3.37	-2.81	-10.31	
5,276.00	10.00	182.00	5,253.91	-391.77	-1.79	391.75	0.51	0.32	-2.26	
5,308.00	9.80	181.80	5,285.43	-397.27	-1.97	397.25	0.63	-0.63	-0.63	
5,340.00	9.20	182.70	5,316.99	-402.54	-2.18	402.52	1.93	-1.88	2.81	
5,372.00	9.70	183.00	5,348.56	-407.79	-2.44	407.77	1.57	1.56	0.94	
5,404.00	9.10	181.10	5,380.13	-413.01	-2.63	412.99	2.11	-1.88	-5.94	
5,435.00	9.30	180.40	5,410.73	-417.97	-2.69	417.94	0.74	0.65	-2.26	
5,467.00	9.20	181.10	5,442.31	-423.11	-2.76	423.09	0.47	-0.31	2.19	

Company:	Carrizo Oil & Gas	Local Co-ordinate Reference:	Well 7-11-5-60
Project:	Morgan County, Colorado (NAD83)	TVD Reference:	Well @ 4605.30usft (Cade 22)
Site:	Wickstrom	MD Reference:	Well @ 4605.30usft (Cade 22)
Well:	7-11-5-60	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)	
5,499.00	9.00	181.80	5,473.91	-428.17	-2.89	428.15	0.71	-0.63	2.19	
5,531.00	10.20	181.80	5,505.46	-433.51	-3.06	433.48	3.75	3.75	0.00	
5,562.00	12.90	182.10	5,535.83	-439.71	-3.27	439.68	8.71	8.71	0.97	
5,594.00	15.70	182.80	5,566.83	-447.60	-3.61	447.57	8.77	8.75	2.19	
5,625.00	18.60	183.10	5,596.45	-456.73	-4.08	456.70	9.36	9.35	0.97	
5,657.00	21.80	181.80	5,626.48	-467.77	-4.55	467.73	10.10	10.00	-4.06	
5,689.00	25.20	180.80	5,655.82	-480.52	-4.83	480.49	10.70	10.63	-3.13	
5,720.00	29.00	179.60	5,683.41	-494.64	-4.87	494.60	12.38	12.26	-3.87	
5,752.00	32.90	178.90	5,710.85	-511.09	-4.65	511.06	12.24	12.19	-2.19	
5,784.00	37.00	179.70	5,737.08	-529.42	-4.43	529.38	12.89	12.81	2.50	
5,816.00	41.30	180.70	5,761.89	-549.62	-4.51	549.58	13.58	13.44	3.13	
5,847.00	45.70	180.80	5,784.37	-570.95	-4.79	570.91	14.20	14.19	0.32	
5,879.00	50.50	180.30	5,805.73	-594.76	-5.01	594.72	15.04	15.00	-1.56	
5,911.00	55.10	179.40	5,825.07	-620.24	-4.94	620.20	14.55	14.38	-2.81	
5,942.00	59.20	178.10	5,841.89	-646.27	-4.36	646.23	13.69	13.23	-4.19	
5,974.00	60.90	176.80	5,857.86	-673.97	-3.13	673.94	6.37	5.31	-4.06	
6,006.00	62.20	177.20	5,873.11	-702.07	-1.66	702.04	4.21	4.06	1.25	
6,038.00	63.20	176.70	5,887.78	-730.46	-0.14	730.45	3.42	3.13	-1.56	
6,069.00	66.20	177.20	5,901.03	-758.44	1.35	758.44	9.79	9.68	1.61	
6,101.00	69.80	178.00	5,913.02	-788.08	2.59	788.08	11.49	11.25	2.50	
6,133.00	73.30	179.00	5,923.14	-818.42	3.38	818.43	11.33	10.94	3.13	
6,165.00	75.40	179.10	5,931.77	-849.23	3.89	849.24	6.57	6.56	0.31	
6,197.00	76.70	179.70	5,939.49	-880.28	4.21	880.29	4.45	4.06	1.88	
6,228.00	78.30	180.10	5,946.20	-910.55	4.27	910.56	5.31	5.16	1.29	
6,260.00	81.40	180.30	5,951.84	-942.04	4.16	942.05	9.71	9.69	0.63	
6,292.00	84.90	180.40	5,955.65	-973.81	3.96	973.82	10.94	10.94	0.31	
6,347.00	90.20	179.50	5,958.00	-1,028.74	4.01	1,028.74	9.77	9.64	-1.64	
Projection to TD-6347.00' MD										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,047.00	5,028.60	-351.16	1.33	Tie-In to Pilot Hole-5047.00' MD	
6,347.00	5,958.00	-1,028.74	4.01	Projection to TD-6347.00' MD	



JOB NO.:	DDOK-110307	Report Time:	2400	1 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Saturday, July 02, 2011 at 0000 to Saturday, July 02, 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 :		Mike Reynosa					Size	Lb/ft	Set Depth	N/A	
Second Directional :		Kenneth Reed					9 5/8	36	1414		
MWD Operator1		Mike Valentine					Signature:				
MWD Operator2		Kevin F. Clary									
Directional Company:		MS Energy Directional									
Geologist:											
Company Man:		Phil Wilson								Daily Cost	\$10,000.00
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$10,000.00		

GENERAL COMMENT

Daily Cost Breakdown: Mob/Demob charge=\$10,000.00
Total Daily Cost: \$10,000.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
2-Jul-11	00:00	22:00	22.00	0	0	Standby	Travel to location Wickstrom 7-11-5-60
2-Jul-11	22:00	24:00	2.00	0	0	Standby	Standby while rig drills surface



JOB NO.:	DDOK-110307	Report Time:	2400	2 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Sunday, July 03, 2011 at 0000 to Sunday, July 03, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	70	Slack Off	60	SPM	
End Depth	0.00	Circulating Hours	0.00	RAB	65	SPP	1250	FlowRate	460 - 460	110	
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	WBM	PV	15	SOLID		4.8	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9.3	GAS	0	YP	9	BHT°	0
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	55	SAND	3	PH	8	Flow T°	66
Below Rotary Hrs.	0.00	Percent Slide:	NA	Chlorides	300	WL	21.6		Oil %		0

PERSONNEL						CASING			BHA	
Lead Directional :		Mike Reynosa				Size	Lb/ft	Set Depth	N/A	
Second Directional :		Kenneth Reed				9 5/8	36	1414		
MWD Operator1		Mike Valentine				Signature:				
MWD Operator2		Kevin F. Clary								
Directional Company:		MS Energy Directional								
Geologist:										
Company Man:		Phil Wilson							Daily Cost	\$7,275.00
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$17,275.00	

GENERAL COMMENT											
Daily Cost Breakdown: Standby cost=\$6,975.00; Subsistence charge x 4=\$300.00											
Total Daily Cost: \$7,275.00											

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
3-Jul-11	00:00	24:00	24.00	1414	1414	Standby	Standby During casing operation.



JOB NO.:	DDOK-110307	Report Time:	2400	3 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Monday, July 04, 2011 at 0000 to Monday, July 04, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	0	Pick UP	70	Slack Off	60	SPM		
End Depth	0.00	Circulating Hours	0.00	RAB	65	SPP	800	FlowRate	400 - 400	95		
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data								
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	WBM			PV	4	SOLID	1.6	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	8.8	GAS	0	YP	2	BHT°	0	
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	28	SAND	2.5	PH	9.2	Flow T°	66	
Below Rotary Hrs.	6.00	Percent Slide:	NA	Chlorides	500	WL	64			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Mike Reynosa			Size	Lb/ft	Set Depth		BHA # 1:8 3/4".MS1955BC,Ultrerra PDC bit, 6 3/4",6/7,5.0 Perf set @ 1.5°(fixed), X-Over / Float sub (Plunger type), 8 1/2" String Stab, UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), 8 1/4" String Stab, 3 Stds 6.5 Drill Collars, X-Over 4.5 XH (P) x XT39 (B), 44 Jts XT-39 HWDP,				
Second Directional :	Kenneth Reed			9 5/8	36	1414						
MWD Operator1	Mike Valentine											
MWD Operator2	Kevin F. Clary											
Directional Company:	MS Energy Directional											
Geologist:				Signature:								
Company Man:	Phil Wilson											
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Daily Cost	\$9,600.00			
							Cummulative Cost:	\$26,875.00				

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$9,300.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$9,600.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
4-Jul-11	00:00	18:00	18.00	1414	1414	Standby	Standby during Nipple up & Test BOP's.
4-Jul-11	18:00	20:00	2.00	1414	1414	Change BHA	Pick up BHA #1
4-Jul-11	20:00	22:15	2.25	1414	1414	TIH	TIH
4-Jul-11	22:15	23:00	0.75	1414	1414	Other	Remove bells and elevators, P/U kelly
4-Jul-11	23:00	24:00	1.00	1414	1414	Rig repair	Work on pumps



JOB NO.:	DDOK-110307	Report Time:	2400	4 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Tuesday, July 05, 2011 at 0000 to Tuesday, July 05, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters						
Start Depth	1424.00	Rotary Hours	9.50	WOB	15	Pick UP	70	Slack Off	60	SPM	
End Depth	2557.00	Circulating Hours	1.25	RAB	65	SPP	2200	FlowRate	400 - 585	155	
Total Drilled:	1133.00	Avg. Total ROP:	87.15	Mud Data							
Total Rotary Drilled:	1032.00	Avg. Rotary ROP:	108.63	Type	WBM			PV	4	SOLID	1.6
Total Drilled Sliding:	101.00	Avg. Slide ROP:	28.86	Weight	8.8	GAS	0	YP	2	BHT°	0
Slide Hours:	3.50	Percent Rotary:	91.09	Viscosity	28	SAND	2.5	PH	9.2	Flow T°	66
Below Rotary Hrs.	24.00	Percent Slide:	8.91	Chlorides	500	WL	64			Oil %	0
PERSONNEL				CASING					BHA		
Lead Directional :	Mike Reynosa			Size	Lb/ft	Set Depth		BHA # 1:8 3/4".MS1955BC,Ulterra PDC bit, 6 3/4",6/7.5.0 Perf set @ 1.5°(fixed), X-Over / Float sub (Plunger type), 8 1/2" String Stab, UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), 8 1/4" String Stab, 3 Sds 6.5 Drill Collars, X-Over 4.5 XH (P) x XT39 (B), 44 Jts XT-39 HWDP,			
Second Directional :	Kenneth Reed			9 5/8	36	1414					
MWD Operator1	Mike Valentine										
MWD Operator2	Kevin F. Clary										
Directional Company:	MS Energy Directional										
Geologist:											
Company Man:	Phil Wilson			Signature:		Daily Cost		\$13,285.00			
Incl. In:	0	Azm. In:	0			Incl. Out:	5.5	Azm. Out:	185.4	Cummulative Cost:	\$40,160.00

GENERAL COMMENT

Daily Cost Breakdown: Operating cost-\$9,300.00; Subsistence charge x 4-\$300.00; Pipe screen - \$550.00; Inspect/recut/redress x 7-\$2450.00; Motor rebuild charge (#67D1290SR)-\$685.00
Total Daily Cost: \$13,285.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
5-Jul-11	00:00	03:00	3.00	1414	1414	Rig repair	Wait on welder
5-Jul-11	03:00	03:30	0.50	1414	1414	Rig repair	Pressure test casing
5-Jul-11	03:30	04:15	0.75	1414	1424	Circulating	Drill float equipment, cement, shoe and 10' of new formation
5-Jul-11	04:15	04:45	0.50	1424	1424	Other	Perform FIT w/10.5 ppg EMW
5-Jul-11	04:45	05:00	0.25	1424	1424	Rig repair	Work on flowline
5-Jul-11	05:00	05:15	0.25	1424	1476	Drilling	Drilling - (WOB:10;GPM:400;RPM:40;DIFF:300)
5-Jul-11	05:15	05:45	0.50	1476	1476	Other	Install rotating head
5-Jul-11	05:45	06:00	0.25	1476	1506	Drilling	Drilling - (WOB:0;GPM :400;RPM:40;DIFF:300)
5-Jul-11	06:00	06:15	0.25	1506	1506	Survey & Conn.	Survey & Conn. @ 1,442' Inc. 0.4° Azm. 109.4°.
5-Jul-11	06:15	06:30	0.25	1506	1526	Sliding	Slide - (WOB:3;GPM:585;TFO:180M;DIFF:150)
5-Jul-11	06:30	06:45	0.25	1526	1536	Drilling	Drilling - (WOB:10;GPM :585;RPM:60;DIFF:350)
5-Jul-11	06:45	07:00	0.25	1536	1536	Survey & Conn.	Survey & Conn. @ 1,472' Inc. 0.4° Azm. 132.6°.
5-Jul-11	07:00	07:15	0.25	1536	1556	Sliding	Sliding - (WOB:4;GPM :585;TFO:180M;DIFF:150)
5-Jul-11	07:15	07:30	0.25	1556	1567	Drilling	Drilling - (WOB:10;GPM :585;RPM:60;DIFF:350)
5-Jul-11	07:30	08:00	0.50	1567	1567	Rig Service-Inhole	Rig Service-Inhole
5-Jul-11	08:00	08:30	0.50	1567	1627	Drilling	Drilling - (WOB:10;GPM :585;RPM:60;DIFF:350)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
5-Jul-11	08:30	08:45	0.25	1627	1627	Survey & Conn.	Survey & Conn. @ 1,563' Inc. 4.1° Azm. 174.1°.
5-Jul-11	08:45	09:00	0.25	1627	1627	Rig repair	Rig repair: Work on Mud Pumps.
5-Jul-11	09:00	09:15	0.25	1627	1720	Drilling	Drilling - (WOB:12;GPM :585;RPM:60;DIFF:400)
5-Jul-11	09:15	09:30	0.25	1720	1720	Survey & Conn.	Survey & Conn. @ 1,656' Inc. 4.7° Azm. 166.7°.
5-Jul-11	09:30	09:45	0.25	1720	1732	Sliding	Sliding - (WOB:4;GPM :585;TFO:310M;DIFF:150)
5-Jul-11	09:45	10:00	0.25	1732	1751	Drilling	Drilling - (WOB:12;GPM :585;RPM:60)
5-Jul-11	10:00	10:30	0.50	1751	1751	Rig repair	Rig repair: Drawworks; Clutch air-line.
5-Jul-11	10:30	11:00	0.50	1751	1781	Drilling	Drilling - (WOB:12;GPM :585;RPM:60;DIFF:300)
5-Jul-11	11:00	11:15	0.25	1781	1781	Survey & Conn.	Survey & Conn. @ 1,717' Inc. 3.8° Azm. 172.2°.
5-Jul-11	11:15	11:45	0.50	1781	1876	Drilling	Drilling - (WOB:14;GPM :585;RPM:60;DIFF:350)
5-Jul-11	11:45	12:15	0.50	1876	1876	Survey & Conn.	Survey & Conn. @ 1,812' Inc. 3.3° Azm. 177.8°.
5-Jul-11	12:15	12:45	0.50	1876	1971	Drilling	Drilling - (WOB:16;GPM :585;RPM:60;DIFF:350)
5-Jul-11	12:45	13:00	0.25	1971	1971	Survey & Conn.	Survey & Conn. @ 1,907' Inc. 3.3° Azm. 182.4°.
5-Jul-11	13:00	13:30	0.50	1971	2066	Drilling	Drilling - (WOB:18;GPM :585;RPM:60;DIFF:350)
5-Jul-11	13:30	13:45	0.25	2066	2066	Survey & Conn.	Survey & Conn. @ 2,002' Inc. 3.0° Azm. 175.0°.
5-Jul-11	13:45	14:15	0.50	2066	2162	Drilling	Drilling - (WOB:18;GPM :585;RPM:60;DIFF:350)
5-Jul-11	14:15	14:30	0.25	2162	2162	Survey & Conn.	Survey & Conn. @ 2,098' Inc. 2.6° Azm. 178.9°.
5-Jul-11	14:30	14:45	0.25	2162	2182	Drilling	Drilling - (WOB:18;GPM :585;RPM:60;DIFF:400)
5-Jul-11	14:45	15:00	0.25	2182	2192	Sliding	Sliding - (WOB:4;GPM :585;TFO:210M;DIFF:200)
5-Jul-11	15:00	15:15	0.25	2192	2257	Drilling	Drilling - (WOB:18;GPM :585;RPM:60)
5-Jul-11	15:15	15:30	0.25	2257	2257	Survey & Conn.	Survey & Conn. @ 2,193' Inc. 3.3° Azm. 187.5°.
5-Jul-11	15:30	16:15	0.75	2257	2352	Drilling	Drilling - (WOB:18;GPM :585;RPM:60;DIFF:350)
5-Jul-11	16:15	16:30	0.25	2352	2352	Survey & Conn.	Survey & Conn. @ 2,288' Inc. 3.3° Azm. 192.0°.
5-Jul-11	16:30	17:15	0.75	2352	2423	Drilling	Drilling - (WOB:18;GPM :585;RPM:60;DIFF:350)
5-Jul-11	17:15	18:30	1.25	2423	2437	Sliding	Sliding - (WOB:15;GPM :585;TFO:170M;DIFF:100)
5-Jul-11	18:30	18:45	0.25	2437	2437	Other	Work on pumps
5-Jul-11	18:45	19:30	0.75	2437	2447	Sliding	Sliding - (WOB:15;GPM :585;TFO:170M;DIFF:100)
5-Jul-11	19:30	19:45	0.25	2447	2447	Survey & Conn.	Survey & Conn. @ 2,383' Inc. 3.5° Azm. 185.4°
5-Jul-11	19:45	22:45	3.00	2447	2542	Drilling	Drilling - (WOB:18;GPM :585;RPM:60;DIFF:150)
5-Jul-11	22:45	23:00	0.25	2542	2542	Survey & Conn.	Survey & Conn. @ 2,478' Inc. 5.5° Azm. 185.4°
5-Jul-11	23:00	23:30	0.50	2542	2542	Other	Work on pumps
5-Jul-11	23:30	24:00	0.50	2542	2557	Sliding	Sliding - (WOB:15;GPM :585;TFO:180M;DIFF:125)



JOB NO.:	DDOK-110307	Report Time:	2400	5 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Wednesday, July 06, 2011 at 0000 to Wednesday, July 06, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	2557.00	Rotary Hours	13.25	WOB	12	Pick UP	95	Slack Off	90	SPM		
End Depth	4509.00	Circulating Hours	0.00	RAB	92	SPP	2550	FlowRate	585 - 598	222		
Total Drilled:	1952.00	Avg. Total ROP:	136.98	Mud Data								
Total Rotary Drilled:	1900.00	Avg. Rotary ROP:	143.40	Type	WBM			PV	8	SOLID	2.4	
Total Drilled Sliding:	52.00	Avg. Slide ROP:	52.00	Weight	9.1	GAS	0	YP	5	BHT°	0	
Slide Hours:	1.00	Percent Rotary:	97.34	Viscosity	30	SAND	0.25	PH	10	Flow T°	66	
Below Rotary Hrs.	24.00	Percent Slide:	2.66	Chlorides	500	WL	72			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Mike Reynosa			Size	Lb/ft	Set Depth		BHA # 1:8 3/4".MS1955BC,Ultrerra PDC bit, 6 3/4".6/7.5.0 Perf set @ 1.5°(fixed), X-Over / Float sub (Plunger type), 8 1/2" String Stab, UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), 8 1/4" String Stab, 3 Stds 6.5 Drill Collars, X-Over 4.5 XH (P) x XT39 (B), 44 Jts XT-39 HWDP,				
Second Directional :	Kenneth Reed			9 5/8	36	1414						
MWD Operator1	Mike Valentine			Signature:								
MWD Operator2	Kevin F. Clary											
Directional Company:	MS Energy Directional											
Geologist:												
Company Man:	Phil Wilson						Daily Cost		\$9,600.00			
Incl. In:	5.5	Azm. In:	185.4	Incl. Out:	6.2	Azm. Out:	184.5	Cummulative Cost:		\$49,760.00		

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$9,300.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$9,600.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
6-Jul-11	00:00	01:45	1.75	2557	2637	Drilling	Drilling - (WOB:18;GPM :585;RPM:60;DIFF:100)
6-Jul-11	01:45	02:00	0.25	2637	2637	Survey & Conn.	Survey & Conn. @ 2,573' Inc. 6.8° Azm. 180.1°
6-Jul-11	02:00	02:30	0.50	2637	2733	Drilling	Drilling - (WOB:10;GPM :598;RPM:60;DIFF:450)
6-Jul-11	02:30	02:45	0.25	2733	2733	Survey & Conn.	Survey & Conn. @ 2,669' Inc. 7.2° Azm. 181.5°
6-Jul-11	02:45	03:15	0.50	2733	2828	Drilling	Drilling - (WOB:10;GPM :598;RPM:60;DIFF:450)
6-Jul-11	03:15	03:30	0.25	2828	2828	Survey & Conn.	Survey & Conn. @ 2,764' Inc. 6.9° Azm. 179.9°
6-Jul-11	03:30	04:00	0.50	2828	2923	Drilling	Drilling - (WOB:10;GPM :598;RPM:60;DIFF:450)
6-Jul-11	04:00	04:15	0.25	2923	2923	Survey & Conn.	Survey & Conn. @ 2,859' Inc. 6.9° Azm. 179.9°
6-Jul-11	04:15	04:45	0.50	2923	3018	Drilling	Drilling - (WOB:10;GPM :598;RPM:60;DIFF:400)
6-Jul-11	04:45	05:00	0.25	3018	3018	Survey & Conn.	Survey & Conn. @ 2,954' Inc. 6.4° Azm. 178.1°
6-Jul-11	05:00	05:45	0.75	3018	3113	Drilling	Drilling - (WOB:10;GPM :598;RPM:60;DIFF:400)
6-Jul-11	05:45	06:00	0.25	3113	3113	Survey & Conn.	Survey & Conn. @ 3,049' Inc. 6.1° Azm. 179.2°
6-Jul-11	06:00	06:15	0.25	3113	3135	Drilling	Drilling - (WOB:10;GPM :598;RPM:60;DIFF:400)
6-Jul-11	06:15	06:30	0.25	3135	3145	Sliding	Sliding - (WOB:15;GPM :585;TFO:180;DIFF:200)
6-Jul-11	06:30	07:00	0.50	3145	3208	Drilling	Drilling - (WOB:10;GPM :598;RPM:60;DIFF:400)
6-Jul-11	07:00	10:00	3.00	3208	3208	Rig repair	Rig repair: Belts on both pumps, c/o liners on #1 pump.
6-Jul-11	10:00	10:15	0.25	3208	3208	Survey & Conn.	Survey & Conn. @ 3,144' Inc. 6.2° Azm. 183.2°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
6-Jul-11	10:15	11:00	0.75	3208	3303	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
6-Jul-11	11:00	11:15	0.25	3303	3303	Survey & Conn.	Survey & Conn. @ 3,239' Inc. 6.9° Azm. 185.9°.
6-Jul-11	11:15	11:30	0.25	3303	3399	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
6-Jul-11	11:30	11:45	0.25	3399	3399	Survey & Conn.	Survey & Conn. @ 3,335' Inc. 6.6° Azm. 187.3°.
6-Jul-11	11:45	12:15	0.50	3399	3494	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
6-Jul-11	12:15	12:30	0.25	3494	3494	Survey & Conn.	Survey & Conn. @ 3,430' Inc. 6.6° Azm. 184.8°.
6-Jul-11	12:30	13:00	0.50	3494	3588	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
6-Jul-11	13:00	13:15	0.25	3588	3588	Survey & Conn.	Survey & Conn. @ 3,524' Inc. 6.6° Azm. 185.4°.
6-Jul-11	13:15	14:00	0.75	3588	3684	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
6-Jul-11	14:00	14:15	0.25	3684	3684	Survey & Conn.	Survey & Conn. @ 3,620' Inc. 6.5° Azm. 183.8°.
6-Jul-11	14:15	14:45	0.50	3684	3779	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	14:45	15:00	0.25	3779	3779	Survey & Conn.	Survey & Conn. @ 3,715' Inc. 6.0° Azm. 182.0°.
6-Jul-11	15:00	15:15	0.25	3779	3799	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	15:15	15:30	0.25	3799	3811	Sliding	Sliding - (WOB:10;GPM :585;TFO:180;DIFF:200)
6-Jul-11	15:30	16:00	0.50	3811	3874	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	16:00	17:15	1.25	3874	3874	Rig repair	Rig repair: #2 pump pop-off.
6-Jul-11	17:15	17:30	0.25	3874	3874	Survey & Conn.	Survey & Conn. @ 3,810' Inc. 6.2° Azm. 181.7°.
6-Jul-11	17:30	18:15	0.75	3874	3969	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	18:15	18:30	0.25	3969	3969	Survey & Conn.	Survey & Conn. @ 3,905' Inc. 6.0° Azm. 179.7°
6-Jul-11	18:30	19:15	0.75	3969	4064	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	19:15	19:30	0.25	4064	4064	Survey & Conn.	Survey & Conn. @ 4,000' Inc. 6.3° Azm. 178.1°
6-Jul-11	19:30	20:00	0.50	4064	4160	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	20:00	20:15	0.25	4160	4160	Survey & Conn.	Survey & Conn. @ 4,096' Inc. 6.0° Azm. 179.7°
6-Jul-11	20:15	20:45	0.50	4160	4160	Other	Work on generator
6-Jul-11	20:45	21:00	0.25	4160	4175	Sliding	Sliding - (WOB:5;GPM :585;TFO:180;DIFF:150)
6-Jul-11	21:00	21:30	0.50	4175	4255	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	21:30	21:45	0.25	4255	4255	Survey & Conn.	Survey & Conn. @ 4,191' Inc. 6.9° Azm. 180.8°
6-Jul-11	21:45	22:15	0.50	4255	4350	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	22:15	22:30	0.25	4350	4350	Survey & Conn.	Survey & Conn. 4,286' Inc. 6.9° Azm. 183.2°
6-Jul-11	22:30	23:15	0.75	4350	4445	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
6-Jul-11	23:15	23:30	0.25	4445	4445	Survey & Conn.	Survey & Conn. @ 4,381' Inc. 6.2° Azm. 184.5°
6-Jul-11	23:30	23:45	0.25	4445	4460	Sliding	Sliding - (WOB:5;GPM :585;TFO:165;DIFF:200)
6-Jul-11	23:45	24:00	0.25	4460	4509	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400;)



JOB NO.:	DDOK-110307	Report Time:	2400	6 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Thursday, July 07, 2011 at 0000 to Thursday, July 07, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters						
Start Depth	4509.00	Rotary Hours	7.50	WOB	10	Pick UP	120	Slack Off	100	SPM	
End Depth	5587.00	Circulating Hours	0.50	RAB	100	SPP	2750	FlowRate	585 - 588	222	
Total Drilled:	1077.00	Avg. Total ROP:	105.07	Mud Data							
Total Rotary Drilled:	978.00	Avg. Rotary ROP:	130.40	Type	WBM			PV	8	SOLID	5.7
Total Drilled Sliding:	99.00	Avg. Slide ROP:	36.00	Weight	9.1	GAS	0	YP	5	BHT°	153
Slide Hours:	2.75	Percent Rotary:	90.81	Viscosity	39	SAND	0.25	PH	10	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	9.19	Chlorides	550	WL	28			Oil %	2
PERSONNEL				CASING				BHA			
Lead Directional :	Mike Reynosa			Size	Lb/ft	Set Depth		BHA # 1:8 3/4" MS1955BC, Ulterra PDC bit, 6 3/4" ,6/7,5.0 Perf set @ 1.5°(fixed), X-Over / Float sub (Plunger type), 8 1/2" String Stab, UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), 8 1/4" String Stab, 3 Stds 6.5 Drill Collars, X-Over 4.5 XH (P) x XT39 (B), 44 Jts XT-39 HWDP,			
Second Directional :	Kenneth Reed			9 5/8	36	1414					
MWD Operator1	Mike Valentine			Signature:							
MWD Operator2	Kevin F. Clary										
Directional Company:	MS Energy Directional										
Geologist:											
Company Man:	Phil Wilson						Daily Cost		\$9,600.00		
Incl. In:	6.2	Azm. In:	184.5	Incl. Out:	1.1	Azm. Out:	147.9	Cummulative Cost:		\$59,360.00	

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$9,300.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$9,600.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
7-Jul-11	00:00	00:15	0.25	4509	4540	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	00:15	00:30	0.25	4540	4540	Survey & Conn.	Survey & Conn. @ 4,476' Inc. 6.4° Azm. 181.0°
7-Jul-11	00:30	01:00	0.50	4540	4635	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	01:00	01:15	0.25	4635	4635	Survey & Conn.	Survey & Conn. @ 4,571' Inc. 6.3° Azm. 179.2°
7-Jul-11	01:15	02:00	0.75	4635	4731	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	02:00	02:15	0.25	4731	4731	Survey & Conn.	Survey & Conn. @ 4,667' Inc. 5.8° Azm. 178.3°
7-Jul-11	02:15	02:45	0.50	4731	4751	Sliding	Sliding - (WOB:5;GPM :585;TFO:180;DIFF:200)
7-Jul-11	02:45	03:15	0.50	4751	4826	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	03:15	03:30	0.25	4826	4826	Survey & Conn.	Survey & Conn. @ 4,762' Inc. 6.8° Azm. 175.7°
7-Jul-11	03:30	04:15	0.75	4826	4921	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	04:15	04:30	0.25	4921	4921	Survey & Conn.	Survey & Conn. @ 4,857' Inc. 6.2° Azm. 173.1°
7-Jul-11	04:30	05:00	0.50	4921	4941	Sliding	Sliding - (WOB:5;GPM :585;TFO:200;DIFF:200)
7-Jul-11	05:00	05:30	0.50	4941	5016	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	05:30	05:45	0.25	5016	5016	Survey & Conn.	Survey & Conn. @ 4,952' Inc. 7.0° Azm. 176.0°
7-Jul-11	05:45	06:00	0.25	5016	5048	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	06:00	06:15	0.25	5048	5048	Rig Service-Inhole	Rig Service-Inhole
7-Jul-11	06:15	06:30	0.25	5048	5111	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
7-Jul-11	06:30	06:45	0.25	5111	5111	Survey & Conn.	Survey & Conn. @ 5,047' Inc. 6.8° Azm. 175.3°.
7-Jul-11	06:45	07:00	0.25	5111	5131	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	07:00	07:30	0.50	5131	5131	Rig repair	Rig repair: Trouble-shoot mud pumps for pressure loss.
7-Jul-11	07:30	07:45	0.25	5131	5136	Sliding	Sliding - (WOB:7;GPM :585;TFO:0M;DIFF:100)
7-Jul-11	07:45	08:30	0.75	5136	5136	Rig repair	Rig repair: Trouble-shoot mud pump #2 for pressure loss.
7-Jul-11	08:30	09:00	0.50	5136	5141	Sliding	Sliding - (WOB:7;GPM :585;TFO:0M;DIFF:100)
7-Jul-11	09:00	09:45	0.75	5141	5141	Rig repair	Rig repair: Work on mud pump #2.
7-Jul-11	09:45	10:30	0.75	5141	5206	Drilling	Drilling - (WOB:12;GPM :588;RPM:60;DIFF:400)
7-Jul-11	10:30	15:00	4.50	5206	5206	Rig repair	Rig repair: Work on mud pump #2; c/o charging pump.
7-Jul-11	15:00	15:15	0.25	5206	5206	Survey & Conn.	Survey & Conn. @ 5,142' Inc. 6.5° Azm. 175.7°.
7-Jul-11	15:15	15:30	0.25	5206	5211	Sliding	Sliding - (WOB:7;GPM :585;TFO:0;DIFF:50) Attempt to Slide.
7-Jul-11	15:30	16:30	1.00	5211	5211	Rig repair	Rig repair: Trouble-shoot mud pump #2.
7-Jul-11	16:30	16:45	0.25	5211	5212	Circulating	Attempt to Slide Drill.
7-Jul-11	16:45	19:15	2.50	5212	5212	Rig repair	C/O coolant hoses on light plant, troubleshoot Pump #2
7-Jul-11	19:15	19:30	0.25	5212	5224	Sliding	Sliding - (WOB:7;GPM :585;TFO:0;DIFF:150)
7-Jul-11	19:30	20:15	0.75	5224	5301	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
7-Jul-11	20:15	20:30	0.25	5301	5301	Survey & Conn.	Survey & Conn. @ 5,237' Inc. 5.2° Azm. 173.1°
7-Jul-11	20:30	21:00	0.50	5301	5333	Sliding	Sliding - (WOB:7;GPM :585;TFO:0;DIFF:150)
7-Jul-11	21:00	21:15	0.25	5333	5365	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
7-Jul-11	21:15	21:45	0.50	5365	5365	Rig repair	Clena out suction lines
7-Jul-11	21:45	22:00	0.25	5365	5396	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
7-Jul-11	22:00	22:15	0.25	5396	5396	Survey & Conn.	Survey & Conn. @ 5,332' Inc. 1.8° Azm. 163.9°
7-Jul-11	22:15	23:00	0.75	5396	5492	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
7-Jul-11	23:00	23:15	0.25	5492	5492	Survey & Conn.	Survey & Conn. @ 5,428' Inc. 1.2° Azm. 148.8°
7-Jul-11	23:15	24:00	0.75	5492	5587	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)



JOB NO.:	DDOK-110307	Report Time:	2400	7 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Friday, July 08, 2011 at 0000 to Friday, July 08, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters							
Start Depth	5587.00	Rotary Hours	10.50	WOB	10	Pick UP	120	Slack Off	100	SPM			
End Depth	6645.00	Circulating Hours	3.50	RAB	100	SPP	2750	FlowRate	588 - 588	222			
Total Drilled:	1058.00	Avg. Total ROP:	100.76	Mud Data									
Total Rotary Drilled:	1058.00	Avg. Rotary ROP:	100.76	Type	WBM			PV	14	SOLID	3.6		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9	GAS	0	YP	8	BHT°	153		
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	37	SAND	0.25	PH	9	Flow T°	120		
Below Rotary Hrs.	24.00	Percent Slide:	.00	Chlorides	600	WL	12.4			Oil %	1		
PERSONNEL				CASING					BHA				
Lead Directional :	Mike Reynosa			Size	Lb/ft	Set Depth		BHA # 1:8 3/4".MS1955BC,Ulterra PDC bit, 6 3/4",6/7,5.0 Perf set @ 1.5°(fixed), X-Over / Float sub (Plunger type), 8 1/2" String Stab, UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), 8 1/4" String Stab, 3 Stds 6.5 Drill Collars, X-Over 4.5 XH (P) x XT39 (B), 44 Jts XT-39 HWDP,					
Second Directional :	Kenneth Reed			9 5/8	36	1414							
MWD Operator1	Mike Valentine			Signature:									
MWD Operator2	Kevin F. Clary												
Directional Company:	MS Energy Directional												
Geologist:													
Company Man:	Phil Wilson						Daily Cost		\$9,600.00				
Incl. In:	1.1	Azm. In:	147.9	Incl. Out:	0.9	Azm. Out:	194.8	Cummulative Cost:		\$68,960.00			

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$9,300.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$9,600.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Jul-11	00:00	00:15	0.25	5587	5587	Survey & Conn.	Survey & Conn. @ 5,523' Inc. 1.1° Azm. 147.9°
8-Jul-11	00:15	01:15	1.00	5587	5682	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:300)
8-Jul-11	01:15	01:30	0.25	5682	5682	Rig Service-Inhole	Rig Service-Inhole
8-Jul-11	01:30	01:45	0.25	5682	5682	Survey & Conn.	Survey & Conn. @ 5,618' Inc. 1.1° Azm. 153.9°
8-Jul-11	01:45	02:45	1.00	5682	5777	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:300)
8-Jul-11	02:45	03:00	0.25	5777	5777	Survey & Conn.	Survey & Conn. @ 5,777' Inc. 0.5° Azm. 127.5°
8-Jul-11	03:00	03:45	0.75	5777	5872	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	03:45	04:00	0.25	5872	5872	Survey & Conn.	Survey & Conn. @ 5,808' Inc. 0.4° Azm. 123.1°
8-Jul-11	04:00	05:00	1.00	5872	5967	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	05:00	05:15	0.25	5967	5967	Survey & Conn.	Survey & Conn. @ 5,903' Inc. 1.0° Azm. 146.9°
8-Jul-11	05:15	06:00	0.75	5967	6031	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	06:00	06:45	0.75	6031	6031	Rig Service-Inhole	Rig Service-Inhole
8-Jul-11	06:45	07:15	0.50	6031	6062	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	07:15	07:30	0.25	6062	6062	Survey & Conn.	Survey & Conn. @ 5,998' Inc. 1.1° Azm. 149.0°
8-Jul-11	07:30	08:30	1.00	6062	6158	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	08:30	08:45	0.25	6158	6158	Survey & Conn.	Survey & Conn. @ 6,094' Inc. 1.1° Azm. 155.8°
8-Jul-11	08:45	09:45	1.00	6158	6253	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-Jul-11	09:45	10:00	0.25	6253	6253	Survey & Conn.	Survey & Conn. @ 6,189' Inc. 0.8° Azm. 147.9°.
8-Jul-11	10:00	10:45	0.75	6253	6348	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	10:45	11:00	0.25	6348	6348	Survey & Conn.	Survey & Conn. @ 6,284' Inc. 0.8° Azm. 148.6°.
8-Jul-11	11:00	12:00	1.00	6348	6443	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	12:00	12:15	0.25	6443	6443	Survey & Conn.	Survey & Conn. @ 6,379' Inc. 1.1° Azm. 176.7°.
8-Jul-11	12:15	13:15	1.00	6443	6538	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	13:15	13:30	0.25	6538	6538	Survey & Conn.	Survey & Conn. @ 6,474' Inc. 0.6° Azm. 195.6°.
8-Jul-11	13:30	13:45	0.25	6538	6538	Rig repair	Rig repair: Change out fuel filters on motor,mud pump #2.
8-Jul-11	13:45	14:15	0.50	6538	6634	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	14:15	14:30	0.25	6634	6634	Survey & Conn.	Survey & Conn. @ 6,570' Inc. 0.9° Azm. 194.8°.
8-Jul-11	14:30	14:45	0.25	6634	6645	Drilling	Drilling - (WOB:10;GPM :588;RPM:60;DIFF:400)
8-Jul-11	14:45	17:15	2.50	6645	6645	Circulating	Circulating sweeps
8-Jul-11	17:15	20:00	2.75	6645	6645	Short Trip	Short Trip to BHA
8-Jul-11	20:00	24:00	4.00	6645	6645	TIH	Trip back to bottom



JOB NO.:	DDOK-110307	Report Time:	2400	8 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Saturday, July 09, 2011 at 0000 to Saturday, July 09, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	10	Pick UP	120	Slack Off	100	SPM	
End Depth	0.00	Circulating Hours	1.50	RAB	100	SPP	2750	FlowRate	588 - 588	222	
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	WBM	PV	14	SOLID	3.6		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9	GAS	0	YP	8	BHT°	153
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	37	SAND	0.25	PH	9	Flow T°	120
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	600	WL	12.4	Oil %	1		

PERSONNEL						CASING			BHA	
Lead Directional :		Mike Reynosa				Size	Lb/ft	Set Depth	BHA # 1:8 3/4",MS1955BC,Ultrerra PDC bit, 6 3/4",6/7,5.0 Perf set @ 1.5"(fixed), X-Over / Float sub (Plunger type), 8 1/2" String Stab, UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), 8 1/4" String Stab, 3 Stds 6.5 Drill Collars, X-Over 4.5 XH (P) x XT39 (B), 44 Jts XT-39 HWDP,	
Second Directional :		Kenneth Reed				9 5/8	36	1414		
MWD Operator1		Mike Valentine				Signature:				
MWD Operator2		Kevin F. Clary								
Directional Company:		MS Energy Directional								
Geologist:										
Company Man:		Phil Wilson							Daily Cost	\$9,600.00
Incl. In:	0.9	Azm. In:	194.8	Incl. Out:	0.9	Azm. Out:	194.8	Cummulative Cost:	\$78,560.00	

GENERAL COMMENT											
Daily Cost Breakdown: Operating cost=\$9,300.00; Subsistence charge x 4=\$300.00											
Total Daily Cost: \$9,600.00											

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-Jul-11	00:00	01:30	1.50	6645	6645	Circulating	Circulating sweeps and pumping slug
9-Jul-11	01:30	05:00	3.50	6645	6645	POOH	POOH
9-Jul-11	05:00	06:30	1.50	6645	6645	POOH	L/D directional tools
9-Jul-11	06:30	24:00	17.50	6645	6645	Other	Standby for logging and cementing operations



JOB NO.:	DDOK-110307	Report Time:	2400	9 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Sunday, July 10, 2011 at 0000 to Sunday, July 10, 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	WBM				PV	16	SOLID	3.4	
Total Drilled Sliding:	0.00		Avg. Slide ROP:	NA		Weight	9.45		GAS	0	YP	6	BHT°	153	
Slide Hours:	0.00		Percent Rotary:	NA		Viscosity	46		SAND	0.5	PH	9	Flow T°	120	
Below Rotary Hrs.	24.00		Percent Slide:	NA		Chlorides	1000		WL	6.4			Oil %	1	
PERSONNEL						CASING						BHA			
Lead Directional :		Mike Reynosa				Size		Lb/ft		Set Depth		BHA # 2:8 3/4",UD513,Ulterra PDC bit, 6 3/4",6/7,5.0 Perf set @ 2.12°(fixed), X-Over / Float sub (Plunger type), UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), X-Over 4.5 XH (P) x XT39 (B), 30 Jts XT-39 Drill Pipe, 44 Jts XT-39 HWDP, , ,			
Second Directional :		Kenneth Reed				9 5/8		36		1414					
MWD Operator1		Mike Valentine				Signature:									
MWD Operator2		Kevin F. Clary													
Directional Company:		MS Energy Directional													
Geologist:															
Company Man:		Phil Wilson				Daily Cost						\$11,435.00			
Incl. In:	0.9	Azm. In:	194.8	Incl. Out:	0.9	Azm. Out:	194.8	Cummulative Cost:		\$89,995.00					

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$10,100.00; Subsistence charge x 4=\$300.00
Inspect/recut/redress x 1-\$350.00; Motor rebuild charge (#67D1406SR)-\$685.00
Total Daily Cost: \$11,435.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-Jul-11	00:00	17:00	17.00	6645	6645	Other	Standby for cementing operations
10-Jul-11	17:00	20:00	3.00	6645	6645	Change BHA	P/U curve assembly, scribe, orient, and test MWD, install bit
10-Jul-11	20:00	20:30	0.50	6645	6645	TIH	TIH to casing shoe
10-Jul-11	20:30	24:00	3.50	6645	6645	Other	Wait on cement



JOB NO.:	DDOK-110307	Report Time:	2400	10 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Monday, July 11, 2011 at 0000 to Monday, July 11, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters						
Start Depth	4946.00	Rotary Hours	1.50	WOB	10	Pick UP	120	Slack Off	100	SPM	
End Depth	5205.00	Circulating Hours	0.50	RAB	105	SPP	1900	FlowRate	0 - 508	205	
Total Drilled:	259.00	Avg. Total ROP:	49.33	Mud Data							
Total Rotary Drilled:	139.00	Avg. Rotary ROP:	92.67	Type	WBM			PV	14	SOLID	5
Total Drilled Sliding:	120.00	Avg. Slide ROP:	32.00	Weight	9.2	GAS	131	YP	8	BHT°	122
Slide Hours:	3.75	Percent Rotary:	53.67	Viscosity	39	SAND	0.5	PH	12	Flow T°	74
Below Rotary Hrs.	24.00	Percent Slide:	46.33	Chlorides	1100	WL	9			Oil %	2
PERSONNEL				CASING				BHA			
Lead Directional :	Mike Reynosa			Size	Lb/ft	Set Depth		BHA # 2:8 3/4",UD513,Ultra PDC bit, 6 3/4",6/7,5.0 Perf set @ 2.12°(fixed), X-Over / Float sub (Plunger type), UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), X-Over 4.5 XH (P) x XT39 (B), 30 Jts XT-39 Drill Pipe, 44 Jts XT-39 HWDP, , ,			
Second Directional :	Kenneth Reed			9 5/8	36	1414					
MWD Operator1	Mike Valentine			Signature:							
MWD Operator2	Kevin F. Clary										
Directional Company:	MS Energy Directional										
Geologist:											
Company Man:	Phil Wilson						Daily Cost		\$10,400.00		
Incl. In:	0	Azm. In:	0	Incl. Out:	10.9	Azm. Out:	186.4	Cummulative Cost:		\$100,395.00	

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$10,100.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$10,400.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-Jul-11	00:00	04:00	4.00	0	0	Other	Wait on cement at casing shoe.
11-Jul-11	04:00	07:00	3.00	0	0	TIH	TIH to find top of cement.
11-Jul-11	07:00	07:15	0.25	0	0	Circulating	Tag @ 4,946' and break circulation.
11-Jul-11	07:15	08:15	1.00	0	0	Other	Install Rotating Head.
11-Jul-11	08:15	08:30	0.25	4946	4989	Drilling Cement	Drilling - (WOB:2;GPM :266;RPM:30;DIFF:200)
11-Jul-11	08:30	08:45	0.25	4989	4989	Circulating	Circulating at a slow pump rate due to returns blinding shale shakers over.
11-Jul-11	08:45	17:15	8.50	4989	4989	Other	Wait on cement.
11-Jul-11	17:15	21:00	3.75	4989	5109	Sliding	Sliding - (WOB:7;GPM :508;TFO:15R;DIFF:150)
11-Jul-11	21:00	21:45	0.75	5109	5141	Drilling	Drilling-(WOB:10;GPM:508;RPM:40;DIFF:200)Note: #1 pump failure causing it to fall off line.
11-Jul-11	21:45	22:00	0.25	5141	5141	Survey & Conn.	Survey & Conn. @ 5,086' Inc. 10.2° Azm. 183.0°.
11-Jul-11	22:00	22:15	0.25	5141	5173	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:300)
11-Jul-11	22:15	23:15	1.00	5173	5173	Survey & Conn.	Survey & Conn. @ 5,118' Inc. 11.1° Azm. 184.4°. Recycling pumps to sync MWD due to #1 pump failing off line numerous times.
11-Jul-11	23:15	23:30	0.25	5173	5205	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:300)
11-Jul-11	23:30	24:00	0.50	5205	5205	Survey & Conn.	Survey & Conn. @ 5,150' Inc. 10.9° Azm. 186.4°. Recycling pumps to sync MWD due to #1 pump failing off line.



JOB NO.:	DDOK-110307	Report Time:	2400	11 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Tuesday, July 12, 2011 at 0000 to Tuesday, July 12, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth		5205.00	Rotary Hours		5.00	WOB		17	Pick UP		120	Slack Off		100	SPM		
End Depth		6035.00	Circulating Hours		0.00	RAB		105	SPP		2600	FlowRate		508 - 549	206		
Total Drilled:		830.00	Avg. Total ROP:		58.25	Mud Data											
Total Rotary Drilled:		349.00	Avg. Rotary ROP:		69.80	Type	WBM				PV	14	SOLID		5		
Total Drilled Sliding:		481.00	Avg. Slide ROP:		52.00	Weight		10.9	GAS	131	YP	8	BHT°		122		
Slide Hours:		9.25	Percent Rotary:		42.05	Viscosity		186	SAND	0.5	PH	12	Flow T°		74		
Below Rotary Hrs.		24.00	Percent Slide:		57.95	Chlorides		1100	WL	9			Oil %		2		
PERSONNEL						CASING						BHA					
Lead Directional :		Mike Reynosa				Size		Lb/ft		Set Depth		BHA # 2:8 3/4", UD513,Ulterra PDC bit, 6 3/4",6/7,5.0 Perf set @ 2.12°(fixed), X-Over / Float sub (Plunger type), UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), X-Over 4.5 XH (P) x XT39 (B), 30 Jts XT-39 Drill Pipe, 44 Jts XT-39 HWDP, , ,					
Second Directional :		Kenneth Reed				9 5/8		36		1414							
MWD Operator1		Mike Valentine				Signature:											
MWD Operator2		Kevin F. Clary															
Directional Company:		MS Energy Directional															
Geologist:																	
Company Man:		Phil Wilson												Daily Cost		\$10,400.00	
Incl. In:		10.9	Azm. In:		186.4	Incl. Out:		60.9	Azm. Out:		176.8	Cummulative Cost:		\$110,795.00			

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$10,100.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$10,400.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-Jul-11	00:00	00:30	0.50	5205	5220	Sliding	Sliding - (WOB:7;GPM :508;TFO:135L;DIFF:150)
12-Jul-11	00:30	00:45	0.25	5220	5236	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	00:45	01:00	0.25	5236	5236	Survey & Conn.	Survey & Conn. @ 5,181' Inc. 10.9° Azm. 187.4°
12-Jul-11	01:00	01:30	0.50	5236	5268	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	01:30	01:45	0.25	5268	5268	Survey & Conn.	Survey & Conn. @ 5,213' Inc. 10.8° Azm. 186.0°
12-Jul-11	01:45	02:00	0.25	5268	5300	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	02:00	02:15	0.25	5300	5300	Survey & Conn.	Survey & Conn. @ 5,245' Inc. 9.9° Azm. 182.7°
12-Jul-11	02:15	02:30	0.25	5300	5300	Other	Work on air compressor for pump
12-Jul-11	02:30	03:00	0.50	5300	5331	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	03:00	03:15	0.25	5331	5331	Survey & Conn.	Survey & Conn. @ 5,276' Inc. 10.0° Azm. 182.0 °
12-Jul-11	03:15	03:45	0.50	5331	5363	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	03:45	04:00	0.25	5363	5363	Survey & Conn.	Survey & Conn. @ 5,308' Inc. 9.8° Azm. 181.8°
12-Jul-11	04:00	04:30	0.50	5363	5363	Other	L/D bad joint - Restart pump #1
12-Jul-11	04:30	05:15	0.75	5363	5395	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	05:15	05:30	0.25	5395	5395	Survey & Conn.	Survey & Conn. @ 5,340' Inc. 9.2° Azm. 182.7°
12-Jul-11	05:30	06:00	0.50	5395	5427	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:250)
12-Jul-11	06:00	06:15	0.25	5427	5427	Survey & Conn.	Survey & Conn. @ 5,372' Inc. 9.7° Azm. 183.0°

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-Jul-11	06:15	06:30	0.25	5427	5459	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	06:30	06:45	0.25	5459	5459	Survey & Conn.	Survey & Conn. @ 5,404' Inc. 9.1° Azm. 181.1°.
12-Jul-11	06:45	07:00	0.25	5459	5490	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	07:00	07:15	0.25	5490	5490	Survey & Conn.	Survey & Conn. @ 5,435' Inc. 9.3° Azm. 180.4°.
12-Jul-11	07:15	07:45	0.50	5490	5522	Drilling	Drilling - (WOB:10;GPM :508;RPM:40;DIFF:350)
12-Jul-11	07:45	08:00	0.25	5522	5522	Survey & Conn.	Survey & Conn. @ 5,467' Inc. 9.2° Azm. 181.1°.
12-Jul-11	08:00	08:45	0.75	5522	5532	Sliding	Sliding - (WOB:7;GPM :549;TFO:0;DIFF:150) Pump psi unstable; 600psi drop.
12-Jul-11	08:45	09:45	1.00	5532	5532	Rig repair	Rig repair: Pump out suction pit and clean out pump suction lines.
12-Jul-11	09:45	10:45	1.00	5532	5554	Sliding	Sliding - (WOB:7;GPM :549;TFO:0;DIFF:200)
12-Jul-11	10:45	11:15	0.50	5554	5554	Survey & Conn.	Survey & Conn. @ 5,499' Inc. 9.0° Azm. 181.8°. Recycle to sync MWD for survey due to pump #1 shutting down.
12-Jul-11	11:15	12:00	0.75	5554	5586	Sliding	Sliding - (WOB:7;GPM :549;TFO:10L;DIFF:200)
12-Jul-11	12:00	12:15	0.25	5586	5586	Survey & Conn.	Survey & Conn. @ 5,531' Inc. 10.2° Azm. 181.8°.
12-Jul-11	12:15	12:45	0.50	5586	5617	Sliding	Sliding - (WOB:7;GPM :549;TFO:10L;DIFF:200)
12-Jul-11	12:45	13:00	0.25	5617	5617	Survey & Conn.	Survey & Conn. @ 5,562' Inc. 12.9° Azm. 182.1°.
12-Jul-11	13:00	13:30	0.50	5617	5649	Sliding	Sliding - (WOB:7;GPM :549;TFO:10L;DIFF:200)
12-Jul-11	13:30	13:45	0.25	5649	5649	Survey & Conn.	Survey & Conn. @ 5,594' Inc. 15.7° Azm. 182.8°.
12-Jul-11	13:45	14:15	0.50	5649	5680	Sliding	Sliding - (WOB:7;GPM :549;TFO:10L;DIFF:200)
12-Jul-11	14:15	14:30	0.25	5680	5680	Survey & Conn.	Survey & Conn. @ 5,625' Inc. 18.6° Azm. 183.1°.
12-Jul-11	14:30	14:45	0.25	5680	5680	Other	Layout Bad Jt. and Re-sync MWD.
12-Jul-11	14:45	15:15	0.50	5680	5712	Sliding	Sliding - (WOB:8;GPM :549;TFO:10L;DIFF:200)
12-Jul-11	15:15	15:30	0.25	5712	5712	Survey & Conn.	Survey & Conn. @ 5,657' Inc. 21.8° Azm. 181.8°.
12-Jul-11	15:30	16:00	0.50	5712	5744	Sliding	Sliding - (WOB:8;GPM :549;TFO:-10;DIFF:200)
12-Jul-11	16:00	16:15	0.25	5744	5744	Survey & Conn.	Survey & Conn. @ 5,689' Inc. 25.2° Azm. 180.8°.
12-Jul-11	16:15	16:45	0.50	5744	5775	Sliding	Sliding - (WOB:8;GPM :549;TFO:-10;DIFF:200)
12-Jul-11	16:45	17:00	0.25	5775	5775	Survey & Conn.	Survey & Conn. @ 5,720' Inc. 29.0° Azm. 179.6°.
12-Jul-11	17:00	17:15	0.25	5775	5807	Sliding	Sliding - (WOB:8;GPM :549;TFO:-10;DIFF:200)
12-Jul-11	17:15	17:30	0.25	5807	5807	Survey & Conn.	Survey & Conn. @ 5,752' Inc. 32.9° Azm. 178.9°.
12-Jul-11	17:30	17:45	0.25	5807	5839	Sliding	Sliding - (WOB:9.5;GPM :549;TFO:-10;DIFF:200)
12-Jul-11	17:45	18:00	0.25	5839	5839	Survey & Conn.	Survey & Conn. @ 5,784' Inc. 37.0° Azm. 179.7°.
12-Jul-11	18:00	18:30	0.50	5839	5871	Sliding	Sliding - (WOB:10;GPM :549;TFO:-20;DIFF:200)
12-Jul-11	18:30	18:45	0.25	5871	5871	Survey & Conn.	Survey & Conn. @ 5,816' Inc. 41.3° Azm. 180.7°.
12-Jul-11	18:45	19:00	0.25	5871	5902	Sliding	Sliding - (WOB:10;GPM :549;TFO:-30;DIFF:175)
12-Jul-11	19:00	19:15	0.25	5902	5902	Survey & Conn.	Survey & Conn. @ 5,847' Inc. 45.7° Azm. 180.8°.
12-Jul-11	19:15	19:45	0.50	5902	5934	Sliding	Sliding - (WOB:10;GPM :549;TFO:-40;DIFF:175)
12-Jul-11	19:45	20:00	0.25	5934	5934	Survey & Conn.	Survey & Conn. @ 5,879' Inc. 50.5° Azm. 180.3°.
12-Jul-11	20:00	20:45	0.75	5934	5966	Sliding	Sliding - (WOB:15;GPM :549;TFO:-60;DIFF:175)
12-Jul-11	20:45	21:00	0.25	5966	5966	Survey & Conn.	Survey & Conn. @ 5,911' Inc. 55.1° Azm. 179.4°.
12-Jul-11	21:00	21:15	0.25	5966	5981	Drilling	Drilling - (WOB:10;GPM :549;RPM:40;DIFF:300)
12-Jul-11	21:15	21:45	0.50	5981	5997	Sliding	Sliding - (WOB:17;GPM :549;TFO:0;DIFF:150)
12-Jul-11	21:45	22:00	0.25	5997	5997	Survey & Conn.	Survey & Conn. @ 5,942' Inc. 59.2° Azm. 178.1°.
12-Jul-11	22:00	22:30	0.50	5997	6029	Drilling	Drilling - (WOB:10;GPM :549;RPM:40;DIFF:300)
12-Jul-11	22:30	23:30	1.00	6029	6029	Other	Work on kelly spinner, clean out suction on pump #2
12-Jul-11	23:30	23:45	0.25	6029	6029	Survey & Conn.	Survey & Conn. @ 5,974' Inc. 60.9° Azm. 176.8°.
12-Jul-11	23:45	24:00	0.25	6029	6035	Sliding	Sliding - (WOB:17;GPM :549;TFO:0;DIFF:200)



JOB NO.:	DDOK-110307	Report Time:	2400	12 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Wednesday, July 13, 2011 at 0000 to Wednesday, July 13, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters							
Start Depth	6035.00	Rotary Hours	1.25	WOB	10	Pick UP	120	Slack Off	100	SPM			
End Depth	6347.00	Circulating Hours	6.00	RAB	110	SPP	2600	FlowRate	549 - 549	206			
Total Drilled:	312.00	Avg. Total ROP:	29.02	Mud Data									
Total Rotary Drilled:	39.00	Avg. Rotary ROP:	31.20	Type	WBM			PV	14	SOLID	5		
Total Drilled Sliding:	273.00	Avg. Slide ROP:	28.74	Weight	9.2	GAS	131	YP	8	BHT°	161		
Slide Hours:	9.50	Percent Rotary:	12.50	Viscosity	39	SAND	0.5	PH	12	Flow T°	74		
Below Rotary Hrs.	24.00	Percent Slide:	87.50	Chlorides	1100	WL	9			Oil %	2		
PERSONNEL				CASING					BHA				
Lead Directional :	Mike Reynosa			Size	Lb/ft	Set Depth		BHA # 2:8 3/4", UD513,Ulterra PDC bit, 6 3/4",6/7,5.0 Perf set @ 2.12°(fixed), X-Over / Float sub (Plunger type), UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), X-Over 4.5 XH (P) x XT39 (B), 30 Jts XT-39 Drill Pipe, 44 Jts XT-39 HWDP, , ,					
Second Directional :	Kenneth Reed			9 5/8	36	1414							
MWD Operator1	Mike Valentine			Signature:									
MWD Operator2	Kevin F. Clary												
Directional Company:	MS Energy Directional												
Geologist:													
Company Man:	Phil Wilson							Daily Cost		\$10,400.00			
Incl. In:	60.9	Azm. In:	176.8	Incl. Out:	90	Azm. Out:	179.7	Cummulative Cost:		\$121,195.00			

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$10,100.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$10,400.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-Jul-11	00:00	00:30	0.50	6035	6061	Sliding	Sliding - (WOB:17;GPM :549;TFO:0;DIFF:200)
13-Jul-11	00:30	00:45	0.25	6061	6061	Other	Work on kelly spinner
13-Jul-11	00:45	01:00	0.25	6061	6061	Survey & Conn.	Survey & Conn. @ 6,006' Inc. 62.2° Azm. 177.2°
13-Jul-11	01:00	01:45	0.75	6061	6093	Sliding	Sliding - (WOB:17;GPM :549;TFO:0;DIFF:200)
13-Jul-11	01:45	02:00	0.25	6093	6093	Survey & Conn.	Survey & Conn. @ 6,038' Inc. 63.2° Azm. 176.7°
13-Jul-11	02:00	02:45	0.75	6093	6124	Sliding	Sliding - (WOB:17;GPM :549;TFO:0;DIFF:200)
13-Jul-11	02:45	03:00	0.25	6124	6124	Survey & Conn.	Survey & Conn. @ 6,069' Inc. 66.2° Azm. 177.2°
13-Jul-11	03:00	04:00	1.00	6124	6156	Sliding	Sliding - (WOB:17;GPM :549;TFO:0;DIFF:225)
13-Jul-11	04:00	04:15	0.25	6156	6156	Survey & Conn.	Survey & Conn. @ 6,101' Inc. 69.8° Azm. 178.0°
13-Jul-11	04:15	04:30	0.25	6156	6168	Drilling	Drilling - (WOB:10;GPM :549;RPM:40;DIFF:200)
13-Jul-11	04:30	05:45	1.25	6168	6188	Sliding	Sliding - (WOB:20;GPM :549;TFO:0;DIFF:200)
13-Jul-11	05:45	06:00	0.25	6188	6188	Survey & Conn.	Survey & Conn. @ 6,133' Inc. 73.3° Azm. 179.0°
13-Jul-11	06:00	06:30	0.50	6188	6203	Drilling	Drilling - (WOB:10;GPM :549;RPM:40;DIFF:200)
13-Jul-11	06:30	07:00	0.50	6203	6220	Sliding	Sliding - (WOB:17;GPM :549;TFO:0;DIFF:150)
13-Jul-11	07:00	08:45	1.75	6220	6220	Rig Service-Inhole	Rig Service-Inhole
13-Jul-11	08:45	09:00	0.25	6220	6220	Survey & Conn.	Survey & Conn. @ 6,165' Inc. 75.4° Azm. 179.1°
13-Jul-11	09:00	09:15	0.25	6220	6230	Drilling	Drilling - (WOB:10;GPM :549;RPM:40;DIFF:350)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-Jul-11	09:15	10:00	0.75	6230	6252	Sliding	Sliding - (WOB:25;GPM :549;TFO:-10;DIFF:200)
13-Jul-11	10:00	10:15	0.25	6252	6252	Survey & Conn.	Survey & Conn. @ 6,197' Inc. 76.7° Azm. 179.7°.
13-Jul-11	10:15	11:30	1.25	6252	6283	Sliding	Sliding - (WOB:25;GPM :549;TFO:-10;DIFF:200)
13-Jul-11	11:30	11:45	0.25	6283	6283	Survey & Conn.	Survey & Conn. @ 6,228' Inc. 78.3° Azm. 180.1°.
13-Jul-11	11:45	13:30	1.75	6283	6315	Sliding	Sliding - (WOB:25;GPM :549;TFO:-10;DIFF:150)
13-Jul-11	13:30	14:00	0.50	6315	6315	Survey & Conn.	Survey & Conn. @ 6,260' Inc. 81.4° Azm. 180.3°.
13-Jul-11	14:00	15:00	1.00	6315	6345	Sliding	Sliding - (WOB:25;GPM :549;TFO:-10;DIFF:150)
13-Jul-11	15:00	15:15	0.25	6345	6347	Drilling	Drilling - (WOB:10;GPM :549;RPM:40;DIFF:300)
13-Jul-11	15:15	16:00	0.75	6347	6347	Circulating	Circulating
13-Jul-11	16:00	18:00	2.00	6347	6347	Short Trip	Rack Kelly back: Short Trip to top of curve.
13-Jul-11	18:00	21:30	3.50	6347	6347	Circulating	Circulating building sweep and slug
13-Jul-11	21:30	24:00	2.50	6347	6347	POOH	POOH (SLM)



JOB NO.:	DDOK-110307	Report Time:	2400	13 of 13
Company:	Carrizo Oil and Gas	API JOB #	05-087-08159-00	
LOCATION:	Morgan County	WORK ORDER#	311092	
RIG NAME:	Cade 22	FIELD:	Niobrara	
STATE:	Colorado	Township:	Orchard	
COUNTY:	Morgan County	SECTRANGE:	7/5/60W	
WELL NAME:	Wickstrom 7-11-5-60			

From Thursday, July 14, 2011 at 0000 to Thursday, July 14, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	10	Pick UP	120	Slack Off	100	SPM	
End Depth	0.00	Circulating Hours	0.00	RAB	110	SPP	2600	FlowRate	549 - 549	206	
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	WBM	PV	14	SOLID	5		
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9.2	GAS	131	YP	8	BHT°	161
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	39	SAND	0.5	PH	12	Flow T°	74
Below Rotary Hrs.	8.00	Percent Slide:	NA	Chlorides	1100	WL	9	Oil %	2		

PERSONNEL						CASING			BHA	
Lead Directional :		Mike Reynosa				Size	Lb/ft	Set Depth	BHA # 2:8 3/4",UD513,Ultra PDC bit, 6 3/4",6/7,5.0 Perf set @ 2.12°(fixed), X-Over / Float sub (Plunger type), UBHO (muleshoe) sub, Non-Mag Monel 30' (slick), Non-Mag Monel 30' (flex), X-Over 4.5 XH (P) x XT39 (B), 30 Jts XT-39 Drill Pipe, 44 Jts XT-39 HWDP, , ,	
Second Directional :		Kenneth Reed				9 5/8	36	1414		
MWD Operator1		Mike Valentine				Signature:				
MWD Operator2		Kevin F. Clary								
Directional Company:		MS Energy Directional								
Geologist:										
Company Man:		Phil Wilson						Daily Cost	\$10,400.00	
Incl. In:	90	Azm. In:	179.7	Incl. Out:	90	Azm. Out:	179.7	Cummulative Cost:	\$131,595.00	

GENERAL COMMENT

Daily Cost Breakdown: Operating cost=\$10,100.00; Subsistence charge x 4=\$300.00
Total Daily Cost: \$10,400.00

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
14-Jul-11	00:00	02:00	2.00	6347	6347	POOH	POOH
14-Jul-11	02:00	03:00	1.00	6347	6347	Rig repair	Work on pipe spinner
14-Jul-11	03:00	06:00	3.00	6347	6347	POOH	POOH
14-Jul-11	06:00	07:00	1.00	6347	6347	POOH	L/D directional tools
14-Jul-11	07:00	08:00	1.00	6347	6347	Other	Load truck

BHA # 1



JOB NO.: DDOK-110307 Work Order: 311092
 Company: Carrizo Oil and Gas
 LOCATION: Morgan County
 RIG NAME: Cade 22
 STATE: Colorado
 COUNTY: Morgan County
 WELL NAME: Wickstrom 7-11-5-60

FIELD: Niobrara
 Township: Orchard
 SECT. RANGE: 7/5/60W
 Lead DD: Mike Reynosa
 Co. Man: Phil Wilson
 BHA TYPE: Steerable Assembly
 BHA WT: 515934 Wt @ Jars: N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 04-Jul-11 @ 20:00	6 3/4,6/7,5.0 Perf set @	SO/PU: 60 - 100 / 70-120
Date Out: 10-Jul-11 @ 20:00	MFG.: Mpac	Rot Strg Wt: 65-100
Hrs In Hole: 144.00	Pad OD: 7.125	WOB: 3 - 18
Start Depth: 1424.00	NB Stab: 8.5	TORQ: 0 - 0
End Depth: 6645.00	Bit to Bend: 5.06	SPP: 800 - 2750
Total Drilled: 5220.00	Bent Hsg/Sub°: 1.5 / 0	Motor RPM: 164
Avg. Total ROP: 108.75	Lobe/Stage: 6/7 / 5	Rotary RPM: 40 - 60
Circ Hrs: Tot/Only 54.75 / 6.75	Rev/GAL: 0.28	Flow Rate: 400 - 598
Percent Slide: 4.83	Rotor Jet: 0	Avg Diff: 400
Percent Hrs: 15.10	Prop BUR: 8.4	Stall Pres.: 3000
Slide Hours: 7.25	Act BUR: 10	Off Bot Pres.: 3000
Total Sliding: 252.00		
Avg. Slide ROP: 34.76		
Percent Rotary: 95.17		
Percent Hrs: 84.90		
Rotary Hours: 40.75		
Total Rotary: 4968.00		
Avg. Rotary ROP: 121.91		
Reason POOH: TD		

MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 56	Last Casing	O.D. 9 5/8
	GYRO: 0	DNSC: 1414	Sonic: 0	Shoe @:	1414 Hanger @:

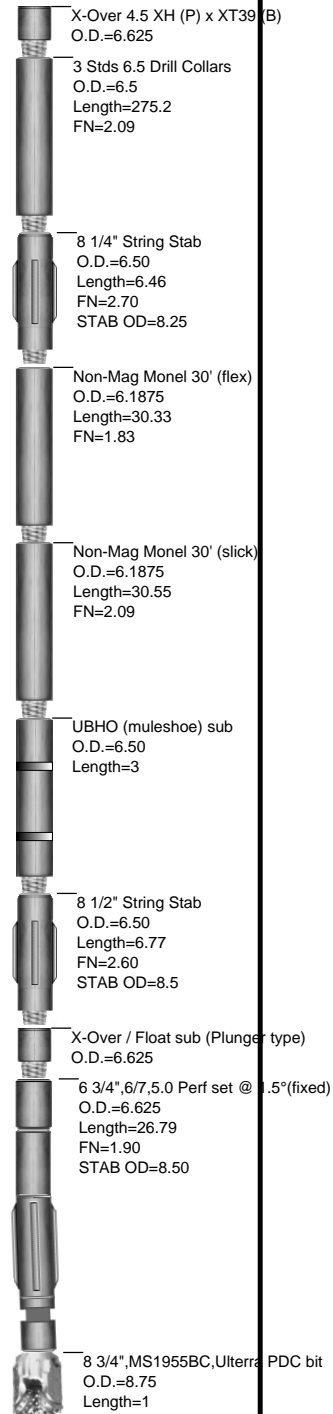
INC IN: .4 INC OUT: .0 AZM IN: 106.88 AZM OUT: .00

Motor Bend = 1.50°, Rev/Gal = 0.28, 6/7, 5.0 Performance
 Bit to Bend = 5.06', Bit to stab = 1.22', Stab OD = 8.50"
 Bit S/N = 9154, Bit Type = Ultrerra MS1955BC, Jets = 5 X 16's, TFA = 0.981
 Bit to sensor = 56', Bit depth to Survey = 64'

TD Wickstrom 7-11-5-60 Pilot Hole. POOH to lay down BHA.
 Hole drilled with Water-Based drilling fluid.

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
8 3/4",MS1955BC,Ultrerra PDC bit	9154		8.75	1.00	1.00	4 1/2 REGP	
6 3/4",6/7,5.0 Perf set @ 1.5°(fixed)	67D1290SR		6.625	26.79	27.79	4 1/2 IFB	
X-Over / Float sub (Plunger type)	SD103624	2.875	6.625	4.00	31.79	4 1/2 XHB	
8 1/2" String Stab	SD21569	3	6.50	6.77	38.56	4 1/2 XHB	
UBHO (muleshoe) sub	MSD651913	2.50	6.50	3.00	41.56	4 1/2 XHB	
Non-Mag Monel 30' (slick)	SD41543	2.875	6.1875	30.55	72.11	4 1/2 XHB	
Non-Mag Monel 30' (flex)	SD36676	2.875	6.1875	30.33	102.44	4 1/2 XHB	
8 1/4" String Stab	SD20273	2.875	6.50	6.46	108.90	4 1/2 XHB	
3 Stds 6.5 Drill Collars	Rig	2.875	6.5	275.20	384.10	4 1/2 XHB	
X-Over 4.5 XH (P) x XT39 (B)	Rig	2.875	6.625	3.91	388.01	XT-39B	
44 Jts XT-39 HWD	Rlg	2.875	6.5	6,256.99	6645.00	XT-39	



BHA # 2

JOB NO.: DDOK-110307 **Work Order:** 311092
Company: Carrizo Oil and Gas
LOCATION: Morgan County
RIG NAME: Cade 22
STATE: Colorado
COUNTY: Morgan County
WELL NAME: Wickstrom 7-11-5-60

FIELD: Niobrara
Township: Orchard
SECT. RANGE: 7/5/60W
Lead DD: Mike Reynosa
Co. Man: Phil Wilson
BHA TYPE: Steerable Assembly
BHA WT: 125077 **Wt @ Jars:** N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 10-Jul-11 @ 20:00	6 3/4,6/7,5.0 Perf set @	SO/PU: 0 - 100 / 0-120
Date Out: 14-Jul-11 @ 08:00	MFG.: Mpact	Rot Strg Wt: 0-110
Hrs In Hole: 84.00	Pad OD: 7.125	WOB: 0 - 25
Start Depth: 4946.00	NB Stab: 0	TORQ: 0 - 0
End Depth: 6347.00	Bit to Bend: 5.1	SPP: 0 - 2600
Total Drilled: 1401.00	Bent Hsg/Sub°: 2.12 /	Motor RPM: 142 - 154
Avg. Total ROP: 46.31	Lobe/Stage: 6/7 / 5	Rotary RPM: 40 - 40
Circ Hrs: Tot/Only 36.75 / 6.50	Rev/GAL: 0.28	Flow Rate: 0 - 549
Percent Slide: 62.38	Rotor Jet: 0	Avg Diff: 200
Percent Hrs: 74.38	Prop BUR: 11	Stall Pres.:
Slide Hours: 22.50	Act BUR: 12	Off Bot Pres.: 2500
Total Sliding: 874.00		
Avg. Slide ROP: 38.84		
Percent Rotary: 37.62		
Percent Hrs: 25.62		
Rotary Hours: 7.75		
Total Rotary: 527.00		
Avg. Rotary ROP: 68.00		
Reason POOH: TD		

MWD Spacing	Gamma: 42	Restiv: 0	Sensor: 47	Last Casing	O.D. 9 5/8
	GYRO: 0	DNSC: 5080	Sonic: 0	Shoe @: 1414	Hanger @:

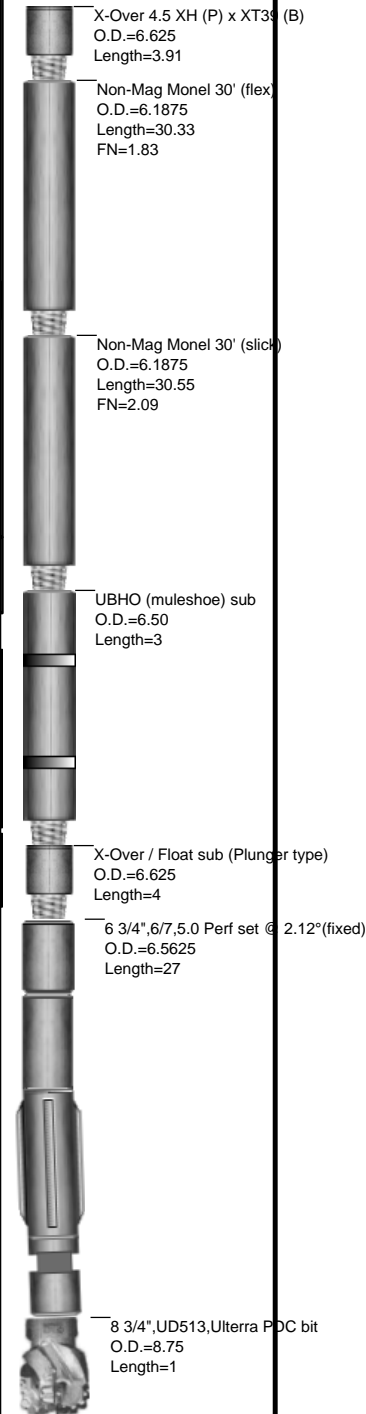
INC IN: .7 **INC OUT:** 1.5 **AZM IN:** 222.44 **AZM OUT:** 279.22

Motor Bend = 2.12°(fixed), Rev/Gal = 0.28, 6/7, 5.0 Performance
 Bit to Bend = 5.10', Bit to Sleeve = 1.98', Sleeve OD = 7.75"
 Bit S/N = 4913, Bit Type = Ulterra UD513, Jets = 5 X 16's 2X18's, TFA = 1.478
 Bit to sensor= 47', Bit depth to Survey = 55', Bit to Gamma = 42'

TD Wickstrom 7-11-5-60 curve. POOH to lay down BHA.
 Curve drilled with Water-Based drilling fluid.

BHA Detail

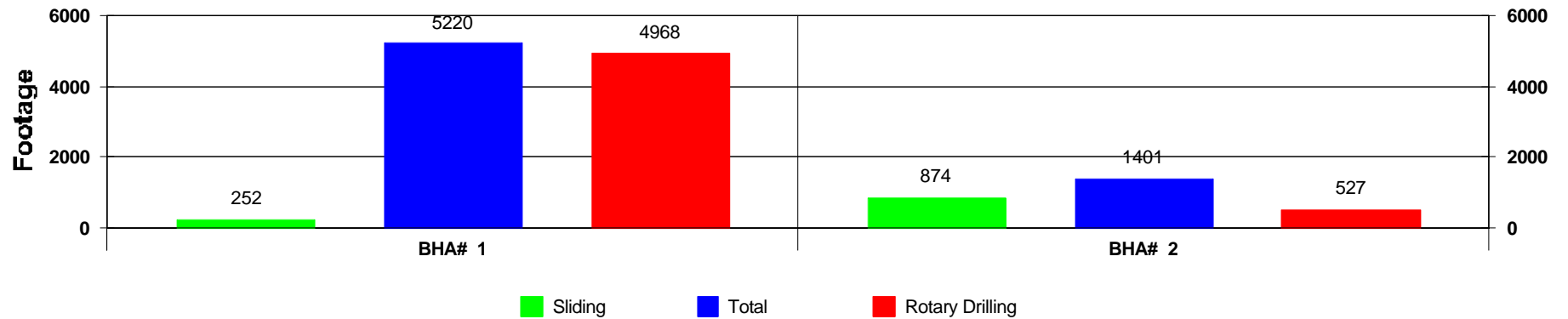
Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
8 3/4",UD513,Ulterra PDC bit	4913		8.75	1.00	1.00	4 1/2 REGP	
6 3/4",6/7,5.0 Perf set @ 2.12°(fixed)	67D1406SR		6.5625	27.00	28.00	4 1/2 IFB	
X-Over / Float sub (Plunger type)	SD103624	2.875	6.625	4.00	32.00	4 1/2 XHB	
UBHO (muleshoe) sub	MSD651913	2.50	6.50	3.00	35.00	4 1/2 XHB	
Non-Mag Monel 30' (slick)	SD41543	2.875	6.1875	30.55	65.55	4 1/2 XHB	
Non-Mag Monel 30' (flex)	SD36676	2.875	6.1875	30.33	95.88	4 1/2 XHB	
X-Over 4.5 XH (P) x XT39 (B)	Rig	2.875	6.625	3.91	99.79	XT-39B	
30 Jts XT-39 Drill Pipe	Rig	3.826	4.5	951.38	1051.17	XT-39	
44 Jts XT-39 HWDP	Rig	2.875	6.5	1,352.45	2403.62	XT-39	
				0.00	2403.62		
				0.00	2403.62		



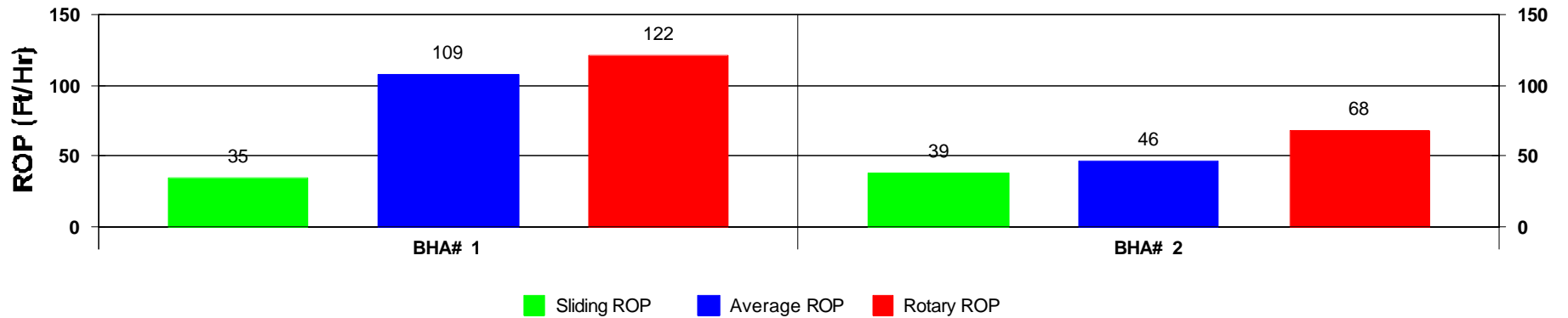


JOB NO.:	DDOK-110307	FIELD:	Niobrara
Company:	Carrizo Oil and Gas	Township:	Orchard
LOCATION:	Morgan County	SECT/RANGE:	7/5/60W
RIG NAME:	Cade 22	COMMENT	
STATE:	Colorado		
COUNTY:	Morgan County		
WELL NAME:	Wickstrom 7-11-5-60		

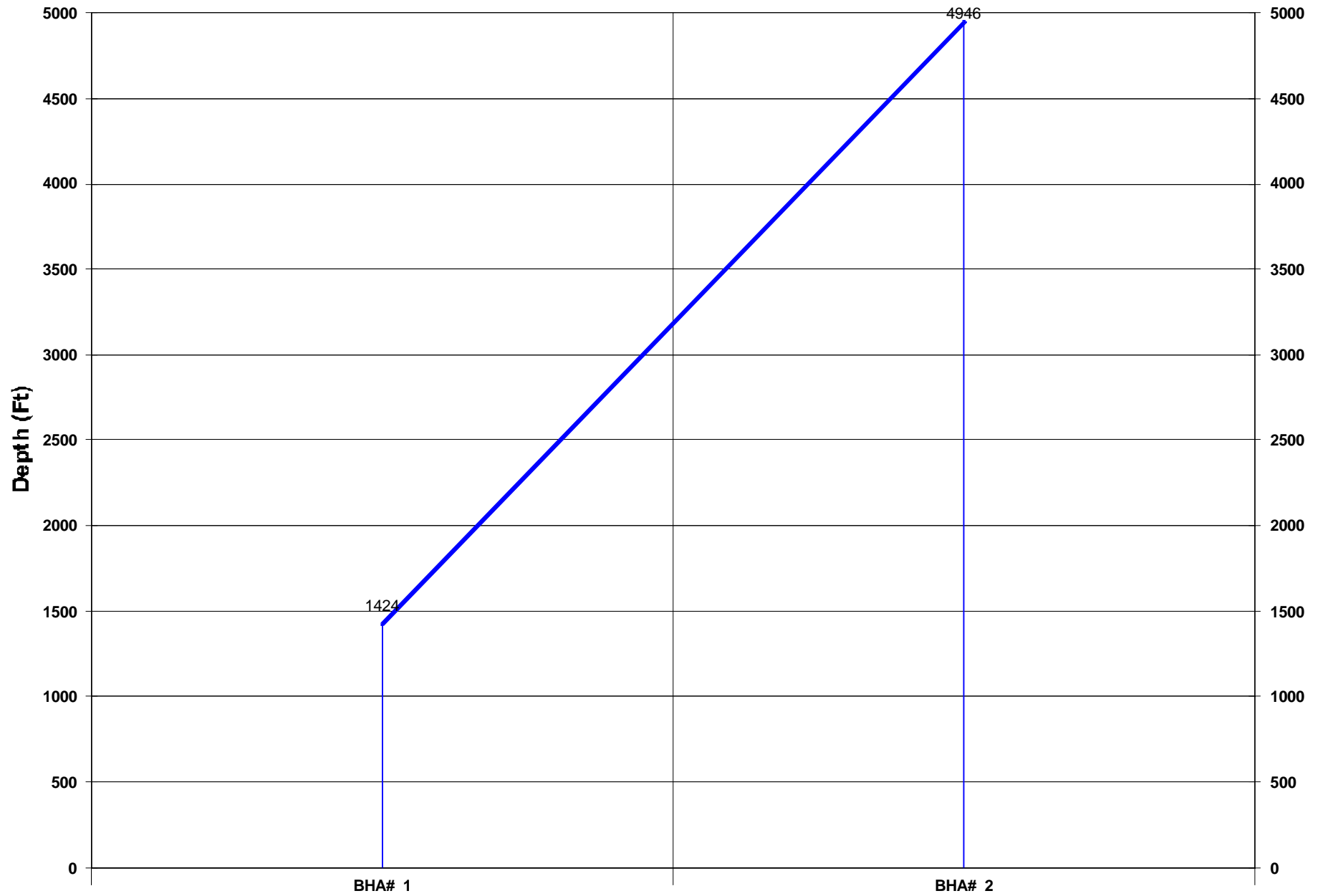
Footage Drilled with BHA



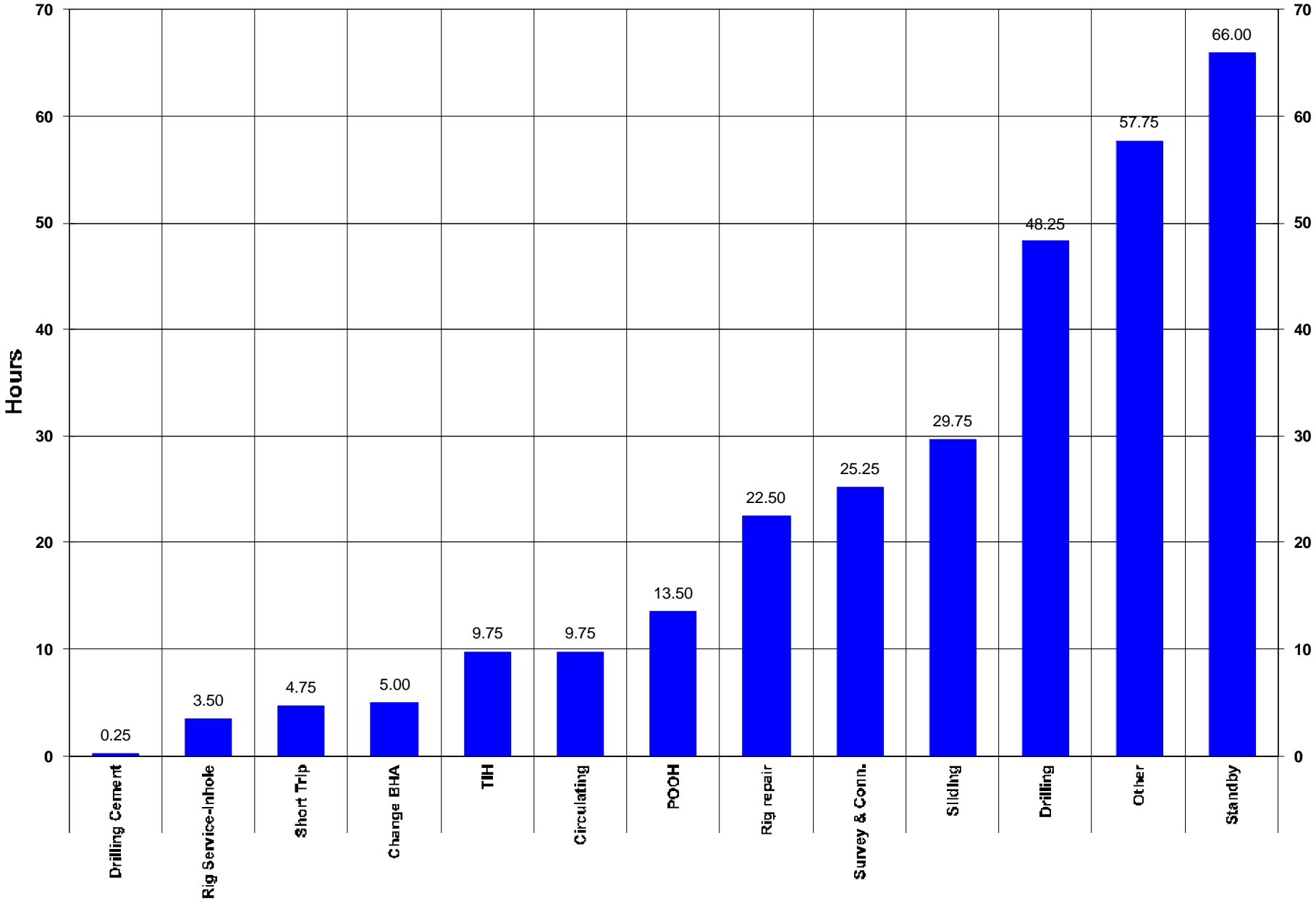
ROP vs BHA



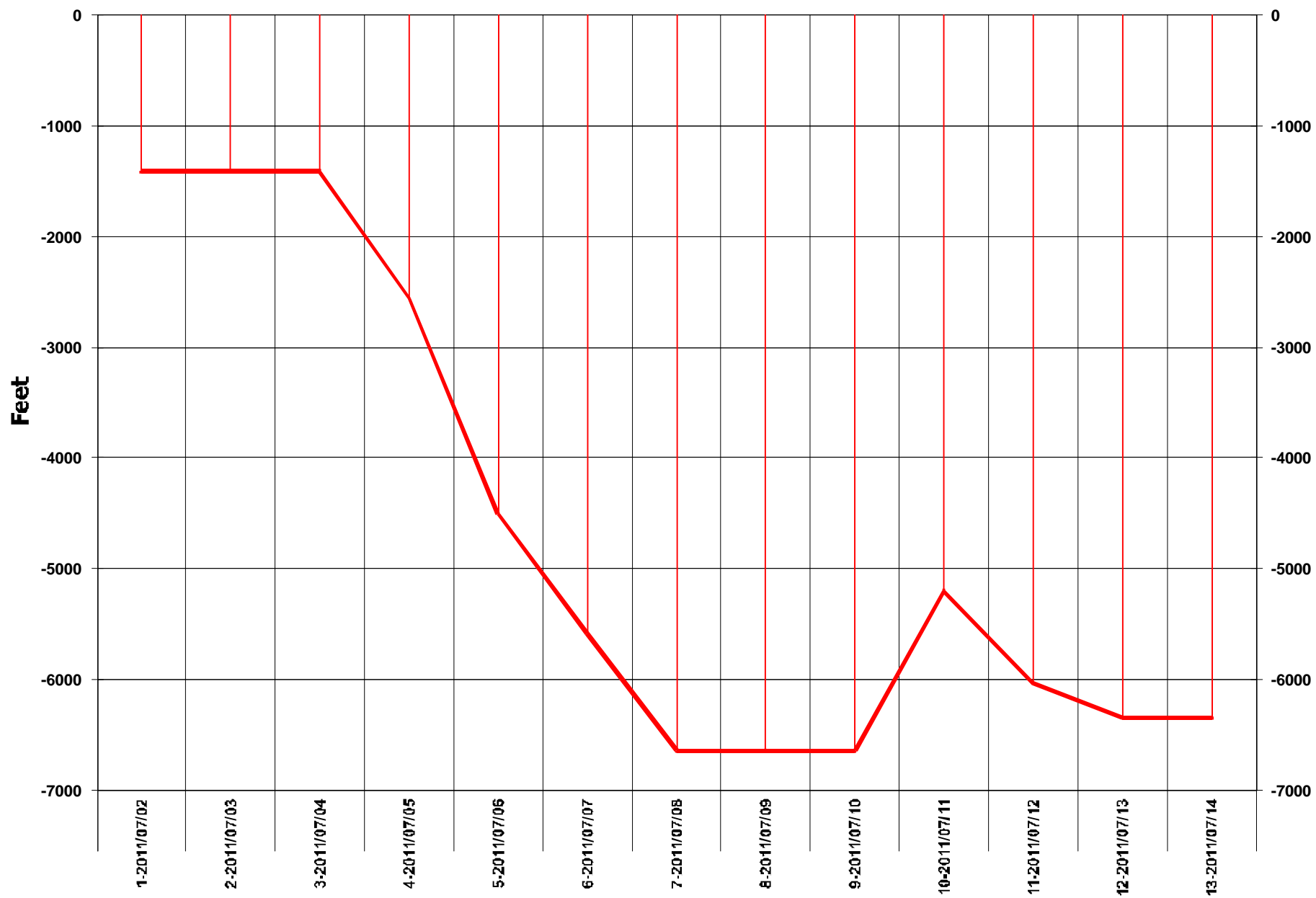
Depth vs BHA



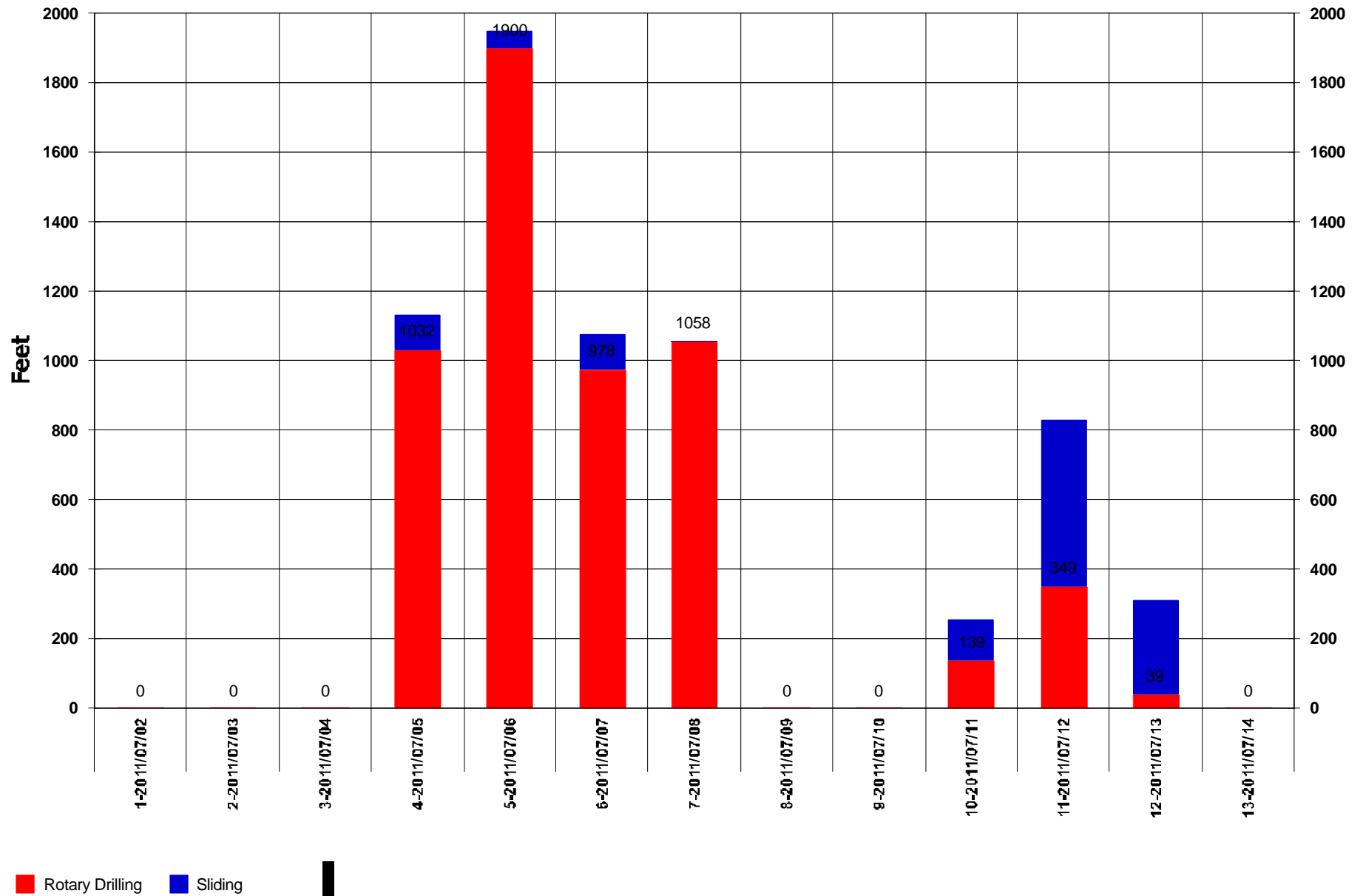
Activity Histogram



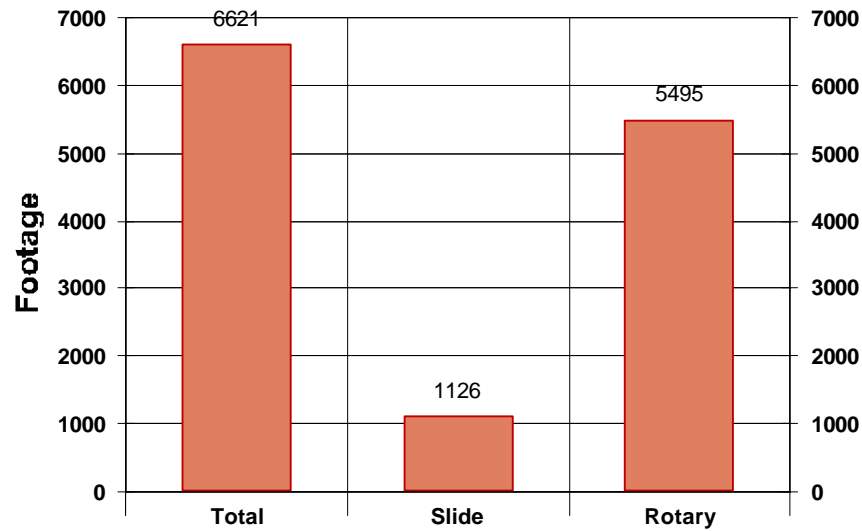
Measured Depth vs Days



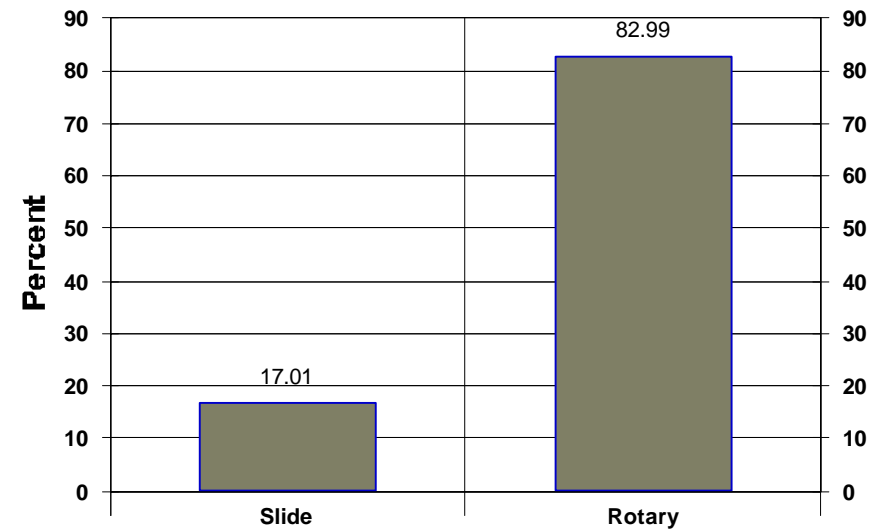
Daily Footage



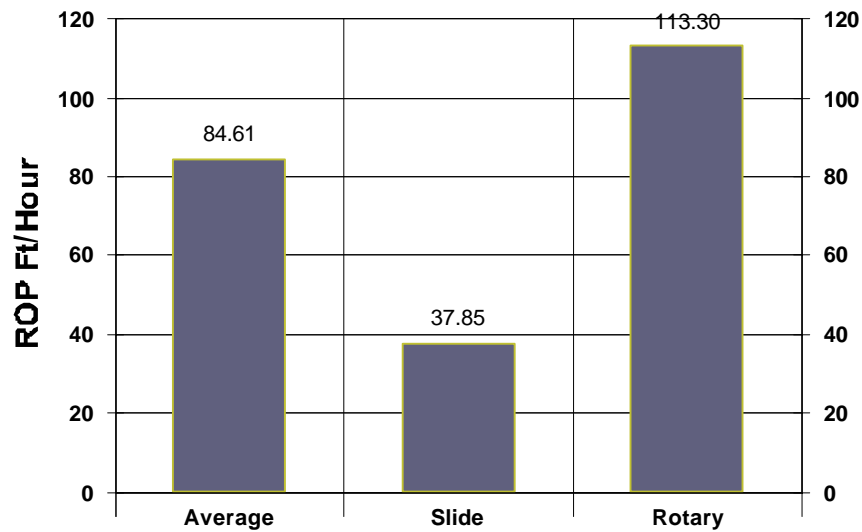
Footage Drilled Totals



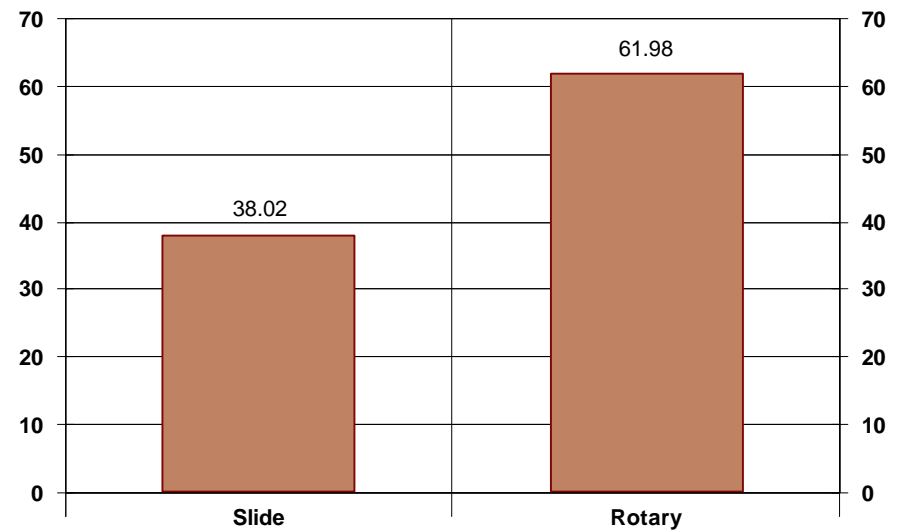
Footage Percent



Rate of Penetration Totals



Time Percent



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Fax: 406.778.3982

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Watts: 800.259.2867
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