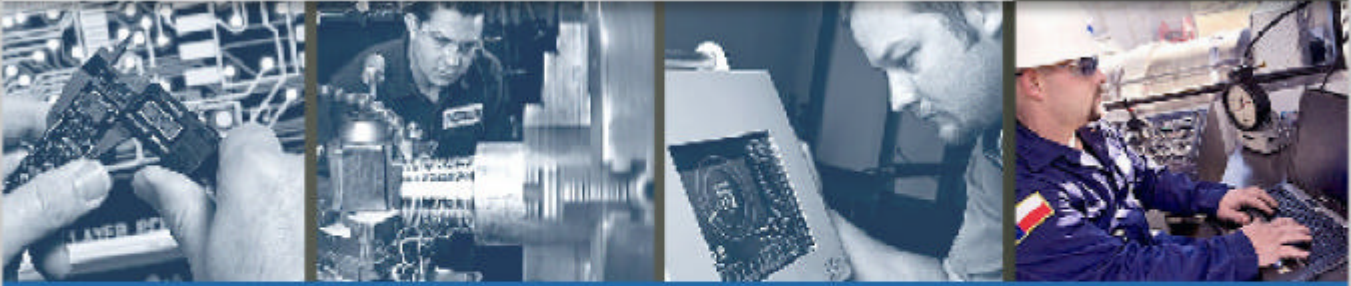




End of Well Report



ST. JAMES

MS #DDOK-110428

**Larson Farms 6-24
Weld County, Colorado
Cade 22**

September 2, 2011

**Prepared By:
Megan Pope**

Actual Well & Surveys 1

Daily Reports 2

BHA's 3

Job Performance Charts 4

Support Staff 5

St. James

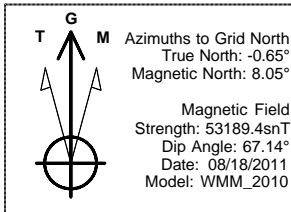
Company: St. James
 Site: Larson Farms
 Well: 6-24
 Project: Weld County, Colorado (NAD 83)
 Rig Name: Cade 22



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

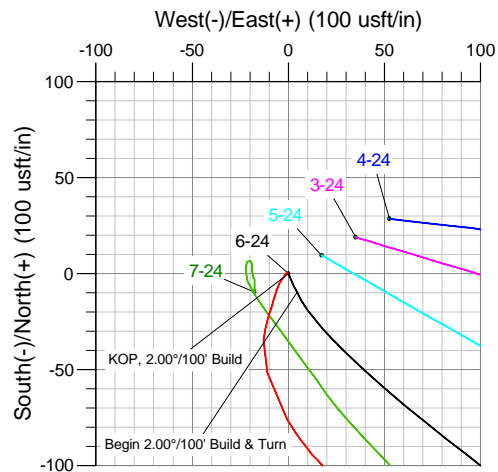
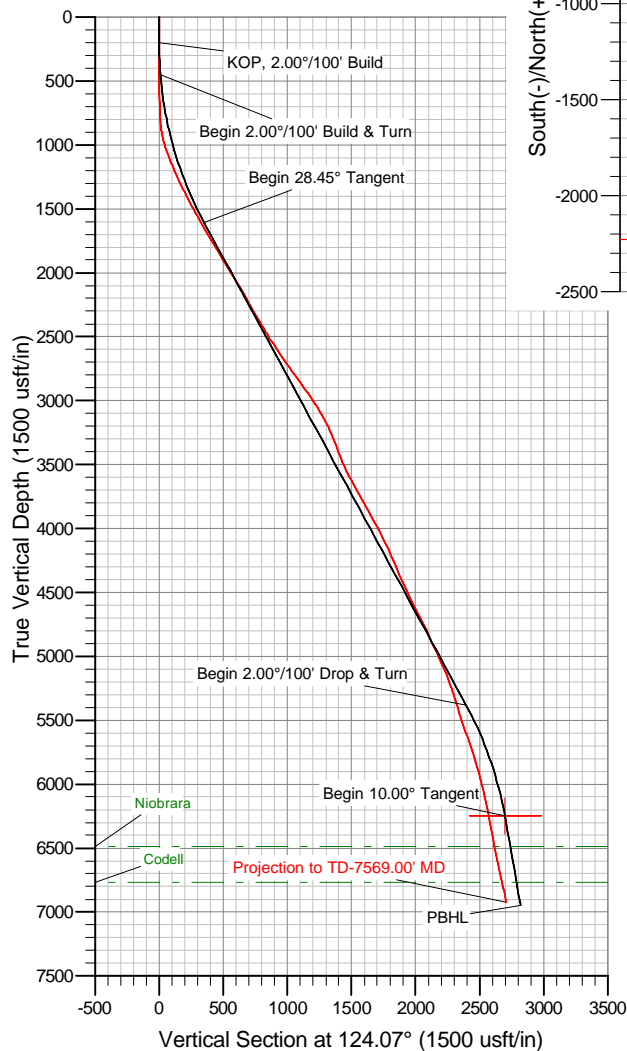
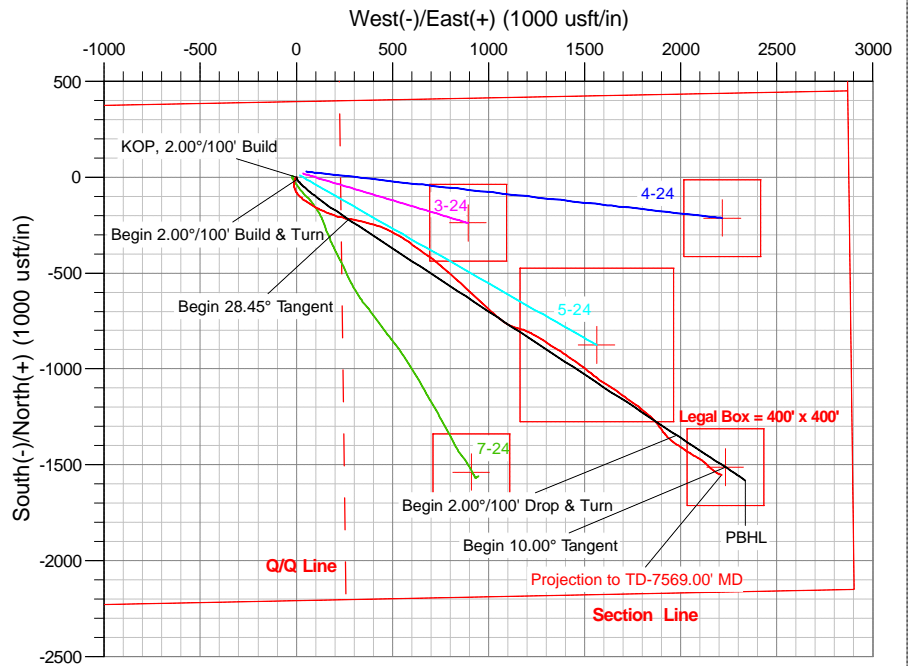
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	KOP, 2.00°/100' Build
450.00	5.00	155.00	449.68	-9.88	4.61	9.35	10.90	Begin 2.00°/100' Build & Turn
1665.93	28.45	123.38	1607.33	-220.42	272.86	349.51	353.62	Begin 28.45° Tangent
5959.91	28.45	123.38	5382.85	-1345.89	1980.77	2394.75	2399.01	Begin 2.00°/100' Drop & Turn
6882.24	10.00	123.38	6250.00	-1512.26	2233.25	2697.10	2701.38	Begin 10.00° Tangent
7593.04	10.00	123.38	6950.00	-1580.17	2336.32	2820.52	2824.81	PBHL



US State Plane 1983
 Colorado Northern Zone

Created By: Megan Pope
 Date: 9:42, September 02 2011
 Plan: Design #1



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.

St. James

Weld County, Colorado (NAD 83)

Larson Farms

6-24

Wellbore #1

Survey: MS MWD

Standard Survey Report

02 September, 2011

Company:	St. James	Local Co-ordinate Reference:	Well 6-24
Project:	Weld County, Colorado (NAD 83)	TVD Reference:	WELL @ 4656.00usft (Cade 22)
Site:	Larson Farms	MD Reference:	WELL @ 4656.00usft (Cade 22)
Well:	6-24	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Surveys	Database:	Southern Region

Project	Weld County, Colorado (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Well	6-24				
Well Position	+N/-S	0.00 usft	Northing:	1,415,915.55 usft	Latitude: 40° 28' 14.7934 N
	+E/-W	0.00 usft	Easting:	3,278,457.38 usft	Longitude: 104° 29' 56.847 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 4,643.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM_2010	08/18/11	8.70	67.14	53,189

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	124.07	

Survey Program	Date	09/02/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
103.00	7,569.00	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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
103.00	0.60	332.80	103.00	0.48	-0.25	-0.47	0.58	0.58	0.00	-94.96
236.00	0.60	206.50	235.99	0.48	-0.88	-0.99	0.80	0.00	0.77	13.85
327.00	1.30	219.10	326.98	-0.75	-1.74	-1.02	0.80	0.77	1.10	-6.92
418.00	2.30	212.80	417.94	-3.09	-3.38	-1.07	1.12	1.10	1.41	-10.65
510.00	3.60	203.00	509.81	-7.30	-5.51	-0.47	1.51	1.41	0.88	-8.13
601.00	4.40	195.60	600.59	-13.29	-7.56	1.18	1.04	0.88	1.09	1.63
693.00	5.40	197.10	692.25	-20.83	-9.79	3.56	1.10	1.09	2.00	-3.20
718.00	5.90	196.30	717.13	-23.19	-10.49	4.30	2.02	2.00	1.60	-8.50
818.00	7.50	187.80	816.45	-34.59	-12.82	8.76	1.88	1.60	6.42	-24.00
913.00	13.60	165.00	909.84	-51.54	-10.77	19.95	7.66	6.42	5.31	-14.38
1,009.00	18.70	151.20	1,002.05	-75.95	-0.42	42.20	6.61	5.31	2.69	-17.85
1,102.00	21.20	134.60	1,089.53	-100.85	18.75	72.03	6.63	2.69	2.08	-14.48
1,198.00	23.20	120.70	1,178.47	-122.71	47.39	108.00	5.84	2.08	2.37	4.41
1,291.00	25.40	124.80	1,263.24	-143.45	79.53	146.24	2.98	2.37		

Company:	St. James	Local Co-ordinate Reference:	Well 6-24
Project:	Weld County, Colorado (NAD 83)	TVD Reference:	WELL @ 4656.00usft (Cade 22)
Site:	Larson Farms	MD Reference:	WELL @ 4656.00usft (Cade 22)
Well:	6-24	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)	
1,385.00	25.90	117.70	1,347.99	-164.50	114.27	186.81	3.31	0.53	-7.55	
1,480.00	28.10	112.70	1,432.64	-182.78	153.29	229.37	3.33	2.32	-5.26	
1,574.00	30.30	108.20	1,514.70	-198.74	196.25	273.90	3.30	2.34	-4.79	
1,668.00	32.50	102.90	1,594.95	-211.78	243.41	320.27	3.75	2.34	-5.64	
1,763.00	32.00	98.30	1,675.30	-221.12	293.20	366.74	2.64	-0.53	-4.84	
1,856.00	31.80	103.60	1,754.27	-230.44	341.41	411.90	3.02	-0.22	5.70	
1,949.00	32.10	105.60	1,833.19	-242.85	389.02	458.29	1.18	0.32	2.15	
2,043.00	31.80	111.00	1,912.96	-258.44	436.21	506.12	3.06	-0.32	5.74	
2,137.00	31.10	115.50	1,993.17	-277.77	481.25	554.26	2.61	-0.74	4.79	
2,232.00	31.50	119.50	2,074.35	-300.56	525.00	603.26	2.23	0.42	4.21	
2,327.00	31.40	123.40	2,155.40	-326.41	567.27	652.75	2.14	-0.11	4.11	
2,420.00	29.50	126.80	2,235.58	-353.46	605.84	699.86	2.76	-2.04	3.66	
2,515.00	29.30	125.10	2,318.34	-380.84	643.59	746.47	0.90	-0.21	-1.79	
2,609.00	30.20	123.80	2,399.95	-407.22	682.05	793.11	1.18	0.96	-1.38	
2,703.00	31.60	129.60	2,480.63	-436.08	720.68	841.27	3.50	1.49	6.17	
2,797.00	34.60	132.50	2,559.37	-469.82	759.35	892.20	3.61	3.19	3.09	
2,892.00	34.40	131.00	2,637.66	-505.64	799.49	945.52	0.92	-0.21	-1.58	
2,987.00	35.20	130.00	2,715.67	-540.85	840.72	999.40	1.03	0.84	-1.05	
3,081.00	36.70	133.20	2,791.77	-577.50	881.95	1,054.09	2.56	1.60	3.40	
3,175.00	35.80	132.50	2,867.58	-615.30	922.70	1,109.02	1.05	-0.96	-0.74	
3,270.00	34.20	133.10	2,945.39	-652.32	962.68	1,162.87	1.72	-1.68	0.63	
3,364.00	33.50	132.20	3,023.46	-687.80	1,001.19	1,214.65	0.92	-0.74	-0.96	
3,459.00	30.80	131.20	3,103.89	-721.43	1,038.92	1,264.74	2.90	-2.84	-1.05	
3,553.00	26.00	126.80	3,186.56	-749.65	1,073.55	1,309.23	5.57	-5.11	-4.68	
3,648.00	22.40	117.00	3,273.23	-770.35	1,106.37	1,348.02	5.67	-3.79	-10.32	
3,743.00	21.40	107.70	3,361.40	-783.84	1,139.02	1,382.63	3.80	-1.05	-9.79	
3,837.00	22.60	105.30	3,448.56	-793.82	1,172.79	1,416.19	1.59	1.28	-2.55	
3,932.00	25.50	113.60	3,535.33	-806.83	1,209.15	1,453.60	4.68	3.05	8.74	
4,027.00	29.00	123.00	3,619.81	-827.58	1,247.23	1,496.76	5.83	3.68	9.89	
4,122.00	29.30	122.80	3,702.78	-852.71	1,286.08	1,543.03	0.33	0.32	-0.21	
4,215.00	29.20	122.40	3,783.92	-877.20	1,324.37	1,588.45	0.24	-0.11	-0.43	
4,310.00	29.00	120.50	3,866.93	-901.30	1,363.78	1,634.60	1.00	-0.21	-2.00	
4,403.00	28.30	125.90	3,948.56	-925.68	1,401.06	1,679.14	2.88	-0.75	5.81	
4,496.00	26.50	124.40	4,031.12	-950.33	1,436.04	1,721.93	2.07	-1.94	-1.61	
4,589.00	26.40	127.10	4,114.39	-974.52	1,469.66	1,763.33	1.30	-0.11	2.90	
4,684.00	24.20	126.30	4,200.27	-998.79	1,502.20	1,803.88	2.34	-2.32	-0.84	
4,778.00	23.50	130.20	4,286.25	-1,022.30	1,532.04	1,841.77	1.84	-0.74	4.15	
4,873.00	23.90	125.90	4,373.24	-1,045.81	1,562.10	1,879.84	1.87	0.42	-4.53	
4,966.00	25.00	122.50	4,457.91	-1,067.41	1,593.94	1,918.31	1.92	1.18	-3.66	
5,061.00	25.80	121.80	4,543.72	-1,089.09	1,628.44	1,959.04	0.90	0.84	-0.74	
5,154.00	26.60	125.90	4,627.17	-1,111.97	1,662.51	2,000.08	2.13	0.86	4.41	
5,249.00	27.00	127.30	4,711.97	-1,137.51	1,696.89	2,042.86	0.79	0.42	1.47	
5,345.00	24.50	124.60	4,798.43	-1,162.02	1,730.62	2,084.53	2.88	-2.60	-2.81	
5,440.00	24.90	126.20	4,884.74	-1,185.02	1,762.97	2,124.22	0.82	0.42	1.68	

Company:	St. James	Local Co-ordinate Reference:	Well 6-24
Project:	Weld County, Colorado (NAD 83)	TVD Reference:	WELL @ 4656.00usft (Cade 22)
Site:	Larson Farms	MD Reference:	WELL @ 4656.00usft (Cade 22)
Well:	6-24	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)	
5,533.00	26.10	127.60	4,968.68	-1,209.07	1,794.98	2,164.20	1.44	1.29	1.51	
5,627.00	24.40	129.60	5,053.70	-1,234.06	1,826.32	2,204.17	2.02	-1.81	2.13	
5,722.00	22.00	135.60	5,141.02	-1,259.29	1,853.90	2,241.15	3.54	-2.53	6.32	
5,817.00	20.60	140.00	5,229.54	-1,284.81	1,877.09	2,274.65	2.24	-1.47	4.63	
5,911.00	17.20	144.10	5,318.46	-1,308.74	1,895.88	2,303.62	3.88	-3.62	4.36	
6,005.00	17.00	144.80	5,408.31	-1,331.23	1,911.95	2,329.53	0.31	-0.21	0.74	
6,100.00	18.70	134.50	5,498.75	-1,353.26	1,930.82	2,357.51	3.77	1.79	-10.84	
6,195.00	20.30	127.90	5,588.31	-1,374.06	1,954.69	2,388.93	2.86	1.68	-6.95	
6,289.00	19.20	125.90	5,676.78	-1,393.14	1,980.08	2,420.65	1.37	-1.17	-2.13	
6,383.00	16.90	123.00	5,766.15	-1,409.65	2,004.07	2,449.77	2.63	-2.45	-3.09	
6,478.00	17.20	125.10	5,856.98	-1,425.25	2,027.14	2,477.62	0.72	0.32	2.21	
6,572.00	14.60	123.30	5,947.37	-1,439.74	2,048.42	2,503.36	2.81	-2.77	-1.91	
6,666.00	12.20	116.30	6,038.81	-1,450.65	2,067.23	2,525.06	3.08	-2.55	-7.45	
6,761.00	12.90	120.50	6,131.54	-1,460.48	2,085.36	2,545.59	1.21	0.74	4.42	
6,856.00	11.30	122.00	6,224.43	-1,470.80	2,102.39	2,565.47	1.72	-1.68	1.58	
6,947.00	10.50	130.60	6,313.79	-1,480.92	2,116.25	2,582.62	1.99	-0.88	9.45	
7,042.00	10.10	133.40	6,407.26	-1,492.27	2,128.88	2,599.44	0.67	-0.42	2.95	
7,136.00	12.20	132.90	6,499.48	-1,504.70	2,142.14	2,617.39	2.24	2.23	-0.53	
7,231.00	13.00	134.10	6,592.20	-1,518.97	2,157.17	2,637.83	0.89	0.84	1.26	
7,327.00	12.10	126.60	6,685.91	-1,532.48	2,173.00	2,658.52	1.94	-0.94	-7.81	
7,422.00	11.90	116.90	6,778.84	-1,542.85	2,189.73	2,678.19	2.13	-0.21	-10.21	
7,506.00	10.00	112.30	6,861.31	-1,549.54	2,204.20	2,693.92	2.49	-2.26	-5.48	
7,569.00	10.00	112.30	6,923.35	-1,553.69	2,214.33	2,704.63	0.00	0.00	0.00	
Projection to TD-7569.00' MD										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,569.00	6,923.35	-1,553.69	2,214.33	Projection to TD-7569.00' MD



JOB NO.:	DDOK-110428	Report Time:	2400	1 of 7
Company:	St. James	API JOB #	05-123-34146-00	
LOCATION:	Weld County	WORK ORDER#	MS#110463RR	
RIG NAME:	Cade 22	FIELD:	Wattenbauge	
STATE:	Colorado	Township:	6N	
COUNTY:	Weld County	SECTRANGE:	24	64W
WELL NAME:	Larson Farms 6-24			

From Saturday, August 27, 2011 at 0000 to Saturday, August 27, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	0.00	Rotary Hours	3.50	WOB	5	Pick UP	0	Slack Off	0	SPM			
End Depth	180.00	Circulating Hours	0.67	RAB	0	SPP	900	FlowRate	0 - 419	100			
Total Drilled:	180.00	Avg. Total ROP:	51.43	Mud Data									
Total Rotary Drilled:	180.00	Avg. Rotary ROP:	51.43	Type	Water	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:	100.00	Viscosity	0	SAND	0	PH	0	Flow T°	0		
Below Rotary Hrs.	9.25	Percent Slide:	.00	Chlorides	0	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	David Cathey			Size	Lb/ft	Set Depth		BHA # 1:12 1/4" WLS R193M Jets 3/22, 6 3/4" 7/8" 6.4 Stg 1.83 ABH, 4 1/2" XH Box - 4 1/2 IF Pin, 6 1/8" NMPC, 6 1/2" UBHO, 6 3/16" NMDC, 5 15/16" NMDC, 6 1/2" Drill Collars, 18 Jts 4 1/2" HWDP, 4 1/2" Drill Pipe,					
Second Directional :	Allen Cathey & Coty Jeane			4 1/2	11.6	0							
MWD Operator1	Cody Hart			Signature:									
MWD Operator2													
Directional Company:	MS Energy												
Geologist:													
Company Man:	Eric Geiger			Daily Cost		\$7,500.00							
Incl. In:	0	Azm. In:	0	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:	\$7,500.00				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-Aug-11	00:00	11:00	11.00	0	0	Standby	Stand By Waiting To Skid Over To Larson Farm 6-24 Well
27-Aug-11	11:00	14:45	3.75	0	0	Standby	Rig Up
27-Aug-11	14:45	18:00	3.25	0	136	Drilling	Drill rat hole to 136'
27-Aug-11	18:00	18:45	0.75	136	136	Rig repair	Change out swivel packing
27-Aug-11	18:45	19:25	0.67	136	136	Other	Rig up to pick up BHA
27-Aug-11	19:25	20:55	1.50	136	136	Change BHA	P/U BHA assly #1
27-Aug-11	20:55	21:10	0.25	136	136	Other	P/U kelly
27-Aug-11	21:10	21:23	0.22	136	136	Circulating	Test MWD
27-Aug-11	21:23	21:32	0.15	136	136	Circulating	Wash & Ream to 136'
27-Aug-11	21:32	21:50	0.30	136	136	Rig Service-Inhole	Rig Service-Inhole
27-Aug-11	21:50	22:05	0.25	136	180	Drilling	Drilling - (WOB:5;GPM :419;RPM:180)
27-Aug-11	22:05	24:00	1.92	180	180	Rig repair	Change out swivel packing



JOB NO.:	DDOK-110428	Report Time:	2400	2 of 7
Company:	St. James	API JOB #	05-123-34146-00	
LOCATION:	Weld County	WORK ORDER#	MS#110463RR	
RIG NAME:	Cade 22	FIELD:	Wattenbauge	
STATE:	Colorado	Township:	6N	
COUNTY:	Weld County	SECTRANGE:	24	64W
WELL NAME:	Larson Farms 6-24			

From Sunday, August 28, 2011 at 0000 to Sunday, August 28, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	180.00	Rotary Hours	0.65	WOB	20	Pick UP	40	Slack Off	40	SPM			
End Depth	783.00	Circulating Hours	0.57	RAB	40	SPP	1000	FlowRate	351 - 419	84			
Total Drilled:	567.00	Avg. Total ROP:	100.06	Mud Data									
Total Rotary Drilled:	117.00	Avg. Rotary ROP:	180.00	Type	Water			PV	0	SOLID	0		
Total Drilled Sliding:	450.00	Avg. Slide ROP:	89.70	Weight	8.7	GAS	0	YP	0	BHT°	0		
Slide Hours:	5.02	Percent Rotary:	20.63	Viscosity	45	SAND	0	PH	0	Flow T°	0		
Below Rotary Hrs.	13.50	Percent Slide:	79.37	Chlorides	0	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	David Cathey			Size	Lb/ft	Set Depth		BHA # 1:12 1/4" WLS R193M Jets 3/22, 6 3/4" 7/8 .64 Stg 1.83 ABH, 4 1/2" XH Box - 41/2 IF Pin, 6 1/8" NMPC, 6 1/2" UBHO, 6 3/16" NMDC, 5 15/16" NMDC, 6 1/2" Drill Collars, 18 Jts 4 1/2" HWDP, 4 1/2" Drill Pipe,					
Second Directional :	Allen Cathey & Coty Jeane			4 1/2	11.6	0							
MWD Operator1	Cody Hart			8 5/8	36	773							
MWD Operator2				Signature:									
Directional Company:	MS Energy							Daily Cost		\$9,235.00			
Geologist:								Cumulative Cost:		\$16,735.00			
Company Man:	Eric Geiger												
Incl. In:	0	Azm. In:	0	Incl. Out:	5.9	Azm. Out:	196.3						

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-Aug-11	00:00	01:05	1.08	180	180	Rig repair	Change out swivel packing
28-Aug-11	01:05	01:19	0.23	180	190	Sliding	Slide - (WOB:5;GPM:419;TFO:155)
28-Aug-11	01:19	01:28	0.15	190	212	Drilling	Drilling - (WOB:5;GPM :419;RPM:180)
28-Aug-11	01:28	01:38	0.17	212	212	Survey & Conn.	Conn.
28-Aug-11	01:38	01:51	0.22	212	222	Sliding	Sliding - (WOB:5;GPM :419;TFO:155)
28-Aug-11	01:51	01:57	0.10	222	240	Drilling	Drilling - (WOB:5;GPM :419;RPM:120)
28-Aug-11	01:57	02:07	0.17	240	240	Survey & Conn.	Conn.
28-Aug-11	02:07	02:15	0.13	240	255	Sliding	Sliding - (WOB:5;GPM :419;TFO:155)
28-Aug-11	02:15	02:19	0.07	255	271	Drilling	Drilling - (WOB:5;GPM :419;RPM:120)
28-Aug-11	02:19	02:29	0.17	271	271	Survey & Conn.	Conn.
28-Aug-11	02:29	02:36	0.12	271	286	Sliding	Sliding - (WOB:5;GPM :419;TFO:155)
28-Aug-11	02:36	02:40	0.07	286	301	Drilling	Drilling - (WOB:8;GPM :419;RPM:120)
28-Aug-11	02:40	02:50	0.17	301	301	Survey & Conn.	Survey & Conn @ 236' - .60 Inc - 206.5 Azm
28-Aug-11	02:50	03:00	0.17	301	316	Sliding	Sliding - (WOB:5;GPM :419;TFO:155)
28-Aug-11	03:00	03:06	0.10	316	332	Drilling	Drilling - (WOB:8;GPM :419;RPM:120)
28-Aug-11	03:06	03:16	0.17	332	332	Survey & Conn.	Conn.
28-Aug-11	03:16	03:28	0.20	332	347	Sliding	Sliding - (WOB:5;GPM :419;TFO:155)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-Aug-11	03:28	03:34	0.10	347	362	Drilling	Drilling - (WOB:8;GPM :419;RPM:120)
28-Aug-11	03:34	03:44	0.17	362	362	Survey & Conn.	Conn.
28-Aug-11	03:44	03:50	0.10	362	377	Sliding	Sliding - (WOB:5;GPM :419;TFO:155)
28-Aug-11	03:50	03:54	0.07	377	392	Drilling	Drilling - (WOB:8;GPM :419;RPM:120)
28-Aug-11	03:54	04:04	0.17	392	392	Survey & Conn.	Survey & Conn @ 327' - 1.3 Inc - 219.10 Azm
28-Aug-11	04:04	04:19	0.25	392	422	Sliding	Sliding - (WOB:20;GPM :351;TFO:120)
28-Aug-11	04:19	04:29	0.17	422	422	Survey & Conn.	Conn.
28-Aug-11	04:29	04:45	0.27	422	453	Sliding	Sliding - (WOB:20;GPM :351;TFO:120)
28-Aug-11	04:45	04:55	0.17	453	453	Survey & Conn.	Conn.
28-Aug-11	04:55	05:12	0.28	453	483	Sliding	Sliding - (WOB:5;GPM :419;TFO:120)
28-Aug-11	05:12	05:22	0.17	483	483	Survey & Conn.	Survey & Conn @ 418' - 2.30 Inc - 212.8 Azm
28-Aug-11	05:22	05:42	0.33	483	514	Sliding	Sliding - (WOB:20;GPM :352;TFO:115)
28-Aug-11	05:42	05:52	0.17	514	550	Survey & Conn.	Conn.
28-Aug-11	05:52	06:09	0.28	550	544	Sliding	Sliding - (WOB:20;GPM :351;TFO:120)
28-Aug-11	06:09	06:24	0.25	544	544	Survey & Conn.	Conn.
28-Aug-11	06:24	06:38	0.23	544	575	Sliding	Sliding - (WOB:20;GPM :351;TFO:120)
28-Aug-11	06:38	06:53	0.25	575	575	Survey & Conn.	Survey & Conn @ 510' - 3.6 Inc - 203.0 Azm
28-Aug-11	06:53	07:09	0.27	575	605	Sliding	Sliding - (WOB:20;GPM :351;TFO:130)
28-Aug-11	07:09	07:19	0.17	605	605	Survey & Conn.	Conn.
28-Aug-11	07:19	07:35	0.27	605	636	Sliding	Sliding - (WOB:20;GPM :351;TFO:130)
28-Aug-11	07:35	07:45	0.17	636	636	Survey & Conn.	Conn.
28-Aug-11	07:45	08:12	0.45	636	666	Sliding	Sliding - (WOB:20;GPM :351;TFO:130)
28-Aug-11	08:12	08:24	0.20	666	666	Survey & Conn.	Survey & Conn @ 601' - 4.4 Inc - 195.6 Azm
28-Aug-11	08:24	08:50	0.43	666	696	Sliding	Sliding - (WOB:20;GPM :351;TFO:130)
28-Aug-11	08:50	09:00	0.17	696	696	Survey & Conn.	Conn.
28-Aug-11	09:00	09:17	0.28	696	727	Sliding	Sliding - (WOB:20;GPM :351;TFO:130)
28-Aug-11	09:17	09:26	0.15	727	727	Survey & Conn.	Conn.
28-Aug-11	09:26	09:44	0.30	727	758	Sliding	Sliding - (WOB:20;GPM :351;TFO:130)
28-Aug-11	09:44	09:54	0.17	758	758	Survey & Conn.	Survey & Conn @ 693' - 5.4 Inc - 197.1 Azm
28-Aug-11	09:54	10:06	0.20	758	783	Sliding	Sliding - (WOB:20;GPM :351;TFO:130)
28-Aug-11	10:06	10:11	0.08	783	783	Survey & Conn.	Survey @ 718' - 5.9 Inc - 196.3 Azm
28-Aug-11	10:11	10:30	0.32	783	783	Circulating	Circulating
28-Aug-11	10:30	11:00	0.50	783	783	Short Trip	Short Trip Out To Surface.
28-Aug-11	11:00	11:45	0.75	783	783	TIH	TIH T/758'
28-Aug-11	11:45	12:00	0.25	783	783	Circulating	Kelly Up & Circulate
28-Aug-11	12:00	12:45	0.75	783	783	POOH	POOH To BHA
28-Aug-11	12:45	13:00	0.25	783	783	POOH	POOH Pull MWD.
28-Aug-11	13:00	13:30	0.50	783	783	Change BHA	Break Off Bit & L/D MTR.
28-Aug-11	13:30	24:00	10.50	783	783	Standby	Rig Up & Run CSG Nipple up & Test BOP's



JOB NO.:	DDOK-110428	Report Time:	2400	3 of 7
Company:	St. James	API JOB #	05-123-34146-00	
LOCATION:	Weld County	WORK ORDER#	MS#110463RR	
RIG NAME:	Cade 22	FIELD:	Wattenbauge	
STATE:	Colorado	Township:	6N	
COUNTY:	Weld County	SECTRANGE:	24	64W
WELL NAME:	Larson Farms 6-24			

From Monday, August 29, 2011 at 0000 to Monday, August 29, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	783.00	Rotary Hours	8.58	WOB	15	Pick UP	75	Slack Off	50	SPM			
End Depth	3898.00	Circulating Hours	0.67	RAB	60	SPP	1164	FlowRate	351 - 419	100			
Total Drilled:	3115.00	Avg. Total ROP:	245.28	Mud Data									
Total Rotary Drilled:	2469.00	Avg. Rotary ROP:	287.65	Type	Water	PV	0	SOLID	0				
Total Drilled Sliding:	646.00	Avg. Slide ROP:	156.92	Weight	8.7	GAS	0	YP	0	BHT°	0		
Slide Hours:	4.12	Percent Rotary:	79.26	Viscosity	45	SAND	0	PH	0	Flow T°	0		
Below Rotary Hrs.	24.00	Percent Slide:	20.74	Chlorides	0	WL	0			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	David Cathey			Size	Lb/ft	Set Depth		BHA # 2:7 7/8" Hughes HCD 405Z, 6 1/4" 7/8 - 4.8 Stg 1.83 ABH, 6 9/16" FLT Sub, 6 1/8" NMPC, 6 1/2" UBHO, 6 3/16" NMDC, 5 15/16" NMDC, 18 Jts 4 1/2" HWDP, 4 1/2" Drill Pipe,					
Second Directional :	Allen Cathey & Coty Jeane			4 1/2	11.6	0							
MWD Operator1	Cody Hart			8 5/8	36	773							
MWD Operator2				Signature:				Daily Cost \$7,500.00					
Directional Company:	MS Energy												
Geologist:													
Company Man:	Eric Geiger												
Incl. In:	5.9	Azm. In:	196.3	Incl. Out:	22.6	Azm. Out:	105.3	Cummulative Cost:		\$24,235.00			

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Aug-11	00:00	01:30	1.50	783	783	Change BHA	P/U BHA 2
29-Aug-11	01:30	01:47	0.28	783	783	Circulating	Test MWD
29-Aug-11	01:47	02:50	1.05	783	783	TIH	TIH T/700'
29-Aug-11	02:50	03:10	0.33	783	783	Reaming	Drill out CMT & Shoe track assly
29-Aug-11	03:10	03:20	0.17	783	815	Drilling	Drilling - (WOB:8;GPM :419;RPM:70)
29-Aug-11	03:20	03:30	0.17	815	815	Survey & Conn.	Conn.
29-Aug-11	03:30	03:47	0.28	815	847	Sliding	Sliding - (WOB:10;GPM :419;TFO:325)
29-Aug-11	03:47	03:57	0.17	847	879	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	03:57	04:07	0.17	879	879	Survey & Conn.	Survey & Conn @ 818' - 7.5 Inc - 187.8 Azm
29-Aug-11	04:07	04:10	0.05	879	897	Sliding	Sliding - (WOB:10;GPM :419;TFO:315)
29-Aug-11	04:10	04:20	0.17	897	943	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	04:20	04:30	0.17	943	943	Survey & Conn.	Conn.
29-Aug-11	04:30	04:33	0.05	943	958	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
29-Aug-11	04:33	04:36	0.05	958	974	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	04:36	04:46	0.17	974	974	Survey & Conn.	Survey & Conn @ 913' - 13.6 Inc - 165 Azm
29-Aug-11	04:46	04:50	0.07	974	989	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
29-Aug-11	04:50	05:02	0.20	989	1038	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Aug-11	05:02	05:12	0.17	1038	1038	Survey & Conn.	Conn.
29-Aug-11	05:12	05:16	0.07	1038	1053	Sliding	Sliding - (WOB:10;GPM :419;TFO:300)
29-Aug-11	05:16	05:19	0.05	1053	1070	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	05:19	05:29	0.17	1070	1070	Survey & Conn.	Survey & Conn @ 1009' - 18.7 Inc - 151.2 Azm
29-Aug-11	05:29	05:30	0.02	1070	1085	Sliding	Sliding - (WOB:10;GPM :419;TFO:300)
29-Aug-11	05:30	05:43	0.22	1085	1132	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	05:43	05:53	0.17	1132	1132	Survey & Conn.	Conn.
29-Aug-11	05:53	05:56	0.05	1132	1147	Sliding	Sliding - (WOB:10;GPM :419;TFO:340)
29-Aug-11	05:56	06:00	0.07	1147	1163	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	06:00	06:10	0.17	1163	1163	Survey & Conn.	Survey & Conn @ 1102' - 21.20 Inc - 134.6 Azm
29-Aug-11	06:10	06:15	0.08	1163	1178	Sliding	Sliding - (WOB:10;GPM :419;TFO:300)
29-Aug-11	06:15	06:37	0.37	1178	1257	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	06:37	06:40	0.05	1257	1257	Survey & Conn.	Survey & Conn @ 11198' -23.2 Inc - 120.7 Azm
29-Aug-11	06:40	06:47	0.12	1257	1274	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
29-Aug-11	06:47	06:50	0.05	1274	1289	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	06:50	06:53	0.05	1289	1289	Survey & Conn.	Conn.
29-Aug-11	06:53	06:57	0.07	1289	1321	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	06:57	07:20	0.38	1321	1321	Survey & Conn.	Conn & Install Rotig Rubber
29-Aug-11	07:20	07:28	0.13	1321	1352	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	07:28	07:38	0.17	1352	1352	Survey & Conn.	Survey & Conn @ 1291' - 25.4 Inc - 124.8 Azm
29-Aug-11	07:38	07:48	0.17	1352	1370	Sliding	Sliding - (WOB:10;GPM :419;TFO:310)
29-Aug-11	07:48	07:52	0.07	1370	1383	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	07:52	07:55	0.05	1383	1383	Circulating	Circulating & Calibrate Auto Driller.
29-Aug-11	07:55	07:58	0.05	1383	1383	Survey & Conn.	Conn.
29-Aug-11	07:58	08:06	0.13	1383	1415	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	08:06	08:09	0.05	1415	1415	Survey & Conn.	Conn.
29-Aug-11	08:09	08:15	0.10	1415	1446	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	08:15	08:27	0.20	1446	1446	Survey & Conn.	Survey & Conn @ 1385' - 25.9 Inc - 117.7 Azm
29-Aug-11	08:27	08:34	0.12	1446	1464	Sliding	Sliding - (WOB:10;GPM :419;TFO:315)
29-Aug-11	08:34	08:39	0.08	1464	1478	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	08:39	08:42	0.05	1478	1478	Survey & Conn.	Conn.
29-Aug-11	08:42	08:49	0.12	1478	1541	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	08:49	09:02	0.22	1541	1541	Survey & Conn.	Survey & Conn @ 1480' - 28.1 Inc - 112.70 Azm
29-Aug-11	09:02	09:08	0.10	1541	1559	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
29-Aug-11	09:08	09:11	0.05	1559	1572	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	09:11	09:13	0.03	1572	1572	Survey & Conn.	Conn.
29-Aug-11	09:13	09:16	0.05	1572	1604	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	09:16	09:20	0.07	1604	1604	Survey & Conn.	Conn.
29-Aug-11	09:20	09:25	0.08	1604	1635	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	09:25	09:33	0.13	1635	1635	Survey & Conn.	Survey & Conn. @ 1574' - 30.3 Inc - 108.2 Azm
29-Aug-11	09:33	09:39	0.10	1635	1653	Sliding	Sliding - (WOB:10;GPM :419;TFO:10)
29-Aug-11	09:39	09:41	0.03	1653	1666	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	09:41	09:44	0.05	1666	1666	Survey & Conn.	Conn.
29-Aug-11	09:44	09:49	0.08	1666	1698	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	09:49	09:51	0.03	1698	1698	Survey & Conn.	Conn.
29-Aug-11	09:51	09:56	0.08	1698	1729	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Aug-11	09:56	10:02	0.10	1729	1729	Survey & Conn.	Survey & Conn.
29-Aug-11	10:02	10:07	0.08	1729	1747	Sliding	Sliding - (WOB:10;GPM :419;TFO:10)
29-Aug-11	10:07	10:11	0.07	1747	1761	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	12:33	12:35	0.03	2167	2167	Survey & Conn.	Conn.
29-Aug-11	12:35	12:41	0.10	2167	2198	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	10:11	10:13	0.03	1761	1761	Survey & Conn.	Conn.
29-Aug-11	10:13	10:17	0.07	1761	1793	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	10:17	10:19	0.03	1793	1793	Survey & Conn.	Conn.
29-Aug-11	10:19	10:25	0.10	1793	1824	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	10:25	10:35	0.17	1824	1824	Survey & Conn.	Survey & Conn @ 1763' - 32.0 Inc - 98.3 Azm
29-Aug-11	10:35	10:41	0.10	1824	1842	Sliding	Sliding - (WOB:10;GPM :419;TFO:80)
29-Aug-11	10:41	10:44	0.05	1842	1855	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	10:44	10:46	0.03	1855	1855	Survey & Conn.	Conn.
29-Aug-11	10:46	10:50	0.07	1855	1885	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	10:50	10:52	0.03	1885	1885	Survey & Conn.	Conn.
29-Aug-11	10:52	10:57	0.08	1885	1917	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	10:57	11:03	0.10	1917	1917	Survey & Conn.	Survey & Conn @ 1856 31.8 Inc 103.6 Azm
29-Aug-11	11:03	11:08	0.08	1917	1935	Sliding	Sliding - (WOB:10;GPM :419;TFO:80)
29-Aug-11	11:08	11:11	0.05	1935	1947	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	11:11	11:14	0.05	1947	1947	Survey & Conn.	Conn.
29-Aug-11	11:14	11:18	0.07	1947	1979	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	11:18	11:21	0.05	1979	1979	Survey & Conn.	Conn.
29-Aug-11	11:21	11:25	0.07	1979	2010	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	11:25	11:31	0.10	2010	2010	Survey & Conn.	Survey & Conn @ 1949' - 32.1 Inc - 105.6 Azm
29-Aug-11	11:31	11:40	0.15	2010	2028	Sliding	Sliding - (WOB:10;GPM :419;TFO:80)
29-Aug-11	11:40	11:43	0.05	2028	2042	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	11:43	11:51	0.13	2042	2042	Survey & Conn.	Conn & Change Out Saber Sub.
29-Aug-11	11:51	12:01	0.17	2042	2072	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	12:01	12:04	0.05	2072	2072	Survey & Conn.	Conn.
29-Aug-11	12:04	12:09	0.08	2072	2104	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	12:09	12:19	0.17	2104	2104	Survey & Conn.	Survey & Conn @ 2043' - 31.8 Inc - 111.0 Azm
29-Aug-11	12:19	12:23	0.07	2104	2124	Sliding	Sliding - (WOB:10;GPM :419;TFO:80)
29-Aug-11	12:23	12:25	0.03	2124	2135	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	12:25	12:28	0.05	2135	2135	Survey & Conn.	Conn.
29-Aug-11	12:28	12:33	0.08	2135	2167	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	12:41	12:48	0.12	2198	2198	Survey & Conn.	Survey & Conn @ 2137' - 31.1 Inc - 115.5 Azm
29-Aug-11	12:48	12:53	0.08	2198	2218	Sliding	Sliding - (WOB:10;GPM :419;TFO:80)
29-Aug-11	12:53	12:56	0.05	2218	2230	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	12:56	12:58	0.03	2230	2230	Survey & Conn.	Conn.
29-Aug-11	12:58	13:04	0.10	2230	2261	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	13:04	13:06	0.03	2261	2261	Survey & Conn.	Conn.
29-Aug-11	13:06	13:13	0.12	2261	2293	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	13:13	13:20	0.12	2293	2293	Survey & Conn.	Survey & Conn @ 2232' - 31.5 Inc - 119.5 Azm
29-Aug-11	13:20	13:25	0.08	2293	2315	Sliding	Sliding - (WOB:10;GPM :419;TFO:80)
29-Aug-11	13:25	13:28	0.05	2315	2325	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	13:28	13:30	0.03	2325	2325	Survey & Conn.	Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Aug-11	13:30	13:35	0.08	2325	2356	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	13:35	13:38	0.05	2356	2356	Survey & Conn.	Conn.
29-Aug-11	13:38	13:44	0.10	2356	2388	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	13:44	13:50	0.10	2388	2388	Survey & Conn.	Survey & Conn @ 2327' - 31.4 Inc - 123.4 Azm
29-Aug-11	13:50	13:55	0.08	2388	2410	Sliding	Sliding - (WOB:10;GPM :419;TFO:60)
29-Aug-11	13:55	13:57	0.03	2410	2419	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	13:57	14:00	0.05	2419	2419	Survey & Conn.	Conn.
29-Aug-11	14:00	14:06	0.10	2419	2449	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	14:06	14:08	0.03	2449	2449	Survey & Conn.	Conn.
29-Aug-11	14:08	14:13	0.08	2449	2481	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	14:13	14:26	0.22	2481	2499	Sliding	Sliding - (WOB:10;GPM :419;TFO:60)
29-Aug-11	14:26	14:28	0.03	2499	2513	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	14:28	14:31	0.05	2513	2513	Survey & Conn.	Conn.
29-Aug-11	14:31	14:36	0.08	2513	2544	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	14:36	14:38	0.03	2544	2544	Survey & Conn.	Conn.
29-Aug-11	14:38	14:43	0.08	2544	2576	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	14:43	14:50	0.12	2576	2576	Survey & Conn.	Survey & Conn @ 2515' - 29.3 Inc - 125.1 Azm
29-Aug-11	14:50	14:56	0.10	2576	2591	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
29-Aug-11	14:56	15:00	0.07	2591	2607	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	15:00	15:02	0.03	2607	2607	Survey & Conn.	Conn.
29-Aug-11	15:02	15:07	0.08	2607	2639	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	15:07	15:12	0.08	2639	2639	Survey & Conn.	Conn.
29-Aug-11	15:12	15:18	0.10	2639	2654	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
29-Aug-11	15:18	15:47	0.48	2654	2654	Rig repair	Rig repair Rotary Chain
29-Aug-11	15:47	15:50	0.05	2654	2670	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	16:57	17:05	0.13	2827	2827	Survey & Conn.	Conn.
29-Aug-11	17:05	17:10	0.08	2827	2858	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	17:10	17:15	0.08	2858	2858	Survey & Conn.	Survey & Conn @ 2797' - 34.6 Inc - 132.50 Azm
29-Aug-11	17:15	17:21	0.10	2858	2873	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
29-Aug-11	17:21	17:27	0.10	2873	2890	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	17:27	17:29	0.03	2890	2890	Survey & Conn.	Conn.
29-Aug-11	17:29	17:36	0.12	2890	2922	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	17:36	17:38	0.03	2922	2922	Survey & Conn.	Conn.
29-Aug-11	17:38	17:44	0.10	2922	2953	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	17:44	17:53	0.15	2953	2953	Survey & Conn.	Survey & Conn @ 2892' - 34.4 Inc - 131.0 Azm
29-Aug-11	17:53	17:56	0.05	2953	2968	Sliding	Sliding - (WOB:10;GPM :419;TFO:10)
29-Aug-11	17:56	18:00	0.07	2968	2985	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	15:50	15:57	0.12	2670	2670	Survey & Conn.	Survey & Conn @ 2609' - 30.2 Inc 123.8 Azm
29-Aug-11	15:57	16:05	0.13	2670	2690	Sliding	Sliding - (WOB:10;GPM :419;TFO:70)
29-Aug-11	16:05	16:08	0.05	2690	2701	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	16:08	16:11	0.05	2701	2701	Survey & Conn.	Conn.
29-Aug-11	16:11	16:15	0.07	2701	2732	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	16:15	16:20	0.08	2732	2732	Survey & Conn.	Conn.
29-Aug-11	16:20	16:26	0.10	2732	2742	Sliding	Sliding - (WOB:10;GPM :419;TFO:60)
29-Aug-11	16:26	16:30	0.07	2742	2764	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	16:30	16:31	0.02	2764	2764	Rig repair	Rig repair Work On Tongs

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-Aug-11	16:31	16:40	0.15	2764	2764	Survey & Conn.	Survey & Conn @ 2703' - 31.6 Inc - 129.60 Azm
29-Aug-11	16:40	16:46	0.10	2764	2784	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
29-Aug-11	16:46	16:50	0.07	2784	2795	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	16:50	16:52	0.03	2795	2795	Survey & Conn.	Conn.
29-Aug-11	16:52	16:57	0.08	2795	2827	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	18:00	18:06	0.10	2985	2985	Survey & Conn.	Conn.
29-Aug-11	18:06	18:12	0.10	2985	3017	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	18:12	18:16	0.07	3017	3017	Survey & Conn.	Conn.
29-Aug-11	18:16	18:21	0.08	3017	3048	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	18:21	18:30	0.15	3048	3048	Survey & Conn.	Survey & Conn 2987' - 35.2 Inc - 130.0 Azm
29-Aug-11	18:30	18:35	0.08	3048	3063	Sliding	Sliding - (WOB:10;GPM :419;TFO:90)
29-Aug-11	18:35	18:42	0.12	3063	3079	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	18:42	18:44	0.03	3079	3079	Survey & Conn.	Conn.
29-Aug-11	18:44	18:50	0.10	3079	3110	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	18:50	18:53	0.05	3110	3110	Survey & Conn.	Conn.
29-Aug-11	18:53	18:58	0.08	3110	3142	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	18:58	19:06	0.13	3142	3142	Survey & Conn.	Survey & Conn @ 3081' - 36.7 Inc - 133.2 Azm
29-Aug-11	19:06	19:32	0.43	3142	3236	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	19:32	19:42	0.17	3236	3236	Survey & Conn.	Survey & Conn @ 3175' - 35.8 Inc - 132.5 Azm
29-Aug-11	19:42	20:01	0.32	3236	3331	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	20:01	20:11	0.17	3331	3331	Survey & Conn.	Survey & Conn @ 3270' - 34.2 Inc - 133.1 Azm
29-Aug-11	20:11	20:27	0.27	3331	3425	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	20:27	20:35	0.13	3425	3425	Survey & Conn.	Survey & Conn @ 3364' - 33.5 Inc - 132.2 Azm
29-Aug-11	20:35	20:55	0.33	3425	3520	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	20:55	21:19	0.40	3520	3538	Sliding	Sliding - (WOB:10;GPM :419;TFO:315)
29-Aug-11	21:19	21:37	0.30	3538	3614	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	21:37	21:47	0.17	3614	3614	Survey & Conn.	Survey & Conn @ 3553' - 26.0 Inc - 126.8 Azm
29-Aug-11	21:47	22:00	0.22	3614	3640	Sliding	Sliding - (WOB:10;GPM :419;TFO:340)
29-Aug-11	22:00	22:16	0.27	3640	3709	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	22:16	22:26	0.17	3709	3709	Survey & Conn.	Survey & Conn @ 3648' - 22.0 Inc - 117.0 Azm
29-Aug-11	22:26	22:35	0.15	3709	3736	Sliding	Sliding - (WOB:10;GPM :419;TFO:20)
29-Aug-11	22:35	22:45	0.17	3736	3771	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	22:45	22:55	0.17	3771	3771	Survey & Conn.	Conn.
29-Aug-11	22:55	23:01	0.10	3771	3787	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
29-Aug-11	23:01	23:05	0.07	3787	3804	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	23:05	23:15	0.17	3804	3804	Survey & Conn.	Survey & Conn @ 3743' - 21.4 Inc - 107.7 Azm
29-Aug-11	23:15	23:21	0.10	3804	3820	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
29-Aug-11	23:21	23:35	0.23	3820	3867	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
29-Aug-11	23:35	23:45	0.17	3867	3867	Survey & Conn.	Conn.
29-Aug-11	23:45	23:55	0.17	3867	3882	Sliding	Sliding - (WOB:10;GPM :419;TFO:60)
29-Aug-11	23:55	24:00	0.08	3882	3898	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)



JOB NO.:	DDOK-110428	Report Time:	2400	4 of 7
Company:	St. James	API JOB #	05-123-34146-00	
LOCATION:	Weld County	WORK ORDER#	MS#110463RR	
RIG NAME:	Cade 22	FIELD:	Wattenbauge	
STATE:	Colorado	Township:	6N	
COUNTY:	Weld County	SECTRANGE:	24	64W
WELL NAME:	Larson Farms 6-24			

From Tuesday, August 30, 2011 at 0000 to Tuesday, August 30, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	3898.00	Rotary Hours	8.87	WOB	10	Pick UP	75	Slack Off	50	SPM	
End Depth	5925.00	Circulating Hours	1.32	RAB	60	SPP	1164	FlowRate	419 - 419	100	
Total Drilled:	2027.00	Avg. Total ROP:	115.61	Mud Data							
Total Rotary Drilled:	1639.00	Avg. Rotary ROP:	184.85	Type	Water	PV	0	SOLID	0		
Total Drilled Sliding:	388.00	Avg. Slide ROP:	44.77	Weight	8.7	GAS	0	YP	0	BHT°	0
Slide Hours:	8.67	Percent Rotary:	80.86	Viscosity	45	SAND	0	PH	0	Flow T°	0
Below Rotary Hrs.	24.00	Percent Slide:	19.14	Chlorides	0	WL	0	Oil %	0		
PERSONNEL				CASING			BHA				
Lead Directional :	David Cathey			Size	Lb/ft	Set Depth	BHA # 2:7 7/8" Hughes HCD 405Z, 6 1/4" 7/8 -4.8 Stg 1.83 ABH, 6 9/16" FLT Sub, 6 1/8" NMPC, 6 1/2" UBHO, 6 3/16" NMDC, 5 15/16" NMDC, 18 Jts 4 1/2" HWDP, 4 1/2" Drill Pipe,				
Second Directional :	Mike Simpson & Coty Jeane			4 1/2	11.6	0					
MWD Operator1	Cody Hart			8 5/8	36	773					
MWD Operator2											
Directional Company:	MS Energy			Signature:							
Geologist:											
Company Man:	Eric Geiger						Daily Cost	\$7,500.00			
Incl. In:	22.6	Azm. In:	105.3	Incl. Out:	17.2	Azm. Out:	144.1	Cummulative Cost:	\$31,735.00		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Aug-11	00:00	00:10	0.17	3898	3898	Survey & Conn.	Survey & Conn @ 3837' - 22.6 Inc - 105.3 Azm
30-Aug-11	00:10	00:18	0.13	3898	3913	Sliding	Sliding - (WOB:10;GPM :419;TFO:60)
30-Aug-11	00:18	00:30	0.20	3913	3929	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	00:30	00:43	0.22	3929	3929	Rig Service-Inhole	Rig Service-Inhole
30-Aug-11	00:43	00:48	0.08	3929	3961	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	00:48	00:58	0.17	3961	3961	Survey & Conn.	Conn.
30-Aug-11	00:58	01:03	0.08	3961	3976	Sliding	Sliding - (WOB:10;GPM :419;TFO:60)
30-Aug-11	01:03	01:06	0.05	3976	3993	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	01:06	01:16	0.17	3993	3993	Survey & Conn.	Survey & Conn @ 3932' - 25.5 Inc - 113.6 Azm
30-Aug-11	01:16	01:25	0.15	3993	4008	Sliding	Sliding - (WOB:10;GPM :419;TFO:70)
30-Aug-11	01:25	02:00	0.58	4008	4088	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	02:00	02:10	0.17	4088	4088	Survey & Conn.	Survey & Conn @ 4027' - 29.0 Inc - 123.0 Azm
30-Aug-11	02:10	02:29	0.32	4088	4183	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	02:29	02:39	0.17	4183	4183	Survey & Conn.	Survey & Conn @ 4122' - 29.3 Inc - 122.8 Azm
30-Aug-11	02:39	03:00	0.35	4183	4276	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	03:00	03:10	0.17	4276	4276	Survey & Conn.	Survey & Conn @ 4215' - 29.2 Inc - 122.4 Azm
30-Aug-11	03:10	03:30	0.33	4276	4371	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Aug-11	03:30	03:40	0.17	4371	4371	Survey & Conn.	Survey & Conn @ 4310' - 29.0 Inc - 120.5 Azm
30-Aug-11	03:40	03:55	0.25	4371	4386	Sliding	Sliding - (WOB:10;GPM :419;TFO:90)
30-Aug-11	03:55	04:13	0.30	4386	4464	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	04:13	04:20	0.12	4464	4464	Survey & Conn.	Survey & Conn @ 4403' - 28.3 Inc - 125.9 Azm
30-Aug-11	04:20	04:45	0.42	4464	4557	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	04:45	04:55	0.17	4557	4557	Survey & Conn.	Survey & Conn. @4496-26.5 Inc- 124.4 Azm
30-Aug-11	04:55	05:03	0.13	4557	4572	Sliding	Sliding - (WOB:10;GPM :419;TFO:60)
30-Aug-11	05:03	05:26	0.38	4572	4650	Drilling	Drilling - (WOB:15; :419;RPM:70)
30-Aug-11	05:26	05:36	0.17	4650	4650	Survey & Conn.	Survey & Conn @ 4589' - 26.4 Inc - 127.1 Azm
30-Aug-11	05:36	06:00	0.40	4650	4745	Drilling	Drilling - (WOB:15; :419;RPM:70)
30-Aug-11	06:00	06:10	0.17	4745	4745	Survey & Conn.	Survey & Conn. @ 4684- 24.2 Inc- 126.3 Azm
30-Aug-11	06:10	06:18	0.13	4745	4765	Sliding	Sliding - (WOB:10; :419;TFO:10)
30-Aug-11	06:18	06:45	0.45	4765	4839	Drilling	Drilling - (WOB:15; :419;RPM:70)
30-Aug-11	06:45	06:53	0.13	4839	4839	Survey & Conn.	Survey & Conn. @4778- 23.5 Inc- 130.2 Azm
30-Aug-11	06:53	07:03	0.17	4839	4857	Sliding	Sliding - (WOB:10; :419;TFO:10)
30-Aug-11	07:03	07:26	0.38	4857	4934	Drilling	Drilling - (WOB:15; :419;RPM:70)
30-Aug-11	07:26	07:36	0.17	4934	4934	Survey & Conn.	Survey & Conn. @ 4873' - 23.9 Inc- 125.9 Azm
30-Aug-11	07:36	07:50	0.23	4934	4952	Sliding	Sliding - (WOB:10; :419;TFO:0)
30-Aug-11	07:50	08:11	0.35	4952	4995	Drilling	Drilling - (WOB:15; :419;RPM:70)
30-Aug-11	08:11	08:17	0.10	4995	4995	Survey & Conn.	Conn.
30-Aug-11	08:17	08:33	0.27	4995	5005	Sliding	Sliding - (WOB:10; :419;TFO:0)
30-Aug-11	08:33	08:39	0.10	5005	5027	Drilling	Drilling - (WOB:15; :419;RPM:70)
30-Aug-11	08:39	09:06	0.45	5027	5027	Rig Service-Inhole	Rig Service-Inhole
30-Aug-11	09:06	09:15	0.15	5027	5027	Survey & Conn.	Survey & Conn. @ 4966'- 25 Inc- 122.5 Azm
30-Aug-11	09:15	09:33	0.30	5027	5042	Sliding	Sliding - (WOB:10;GPM :419;TFO:20)
30-Aug-11	09:33	09:39	0.10	5042	5059	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	09:39	09:41	0.03	5059	5059	Survey & Conn.	Conn.
30-Aug-11	09:41	09:50	0.15	5059	5090	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	09:50	09:58	0.13	5090	5090	Survey & Conn.	Conn.
30-Aug-11	09:58	10:39	0.68	5090	5105	Sliding	Sliding - (WOB:10;GPM :419;TFO:20)
30-Aug-11	10:39	10:43	0.07	5105	5122	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	10:43	10:50	0.12	5122	5122	Survey & Conn.	Survey & Conn. @ 5061' - 25.8 Inc- 121.8 Azm
30-Aug-11	10:50	11:11	0.35	5122	5137	Sliding	Sliding - (WOB:10;GPM :419;TFO:20)
30-Aug-11	11:11	11:17	0.10	5137	5153	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	11:17	11:19	0.03	5153	5153	Survey & Conn.	Conn.
30-Aug-11	11:19	11:27	0.13	5153	5185	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	11:27	11:34	0.12	5185	5185	Survey & Conn.	Survey & Conn. @ 5154'- 26.6 Inc- 125.9 Azm
30-Aug-11	11:34	12:14	0.67	5185	5203	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	12:14	12:21	0.12	5203	5215	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	12:21	12:29	0.13	5215	5215	Survey & Conn.	Survey & Conn. @ 5154' - 26.6 Inc- 125.9 Azm
30-Aug-11	12:29	12:49	0.33	5215	5278	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	12:49	12:51	0.03	5278	5278	Survey & Conn.	Conn.
30-Aug-11	12:51	13:09	0.30	5278	5309	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	13:09	13:16	0.12	5309	5309	Survey & Conn.	Survey & Conn. @ 5249' - 27 Inc- 127.3 Azm
30-Aug-11	13:16	13:34	0.30	5309	5374	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	13:34	13:36	0.03	5374	5374	Survey & Conn.	Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Aug-11	13:36	14:02	0.43	5374	5389	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	14:02	14:08	0.10	5389	5406	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	14:08	14:15	0.12	5406	5406	Survey & Conn.	Survey & Conn. @ 5345' - 24.5 Inc- 124.6 Azm
30-Aug-11	14:15	14:38	0.38	5406	5413	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	14:38	14:58	0.33	5413	5413	Reaming	Ream & Work Pipe
30-Aug-11	14:58	15:16	0.30	5413	5423	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	15:16	15:22	0.10	5423	5438	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	15:22	15:25	0.05	5438	5438	Reaming	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	15:25	15:30	0.08	5438	5438	Survey & Conn.	Conn.
30-Aug-11	15:30	15:48	0.30	5438	5453	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	15:48	15:54	0.10	5453	5469	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	15:54	16:00	0.10	5469	5469	Survey & Conn.	Conn.
30-Aug-11	16:00	16:08	0.13	5469	5501	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	16:08	16:18	0.17	5501	5501	Survey & Conn.	Survey & Conn @ 5440' - 24.9 Inc- 126.2 Azm
30-Aug-11	16:18	16:52	0.57	5501	5516	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	16:52	17:00	0.13	5516	5532	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	17:00	17:02	0.03	5532	5532	Survey & Conn.	Conn.
30-Aug-11	17:02	17:11	0.15	5532	5562	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	17:11	17:19	0.13	5562	5562	Survey & Conn.	Conn.
30-Aug-11	17:19	17:43	0.40	5562	5577	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	17:43	17:50	0.12	5577	5594	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	17:50	18:01	0.18	5594	5594	Survey & Conn.	Survey & Conn. @ 5533' - 26.1 Inc- 127.6 Azm
30-Aug-11	18:01	18:13	0.20	5594	5626	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	18:13	18:15	0.03	5626	5626	Reaming	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	18:15	18:25	0.17	5626	5626	Survey & Conn.	Conn. Ck Shot
30-Aug-11	18:25	18:34	0.15	5626	5641	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	18:34	18:41	0.12	5641	5658	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	18:41	18:45	0.07	5658	5658	Survey & Conn.	Conn.
30-Aug-11	18:45	18:54	0.15	5658	5688	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	18:54	18:56	0.03	5688	5688	Reaming	Work Tight Hole
30-Aug-11	18:56	19:06	0.17	5688	5688	Survey & Conn.	Survey & Conn. @ 5627' - 24.4 Inc- 129.6 Azm
30-Aug-11	19:06	19:13	0.12	5688	5703	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	19:13	19:38	0.42	5703	5711	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	19:38	19:50	0.20	5711	5711	Reaming	Work Tight Hole
30-Aug-11	19:50	19:58	0.13	5711	5720	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	19:58	20:04	0.10	5720	5720	Survey & Conn.	Conn.
30-Aug-11	20:04	20:16	0.20	5720	5735	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	20:16	20:34	0.30	5735	5752	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	20:34	20:38	0.07	5752	5752	Survey & Conn.	Conn.
30-Aug-11	20:38	20:49	0.18	5752	5785	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	20:49	21:00	0.18	5785	5785	Survey & Conn.	Survey & Conn. @ 5722' - 22.0 Inc- 135.6 Azm
30-Aug-11	21:00	21:05	0.08	5785	5800	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	21:05	21:31	0.43	5800	5815	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	21:31	21:41	0.17	5815	5815	Survey & Conn.	Conn. & Ck. Shot
30-Aug-11	21:41	21:51	0.17	5815	5831	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	21:51	22:12	0.35	5831	5847	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
30-Aug-11	22:12	22:15	0.05	5847	5847	Survey & Conn.	Conn.
30-Aug-11	22:15	22:30	0.25	5847	5878	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	22:30	22:40	0.17	5878	5878	Survey & Conn.	Survey & Conn. @5817- 20.6 Inc- 140 Azm
30-Aug-11	22:40	22:45	0.08	5878	5888	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	22:45	23:31	0.77	5888	5910	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)
30-Aug-11	23:31	23:38	0.12	5910	5910	Survey & Conn.	Conn.
30-Aug-11	23:38	23:49	0.18	5910	5920	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
30-Aug-11	23:49	24:00	0.18	5920	5925	Sliding	Sliding - (WOB:10;GPM :419;TFO:30)



JOB NO.:	DDOK-110428	Report Time:	2400	5 of 7
Company:	St. James	API JOB #	05-123-34146-00	
LOCATION:	Weld County	WORK ORDER#	MS#110463RR	
RIG NAME:	Cade 22	FIELD:	Wattenbauge	
STATE:	Colorado	Township:	6N	
COUNTY:	Weld County	SECTRANGE:	24	64W
WELL NAME:	Larson Farms 6-24			

From Wednesday, August 31, 2011 at 0000 to Wednesday, August 31, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	5925.00	Rotary Hours	3.70	WOB	15	Pick UP	160	Slack Off	100	SPM				
End Depth	6699.00	Circulating Hours	5.35	RAB	130	SPP	1500	FlowRate	0 - 419	100				
Total Drilled:	773.00	Avg. Total ROP:	65.79	Mud Data										
Total Rotary Drilled:	521.00	Avg. Rotary ROP:	140.81	Type	Water Base			PV	15	SOLID	9			
Total Drilled Sliding:	252.00	Avg. Slide ROP:	31.30	Weight	9.6	GAS	0	YP	14	BHT°	180			
Slide Hours:	8.05	Percent Rotary:	67.40	Viscosity	45	SAND	0	PH	7	Flow T°	0			
Below Rotary Hrs.	24.00	Percent Slide:	32.60	Chlorides	1130	WL	11			Oil %	0			
PERSONNEL				CASING				BHA						
Lead Directional :	David Cathey			Size	Lb/ft	Set Depth		BHA # 2:7 7/8" Hughes HCD 405Z, 6 1/4" 7/8" 4.8 Stg 1.83 ABH, 6 9/16" FLT Sub, 6 1/8" NMPC, 6 1/2" UBHO, 6 3/16" NMDC, 5 15/16" NMDC, 18 Jts 4 1/2" HWDP, 4 1/2" Drill Pipe,						
Second Directional :	Mike Simpson & Coty Jeane			4 1/2	11.6	0								
MWD Operator1	Cody Hart			8 5/8	36	773								
MWD Operator2				Signature:										
Directional Company:	MS Energy													
Geologist:														
Company Man:	Eric Geiger											Daily Cost	\$7,500.00	
Incl. In:	17.2	Azm. In:	144.1	Incl. Out:	14.6	Azm. Out:	123.3	Cummulative Cost:	\$39,235.00					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
31-Aug-11	00:00	00:15	0.25	5925	5933	Sliding	Sliding - (WOB:10;GPM :419;TFO:0)
31-Aug-11	00:15	00:20	0.08	5933	5933	Circulating	Work Tight Pipe
31-Aug-11	00:20	00:31	0.18	5933	5941	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	00:31	00:34	0.05	5941	5941	Survey & Conn.	Conn.
31-Aug-11	00:34	00:49	0.25	5941	5972	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	00:49	01:12	0.38	5972	5972	Survey & Conn.	Survey & Conn @ 5911' - 17.2 Inc - 144.1 Azm
31-Aug-11	01:12	01:25	0.22	5972	5982	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	01:25	01:45	0.33	5982	6003	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	01:45	01:50	0.08	6003	6003	Survey & Conn.	Conn.
31-Aug-11	01:50	01:57	0.12	6003	6013	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	01:57	02:22	0.42	6013	6035	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	02:22	02:30	0.13	6035	6035	Survey & Conn.	Conn.
31-Aug-11	02:30	02:37	0.12	6035	6066	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	02:37	03:00	0.38	6066	6066	Rig Service-Inhole	Rig Service-Inhole
31-Aug-11	03:00	03:05	0.08	6066	6066	Survey & Conn.	Survey & Conn@6005- 17.0 Inc- 144.80 Azm.
31-Aug-11	03:05	03:10	0.08	6066	6076	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	03:10	03:31	0.35	6076	6098	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
31-Aug-11	03:31	03:35	0.07	6098	6098	Survey & Conn.	Conn.
31-Aug-11	03:35	03:44	0.15	6098	6108	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	03:44	04:08	0.40	6108	6130	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	04:08	04:14	0.10	6130	6130	Survey & Conn.	Conn.
31-Aug-11	04:14	04:25	0.18	6130	6161	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	04:25	04:35	0.17	6161	6161	Survey & Conn.	Survey & Conn.@6100- 18.7 Inc- 134.5 Azm
31-Aug-11	04:35	04:42	0.12	6161	6176	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	04:42	05:04	0.37	6176	6193	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	05:04	05:08	0.07	6193	6193	Survey & Conn.	Conn.
31-Aug-11	05:08	05:18	0.17	6193	6224	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	05:18	05:22	0.07	6224	6224	Survey & Conn.	Conn.
31-Aug-11	05:22	05:33	0.18	6224	6256	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	05:33	05:42	0.15	6256	6256	Survey & Conn.	Survey & Conn.@6195- 20.3 Inc- 127.9 Azm
31-Aug-11	05:42	05:48	0.10	6256	6271	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	05:48	06:06	0.30	6271	6288	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	06:06	06:16	0.17	6288	6288	Survey & Conn.	Conn.
31-Aug-11	06:16	06:26	0.17	6288	6318	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	06:26	06:30	0.07	6318	6318	Survey & Conn.	Conn.
31-Aug-11	06:30	06:38	0.13	6318	6350	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	06:38	06:48	0.17	6350	6350	Survey & Conn.	Survey & Conn.@6289- 19.2 Inc- 125.9 Azm
31-Aug-11	06:48	07:45	0.95	6350	6370	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	07:45	07:54	0.15	6370	6370	Survey & Conn.	Conn.
31-Aug-11	07:54	08:03	0.15	6370	6413	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	08:03	08:12	0.15	6413	6413	Survey & Conn.	Conn.
31-Aug-11	08:12	08:21	0.15	6413	6423	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	08:21	09:15	0.90	6423	6444	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	09:15	09:34	0.32	6444	6444	Rig Service-Inhole	Rig Service-Inhole
31-Aug-11	09:34	09:42	0.13	6444	6444	Survey & Conn.	Survey & Conn.@6383- 16.9 Inc- 123.0 Azm
31-Aug-11	09:42	09:55	0.22	6444	6476	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	09:55	10:02	0.12	6476	6476	Survey & Conn.	Conn.
31-Aug-11	10:02	10:08	0.10	6476	6488	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	10:08	11:10	1.03	6488	6495	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	11:10	11:17	0.12	6495	6507	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	11:17	11:24	0.12	6507	6507	Survey & Conn.	Conn.
31-Aug-11	11:24	11:28	0.07	6507	6517	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	11:28	13:05	1.62	6517	6539	Sliding	Sliding - (WOB:10;GPM :419;TFO:330)
31-Aug-11	13:05	13:10	0.08	6539	6539	Work Pipe	Work Pipe Tight Hole.
31-Aug-11	13:10	13:17	0.12	6539	6539	Survey & Conn.	Survey & Conn @ 6478 - 17.2 Inc - 125.1 Azm'
31-Aug-11	13:17	13:32	0.25	6539	6570	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	13:32	13:40	0.13	6570	6570	Survey & Conn.	Conn.
31-Aug-11	13:40	13:55	0.25	6570	6602	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	13:55	14:04	0.15	6602	6602	Survey & Conn.	Conn.
31-Aug-11	14:04	14:25	0.35	6602	6626	Sliding	Sliding - (WOB:10;GPM :419;TFO:350)
31-Aug-11	14:25	14:30	0.08	6626	6633	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	14:30	14:37	0.12	6633	6633	Survey & Conn.	Survey & Conn @ 6572' - 13.7 Inc - 122.4 Azm
31-Aug-11	14:37	14:49	0.20	6633	6664	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
31-Aug-11	14:49	14:57	0.13	6664	6664	Survey & Conn.	Conn.
31-Aug-11	14:57	15:00	0.05	6664	6666	Sliding	Attempt To Slide, Motor Stalling & Hanging Up.
31-Aug-11	15:00	16:53	1.88	6666	6666	Circulating	Circulating
31-Aug-11	16:53	18:03	1.17	6666	6666	Short Trip	Short Trip T/4782'
31-Aug-11	18:03	18:44	0.68	6666	6667	TIH	TIH T/6649'.
31-Aug-11	18:44	19:11	0.45	6667	6667	Reaming	Make Up Kelly & Wash & Ream Down T/6667'.
31-Aug-11	19:11	19:37	0.43	6667	6667	Circulating	Circulating- Clean and Condition
31-Aug-11	19:37	19:45	0.13	6667	6680	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
31-Aug-11	19:45	19:57	0.20	6680	6696	Sliding	Sliding - (WOB:10;GPM :419;TFO:350)
31-Aug-11	19:57	20:03	0.10	6696	6696	Survey & Conn.	Conn.
31-Aug-11	20:03	20:24	0.35	6696	6699	Sliding	Sliding - (WOB:10;GPM :419;TFO:350)
31-Aug-11	20:24	20:45	0.35	6699	6699	Pipe Stuck	Work Pipe, Pull Free
31-Aug-11	20:45	21:51	1.10	6699	6699	Reaming	Ream to Bottom, Hung Up.
31-Aug-11	21:51	22:33	0.70	6699	6699	Circulating	Circulating- Clean and Condition.
31-Aug-11	22:33	24:00	1.45	6699	6699	POOH	POOH



JOB NO.:	DDOK-110428	Report Time:	2400	6 of 7
Company:	St. James	API JOB #	05-123-34146-00	
LOCATION:	Weld County	WORK ORDER#	MS#110463RR	
RIG NAME:	Cade 22	FIELD:	Wattenbauge	
STATE:	Colorado	Township:	6N	
COUNTY:	Weld County	SECTRANGE:	24	64W
WELL NAME:	Larson Farms 6-24			

From Thursday, September 01, 2011 at 0000 to Thursday, September 01, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters									
Start Depth	6699.00	Rotary Hours	4.18	WOB	12	Pick UP	160	Slack Off	100	SPM			
End Depth	7292.00	Circulating Hours	1.77	RAB	130	SPP	1600	FlowRate	419 - 419	100			
Total Drilled:	593.00	Avg. Total ROP:	51.27	Mud Data									
Total Rotary Drilled:	306.00	Avg. Rotary ROP:	73.15	Type	Water Base			PV	15	SOLID	9.5		
Total Drilled Sliding:	287.00	Avg. Slide ROP:	38.87	Weight	9.6	GAS	0	YP	14	BHT°	180		
Slide Hours:	7.38	Percent Rotary:	51.60	Viscosity	45	SAND	0	PH	7	Flow T°	0		
Below Rotary Hrs.	24.00	Percent Slide:	48.40	Chlorides	1130	WL	11.2			Oil %	0		
PERSONNEL				CASING				BHA					
Lead Directional :	David Cathey			Size	Lb/ft	Set Depth		BHA # 3:7 7/8" Hughes HCD 405Z, 6 1/4" 7/8 - 4.8 Stg 1.83 ABH, 6 9/16" FLT Sub, 6 1/8" NMPC, 6 1/2" UBHO, 6 3/16" NMDC, 5 15/16" NMDC, 18 Jts 4 1/2" HWDP, 4 1/2" Drill Pipe,					
Second Directional :	Mike Simpson & Coty Jeane			4 1/2	11.6	0							
MWD Operator1	Cody Hart			8 5/8	36	773							
MWD Operator2				Signature:									
Directional Company:	MS Energy												
Geologist:													
Company Man:	Junior Loya												
Incl. In:	14.6	Azm. In:	123.3	Incl. Out:	13	Azm. Out:	134.1	Daily Cost	\$8,885.00				
								Cummulative Cost:	\$48,120.00				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
1-Sep-11	00:00	02:05	2.08	6699	6699	POOH	POOH
1-Sep-11	02:05	04:30	2.42	6699	6699	Change BHA	Change BHA
1-Sep-11	04:30	04:38	0.13	6699	6699	Circulating	Circulating MWD Surface Test
1-Sep-11	04:38	07:42	3.07	6699	6699	TIH	TIH T/6536'.
1-Sep-11	07:42	07:50	0.13	6699	6699	Reaming	Pick Up Kelly & Wash & Ream Down T/6699'
1-Sep-11	07:50	07:55	0.08	6699	6699	Circulating	Attempt To Rotate, No Diff With 25k Wob
1-Sep-11	07:55	08:00	0.08	6699	6699	Circulating	Pick Up & Zero Out Diff Pressure & Weight On Bit And Tag Bottom.
1-Sep-11	08:00	09:04	1.07	6699	6699	Circulating	Mix & Pump Nut Plug Sweep & Fan Bit On Bottom.
1-Sep-11	09:04	09:13	0.15	6699	6727	Drilling	Drilling - (WOB:15;GPM :419;RPM:70)
1-Sep-11	09:13	09:22	0.15	6727	6727	Survey & Conn.	Survey & Conn @ 6666' - 12.6 Inc - 116.3 Azm
1-Sep-11	09:22	10:01	0.65	6727	6759	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	10:01	10:11	0.17	6759	6759	Survey & Conn.	Conn.
1-Sep-11	10:11	10:33	0.37	6759	6790	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	10:33	10:43	0.17	6790	6790	Survey & Conn.	Conn.
1-Sep-11	10:43	11:00	0.28	6790	6810	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	11:00	11:07	0.12	6810	6822	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	11:07	11:15	0.13	6822	6822	Survey & Conn.	Survey & Conn @ 6761' - 12.9 Inc - 120.5 Azm

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
1-Sep-11	11:15	11:48	0.55	6822	6842	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	11:48	11:54	0.10	6842	6853	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	11:54	12:10	0.27	6853	6853	Rig Service-Inhole	Rig Service-Inhole
1-Sep-11	12:10	12:17	0.12	6853	6853	Survey & Conn.	Conn.
1-Sep-11	12:17	12:31	0.23	6853	6863	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	12:31	12:42	0.18	6863	6885	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	12:42	12:52	0.17	6885	6885	Survey & Conn.	Conn.
1-Sep-11	12:52	13:27	0.58	6885	6905	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	13:27	13:35	0.13	6905	6916	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	13:35	13:45	0.17	6916	6916	Survey & Conn.	Survey & Conn @ 6899' - 11.2 Inc - 124.0 Azm
1-Sep-11	13:45	13:54	0.15	6916	6926	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	13:54	14:36	0.70	6926	6939	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	14:36	14:42	0.10	6939	6947	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	14:42	14:51	0.15	6947	6947	Survey & Conn.	Conn.
1-Sep-11	14:51	15:08	0.28	6947	6962	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	15:08	15:37	0.48	6962	6977	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	15:37	15:45	0.13	6977	6977	Survey & Conn.	Conn.
1-Sep-11	15:45	16:00	0.25	6977	6988	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	16:00	16:23	0.38	6988	7008	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	16:23	16:33	0.17	7008	7008	Survey & Conn.	Survey & Conn 6974' - 10.5 Inc - 130.6 Azm
1-Sep-11	16:33	16:37	0.07	7008	7018	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	16:37	17:02	0.42	7018	7040	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	17:02	17:10	0.13	7040	7040	Survey & Conn.	Conn.
1-Sep-11	17:10	17:18	0.13	7040	7050	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	17:18	17:40	0.37	7050	7071	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	17:40	17:44	0.07	7071	7071	Survey & Conn.	Conn.
1-Sep-11	17:44	17:58	0.23	7071	7081	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	17:58	18:24	0.43	7081	7103	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	18:24	18:34	0.17	7103	7103	Survey & Conn.	Survey & Conn. 7042'-10.1 Inc 133.4 Azm
1-Sep-11	18:34	18:58	0.40	7103	7118	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	18:58	19:38	0.67	7118	7134	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	19:38	19:55	0.28	7134	7134	Survey & Conn.	Conn.
1-Sep-11	19:55	20:10	0.25	7134	7149	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	20:10	20:40	0.50	7149	7166	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	20:40	20:57	0.28	7166	7166	Rig repair	Repair Kelly Spinner
1-Sep-11	20:57	21:00	0.05	7166	7166	Survey & Conn.	Conn.
1-Sep-11	21:00	21:27	0.45	7166	7197	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	21:27	21:37	0.17	7197	7197	Survey & Conn.	Survey & Conn. 7136'- 12.2 Inc 132.9 Azm
1-Sep-11	21:37	21:50	0.22	7197	7207	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	21:50	22:17	0.45	7207	7229	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	22:17	22:29	0.20	7229	7229	Work Pipe	Work Pipe, Sticking
1-Sep-11	22:29	22:34	0.08	7229	7229	Survey & Conn.	Conn.
1-Sep-11	22:34	22:49	0.25	7229	7244	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
1-Sep-11	22:49	23:30	0.68	7244	7261	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
1-Sep-11	23:30	23:39	0.15	7261	7261	Survey & Conn.	Conn.
1-Sep-11	23:39	24:00	0.35	7261	7292	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)



JOB NO.:	DDOK-110428	Report Time:	2400	7 of 7
Company:	St. James	API JOB #	05-123-34146-00	
LOCATION:	Weld County	WORK ORDER#	MS#110463RR	
RIG NAME:	Cade 22	FIELD:	Wattenbauge	
STATE:	Colorado	Township:	6N	
COUNTY:	Weld County	SECTRANGE:	24	64W
WELL NAME:	Larson Farms 6-24			

From Friday, September 02, 2011 at 0000 to Friday, September 02, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters										
Start Depth	7292.00	Rotary Hours	2.67	WOB	12	Pick UP	160	Slack Off	100	SPM				
End Depth	7569.00	Circulating Hours	2.43	RAB	130	SPP	1600	FlowRate	419 - 419	100				
Total Drilled:	277.00	Avg. Total ROP:	55.40	Mud Data										
Total Rotary Drilled:	214.00	Avg. Rotary ROP:	80.25	Type	Water Base			PV	15	SOLID	9.5			
Total Drilled Sliding:	63.00	Avg. Slide ROP:	27.00	Weight	9.6	GAS	0	YP	14	BHT°	190			
Slide Hours:	2.33	Percent Rotary:	77.26	Viscosity	45	SAND	0	PH	7	Flow T°	0			
Below Rotary Hrs.	11.47	Percent Slide:	22.74	Chlorides	1130	WL	11.2			Oil %	0			
PERSONNEL				CASING				BHA						
Lead Directional :	David Cathey			Size	Lb/ft	Set Depth		BHA # 4						
Second Directional :	Mike Simpson & Coty Jeane			4 1/2	11.6	0								
MWD Operator1	Cody Hart			8 5/8	36	773								
MWD Operator2				Signature:										
Directional Company:	MS Energy													
Geologist:														
Company Man:	Junior Loya											Daily Cost	\$9,585.00	
Incl. In:	13	Azm. In:	134.1	Incl. Out:	10	Azm. Out:	112.3	Cummulative Cost:	\$57,705.00					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
2-Sep-11	00:00	00:09	0.15	7292	7292	Survey & Conn.	Survey & Conn.7231' 13.0 Inc 134.1 Azm
2-Sep-11	00:09	00:20	0.18	7292	7307	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	00:20	00:47	0.45	7307	7324	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
2-Sep-11	00:47	00:56	0.15	7324	7324	Survey & Conn.	Conn.
2-Sep-11	00:56	01:10	0.23	7324	7339	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	01:10	01:36	0.43	7339	7356	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
2-Sep-11	01:36	01:42	0.10	7356	7356	Reaming	Sliding - (WOB:15;GPM :419;TFO:0)
2-Sep-11	01:42	01:52	0.17	7356	7356	Survey & Conn.	Conn.
2-Sep-11	01:52	02:14	0.37	7356	7388	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	02:14	02:24	0.17	7388	7388	Survey & Conn.	Survey & Conn. 7322' 12.1 Inc 126.6 Azm
2-Sep-11	02:24	02:45	0.35	7388	7420	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	02:45	02:55	0.17	7420	7420	Survey & Conn.	Conn.
2-Sep-11	02:55	03:46	0.85	7420	7433	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)
2-Sep-11	03:46	03:58	0.20	7433	7452	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	03:58	04:06	0.13	7452	7452	Survey & Conn.	Conn.
2-Sep-11	04:06	04:23	0.28	7452	7467	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	04:23	04:59	0.60	7467	7483	Sliding	Sliding - (WOB:15;GPM :419;TFO:0)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
2-Sep-11	04:59	05:08	0.15	7483	7483	Survey & Conn.	Survey & Conn.7427'- 11.9 Inc 116.9 Azm
2-Sep-11	05:08	05:38	0.50	7483	7515	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	05:38	05:41	0.05	7515	7515	Survey & Conn.	Conn.
2-Sep-11	05:41	06:01	0.33	7515	7547	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	06:01	06:03	0.03	7547	7547	Survey & Conn.	Conn.
2-Sep-11	06:03	06:16	0.22	7547	7569	Drilling	Drilling - (WOB:12;GPM :419;RPM:70)
2-Sep-11	06:16	06:26	0.17	7569	7569	Survey & Conn.	Survey@7508- 10 Inc- 112.3 Azm
2-Sep-11	06:26	06:56	0.50	7569	7569	Circulating	Circulating
2-Sep-11	06:56	08:00	1.07	7569	7569	Short Trip	Short Trip T/4707'
2-Sep-11	08:00	09:00	1.00	7569	7569	TIH	TIH T/7532'
2-Sep-11	09:00	10:50	1.83	7569	7569	Circulating	Pick Up Kelly & Wash & Ream T/7569' & Circulat.
2-Sep-11	10:50	16:30	5.67	7569	7569	L/D DP	POOH L/D DP
2-Sep-11	16:30	17:08	0.63	7569	7569	Change BHA	Lay Down BHA #3
2-Sep-11	17:08	24:00	6.87	7569	7569	Standby	Wire Line Logg & Run CSG & Cement.

BHA # 1



JOB NO.: DDOK-110428 **Work Order:** MS#110463RR **FIELD:** Wattenbauge
Company: St. James **Township:** 6N
LOCATION: Weld County **SECT. RANGE:** 24 64W
RIG NAME: Cade 22 **Lead DD:** David Cathey
STATE: Colorado **Co. Man:** Eric Geiger
COUNTY: Weld County **BHA TYPE:** Steerable Assembly
WELL NAME: Larson Farms 6-24 **BHA WT:** 23750 **Wt @ Jars:** N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 27-Aug-11 @ 20:55	XL Performance	SO/PU: 0 - 40 / 0-40
Date Out: 28-Aug-11 @ 13:30	MFG.: Mpact	Rot Strg Wt: 0-40
Hrs In Hole: 16.58	Pad OD: .25	WOB: 5 - 20
Start Depth: 136.00	NB Stab: 8.625	TORQ: 0 - 0
End Depth: 783.00	Bit to Bend: 5.98	SPP: 900 - 1000
Total Drilled: 611.00	Bent Hsg/Sub°: 1.83 /	Motor RPM: 98 - 117
Avg. Total ROP: 103.27	Lobe/Stage: 7/8 / 6.4	Rotary RPM: 0 - 180
Circ Hrs: Tot/Only 7.15 / 1.23	Rev/GAL: 0.28	Flow Rate: 351 - 419
Percent Slide: 73.65	Rotor Jet: 0	Avg Diff: 350
Percent Hrs: 84.79	Prop BUR: 5.7	Stall Pres.: 1500
Slide Hours: 5.02	Act BUR: 2	Off Bot Pres.: 1000
Total Sliding: 450.00		
Avg. Slide ROP: 89.70		
Percent Rotary: 26.35		
Percent Hrs: 15.21		
Rotary Hours: .90		
Total Rotary: 161.00		
Avg. Rotary ROP: 178.89		
Reason POOH: TD		

Mud Data		Bit Record	
Type Water		WLS / 12 1/4" WLS R193M Jets 3/22	
WT: 8.7	GAS: 0	Run #: 1	
Vis: 45	PV: 0	Type Bit: ROCK	
WL: 0	PH: 0	IADC#: TFA: 1.113	
SOL: 0	SAND: 0	JETS: 3-22	
Oil %: 0	T °: 0	Bit Drop: 114 PSI @ 419 GPM	
Chlor: 0	YP: 0	Cond.: 1-1-NO-A-E-I-NO-TD	

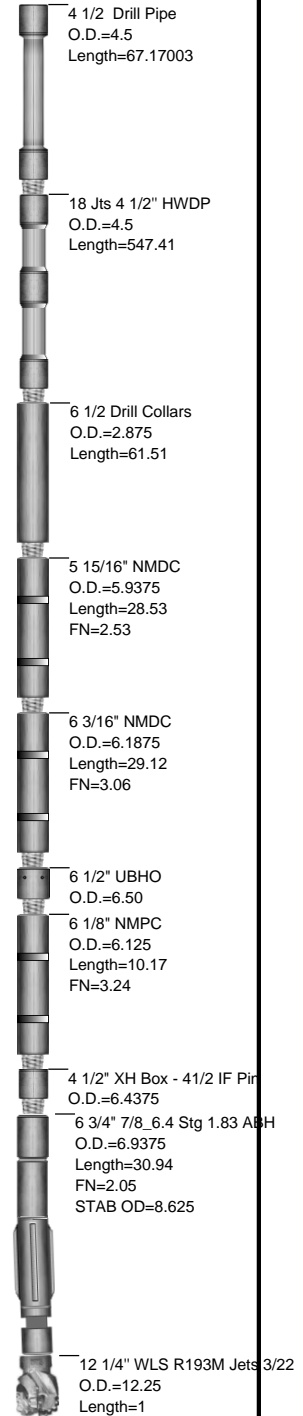
MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 62	Last Casing	O.D. 8 5/8
	GYRO: 0	DNSC: 0	Sonic: 0	Shoe @: 773	Hanger @:

INC IN: .6 **INC OUT:** 5.9 **AZM IN:** 301.46 **AZM OUT:** 196.30

D & I: 62'
 Rev/Gal: .28
 Bit - Bend: 5.98'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
12 1/4" WLS R193M Jets 3/22	22020406		12.25	1.00	1.00	6 5/8 REGP	WLS
6 3/4" 7/8 .6.4 Stg 1.83 ABH	MSD67D1177S		6.9375	30.94	31.94	4 1/2 IFB	MS Energy
4 1/2" XH Box - 41/2 IF Pin	SD10238	2.8125	6.4375	3.66	35.60	4 1/2 XHB	Stabil Drill
6 1/8" NMPC	SD38939	2.8125	6.125	10.17	45.77	4 1/2 XHB	Stabil Drill
6 1/2" UBHO	6548	3.00	6.50	3.49	49.26	4 1/2 XHB	MS Energy
6 3/16" NMDC	SD41167	2.875	6.1875	29.12	78.38	4 1/2 XHB	Stabil Drill
5 15/16" NMDC	SD39672	2.875	5.9375	28.53	106.91	4 1/2 XHB	Stabil Drill
6 1/2 Drill Collars	Rig	6.25	2.875	61.51	168.42	4 1/2 XHB	
18 Jts 4 1/2" HWDP	Rig	2.75	4.5	547.41	715.83	4 1/2 XHB	Rig
4 1/2 Drill Pipe	Rig	3.64	4.5	67.17	783.00	X.H.B	Rig



BHA # 2



JOB NO.: DDOK-110428 **Work Order:** MS#110463RR **FIELD:** Wattenbauge
Company: St. James **Township:** 6N
LOCATION: Weld County **SECT. RANGE:** 24 64W
RIG NAME: Cade 22 **Lead DD:** David Cathey
STATE: Colorado **Co. Man:** Junior Loya
COUNTY: Weld County **BHA TYPE:** Steerable Assembly
WELL NAME: Larson Farms 6-24 **BHA WT:** 139799 **Wt @ Jars:** N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 29-Aug-11 @ 00:00	XL Performance	SO/PU: 40 - 100 / 40-160
Date Out: 01-Sep-11 @ 04:30	MFG.: Mpact	Rot Strg Wt: 40-130
Hrs In Hole: 76.50	Pad OD: .25	WOB: 8 - 20
Start Depth: 783.00	NB Stab: 0	TORQ: 2 - 2
End Depth: 6699.00	Bit to Bend: 5.7	SPP: 1000 - 1500
Total Drilled: 5915.00	Bent Hsg/Sub°: 1.83 /	Motor RPM: 142
Avg. Total ROP: 140.89	Lobe/Stage: 7/8 / 4.8	Rotary RPM: 70 - 70
Circ Hrs: Tot/Only 49.32 / 7.33	Rev/GAL: 0.34	Flow Rate: 351 - 419
Percent Slide: 21.74	Rotor Jet: 0	Avg Diff: 500
Percent Hrs: 49.62	Prop BUR: 10	Stall Pres.: 3000
Slide Hours: 20.83	Act BUR: 13	Off Bot Pres.: 1350
Total Sliding: 1286.00		
Avg. Slide ROP: 61.73		
Percent Rotary: 78.26		
Percent Hrs: 50.38		
Rotary Hours: 21.15		
Total Rotary: 4629.00		
Avg. Rotary ROP: 218.87		
Reason POOH: HP		

Mud Data		Bit Record	
Type Water Base		BAKER / 7 7/8" Hughes HCD 405Z	
WT: 9.6	GAS: 0	Run #: 2RR1	
Vis: 45	PV: 15	Type Bit: PDC	
WL: 11.2	PH: 7	IADC#:	TFA: 1.207
SOL: 9.5	SAND: 0	JETS: 7-15	
Oil %: 0	T °: 180	Bit Drop: 107 PSI @ 419 GPM	
Chlor: 1130	YP: 14	Cond.: 3--2-WT-A-X-I-NO-HP	

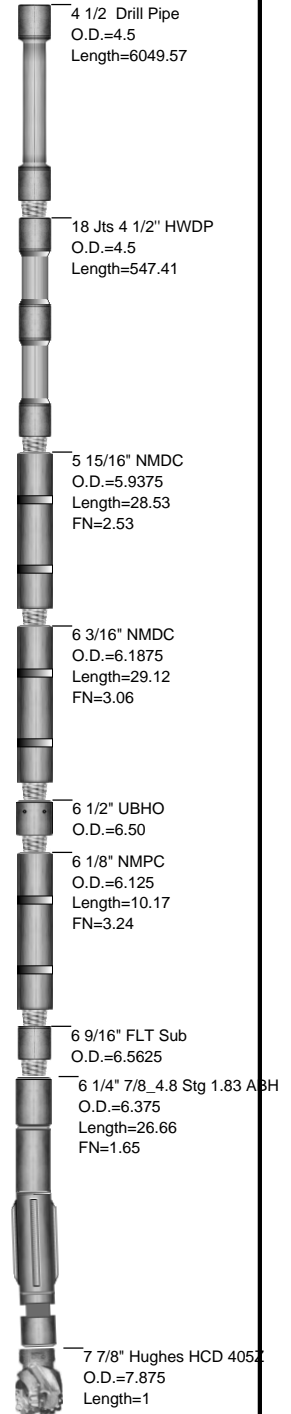
MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 57	Last Casing	O.D.
	GYRO: 0	DNSC: 0	Sonic: 0	Shoe @:	Hanger @:

INC IN: 6.9 **INC OUT:** .0 **AZM IN:** 190.78 **AZM OUT:** .00

D & I: 57'
Rev/Gal: .28
Bit - Bend: 5.98'

BHA Detail

Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
7 7/8" Hughes HCD 405Z	7128601		7.875	1.00	1.00	4 1/2 REGP	BAKER
6 1/4" 7/8_4.8 Stg 1.83 ABH	MSD62D246S		6.375	26.66	27.66	4 1/2 XHB	MS Energy
6 9/16" FLT Sub	SD105679	2.9375	6.5625	3.05	30.71	4 1/2 XHB	Stabil Drill
6 1/8" NMPC	SD38939	2.8125	6.125	10.17	40.88	4 1/2 XHB	Stabil Drill
6 1/2" UBHO	6548	3.00	6.50	3.49	44.37	4 1/2 XHB	MS Energy
6 3/16" NMDC	SD41167	2.875	6.1875	29.12	73.49	4 1/2 XHB	Stabil Drill
5 15/16" NMDC	SD39672	2.875	5.9375	28.53	102.02	4 1/2 XHB	Stabil Drill
18 Jts 4 1/2" HWDP	Rig	2.75	4.5	547.41	649.43	4 1/2 XHB	Rig
4 1/2" Drill Pipe	Rig	3.64	4.5	6,049.57	6699.00	X.H.B	Rig



BHA # 3



JOB NO.: DDOK-110428 **Work Order:** MS#110463RR **FIELD:** Wattenbauge
Company: St. James **Township:** 6N
LOCATION: Weld County **SECT. RANGE:** 24 64W
RIG NAME: Cade 22 **Lead DD:** David Cathey
STATE: Colorado **Co. Man:** Junior Loya
COUNTY: Weld County **BHA TYPE:** Steerable Assembly
WELL NAME: Larson Farms 6-24 **BHA WT:** 156242 **Wt @ Jars:** N/A

Time and Depths	MOTOR DATA	Drilling Parameters
Date In: 01-Sep-11 @ 04:30	XL Performance	SO/PU: 100 - 100 / 160-160
Date Out: 02-Sep-11 @ 17:08	MFG.: Mpack	Rot Strg Wt: 130-130
Hrs In Hole: 30.97	Pad OD: .25	WOB: 12 - 25
Start Depth: 6699.00	NB Stab: 0	TORQ: 2 - 2
End Depth: 7569.00	Bit to Bend: 7.05	SPP: 1500 - 1600
Total Drilled: 870.00	Bent Hsg/Sub°: 1.83 /	Motor RPM: 142
Avg. Total ROP: 52.52	Lobe/Stage: 7/8 / 4.8	Rotary RPM: 70 - 70
Circ Hrs: Tot/Only 20.77 / 4.20	Rev/GAL: 0.34	Flow Rate: 419 - 419
Percent Slide: 40.23	Rotor Jet: 0	Avg Diff: 500
Percent Hrs: 58.65	Prop BUR: 6	Stall Pres.: 3000
Slide Hours: 9.72	Act BUR: 2	Off Bot Pres.: 1600
Total Sliding: 350.00		
Avg. Slide ROP: 36.02		
Percent Rotary: 59.77		
Percent Hrs: 41.35		
Rotary Hours: 6.85		
Total Rotary: 520.00		
Avg. Rotary ROP: 75.91		
Reason POOH: TD		

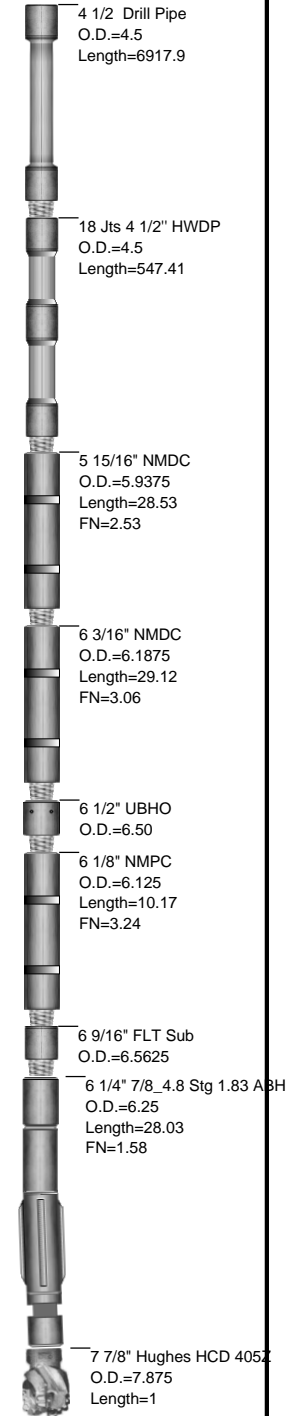
Mud Data		Bit Record	
Type Water Base		BAKER / 7 7/8" Hughes HCD 405Z	
WT: 9.6	GAS: 0	Run #: 3rr2	
Vis: 45	PV: 15	Type Bit: PDC	
WL: 11.2	PH: 7	IADC#:	TFA: 1.207
SOL: 9.5	SAND: 0	JETS: 7-15	
Oil %: 0	T °: 190	Bit Drop: 107 PSI @ 419 GPM	
Chlor: 1130	YP: 14	Cond.: 3-3-WT-3-X-I-PN-TD	

MWD Spacing	Gamma: 0	Restiv: 0	Sensor: 62	Last Casing	O.D.
	GYRO: 0	DNSC: 0	Sonic: 0	Shoe @:	Hanger @:

INC IN: 12.4 **INC OUT:** 10.0 **AZM IN:** 117.76 **AZM OUT:** 112.30

BHA Detail

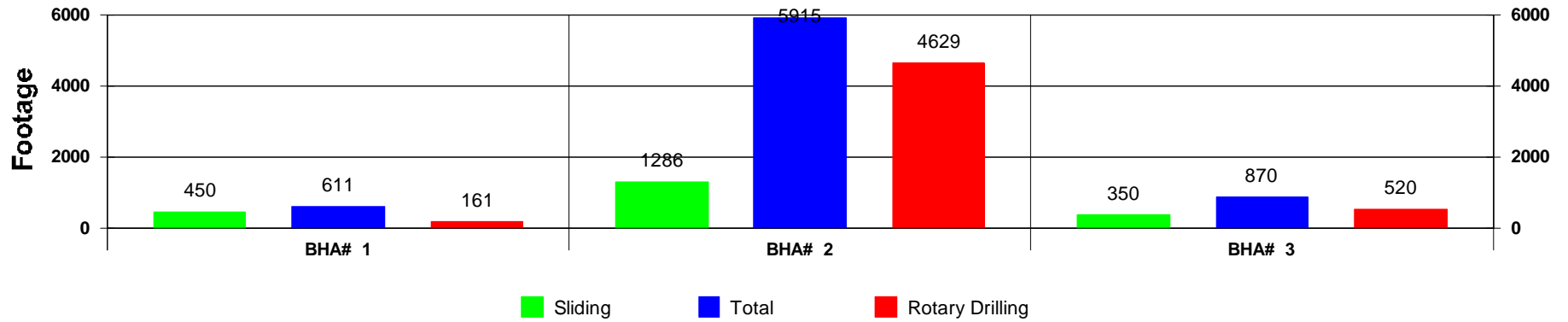
Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn	MFG.
7 7/8" Hughes HCD 405Z	7128601		7.875	1.00	1.00	4 1/2 REGP	BAKER
6 1/4" 7/8_4.8 Stg 1.83 ABH	MSD62D170H		6.25	28.03	29.03	4 1/2 XHB	Mpack
6 9/16" FLT Sub	SD105679	2.9375	6.5625	3.05	32.08	4 1/2 XHB	Stabil Drill
6 1/8" NMPC	SD38939	2.8125	6.125	10.17	42.25	4 1/2 XHB	Stabil Drill
6 1/2" UBHO	MS1	3.00	6.50	3.79	46.04	4 1/2 XHB	MS Energy
6 3/16" NMDC	SD41167	2.875	6.1875	29.12	75.16	4 1/2 XHB	Stabil Drill
5 15/16" NMDC	SD39672	2.875	5.9375	28.53	103.69	4 1/2 XHB	Stabil Drill
18 Jts 4 1/2" HWDP	Rig	2.75	4.5	547.41	651.10	4 1/2 XHB	Rig
4 1/2" Drill Pipe	Rig	3.64	4.5	6,917.90	7569.00	X.H.B	Rig



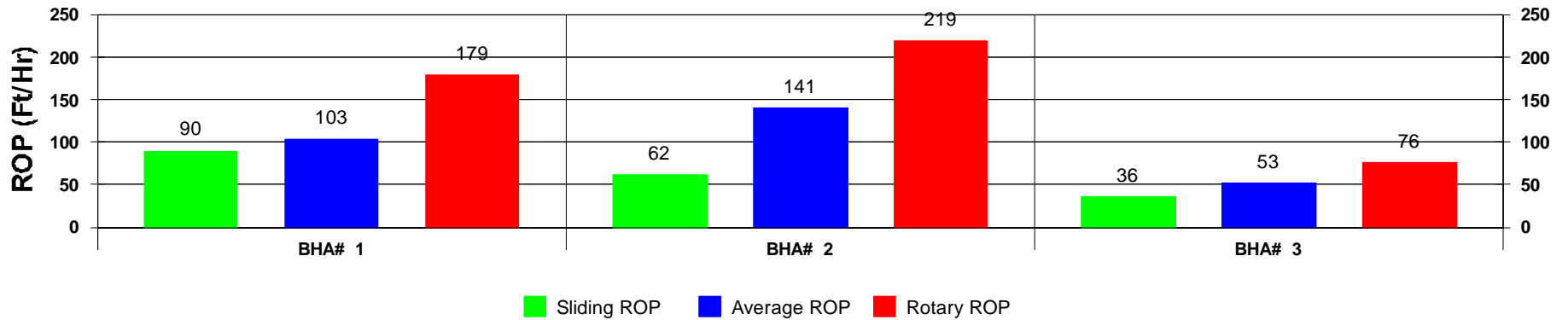


JOB NO.:	DDOK-110428	FIELD:	Wattenbauge	
Company:	St. James	Township:	6N	
LOCATION:	Weld County	SECTRANGE:	24	64W
RIG NAME:	Cade 22	COMMENT		
STATE:	Colorado			
COUNTY:	Weld County			
WELL NAME:	Larson Farms 6-24			

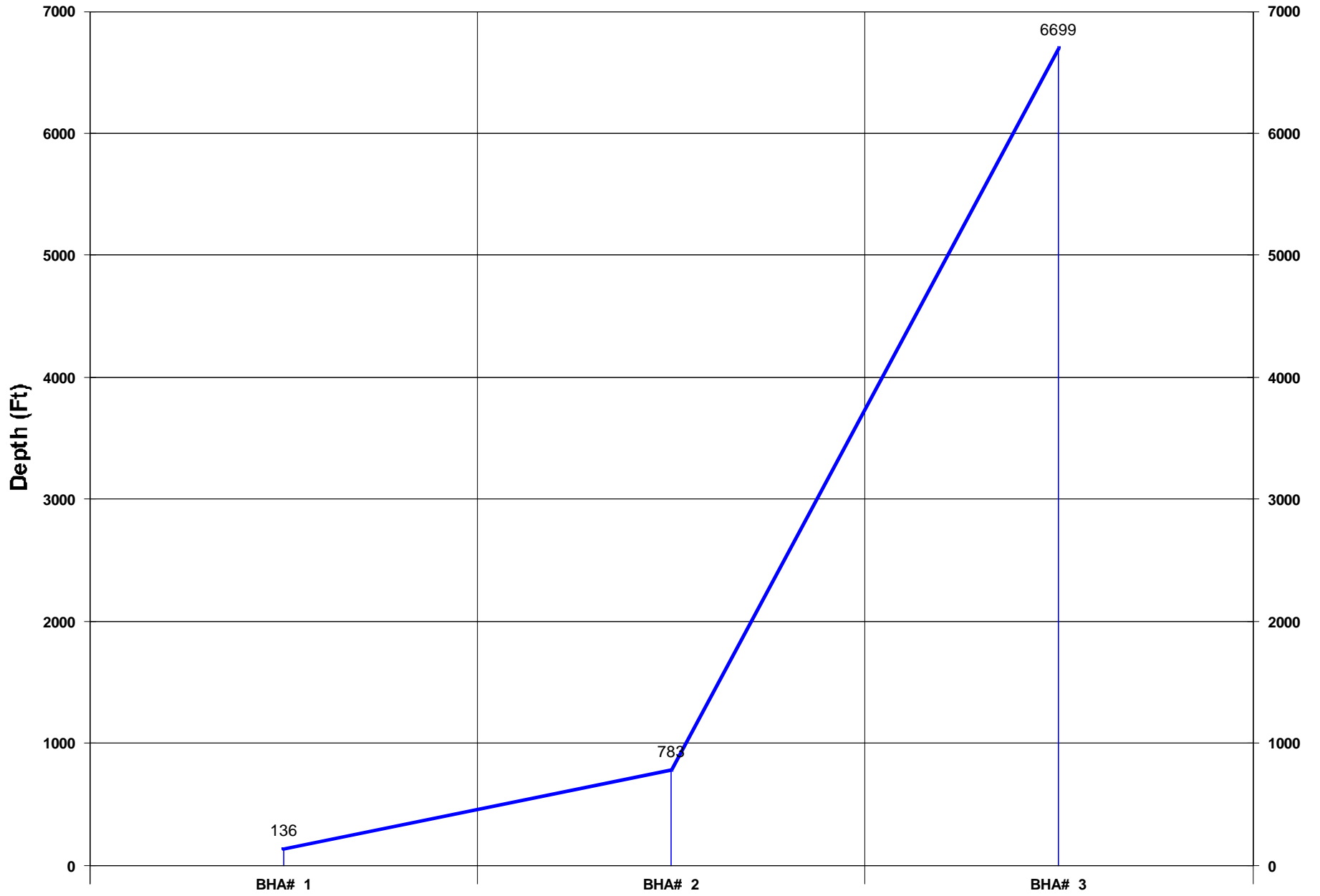
Footage Drilled with BHA



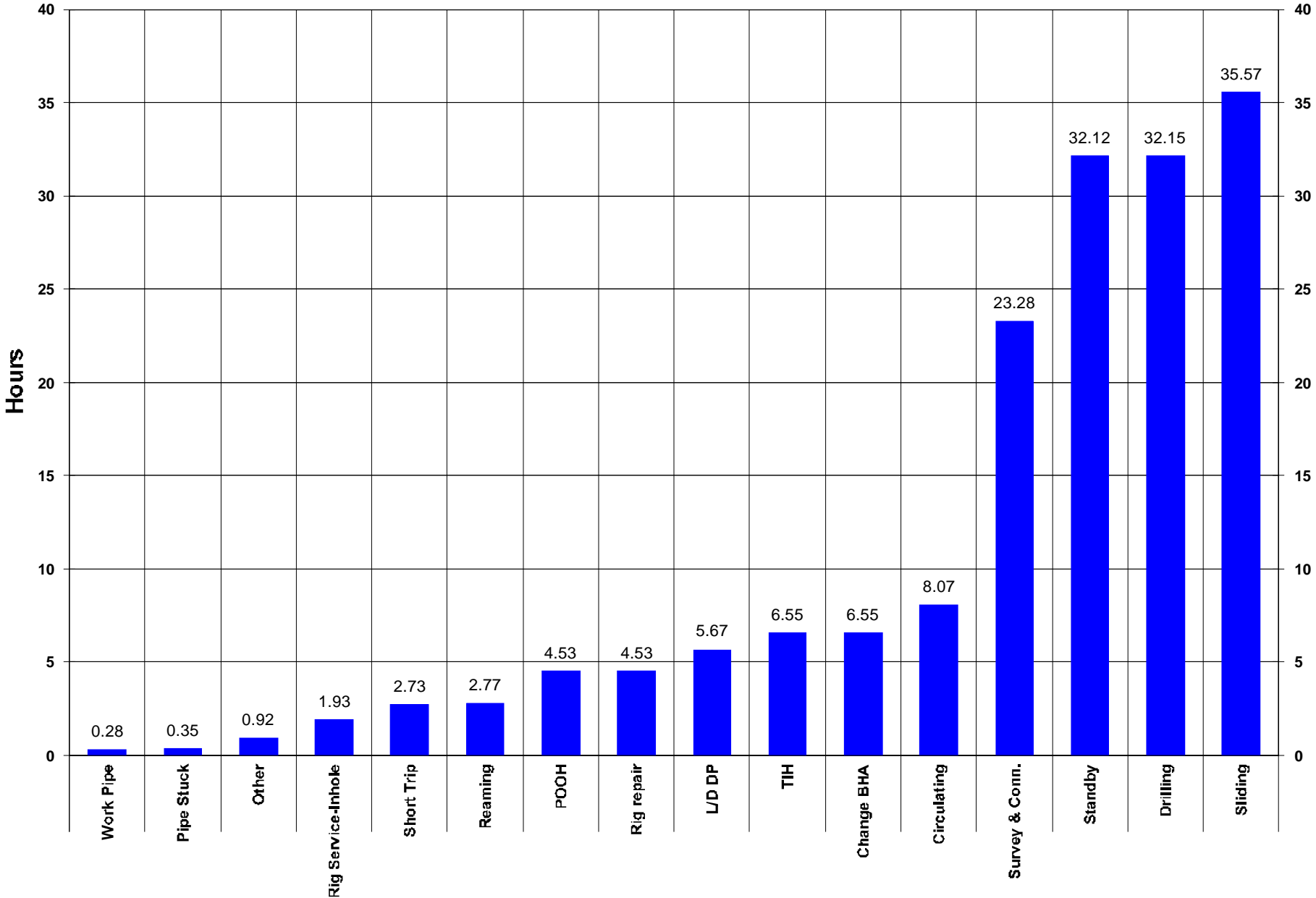
ROP vs BHA



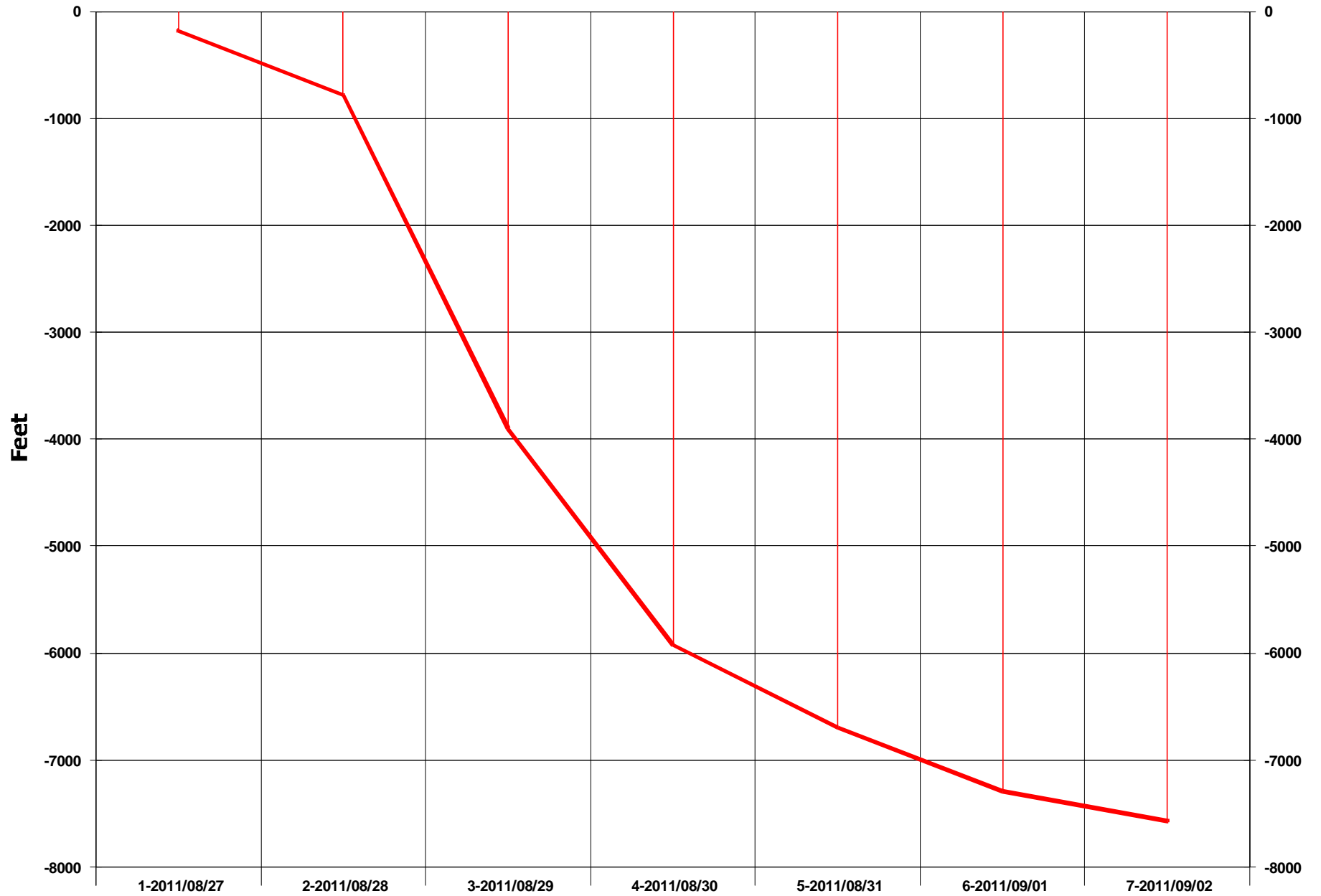
Depth vs BHA



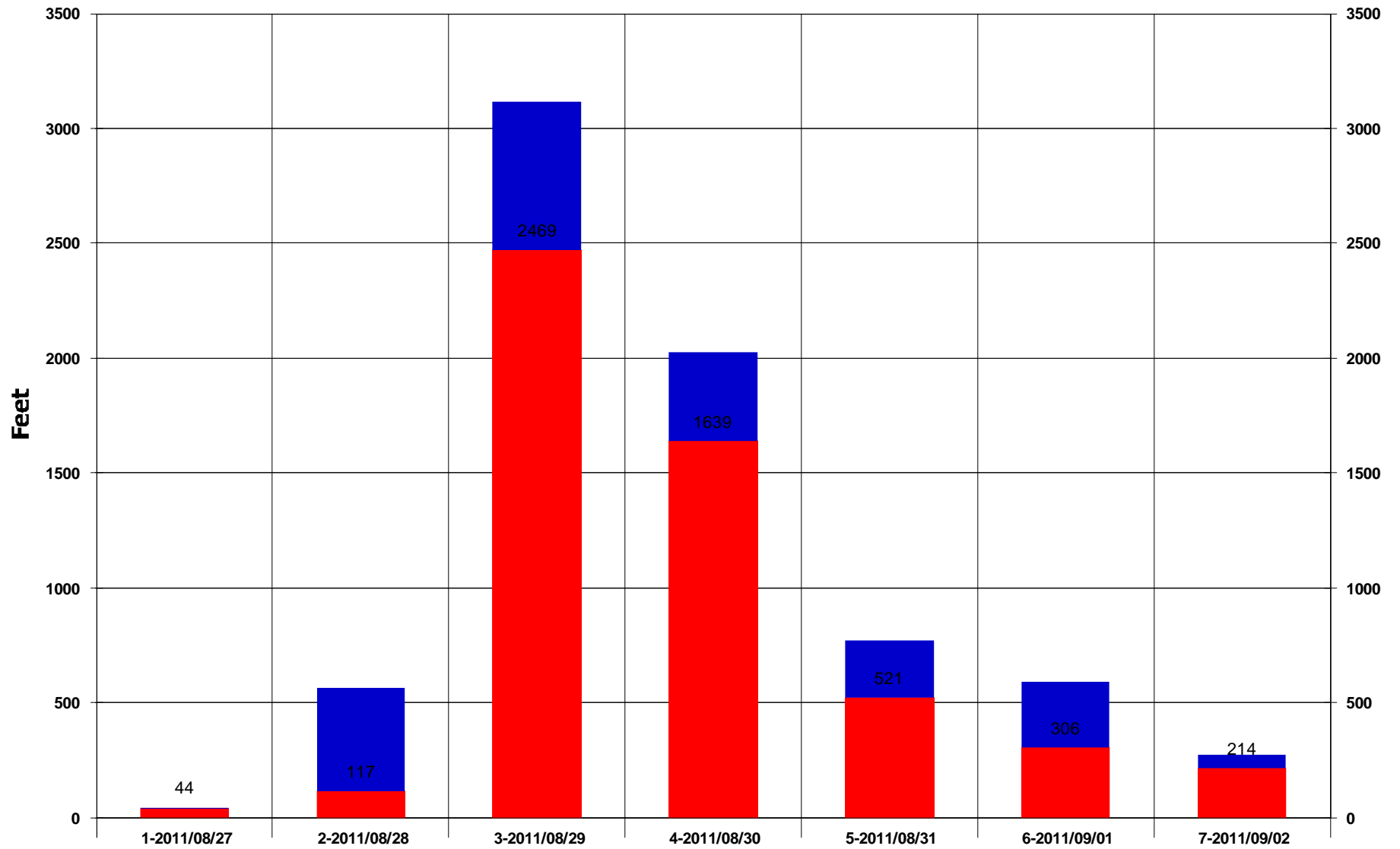
Activity Histogram



Measured Depth vs Days

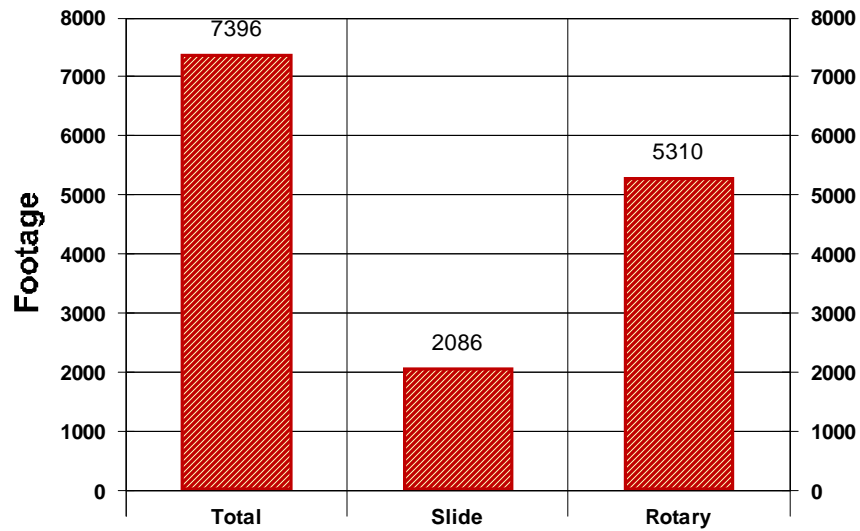


Daily Footage

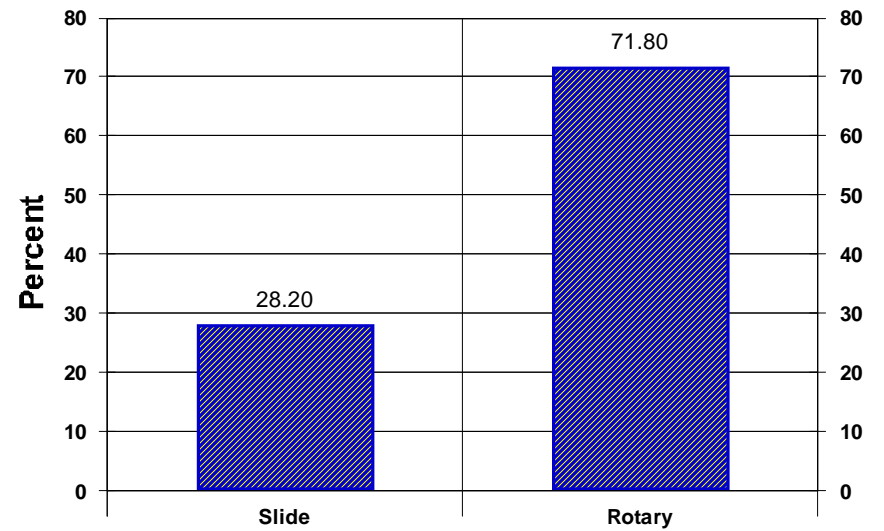


Rotary Drilling Sliding

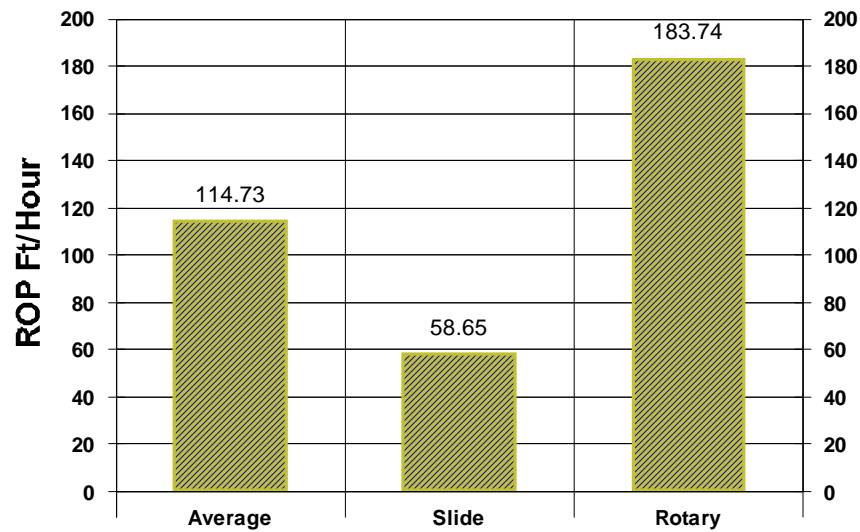
Footage Drilled Totals



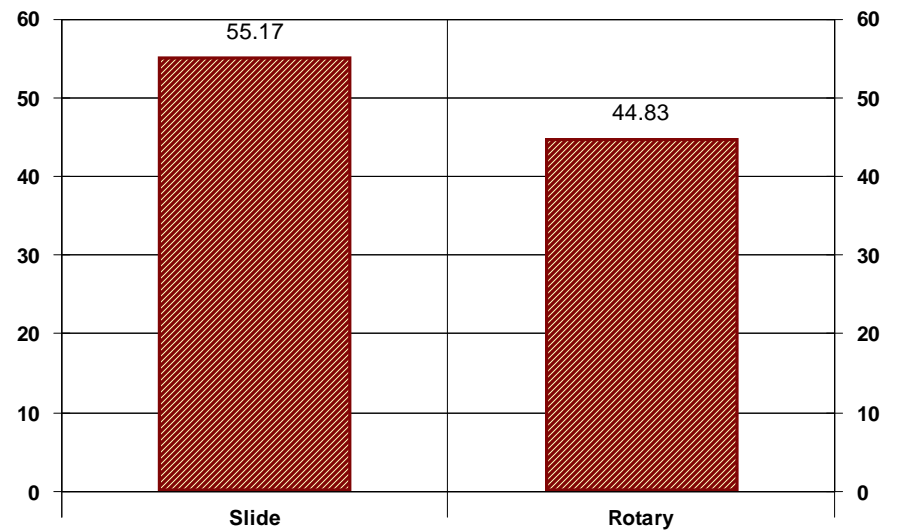
Footage Percent



Rate of Penetration Totals



Time Percent





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