

End of Well Recap FOR

**KGH Operating Co.
Meagher 10-1H
Rio Blanco Co., CO**

Proposal No. 02826-432-22

Presented By:

Pat Rasmussen
Regional Manager

Bret Wolford
Well Planner





Proposed Well & Planning Report

KGH Operating Company

KGH Operating Company
Project: Rio Blanco Co., CO
Site: Sec. 10-T1S-R104W
Well: Meagher 10-1H
Wellbore: Wellbore #1
Design: Design #2
Lat: 39° 58' 30.691 N
Long: 109° 2' 55.169 W
Pad GL: 6387.00
KB: WELL @ 6399.00usft (Original Well Elev)



SECTION DETAILS

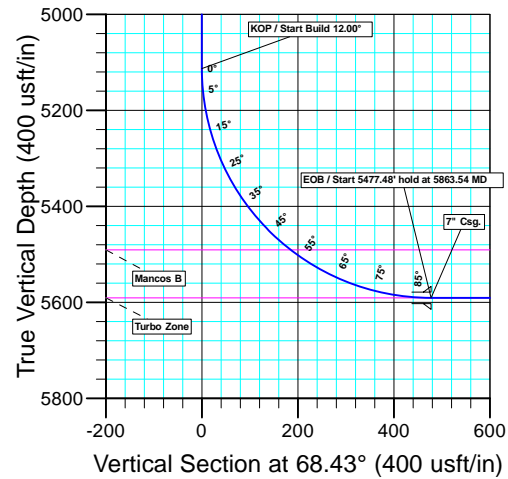
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5113.54	0.00	0.00	5113.54	0.00	0.00	0.00	0.00	0.00
5863.54	90.00	68.43	5591.00	175.52	444.03	12.00	68.43	477.46
11341.02	90.00	68.43	5591.00	2189.05	5538.00	0.00	0.00	5954.94

WELL DETAILS: Meagher 10-1H

+N/-S	+E/-W	Northing	Ground Level: Easting	6387.00 Latitude	Longitude	Slot
0.01	0.00	1253707.232	2005734.511	39° 58' 30.691 N	109° 2' 55.169 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Meagher 10-1H PBHL	5591.00	2189.05	5538.00	39° 58' 30.691 N	109° 1' 44.025 W	Point



CASING DETAILS

TVD	MD	Name	Size
5591.00	5863.54	7" Csg.	7

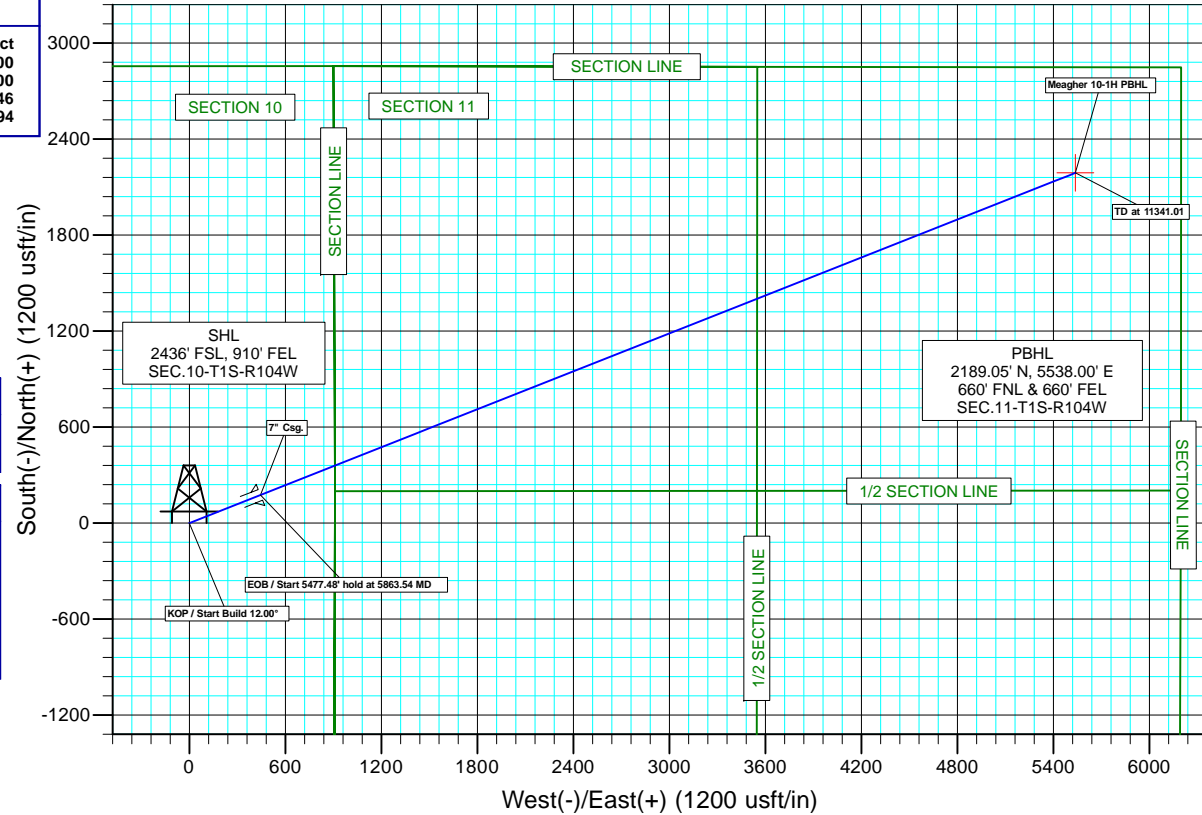
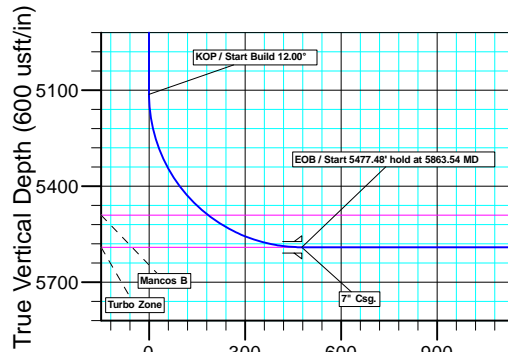
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3452.00	3452.00	Main Coal Zone
3846.00	3846.00	Lower Sego
4147.00	4147.00	Buck Tongue
4324.00	4324.00	Castlegate
5491.00	5548.85	Manco's B
5591.00	5863.54	Turbo Zone



Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 52383.4snT
Dip Angle: 65.94°
Date: 04/14/2011
Model: IGRF2010



Vertical Section at 68.43° (600 usft/in)

Plan: Design #2 (Meagher 10-1H/Wellbore #1)

Created By: Bret Wolford Date: 13:12, April 11 2011

KGH Operating Company

**Rio Blanco Co., CO
Sec. 10-T1S-R104W
Meagher 10-1H**

Wellbore #1

Plan: Design #2

Standard Planning Report

11 April, 2011



Great White Directional Services, LLC
Planning Report



Database:	EDM 5000.1 EDMDBBW	Local Co-ordinate Reference:	Well Meagher 10-1H
Company:	KGH Operating Company	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Project:	Rio Blanco Co., CO	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	North Reference:	True
Well:	Meagher 10-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project	Rio Blanco Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	Sec. 10-T1S-R104W				
Site Position:		Northing:	1,253,707.232 usft	Latitude:	39° 58' 30.691 N
From:	Lat/Long	Easting:	2,005,734.511 usft	Longitude:	109° 2' 55.169 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	-2.29 °

Well	Meagher 10-1H					
Well Position	+N/-S	0.00 usft	Northing:	1,253,707.232 usft	Latitude:	39° 58' 30.691 N
	+E/-W	0.00 usft	Easting:	2,005,734.511 usft	Longitude:	109° 2' 55.169 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,387.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/14/11	10.90	65.94	52,383

Design	Design #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	5,591.00	0.01	0.00	68.43

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,113.54	0.00	0.00	5,113.54	0.00	0.00	0.00	0.00	0.00	0.00	
5,863.54	90.00	68.43	5,591.00	175.52	444.03	12.00	12.00	0.00	68.43	Meagher 10-1H PBHL
11,341.02	90.00	68.43	5,591.00	2,189.05	5,538.00	0.00	0.00	0.00	0.00	Meagher 10-1H PBHL

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Site:	Sec. 10-T1S-R104W	North Reference:	True
Well:	Meagher 10-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
Main Coal Zone									
3,452.00	0.00	0.00	3,452.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
Lower Sego									
3,846.00	0.00	0.00	3,846.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Buck Tongue									
4,147.00	0.00	0.00	4,147.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Castlegate									
4,324.00	0.00	0.00	4,324.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site:	Sec. 10-T1S-R104W	North Reference:	True
Well:	Meagher 10-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned 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)
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP / Start Build 12.00°									
5,113.54	0.00	0.00	5,113.54	0.00	0.00	0.00	0.00	0.00	0.00
5,125.00	1.38	68.43	5,125.00	0.05	0.13	0.13	12.00	12.00	0.00
5,150.00	4.38	68.43	5,149.96	0.51	1.29	1.39	12.00	12.00	0.00
5,175.00	7.38	68.43	5,174.83	1.45	3.67	3.95	12.00	12.00	0.00
5,200.00	10.38	68.43	5,199.53	2.87	7.26	7.80	12.00	12.00	0.00
5,225.00	13.38	68.43	5,223.99	4.76	12.04	12.95	12.00	12.00	0.00
5,250.00	16.38	68.43	5,248.15	7.12	18.01	19.37	12.00	12.00	0.00
5,275.00	19.38	68.43	5,271.94	9.94	25.15	27.04	12.00	12.00	0.00
5,300.00	22.38	68.43	5,295.30	13.22	33.43	35.95	12.00	12.00	0.00
5,325.00	25.38	68.43	5,318.15	16.93	42.84	46.06	12.00	12.00	0.00
5,350.00	28.38	68.43	5,340.45	21.09	53.35	57.36	12.00	12.00	0.00
5,375.00	31.38	68.43	5,362.13	25.67	64.93	69.82	12.00	12.00	0.00
5,400.00	34.38	68.43	5,383.12	30.65	77.55	83.39	12.00	12.00	0.00
5,425.00	37.38	68.43	5,403.38	36.04	91.17	98.03	12.00	12.00	0.00
5,450.00	40.38	68.43	5,422.84	41.81	105.76	113.72	12.00	12.00	0.00
5,475.00	43.38	68.43	5,441.45	47.94	121.28	130.41	12.00	12.00	0.00
5,500.00	46.38	68.43	5,459.16	54.42	137.68	148.05	12.00	12.00	0.00
5,525.00	49.38	68.43	5,475.93	61.24	154.93	166.59	12.00	12.00	0.00
Mancos B									
5,548.85	52.24	68.43	5,491.00	68.03	172.11	185.07	12.00	12.00	0.00
5,550.00	52.38	68.43	5,491.70	68.37	172.96	185.98	12.00	12.00	0.00
5,575.00	55.38	68.43	5,506.44	75.79	191.74	206.17	12.00	12.00	0.00
5,600.00	58.38	68.43	5,520.10	83.49	211.21	227.10	12.00	12.00	0.00
5,625.00	61.38	68.43	5,532.64	91.43	231.31	248.73	12.00	12.00	0.00
5,650.00	64.38	68.43	5,544.04	99.61	252.00	270.97	12.00	12.00	0.00
5,675.00	67.38	68.43	5,554.26	108.00	273.22	293.79	12.00	12.00	0.00
5,700.00	70.38	68.43	5,563.27	116.57	294.91	317.11	12.00	12.00	0.00
5,725.00	73.38	68.43	5,571.04	125.30	317.00	340.86	12.00	12.00	0.00
5,750.00	76.38	68.43	5,577.56	134.17	339.44	364.99	12.00	12.00	0.00
5,775.00	79.38	68.43	5,582.82	143.16	362.17	389.43	12.00	12.00	0.00
5,800.00	82.38	68.43	5,586.78	152.23	385.12	414.11	12.00	12.00	0.00
5,825.00	85.38	68.43	5,589.45	161.37	408.24	438.97	12.00	12.00	0.00
5,850.00	88.38	68.43	5,590.81	170.54	431.45	463.93	12.00	12.00	0.00
EOB / Start 5477.48' hold at 5863.54 MD - Turbo Zone - 7" Csg.									
5,863.54	90.00	68.43	5,591.00	175.52	444.04	477.47	12.00	12.00	0.00
5,900.00	90.00	68.43	5,591.00	188.92	477.95	513.93	0.00	0.00	0.00
6,000.00	90.00	68.43	5,591.00	225.68	570.94	613.93	0.00	0.00	0.00
6,100.00	90.00	68.43	5,591.00	262.44	663.94	713.93	0.00	0.00	0.00
6,200.00	90.00	68.43	5,591.00	299.20	756.94	813.93	0.00	0.00	0.00
6,300.00	90.00	68.43	5,591.00	335.96	849.94	913.93	0.00	0.00	0.00
6,400.00	90.00	68.43	5,591.00	372.72	942.94	1,013.93	0.00	0.00	0.00
6,500.00	90.00	68.43	5,591.00	409.48	1,035.94	1,113.93	0.00	0.00	0.00
6,600.00	90.00	68.43	5,591.00	446.24	1,128.93	1,213.93	0.00	0.00	0.00
6,700.00	90.00	68.43	5,591.00	483.00	1,221.93	1,313.93	0.00	0.00	0.00
6,800.00	90.00	68.43	5,591.00	519.76	1,314.93	1,413.93	0.00	0.00	0.00
6,900.00	90.00	68.43	5,591.00	556.52	1,407.93	1,513.93	0.00	0.00	0.00

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Site:	Sec. 10-T1S-R104W	North Reference:	True
Well:	Meagher 10-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,000.00	90.00	68.43	5,591.00	593.28	1,500.93	1,613.93	0.00	0.00	0.00	
7,100.00	90.00	68.43	5,591.00	630.04	1,593.93	1,713.93	0.00	0.00	0.00	
7,200.00	90.00	68.43	5,591.00	666.80	1,686.92	1,813.93	0.00	0.00	0.00	
7,300.00	90.00	68.43	5,591.00	703.56	1,779.92	1,913.93	0.00	0.00	0.00	
7,400.00	90.00	68.43	5,591.00	740.32	1,872.92	2,013.93	0.00	0.00	0.00	
7,500.00	90.00	68.43	5,591.00	777.08	1,965.92	2,113.93	0.00	0.00	0.00	
7,600.00	90.00	68.43	5,591.00	813.84	2,058.92	2,213.93	0.00	0.00	0.00	
7,700.00	90.00	68.43	5,591.00	850.61	2,151.92	2,313.93	0.00	0.00	0.00	
7,800.00	90.00	68.43	5,591.00	887.37	2,244.91	2,413.93	0.00	0.00	0.00	
7,900.00	90.00	68.43	5,591.00	924.13	2,337.91	2,513.93	0.00	0.00	0.00	
8,000.00	90.00	68.43	5,591.00	960.89	2,430.91	2,613.93	0.00	0.00	0.00	
8,100.00	90.00	68.43	5,591.00	997.65	2,523.91	2,713.93	0.00	0.00	0.00	
8,200.00	90.00	68.43	5,591.00	1,034.41	2,616.91	2,813.93	0.00	0.00	0.00	
8,300.00	90.00	68.43	5,591.00	1,071.17	2,709.91	2,913.93	0.00	0.00	0.00	
8,400.00	90.00	68.43	5,591.00	1,107.93	2,802.90	3,013.93	0.00	0.00	0.00	
8,500.00	90.00	68.43	5,591.00	1,144.69	2,895.90	3,113.93	0.00	0.00	0.00	
8,600.00	90.00	68.43	5,591.00	1,181.45	2,988.90	3,213.93	0.00	0.00	0.00	
8,700.00	90.00	68.43	5,591.00	1,218.21	3,081.90	3,313.93	0.00	0.00	0.00	
8,800.00	90.00	68.43	5,591.00	1,254.97	3,174.90	3,413.93	0.00	0.00	0.00	
8,900.00	90.00	68.43	5,591.00	1,291.73	3,267.90	3,513.93	0.00	0.00	0.00	
9,000.00	90.00	68.43	5,591.00	1,328.49	3,360.89	3,613.93	0.00	0.00	0.00	
9,100.00	90.00	68.43	5,591.00	1,365.25	3,453.89	3,713.93	0.00	0.00	0.00	
9,200.00	90.00	68.43	5,591.00	1,402.01	3,546.89	3,813.93	0.00	0.00	0.00	
9,300.00	90.00	68.43	5,591.00	1,438.77	3,639.89	3,913.93	0.00	0.00	0.00	
9,400.00	90.00	68.43	5,591.00	1,475.53	3,732.89	4,013.93	0.00	0.00	0.00	
9,500.00	90.00	68.43	5,591.00	1,512.29	3,825.89	4,113.93	0.00	0.00	0.00	
9,600.00	90.00	68.43	5,591.00	1,549.05	3,918.88	4,213.93	0.00	0.00	0.00	
9,700.00	90.00	68.43	5,591.00	1,585.81	4,011.88	4,313.93	0.00	0.00	0.00	
9,800.00	90.00	68.43	5,591.00	1,622.57	4,104.88	4,413.93	0.00	0.00	0.00	
9,900.00	90.00	68.43	5,591.00	1,659.33	4,197.88	4,513.93	0.00	0.00	0.00	
10,000.00	90.00	68.43	5,591.00	1,696.09	4,290.88	4,613.93	0.00	0.00	0.00	
10,100.00	90.00	68.43	5,591.00	1,732.85	4,383.88	4,713.93	0.00	0.00	0.00	
10,200.00	90.00	68.43	5,591.00	1,769.61	4,476.87	4,813.93	0.00	0.00	0.00	
10,300.00	90.00	68.43	5,591.00	1,806.37	4,569.87	4,913.93	0.00	0.00	0.00	
10,400.00	90.00	68.43	5,591.00	1,843.13	4,662.87	5,013.93	0.00	0.00	0.00	
10,500.00	90.00	68.43	5,591.00	1,879.89	4,755.87	5,113.93	0.00	0.00	0.00	
10,600.00	90.00	68.43	5,591.00	1,916.65	4,848.87	5,213.93	0.00	0.00	0.00	
10,700.00	90.00	68.43	5,591.00	1,953.41	4,941.87	5,313.93	0.00	0.00	0.00	
10,800.00	90.00	68.43	5,591.00	1,990.17	5,034.86	5,413.93	0.00	0.00	0.00	
10,900.00	90.00	68.43	5,591.00	2,026.93	5,127.86	5,513.93	0.00	0.00	0.00	
11,000.00	90.00	68.43	5,591.00	2,063.69	5,220.86	5,613.93	0.00	0.00	0.00	
11,100.00	90.00	68.43	5,591.00	2,100.45	5,313.86	5,713.93	0.00	0.00	0.00	
11,200.00	90.00	68.43	5,591.00	2,137.21	5,406.86	5,813.93	0.00	0.00	0.00	
11,300.00	90.00	68.43	5,591.00	2,173.97	5,499.86	5,913.93	0.00	0.00	0.00	
TD at 11341.01 - Meagher 10-1H PBHL										
11,341.01	90.00	68.43	5,591.00	2,189.05	5,538.00	5,954.94	0.00	0.00	0.00	

Database:	EDM 5000.1 EDMDBBW	Local Co-ordinate Reference:	Well Meagher 10-1H
Company:	KGH Operating Company	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Project:	Rio Blanco Co., CO	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	North Reference:	True
Well:	Meagher 10-1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
Meagher 10-1H PBHL	0.00	0.00	5,591.00	2,189.05	5,538.00	1,255,672.956	2,011,355.657	39° 58' 52.319 N	109° 1' 44.025 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth	Vertical Depth	Name		Casing Diameter	Hole Diameter
(usft)	(usft)			(")	(")
5,863.54	5,591.00	7" Csg.		7	8-3/4

Formations						
Measured Depth	Vertical Depth	Name		Lithology	Dip	Dip Direction
(usft)	(usft)				(°)	(°)
3,452.00	3,452.00	Main Coal Zone			0.00	
3,846.00	3,846.00	Lower Sego			0.00	
4,147.00	4,147.00	Buck Tongue			0.00	
4,324.00	4,324.00	Castlegate			0.00	
5,548.85	5,491.00	Mancos B			0.00	
5,863.54	5,591.00	Turbo Zone			0.00	

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates		Comment	
(usft)	(usft)	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)		
5,113.54	5,113.54	0.01	0.00	KOP / Start Build 12.00°	
5,863.54	5,591.00	175.52	444.03	EOB / Start 5477.48' hold at 5863.54 MD	
11,341.01	5,591.00	2,189.05	5,538.00	TD at 11341.01	



Survey Report

Pilot Hole



Survey Certification Sheet

Report Date: 6-16-11

GWDS Job #: 02826-432-22 / Horizontal

Operator: KGH Operating Co.

Well Name: Meagher 10-1H / Pilot Hole

API#: 05-103-11854

County/State: Rio Blanco Co., CO

Well SHL: 2436' FSL & 910' FEL (Lot 3) Sec. 10-T1S-R104W

Well SHL: 39° 58' 30.691" N (NAD83)

109° 2' 55.169" W (NAD83)

Drilling Rig Contractor: L & W #1 (RKB: 12')

Surveyed Dates: 5/5/11-5/10/11

Surveyed from a depth of: OH: 1043.00' MD to 5064.00' MD

Type of Survey: MWD Surveys (STB=50')

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Great White Directional Services, LLC. I am authorized and qualified to review the data, calculations and this report, and that the report represents a true and correct Directional Survey of this well based on the original data corrected to True North and obtained at the well site. Wellbore Coordinates are calculated using minimum curvature method.

Bret Wolford

Great White Directional Services, LLC - Well Planner

KGH Operating Company

Rio Blanco Co., CO

Sec. 10-T1S-R104W

Meagher 10-1H

Wellbore #1-Pilot

Survey: Survey #1

Standard Survey Report

16 June, 2011





Company:	KGH Operating Company	Local Co-ordinate Reference:	Well Meagher 10-1H
Project:	Rio Blanco Co., CO	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Well:	Meagher 10-1H	North Reference:	True
Wellbore:	Wellbore #1-Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1-Pilot	Database:	EDM 5000.1 EDMDBBW

Project	Rio Blanco Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec. 10-T1S-R104W			
Site Position:		Northing:	1,253,707.232 usft	Latitude:	39° 58' 30.691 N
From:	Lat/Long	Easting:	2,005,734.511 usft	Longitude:	109° 2' 55.169 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-2.29 °

Well	Meagher 10-1H					
Well Position	+N/-S	0.00 usft	Northing:	1,253,707.228 usft	Latitude:	39° 58' 30.691 N
	+E/-W	0.00 usft	Easting:	2,005,734.511 usft	Longitude:	109° 2' 55.169 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,387.00 usft

Wellbore	Wellbore #1-Pilot				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/14/11	10.90	65.94	52,383

Design	Wellbore #1-Pilot				
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	68.43	

Survey Program	Date	06/16/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
947.00	5,142.00	Survey #1 (Wellbore #1-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	
Tie-In / Assumed Vertical										
947.00	0.00	0.00	947.00	0.00	0.00	0.00	0.00	0.00	0.00	
First GWDS Survey										
1,043.00	1.70	163.90	1,042.99	-1.37	0.39	-0.14	1.77	1.77	0.00	
1,074.00	1.80	164.50	1,073.97	-2.28	0.65	-0.23	0.33	0.32	1.94	
1,135.00	1.90	161.60	1,134.94	-4.16	1.23	-0.39	0.22	0.16	-4.75	
1,196.00	1.50	159.20	1,195.91	-5.87	1.83	-0.45	0.67	-0.66	-3.93	
1,257.00	1.40	157.50	1,256.89	-7.30	2.40	-0.45	0.18	-0.16	-2.79	
1,319.00	1.60	159.60	1,318.87	-8.81	2.99	-0.46	0.33	0.32	3.39	
1,380.00	1.40	173.80	1,379.85	-10.35	3.37	-0.67	0.69	-0.33	23.28	
1,441.00	0.90	202.90	1,440.84	-11.53	3.26	-1.21	1.24	-0.82	47.70	
1,502.00	0.70	206.60	1,501.83	-12.31	2.91	-1.82	0.34	-0.33	6.07	

Company:	KGH Operating Company	Local Co-ordinate Reference:	Well Meagher 10-1H
Project:	Rio Blanco Co., CO	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Well:	Meagher 10-1H	North Reference:	True
Wellbore:	Wellbore #1-Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1-Pilot	Database:	EDM 5000.1 EDMDBBW

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)	
1,563.00	0.70	203.70	1,562.83	-12.98	2.59	-2.36	0.06	0.00	-4.75	
1,627.00	0.40	291.70	1,626.83	-13.26	2.23	-2.80	1.24	-0.47	137.50	
1,690.00	0.40	351.20	1,689.83	-12.96	1.99	-2.91	0.63	0.00	94.44	
1,754.00	0.30	6.00	1,753.82	-12.57	1.97	-2.79	0.21	-0.16	23.12	
1,818.00	0.20	24.40	1,817.82	-12.30	2.04	-2.63	0.20	-0.16	28.75	
1,882.00	0.40	39.60	1,881.82	-12.03	2.23	-2.35	0.33	0.31	23.75	
1,945.00	0.40	75.40	1,944.82	-11.81	2.58	-1.94	0.39	0.00	56.83	
2,009.00	0.30	68.40	2,008.82	-11.69	2.95	-1.55	0.17	-0.16	-10.94	
2,073.00	0.40	96.00	2,072.82	-11.65	3.33	-1.19	0.30	0.16	43.12	
2,136.00	0.60	144.80	2,135.82	-11.94	3.74	-0.91	0.72	0.32	77.46	
2,200.00	0.60	132.80	2,199.81	-12.44	4.18	-0.69	0.20	0.00	-18.75	
2,264.00	0.40	70.20	2,263.81	-12.60	4.63	-0.32	0.85	-0.31	-97.81	
2,327.00	0.50	72.20	2,326.81	-12.44	5.10	0.17	0.16	0.16	3.17	
2,391.00	0.80	97.70	2,390.81	-12.41	5.81	0.84	0.64	0.47	39.84	
2,454.00	0.80	70.10	2,453.80	-12.32	6.66	1.66	0.61	0.00	-43.81	
2,518.00	0.50	354.70	2,517.80	-11.89	7.05	2.19	1.30	-0.47	-117.81	
2,582.00	0.80	316.10	2,581.79	-11.29	6.72	2.10	0.80	0.47	-60.31	
2,644.00	0.40	24.30	2,643.79	-10.78	6.51	2.09	1.21	-0.65	110.00	
2,708.00	0.60	108.00	2,707.79	-10.68	6.92	2.51	1.07	0.31	130.78	
2,773.00	0.40	117.40	2,772.78	-10.89	7.44	2.92	0.33	-0.31	14.46	
2,836.00	0.40	155.70	2,835.78	-11.19	7.73	3.07	0.42	0.00	60.79	
2,900.00	0.60	153.70	2,899.78	-11.70	7.97	3.11	0.31	0.31	-3.12	
2,964.00	0.40	135.10	2,963.78	-12.16	8.27	3.23	0.40	-0.31	-29.06	
3,027.00	0.60	119.70	3,026.78	-12.47	8.72	3.52	0.38	0.32	-24.44	
3,091.00	0.60	28.60	3,090.77	-12.35	9.17	3.99	1.34	0.00	-142.34	
3,155.00	0.60	55.20	3,154.77	-11.86	9.60	4.57	0.43	0.00	41.56	
3,218.00	0.60	73.80	3,217.77	-11.58	10.19	5.22	0.31	0.00	29.52	
3,281.00	0.40	81.10	3,280.76	-11.45	10.72	5.76	0.33	-0.32	11.59	
3,345.00	0.50	148.10	3,344.76	-11.66	11.09	6.03	0.79	0.16	104.69	
3,408.00	0.80	143.50	3,407.76	-12.24	11.50	6.19	0.48	0.48	-7.30	
3,472.00	0.40	162.80	3,471.76	-12.82	11.83	6.29	0.69	-0.62	30.16	
3,536.00	0.20	167.90	3,535.75	-13.14	11.92	6.26	0.31	-0.31	7.97	
3,599.00	0.40	138.20	3,598.75	-13.41	12.09	6.31	0.39	0.32	-47.14	
3,663.00	0.80	131.90	3,662.75	-13.88	12.57	6.59	0.63	0.62	-9.84	
3,727.00	0.70	131.20	3,726.74	-14.43	13.20	6.97	0.16	-0.16	-1.09	
3,791.00	0.40	223.50	3,790.74	-14.85	13.34	6.95	1.28	-0.47	144.22	
3,854.00	1.10	228.20	3,853.74	-15.41	12.74	6.18	1.11	1.11	7.46	
3,918.00	1.30	205.50	3,917.72	-16.48	11.97	5.07	0.80	0.31	-35.47	
3,982.00	0.40	183.80	3,981.72	-17.36	11.64	4.44	1.47	-1.41	-33.91	
4,045.00	1.70	10.10	4,044.71	-16.66	11.79	4.84	3.33	2.06	-275.71	
4,109.00	1.70	17.40	4,108.68	-14.82	12.24	5.94	0.34	0.00	11.41	
4,173.00	0.20	272.50	4,172.67	-13.90	12.41	6.43	2.75	-2.34	-163.91	
4,236.00	0.60	181.40	4,235.67	-14.23	12.29	6.20	1.01	0.63	-144.60	
4,300.00	1.00	173.20	4,299.66	-15.12	12.35	5.93	0.65	0.62	-12.81	
4,363.00	0.80	105.10	4,362.66	-15.78	12.84	6.14	1.62	-0.32	-108.10	
4,427.00	1.00	102.40	4,426.65	-16.02	13.82	6.96	0.32	0.31	-4.22	
4,491.00	1.10	117.20	4,490.64	-16.42	14.91	7.83	0.45	0.16	23.12	
4,554.00	0.60	107.30	4,553.63	-16.79	15.76	8.49	0.82	-0.79	-15.71	
4,618.00	0.50	142.30	4,617.63	-17.11	16.25	8.82	0.54	-0.16	54.69	
4,682.00	0.80	135.50	4,681.62	-17.65	16.74	9.08	0.48	0.47	-10.62	
4,745.00	1.30	117.30	4,744.61	-18.29	17.68	9.72	0.94	0.79	-28.89	
4,809.00	1.80	127.20	4,808.59	-19.23	19.13	10.72	0.88	0.78	15.47	
4,873.00	1.40	148.60	4,872.57	-20.51	20.33	11.37	1.11	-0.62	33.44	
4,937.00	0.70	269.10	4,936.56	-21.18	20.35	11.14	2.90	-1.09	188.28	



Company:	KGH Operating Company	Local Co-ordinate Reference:	Well Meagher 10-1H
Project:	Rio Blanco Co., CO	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Well:	Meagher 10-1H	North Reference:	True
Wellbore:	Wellbore #1-Pilot	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1-Pilot	Database:	EDM 5000.1 EDMDBBW

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)	
5,000.00	0.70	190.50	4,999.56	-21.57	19.90	10.57	1.41	0.00	-124.76	
Last GWDS Survey										
5,064.00	1.80	135.80	5,063.54	-22.67	20.53	10.75	2.36	1.72	-85.47	
Proj. to Bit										
5,142.00	1.80	135.80	5,141.50	-24.43	22.23	11.70	0.00	0.00	0.00	

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
947.00	947.00	0.00	0.00	Tie-In / Assumed Vertical	
1,043.00	1,042.99	-1.37	0.39	First GWDS Survey	
5,064.00	5,063.54	-22.67	20.53	Last GWDS Survey	
5,142.00	5,141.50	-24.43	22.23	Proj. to Bit	

Checked By: _____ Approved By: _____ Date: _____



Survey Report & PVA SideTrack



Survey Certification Sheet

Report Date: 6-16-11

GWDS Job #: 02826-432-22 / Horizontal

Operator: KGH Operating Co.

Well Name: Meagher 10-1H / ST

API#: 05-103-11854

County/State: Rio Blanco Co., CO

Well SHL: 2436' FSL & 910' FEL (Lot 3) Sec. 10-T1S-R104W

Well SHL: 39° 58' 30.691" N (NAD83)

109° 2' 55.169" W (NAD83)

Drilling Rig Contractor: L & W #1 (RKB: 12')

Surveyed Dates: 5/14/11-5/18/11, 5/21/11-5/28/11

Surveyed from a depth of: OH: 4840.00' MD to 10270.00' MD

Type of Survey: MWD Surveys (STB=50')

The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Great White Directional Services, LLC. I am authorized and qualified to review the data, calculations and this report, and that the report represents a true and correct Directional Survey of this well based on the original data corrected to True North and obtained at the well site. Wellbore Coordinates are calculated using minimum curvature method.

Bret Wolford

Great White Directional Services, LLC - Well Planner

KGH Operating Company

KGH Operating Company
Project: Rio Blanco Co., CO
Site: Sec. 10-T1S-R104W
Well: Meagher 10-1H
Wellbore: Wellbore #1-Pilot
Design: Design #3
Lat: 39° 58' 30.691 N
Long: 109° 2' 55.169 W
Pad GL: 6387.00
KB: WELL @ 6399.00usft (Original Well Elev)



SECTION DETAILS

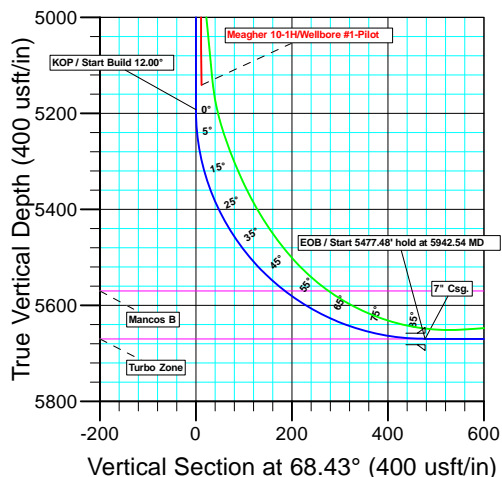
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5192.54	0.00	0.00	5192.54	0.00	0.00	0.00	0.00	0.00
5942.54	90.00	68.43	5670.00	175.52	444.03	12.00	68.43	477.46
11420.02	90.00	68.43	5670.00	2189.05	5538.00	0.00	0.00	5954.94

WELL DETAILS: Meagher 10-1H

+N/-S	+E/-W	Northing	Ground Level: Easting	6387.00 Latitude	Longitude	Slot
0.00	0.00	1253707.228	2005734.511	39° 58' 30.691 N	109° 2' 55.169 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
Meagher 10-1H PBHL	5670.00	2189.05	5538.00	39° 58' 52.319 N	109° 1' 44.025 W	



CASING DETAILS

TVD	MD	Name	Size
5670.00	5942.54	7" Csg.	7

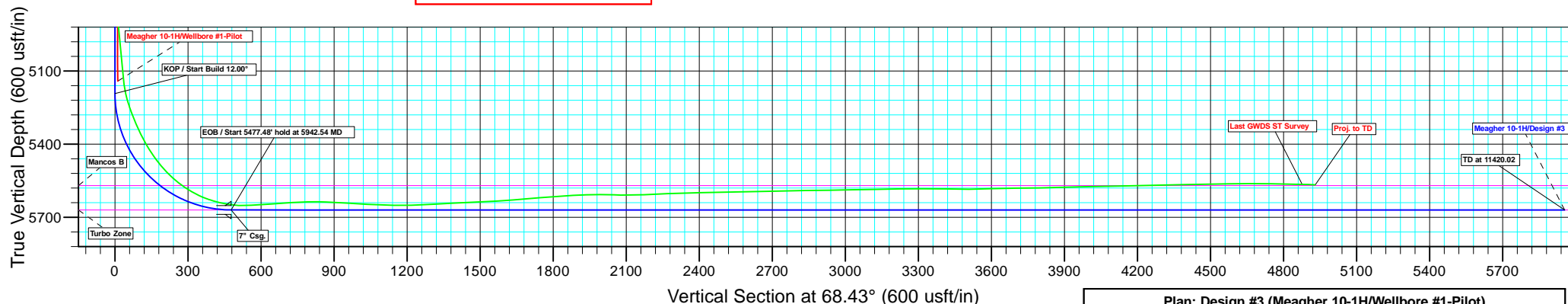
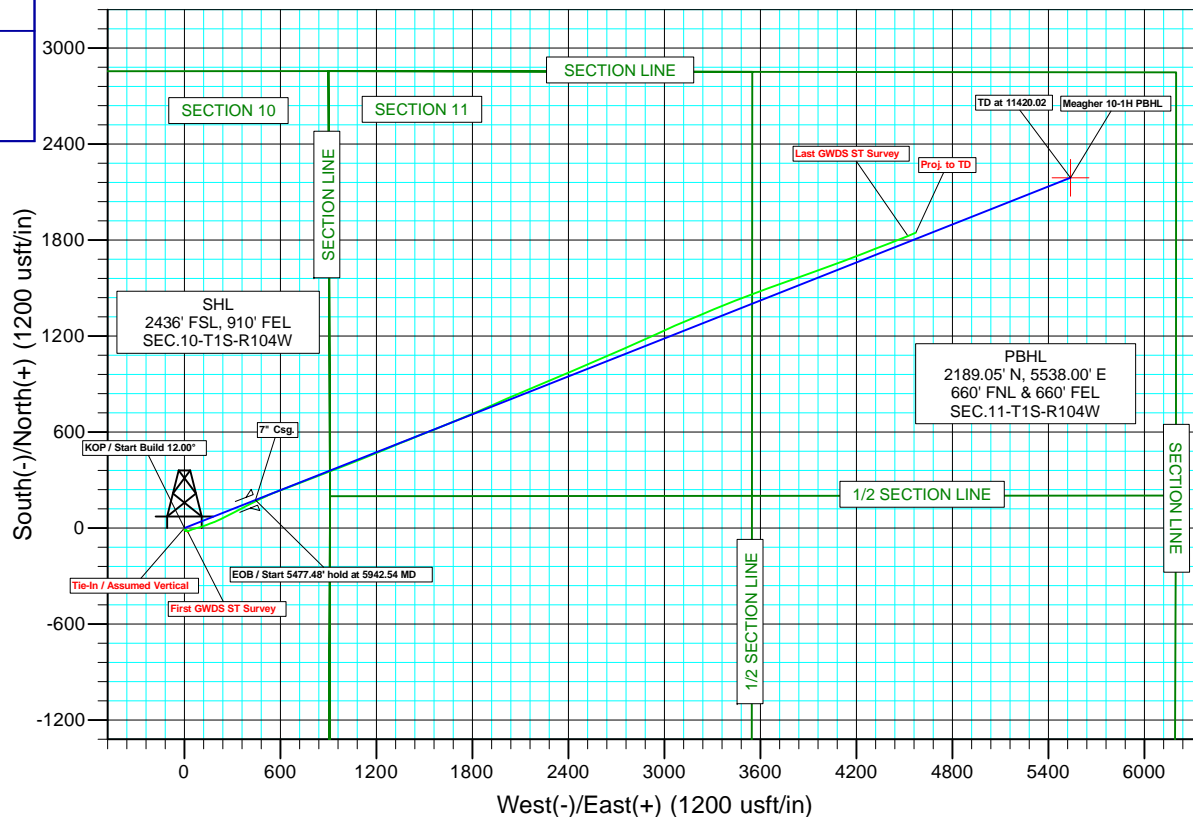
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3531.00	3531.00	Main Coal Zone
3925.00	3925.00	Lower Sego
4226.00	4226.00	Buck Tongue
4403.00	4403.00	Castlegate
5570.00	5627.85	Mancos B
5670.00	5940.39	Turbo Zone



Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 52383.4snT
Dip Angle: 65.94°
Date: 04/14/2011
Model: IGRF2010



Plan: Design #3 (Meagher 10-1H/Wellbore #1-Pilot)

Created By: Bret Wolford Date: 15:14, June 16 2011

KGH Operating Company

**Rio Blanco Co., CO
Sec. 10-T1S-R104W
Meagher 10-1H**

Wellbore #2-ST

Design: Wellbore #2-ST

Standard Survey Report

16 June, 2011





Company:	KGH Operating Company	Local Co-ordinate Reference:	Well Meagher 10-1H
Project:	Rio Blanco Co., CO	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Well:	Meagher 10-1H	North Reference:	True
Wellbore:	Wellbore #2-ST	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2-ST	Database:	EDM 5000.1 EDMDBBW

Project	Rio Blanco Co., CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec. 10-T1S-R104W			
Site Position:		Northing:	1,253,707.232 usft	Latitude:	39° 58' 30.691 N
From:	Lat/Long	Easting:	2,005,734.511 usft	Longitude:	109° 2' 55.169 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-2.29 °

Well	Meagher 10-1H					
Well Position	+N/-S	0.00 usft	Northing:	1,253,707.228 usft	Latitude:	39° 58' 30.691 N
	+E/-W	0.00 usft	Easting:	2,005,734.511 usft	Longitude:	109° 2' 55.169 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	6,387.00 usft

Wellbore	Wellbore #2-ST				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/14/11	10.90	65.94	52,383

Design	Wellbore #2-ST			
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	86.11

Survey Program	Date	06/16/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
947.00	4,809.00	Survey #1 (Wellbore #2-ST)	MWD	MWD - Standard	
4,809.00	10,323.00	Survey #2-ST (Wellbore #2-ST)	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	
Tie-In / Assumed Vertical										
947.00	0.00	0.00	947.00	0.00	0.00	0.00	0.00	0.00	0.00	
First GWDS Survey										
1,043.00	1.70	163.90	1,042.99	-1.37	0.39	0.30	1.77	1.77	0.00	
1,074.00	1.80	164.50	1,073.97	-2.28	0.65	0.50	0.33	0.32	1.94	
1,135.00	1.90	161.60	1,134.94	-4.16	1.23	0.94	0.22	0.16	-4.75	
1,196.00	1.50	159.20	1,195.91	-5.87	1.83	1.43	0.67	-0.66	-3.93	
1,257.00	1.40	157.50	1,256.89	-7.30	2.40	1.90	0.18	-0.16	-2.79	
1,319.00	1.60	159.60	1,318.87	-8.81	2.99	2.39	0.33	0.32	3.39	
1,380.00	1.40	173.80	1,379.85	-10.35	3.37	2.66	0.69	-0.33	23.28	
1,441.00	0.90	202.90	1,440.84	-11.53	3.26	2.47	1.24	-0.82	47.70	



Company:	KGH Operating Company	Local Co-ordinate Reference:	Well Meagher 10-1H
Project:	Rio Blanco Co., CO	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Well:	Meagher 10-1H	North Reference:	True
Wellbore:	Wellbore #2-ST	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2-ST	Database:	EDM 5000.1 EDMDBBW

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)
1,502.00	0.70	206.60	1,501.83	-12.31	2.91	2.07	0.34	-0.33	6.07
1,563.00	0.70	203.70	1,562.83	-12.98	2.59	1.71	0.06	0.00	-4.75
1,627.00	0.40	291.70	1,626.83	-13.26	2.23	1.32	1.24	-0.47	137.50
1,690.00	0.40	351.20	1,689.83	-12.96	1.99	1.11	0.63	0.00	94.44
1,754.00	0.30	6.00	1,753.82	-12.57	1.97	1.12	0.21	-0.16	23.12
1,818.00	0.20	24.40	1,817.82	-12.30	2.04	1.20	0.20	-0.16	28.75
1,882.00	0.40	39.60	1,881.82	-12.03	2.23	1.40	0.33	0.31	23.75
1,945.00	0.40	75.40	1,944.82	-11.81	2.58	1.77	0.39	0.00	56.83
2,009.00	0.30	68.40	2,008.82	-11.69	2.95	2.15	0.17	-0.16	-10.94
2,073.00	0.40	96.00	2,072.82	-11.65	3.33	2.53	0.30	0.16	43.12
2,136.00	0.60	144.80	2,135.82	-11.94	3.74	2.92	0.72	0.32	77.46
2,200.00	0.60	132.80	2,199.81	-12.44	4.18	3.32	0.20	0.00	-18.75
2,264.00	0.40	70.20	2,263.81	-12.60	4.63	3.77	0.85	-0.31	-97.81
2,327.00	0.50	72.20	2,326.81	-12.44	5.10	4.25	0.16	0.16	3.17
2,391.00	0.80	97.70	2,390.81	-12.41	5.81	4.95	0.64	0.47	39.84
2,454.00	0.80	70.10	2,453.80	-12.32	6.66	5.81	0.61	0.00	-43.81
2,518.00	0.50	354.70	2,517.80	-11.89	7.05	6.23	1.30	-0.47	-117.81
2,582.00	0.80	316.10	2,581.79	-11.29	6.72	5.94	0.80	0.47	-60.31
2,644.00	0.40	24.30	2,643.79	-10.78	6.51	5.76	1.21	-0.65	110.00
2,708.00	0.60	108.00	2,707.79	-10.68	6.92	6.18	1.07	0.31	130.78
2,773.00	0.40	117.40	2,772.78	-10.89	7.44	6.69	0.33	-0.31	14.46
2,836.00	0.40	155.70	2,835.78	-11.19	7.73	6.95	0.42	0.00	60.79
2,900.00	0.60	153.70	2,899.78	-11.70	7.97	7.16	0.31	0.31	-3.12
2,964.00	0.40	135.10	2,963.78	-12.16	8.27	7.43	0.40	-0.31	-29.06
3,027.00	0.60	119.70	3,026.78	-12.47	8.72	7.85	0.38	0.32	-24.44
3,091.00	0.60	28.60	3,090.77	-12.35	9.17	8.31	1.34	0.00	-142.34
3,155.00	0.60	55.20	3,154.77	-11.86	9.60	8.78	0.43	0.00	41.56
3,218.00	0.60	73.80	3,217.77	-11.58	10.19	9.38	0.31	0.00	29.52
3,281.00	0.40	81.10	3,280.76	-11.45	10.72	9.92	0.33	-0.32	11.59
3,345.00	0.50	148.10	3,344.76	-11.66	11.09	10.28	0.79	0.16	104.69
3,408.00	0.80	143.50	3,407.76	-12.24	11.50	10.64	0.48	0.48	-7.30
3,472.00	0.40	162.80	3,471.76	-12.82	11.83	10.94	0.69	-0.62	30.16
3,536.00	0.20	167.90	3,535.75	-13.14	11.92	11.00	0.31	-0.31	7.97
3,599.00	0.40	138.20	3,598.75	-13.41	12.09	11.15	0.39	0.32	-47.14
3,663.00	0.80	131.90	3,662.75	-13.88	12.57	11.60	0.63	0.62	-9.84
3,727.00	0.70	131.20	3,726.74	-14.43	13.20	12.19	0.16	-0.16	-1.09
3,791.00	0.40	223.50	3,790.74	-14.85	13.34	12.30	1.28	-0.47	144.22
3,854.00	1.10	228.20	3,853.74	-15.41	12.74	11.66	1.11	1.11	7.46
3,918.00	1.30	205.50	3,917.72	-16.48	11.97	10.82	0.80	0.31	-35.47
3,982.00	0.40	183.80	3,981.72	-17.36	11.64	10.44	1.47	-1.41	-33.91
4,045.00	1.70	10.10	4,044.71	-16.66	11.79	10.63	3.33	2.06	-275.71
4,109.00	1.70	17.40	4,108.68	-14.82	12.24	11.21	0.34	0.00	11.41
4,173.00	0.20	272.50	4,172.67	-13.90	12.41	11.44	2.75	-2.34	-163.91
4,236.00	0.60	181.40	4,235.67	-14.23	12.29	11.30	1.01	0.63	-144.60
4,300.00	1.00	173.20	4,299.66	-15.12	12.35	11.30	0.65	0.62	-12.81
4,363.00	0.80	105.10	4,362.66	-15.78	12.84	11.74	1.62	-0.32	-108.10
4,427.00	1.00	102.40	4,426.65	-16.02	13.82	12.70	0.32	0.31	-4.22
4,491.00	1.10	117.20	4,490.64	-16.42	14.91	13.76	0.45	0.16	23.12
4,554.00	0.60	107.30	4,553.63	-16.79	15.76	14.59	0.82	-0.79	-15.71
4,618.00	0.50	142.30	4,617.63	-17.11	16.25	15.06	0.54	-0.16	54.69
4,682.00	0.80	135.50	4,681.62	-17.65	16.74	15.50	0.48	0.47	-10.62
4,745.00	1.30	117.30	4,744.61	-18.29	17.68	16.40	0.94	0.79	-28.89
Tie-In / OH									
4,809.00	1.80	127.20	4,808.59	-19.23	19.13	17.78	0.88	0.78	15.47

Company:	KGH Operating Company	Local Co-ordinate Reference:	Well Meagher 10-1H
Project:	Rio Blanco Co., CO	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Well:	Meagher 10-1H	North Reference:	True
Wellbore:	Wellbore #2-ST	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2-ST	Database:	EDM 5000.1 EDMDBBW

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)	
First GWDS ST Survey										
4,840.00	1.20	136.00	4,839.58	-19.76	19.74	18.36	2.07	-1.94	28.39	
4,872.00	1.60	76.20	4,871.57	-19.90	20.41	19.01	4.49	1.25	-186.87	
4,904.00	4.00	60.60	4,903.53	-19.24	21.81	20.46	7.80	7.50	-48.75	
4,936.00	5.10	63.80	4,935.43	-18.07	24.06	22.78	3.53	3.44	10.00	
4,968.00	5.40	65.90	4,967.30	-16.82	26.71	25.51	1.11	0.94	6.56	
5,000.00	5.40	70.20	4,999.15	-15.70	29.50	28.37	1.26	0.00	13.44	
5,031.00	5.50	72.90	5,030.01	-14.77	32.30	31.22	0.89	0.32	8.71	
5,063.00	5.50	72.80	5,061.87	-13.86	35.23	34.21	0.03	0.00	-0.31	
5,095.00	5.50	67.00	5,093.72	-12.81	38.10	37.15	1.74	0.00	-18.12	
5,127.00	5.60	63.40	5,125.57	-11.51	40.91	40.04	1.13	0.31	-11.25	
5,159.00	8.00	63.20	5,157.34	-9.81	44.29	43.53	7.50	7.50	-0.62	
5,190.00	12.40	69.40	5,187.85	-7.66	49.34	48.71	14.61	14.19	20.00	
5,222.00	16.10	73.40	5,218.86	-5.19	56.81	56.33	11.96	11.56	12.50	
5,254.00	18.60	74.50	5,249.40	-2.55	65.98	65.66	7.88	7.81	3.44	
5,286.00	21.00	74.50	5,279.50	0.34	76.43	76.27	7.50	7.50	0.00	
5,318.00	23.10	75.24	5,309.16	3.47	88.02	88.06	6.62	6.56	2.31	
5,350.00	24.80	75.00	5,338.40	6.81	100.58	100.81	5.32	5.31	-0.75	
5,382.00	26.90	72.20	5,367.20	10.76	113.95	114.42	7.59	6.56	-8.75	
5,414.00	29.50	69.90	5,395.40	15.68	128.25	129.02	8.80	8.12	-7.19	
5,445.00	32.40	68.60	5,421.99	21.34	143.15	144.27	9.60	9.35	-4.19	
5,477.00	34.70	68.90	5,448.65	27.75	159.63	161.15	7.21	7.19	0.94	
5,509.00	38.00	68.50	5,474.42	34.64	177.30	179.24	10.34	10.31	-1.25	
5,541.00	41.40	66.70	5,499.04	42.43	196.19	198.61	11.22	10.62	-5.62	
5,573.00	45.20	65.30	5,522.33	51.37	216.23	219.21	12.25	11.87	-4.37	
5,605.00	49.20	64.60	5,544.06	61.31	237.49	241.10	12.60	12.50	-2.19	
5,636.00	53.10	63.50	5,563.51	71.88	259.20	263.47	12.88	12.58	-3.55	
5,668.00	56.90	62.40	5,581.86	83.80	282.53	287.56	12.20	11.87	-3.44	
5,700.00	61.00	62.00	5,598.36	96.59	306.78	312.62	12.86	12.81	-1.25	
5,732.00	65.40	62.80	5,612.78	109.81	332.09	338.76	13.93	13.75	2.50	
5,764.00	69.90	63.10	5,624.95	123.27	358.44	365.97	14.09	14.06	0.94	
5,796.00	74.80	62.80	5,634.65	137.13	385.59	393.99	15.34	15.31	-0.94	
5,828.00	78.20	63.00	5,642.12	151.31	413.28	422.59	10.64	10.62	0.62	
5,859.00	81.60	63.10	5,647.55	165.13	440.48	450.66	10.97	10.97	0.32	
5,891.00	85.70	63.50	5,651.09	179.42	468.89	479.97	12.87	12.81	1.25	
5,923.00	91.30	64.50	5,651.93	193.44	497.63	509.60	17.78	17.50	3.12	
5,941.00	93.50	65.30	5,651.18	201.07	513.92	526.36	13.00	12.22	4.44	
5,974.00	93.80	68.70	5,649.07	213.93	544.23	557.47	10.32	0.91	10.30	
6,070.00	93.80	68.40	5,642.71	248.96	633.38	648.79	0.31	0.00	-0.31	
6,165.00	92.30	68.70	5,637.66	283.65	721.67	739.23	1.61	-1.58	0.32	
6,260.00	87.30	69.40	5,637.99	317.61	810.36	830.02	5.31	-5.26	0.74	
6,356.00	87.00	69.70	5,642.76	351.11	900.20	921.92	0.44	-0.31	0.31	
6,451.00	86.60	69.20	5,648.07	384.40	989.02	1,012.79	0.67	-0.42	-0.53	
6,515.00	88.90	68.20	5,650.58	407.63	1,048.59	1,073.81	3.92	3.59	-1.56	
6,578.00	90.30	67.40	5,651.02	431.43	1,106.92	1,133.61	2.56	2.22	-1.27	
6,642.00	92.40	67.70	5,649.51	455.87	1,166.05	1,194.26	3.31	3.28	0.47	
6,706.00	93.10	67.30	5,646.44	480.33	1,225.11	1,254.84	1.26	1.09	-0.62	
6,769.00	93.40	67.90	5,642.87	504.30	1,283.26	1,314.49	1.06	0.48	0.95	
6,833.00	92.40	68.20	5,639.63	528.19	1,342.55	1,375.25	1.63	-1.56	0.47	
6,897.00	92.80	68.20	5,636.73	551.93	1,401.91	1,436.09	0.62	0.62	0.00	
6,960.00	93.20	68.30	5,633.43	575.25	1,460.34	1,495.97	0.65	0.63	0.16	
7,024.00	94.30	68.50	5,629.24	598.76	1,519.72	1,556.80	1.75	1.72	0.31	
7,087.00	94.50	67.40	5,624.41	622.34	1,577.94	1,616.48	1.77	0.32	-1.75	
7,151.00	95.70	68.00	5,618.72	646.53	1,636.92	1,676.97	2.09	1.87	0.94	



Company:	KGH Operating Company	Local Co-ordinate Reference:	Well Meagher 10-1H
Project:	Rio Blanco Co., CO	TVD Reference:	WELL @ 6399.00usft (Original Well Elev)
Site:	Sec. 10-T1S-R104W	MD Reference:	WELL @ 6399.00usft (Original Well Elev)
Well:	Meagher 10-1H	North Reference:	True
Wellbore:	Wellbore #2-ST	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #2-ST	Database:	EDM 5000.1 EDMDBBW

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
7,215.00	93.40	67.10	5,613.64	670.89	1,695.88	1,737.44	3.86	-3.59	-1.41	
7,278.00	93.70	67.60	5,609.74	695.10	1,753.90	1,796.98	0.92	0.48	0.79	
7,374.00	88.70	66.10	5,607.73	732.82	1,842.12	1,887.55	5.44	-5.21	-1.56	
7,469.00	89.50	66.40	5,609.23	771.08	1,929.07	1,976.88	0.90	0.84	0.32	
7,565.00	92.30	66.60	5,607.72	809.35	2,017.09	2,067.29	2.92	2.92	0.21	
7,660.00	93.10	67.20	5,603.24	846.58	2,104.37	2,156.90	1.05	0.84	0.63	
7,755.00	90.80	66.50	5,600.01	883.91	2,191.66	2,246.52	2.53	-2.42	-0.74	
7,851.00	90.90	67.00	5,598.59	921.80	2,279.86	2,337.08	0.53	0.10	0.52	
7,946.00	91.80	67.50	5,596.35	958.52	2,367.44	2,426.95	1.08	0.95	0.53	
8,042.00	90.90	67.20	5,594.09	995.48	2,456.01	2,517.82	0.99	-0.94	-0.31	
8,138.00	91.30	67.10	5,592.24	1,032.75	2,544.46	2,608.60	0.43	0.42	-0.10	
8,233.00	90.60	66.50	5,590.67	1,070.17	2,631.77	2,698.24	0.97	-0.74	-0.63	
8,329.00	91.10	66.10	5,589.24	1,108.76	2,719.66	2,788.54	0.67	0.52	-0.42	
8,424.00	91.00	65.90	5,587.50	1,147.39	2,806.43	2,877.73	0.24	-0.11	-0.21	
8,520.00	91.00	65.00	5,585.83	1,187.27	2,893.74	2,967.54	0.94	0.00	-0.94	
8,615.00	91.10	65.40	5,584.09	1,227.11	2,979.96	3,056.27	0.43	0.11	0.42	
8,710.00	89.70	66.90	5,583.42	1,265.52	3,066.84	3,145.55	2.16	-1.47	1.58	
8,806.00	89.40	67.20	5,584.18	1,302.95	3,155.24	3,236.28	0.44	-0.31	0.31	
8,901.00	89.80	67.20	5,584.84	1,339.77	3,242.82	3,326.15	0.42	0.42	0.00	
8,997.00	92.40	68.00	5,583.00	1,376.34	3,331.55	3,417.16	2.83	2.71	0.83	
9,092.00	90.20	68.80	5,580.84	1,411.30	3,419.85	3,507.62	2.46	-2.32	0.84	
9,188.00	91.30	68.60	5,579.59	1,446.17	3,509.28	3,599.21	1.16	1.15	-0.21	
9,283.00	91.30	69.10	5,577.43	1,480.43	3,597.86	3,689.91	0.53	0.00	0.53	
9,379.00	91.60	69.90	5,575.00	1,514.04	3,687.75	3,781.87	0.89	0.31	0.83	
9,474.00	91.20	70.00	5,572.68	1,546.60	3,776.97	3,873.09	0.43	-0.42	0.11	
9,570.00	90.80	70.70	5,571.00	1,578.88	3,867.36	3,965.46	0.84	-0.42	0.73	
9,665.00	91.40	70.60	5,569.18	1,610.35	3,956.98	4,057.01	0.64	0.63	-0.11	
9,761.00	91.30	70.40	5,566.92	1,642.39	4,047.45	4,149.44	0.23	-0.10	-0.21	
9,856.00	91.40	70.10	5,564.68	1,674.48	4,136.83	4,240.79	0.33	0.11	-0.32	
9,952.00	91.00	68.20	5,562.67	1,708.64	4,226.52	4,332.59	2.02	-0.42	-1.98	
10,047.00	89.60	68.20	5,562.17	1,743.92	4,314.73	4,422.98	1.47	-1.47	0.00	
10,142.00	89.20	68.60	5,563.17	1,778.89	4,403.05	4,513.47	0.60	-0.42	0.42	
10,238.00	89.10	68.40	5,564.59	1,814.07	4,492.36	4,604.96	0.23	-0.10	-0.21	
Last GWDS ST Survey										
10,270.00	88.40	67.80	5,565.29	1,826.00	4,522.04	4,635.38	2.88	-2.19	-1.87	
Proj. to TD										
10,323.00	87.17	67.20	5,567.34	1,846.27	4,570.97	4,685.57	2.58	-2.32	-1.13	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
947.00	947.00	0.00	0.00	Tie-In / Assumed Vertical	
1,043.00	1,042.99	-1.37	0.39	First GWDS Survey	
4,809.00	4,808.59	-19.23	19.13	Tie-In / OH	
4,840.00	4,839.58	-19.76	19.74	First GWDS ST Survey	
10,270.00	5,565.29	1,826.00	4,522.04	Last GWDS ST Survey	
10,323.00	5,567.34	1,846.27	4,570.97	Proj. to TD	

Checked By: _____ Approved By: _____ Date: _____



Daily Reports



JOB NO.:	02826-432-22	Report Time:	2400	1 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Wednesday, May 04, 2011 at 0000 to Wednesday, May 04, 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.	1.00	Percent Slide:	NA	Chlorides	0	WL	0			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth	N/A				
Second Directional :	Steven Webb			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			7	23	5939					
MWD Operator2	Patrick Puettman			Signature:							
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema										
Incl. In:	0.4	Azm. In:	135.1	Incl. Out:	81.6	Azm. Out:	63.1	Daily Cost			
						Cummulative Cost:					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
4-May-11	00:00	23:00	23.00	0	0	Standby	Travel to Location and Rig Up
4-May-11	23:00	24:00	1.00	0	0	Other	P/U tools



JOB NO.:	02826-432-22	Report Time:	2400	2 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Thursday, May 05, 2011 at 0000 to Thursday, May 05, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters					
Start Depth	1030.00	Rotary Hours	17.08	WOB	8	Pick UP	65	Slack Off	65	SPM	
End Depth	1895.00	Circulating Hours	0.00	RAB	65	SPP	1650	FlowRate	0 - 485	165	
Total Drilled:	865.00	Avg. Total ROP:	47.40	Mud Data							
Total Rotary Drilled:	818.00	Avg. Rotary ROP:	47.88	Type	PH Pa			PV	12	SOLID	0.75
Total Drilled Sliding:	47.00	Avg. Slide ROP:	40.29	Weight	202.9	GAS	0	YP	11	BHT°	80.6
Slide Hours:	1.17	Percent Rotary:	94.57	Viscosity	43	SAND	0.25	PH	11.7	Flow T°	80
Below Rotary Hrs.	24.00	Percent Slide:	5.43	Chlorides	700	WL	9.6			Oil %	0
PERSONNEL				CASING					BHA BHA # 1:8 3/4 6 blade, MOTOR 7/8 5.7 ADJ 1.5, UBHO SUB, NMDC, NMDC, 14 steel drill collars, 4 1/2 XH to 4 1/2 FH, 34 JTS HWDP, 4 Drill Pipe,		
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth					
Second Directional :	Mark Orear			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			Signature:							
MWD Operator2	Patrick Puettman										
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema			Daily Cost							
Incl. In:	0	Azm. In:	0	Incl. Out:	0.2	Azm. Out:	24.4	Cummulative Cost:			

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
5-May-11	00:00	00:30	0.50	1030	1030	Change BHA	Change BHA
5-May-11	00:30	02:45	2.25	1030	1030	TIH	TIH
5-May-11	02:45	05:30	2.75	1030	1030	Drilling Cement	Drill Cement
5-May-11	05:30	06:40	1.17	1030	1088	Drilling	Drilling
5-May-11	06:40	06:50	0.17	1088	1088	Survey & Conn.	Survey & Conn.
5-May-11	06:50	07:20	0.50	1088	1119	Drilling	Drilling - (WOB:3;GPM :0;RPM:35)
5-May-11	07:20	07:30	0.17	1119	1119	Survey & Conn.	Survey & Conn.
5-May-11	07:30	08:20	0.83	1119	1180	Drilling	Drilling - (WOB:5;GPM :485;RPM:60)
5-May-11	08:20	08:40	0.33	1180	1180	Survey & Conn.	Survey & Conn.
5-May-11	08:40	08:50	0.17	1180	1190	Sliding	Sliding
5-May-11	08:50	09:30	0.67	1190	1241	Drilling	Drilling - (WOB:5;GPM :485;RPM:60)
5-May-11	09:30	09:45	0.25	1241	1241	Survey & Conn.	Survey & Conn.
5-May-11	09:45	10:30	0.75	1241	1302	Drilling	Drilling - (WOB:7;GPM :485;RPM:60)
5-May-11	10:30	10:45	0.25	1302	1302	Survey & Conn.	Survey & Conn.
5-May-11	10:45	11:35	0.83	1302	1364	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	11:35	11:45	0.17	1364	1364	Survey & Conn.	Survey & Conn.
5-May-11	11:45	12:00	0.25	1364	1376	Sliding	Sliding - (WOB:5;GPM :485;TFO:340M)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
5-May-11	12:00	13:05	1.08	1376	1425	Drilling	Drilling - (WOB:8;GPM :485;RPM:60)
5-May-11	13:05	13:15	0.17	1425	1425	Survey & Conn.	Survey & Conn.
5-May-11	13:15	13:30	0.25	1425	1440	Sliding	Sliding - (WOB:7;GPM :485;TFO:340M)
5-May-11	13:30	14:25	0.92	1440	1486	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	14:25	14:40	0.25	1486	1486	Survey & Conn.	Survey & Conn.
5-May-11	14:40	15:30	0.83	1486	1547	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	15:30	15:40	0.17	1547	1547	Survey & Conn.	Survey & Conn.
5-May-11	15:40	16:50	1.17	1547	1608	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	16:50	17:00	0.17	1608	1608	Survey & Conn.	Survey & Conn.
5-May-11	17:00	17:30	0.50	1608	1618	Sliding	Sliding - (WOB:7;GPM :485;TFO:355M)
5-May-11	17:30	18:20	0.83	1618	1672	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	18:20	18:30	0.17	1672	1672	Survey & Conn.	Survey & Conn.
5-May-11	18:30	19:20	0.83	1672	1735	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	19:20	19:45	0.42	1735	1735	Survey & Conn.	Survey & Conn.
5-May-11	19:45	20:50	1.08	1735	1799	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	20:50	21:00	0.17	1799	1799	Survey & Conn.	Survey & Conn.
5-May-11	21:00	22:10	1.17	1799	1863	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
5-May-11	22:10	22:20	0.17	1863	1863	Survey & Conn.	Survey & Conn.
5-May-11	22:20	24:00	1.67	1863	1895	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)



JOB NO.:	02826-432-22	Report Time:	2400	3 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Friday, May 06, 2011 at 0000 to Friday, May 06, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters									
Start Depth	1895.00	Rotary Hours	15.08	WOB	8	Pick UP	78	Slack Off	78	SPM				
End Depth	2690.00	Circulating Hours	0.00	RAB	78	SPP	1800	FlowRate	420 - 450	148				
Total Drilled:	795.00	Avg. Total ROP:	46.76	Mud Data										
Total Rotary Drilled:	759.00	Avg. Rotary ROP:	50.32	Type	PH Pa			PV	15	SOLID	2			
Total Drilled Sliding:	36.00	Avg. Slide ROP:	18.78	Weight	8.7	GAS	0	YP	13	BHT°	80.6			
Slide Hours:	1.92	Percent Rotary:	95.47	Viscosity	43	SAND	0.35	PH	10	Flow T°	88			
Below Rotary Hrs.	24.00	Percent Slide:	4.53	Chlorides	600	WL	98			Oil %	0			
PERSONNEL				CASING					BHA					
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 1:8 3/4 6 blade, MOTOR 7/8 5.7 ADJ 1.5, UBHO SUB, NMDC, NMDC, 14 steel drill collars, 4 1/2 XH to 4 1/2 FH, 34 JTS HWDP, 4 Drill Pipe,						
Second Directional :	Mark Orear			9 5/8	29.3	975								
MWD Operator1	Michael Bowman			Signature:										
MWD Operator2	Patrick Puettman													
Directional Company:	GWD													
Geologist:														
Company Man:	John Tietema						Daily Cost							
Incl. In:	0.2	Azm. In:	24.4	Incl. Out:	0.8	Azm. Out:	316.1	Cummulative Cost:						

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
6-May-11	00:00	01:30	1.50	1895	1927	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
6-May-11	01:30	01:40	0.17	1927	1927	Survey & Conn.	Survey & Conn.
6-May-11	01:40	02:00	0.33	1927	1927	Rig repair	Rig repair - pason
6-May-11	02:00	03:20	1.33	1927	1990	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
6-May-11	03:20	03:30	0.17	1990	1990	Survey & Conn.	Survey & Conn.
6-May-11	03:30	04:45	1.25	1990	2054	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
6-May-11	04:45	05:10	0.42	2054	2054	Survey & Conn.	Survey & Conn.
6-May-11	05:10	06:15	1.08	2054	2118	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
6-May-11	06:15	06:25	0.17	2118	2118	Survey & Conn.	Survey & Conn.
6-May-11	06:25	07:20	0.92	2118	2181	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
6-May-11	07:20	07:35	0.25	2181	2181	Survey & Conn.	Survey & Conn.
6-May-11	07:35	08:35	1.00	2181	2245	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
6-May-11	08:35	08:50	0.25	2245	2245	Survey & Conn.	Survey & Conn.
6-May-11	08:50	09:10	0.33	2245	2255	Sliding	Sliding - (WOB:7;GPM :485;TFO:20M)
6-May-11	09:10	10:00	0.83	2255	2309	Drilling	Drilling - (WOB:8;GPM :485;RPM:65)
6-May-11	10:00	10:10	0.17	2309	2309	Survey & Conn.	Survey & Conn.
6-May-11	10:10	11:30	1.33	2309	2372	Drilling	Drilling - (WOB:8;GPM :450;RPM:65)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
6-May-11	11:30	11:45	0.25	2372	2372	Survey & Conn.	Survey & Conn.
6-May-11	11:45	12:55	1.17	2372	2436	Drilling	Drilling - (WOB:10;GPM :450;RPM:65)
6-May-11	12:55	13:10	0.25	2436	2436	Survey & Conn.	Survey & Conn.
6-May-11	13:10	13:45	0.58	2436	2436	Rig repair	Rig repair / Parted Pason Cable
6-May-11	13:45	14:05	0.33	2436	2441	Sliding	Sliding - (WOB:7;GPM :450;TFO:320M)
6-May-11	14:05	15:10	1.08	2441	2499	Drilling	Drilling - (WOB:10;GPM :420;RPM:45)
6-May-11	15:10	15:25	0.25	2499	2499	Survey & Conn.	Survey & Conn.
6-May-11	15:25	16:20	0.92	2499	2511	Sliding	Sliding - (WOB:7;GPM :450;TFO:280M)
6-May-11	16:20	17:30	1.17	2511	2563	Drilling	Drilling - (WOB:7;GPM :450;RPM:65)
6-May-11	17:30	17:40	0.17	2563	2563	Survey & Conn.	Survey & Conn.
6-May-11	17:40	18:55	1.25	2563	2627	Drilling	Drilling - (WOB:8;GPM :450;RPM:65)
6-May-11	18:55	19:05	0.17	2627	2627	Survey & Conn.	Survey & Conn.
6-May-11	19:05	19:25	0.33	2627	2636	Sliding	Sliding - (WOB:137;GPM :450;TFO:280M)
6-May-11	19:25	20:35	1.17	2636	2690	Drilling	Drilling - (WOB:8;GPM :450;RPM:65)
6-May-11	20:35	21:30	0.92	2690	2690	Other	Troubleshoot MWD
6-May-11	21:30	24:00	2.50	2690	2690	POOH	POOH



JOB NO.:	02826-432-22	Report Time:	2400	4 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Saturday, May 07, 2011 at 0000 to Saturday, May 07, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	2690.00	Rotary Hours	8.17	WOB	7	Pick UP	78	Slack Off	78	SPM		
End Depth	3041.00	Circulating Hours	0.00	RAB	78	SPP	1975	FlowRate	450 - 450	148		
Total Drilled:	351.00	Avg. Total ROP:	38.29	Mud Data								
Total Rotary Drilled:	335.00	Avg. Rotary ROP:	41.02	Type	PH Pa			PV	14	SOLID	4	
Total Drilled Sliding:	16.00	Avg. Slide ROP:	16.00	Weight	8.9	GAS	0	YP	12	BHT°	102.2	
Slide Hours:	1.00	Percent Rotary:	95.44	Viscosity	43	SAND	0.2	PH	9.4	Flow T°	88	
Below Rotary Hrs.	24.00	Percent Slide:	4.56	Chlorides	700	WL	7			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 1:8 3/4 6 blade, MOTOR 7/8 5.7 ADJ 1.5, UBHO SUB, NMDC, NMDC, 14 steel drill collars, 4 1/2 XH to 4 1/2 FH, 34 JTS HWDP, 4 Drill Pipe,				
Second Directional :	Mark Orear			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			Signature:								
MWD Operator2	Patrick Puettman											
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema					Daily Cost						
Incl. In:	0.8	Azm. In:	316.1	Incl. Out:	0.4	Azm. Out:	135.1	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
7-May-11	00:00	03:30	3.50	2690	2690	POOH	POOH
7-May-11	03:30	05:00	1.50	2690	2690	Other	Change MWD - Pull & Inspect Bit and Motor, Unplug Jets, Test MWD
7-May-11	05:00	13:40	8.67	2690	2690	TIH	TIH / Wash and Ream as Required
7-May-11	13:40	13:50	0.17	2690	2690	Survey & Conn.	Survey & Conn.
7-May-11	13:50	15:10	1.33	2690	2754	Drilling	Drilling - (WOB:8;GPM :450;RPM:65)
7-May-11	15:10	15:25	0.25	2754	2754	Survey & Conn.	Survey & Conn.
7-May-11	15:25	16:00	0.58	2754	2760	Sliding	Sliding - (WOB:137;GPM :450;TFO:135M)
7-May-11	16:00	19:20	3.33	2760	2818	Drilling	Drilling - (WOB:7;GPM :450;RPM:65)
7-May-11	19:20	19:30	0.17	2818	2818	Survey & Conn.	Survey & Conn.
7-May-11	19:30	20:25	0.92	2818	2881	Drilling	Drilling - (WOB:7;GPM :450;RPM:65)
7-May-11	20:25	20:40	0.25	2881	2881	Survey & Conn.	Survey & Conn.
7-May-11	20:40	21:40	1.00	2881	2945	Drilling	Drilling - (WOB:7;GPM :450;RPM:65)
7-May-11	21:40	21:50	0.17	2945	2945	Survey & Conn.	Survey & Conn.
7-May-11	21:50	22:15	0.42	2945	2955	Sliding	Sliding - (WOB:7;GPM :450;TFO:300M)
7-May-11	22:15	23:20	1.08	2955	3009	Drilling	Drilling - (WOB:7;GPM :450;RPM:65)
7-May-11	23:20	23:30	0.17	3009	3009	Survey & Conn.	Survey & Conn.
7-May-11	23:30	24:00	0.50	3009	3041	Drilling	Drilling - (WOB:7;GPM :450;RPM:65)



JOB NO.:	02826-432-22	Report Time:	2400	5 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Sunday, May 08, 2011 at 0000 to Sunday, May 08, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters						
Start Depth	3041.00	Rotary Hours	13.67	WOB	14	Pick UP	82	Slack Off	78	SPM		
End Depth	4123.00	Circulating Hours	0.00	RAB	78	SPP	2100	FlowRate	475 - 475	160		
Total Drilled:	1082.00	Avg. Total ROP:	55.73	Mud Data								
Total Rotary Drilled:	960.00	Avg. Rotary ROP:	70.24	Type	PH Pa			PV	14	SOLID	4	
Total Drilled Sliding:	122.00	Avg. Slide ROP:	21.22	Weight	8.9	GAS	0	YP	12	BHT°	102.2	
Slide Hours:	5.75	Percent Rotary:	88.72	Viscosity	43	SAND	0.2	PH	9.4	Flow T°	88	
Below Rotary Hrs.	24.00	Percent Slide:	11.28	Chlorides	700	WL	7			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 1:8 3/4 6 blade, MOTOR 7/8 5.7 ADJ 1.5, UBHO SUB, NMDC, NMDC, 14 steel drill collars, 4 1/2 XH to 4 1/2 FH, 34 JTS HWDP, 4 Drill Pipe,				
Second Directional :	Mark Orear			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			Signature:								
MWD Operator2	Patrick Puettman											
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema						Daily Cost					
Incl. In:	0.4	Azm. In:	135.1	Incl. Out:	1.7	Azm. Out:	10.1	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-May-11	00:00	00:50	0.83	3041	3072	Drilling	Drilling - (WOB:7;GPM :450;RPM:65)
8-May-11	00:50	01:00	0.17	3072	3072	Survey & Conn.	Survey & Conn.
8-May-11	01:00	01:40	0.67	3072	3086	Sliding	Sliding - (WOB:7;GPM :450;TFO:330M)
8-May-11	01:40	02:30	0.83	3086	3136	Drilling	Drilling - (WOB:12;GPM :475;RPM:55)
8-May-11	02:30	02:45	0.25	3136	3136	Survey & Conn.	Survey & Conn.
8-May-11	02:45	03:45	1.00	3136	3200	Drilling	Drilling - (WOB:12;GPM :475;RPM:55)
8-May-11	03:45	04:00	0.25	3200	3200	Survey & Conn.	Survey & Conn.
8-May-11	04:00	04:45	0.75	3200	3263	Drilling	Drilling - (WOB:12;GPM :475;RPM:55)
8-May-11	04:45	05:25	0.67	3263	3273	Sliding	Sliding - (WOB:7;GPM :450;TFO:330M)
8-May-11	05:25	06:15	0.83	3273	3327	Drilling	Drilling - (WOB:12;GPM :475;RPM:55)
8-May-11	06:15	06:30	0.25	3327	3327	Survey & Conn.	Survey & Conn.
8-May-11	06:30	07:20	0.83	3327	3391	Drilling	Drilling - (WOB:12;GPM :475;RPM:55)
8-May-11	07:20	08:20	1.00	3391	3391	Survey & Conn.	Survey & Conn.
8-May-11	08:20	09:20	1.00	3391	3454	Drilling	Drilling - (WOB:12;GPM :475;RPM:65)
8-May-11	09:20	09:35	0.25	3454	3454	Survey & Conn.	Survey & Conn.
8-May-11	09:35	10:00	0.42	3454	3469	Sliding	Sliding - (WOB:7;GPM :475;TFO:260M)
8-May-11	10:00	10:45	0.75	3469	3518	Drilling	Drilling - (WOB:12;GPM :475;RPM:65)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
8-May-11	10:45	11:00	0.25	3518	3518	Survey & Conn.	Survey & Conn.
8-May-11	11:00	12:05	1.08	3518	3582	Drilling	Drilling - (WOB:12;GPM :475;RPM:65)
8-May-11	12:05	12:20	0.25	3582	3582	Survey & Conn.	Survey & Conn.
8-May-11	12:20	13:10	0.83	3582	3645	Drilling	Drilling - (WOB:13;GPM :475;RPM:65)
8-May-11	13:10	13:25	0.25	3645	3645	Survey & Conn.	Survey & Conn.
8-May-11	13:25	14:10	0.75	3645	3709	Drilling	Drilling - (WOB:14;GPM :475;RPM:65)
8-May-11	14:10	14:25	0.25	3709	3709	Survey & Conn.	Survey & Conn.
8-May-11	14:25	14:50	0.42	3709	3725	Sliding	Sliding - (WOB:7;GPM :475;TFO:350M)
8-May-11	14:50	15:35	0.75	3725	3773	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
8-May-11	15:35	15:50	0.25	3773	3773	Survey & Conn.	Survey & Conn.
8-May-11	15:50	16:05	0.25	3773	3783	Sliding	Sliding - (WOB:7;GPM :475;TFO:330M)
8-May-11	16:05	16:45	0.67	3783	3837	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
8-May-11	16:45	16:55	0.17	3837	3837	Survey & Conn.	Survey & Conn.
8-May-11	16:55	17:30	0.58	3837	3900	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
8-May-11	17:30	17:50	0.33	3900	3900	Survey & Conn.	Survey & Conn.
8-May-11	17:50	18:20	0.50	3900	3915	Sliding	Sliding - (WOB:7;GPM :475;TFO:320M)
8-May-11	18:20	18:55	0.58	3915	3964	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
8-May-11	18:55	19:05	0.17	3964	3964	Survey & Conn.	Survey & Conn.
8-May-11	19:05	20:00	0.92	3964	3984	Sliding	Sliding - (WOB:7;GPM :475;TFO:10M)
8-May-11	20:00	20:40	0.67	3984	4028	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
8-May-11	20:40	20:45	0.08	4028	4028	Survey & Conn.	Survey & Conn.
8-May-11	20:45	21:40	0.92	4028	4039	Sliding	Sliding - (WOB:7;GPM :475;TFO:15M)
8-May-11	21:40	22:20	0.67	4039	4091	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
8-May-11	22:20	22:30	0.17	4091	4091	Survey & Conn.	Survey & Conn.
8-May-11	22:30	22:45	0.25	4091	4091	Other	Set up Gamma
8-May-11	22:45	23:45	1.00	4091	4102	Sliding	Sliding - (WOB:7;GPM :475;TFO:340M)
8-May-11	23:45	24:00	0.25	4102	4123	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)



JOB NO.:	02826-432-22	Report Time:	2400	6 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Monday, May 09, 2011 at 0000 to Monday, May 09, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth		4123.00	Rotary Hours		10.17	WOB		7	Pick UP		100	Slack Off		78	SPM		
End Depth		4802.00	Circulating Hours		0.83	RAB		95	SPP		2100	FlowRate		425 - 425	144		
Total Drilled:		679.00	Avg. Total ROP:		42.44	Mud Data											
Total Rotary Drilled:		562.00	Avg. Rotary ROP:		55.28	Type	PH Pa					PV	15	SOLID	6		
Total Drilled Sliding:		117.00	Avg. Slide ROP:		20.06	Weight		9.2	GAS		0	YP	12	BHT°	102.2		
Slide Hours:		5.83	Percent Rotary:		82.77	Viscosity		42	SAND		0.4	PH	9.4	Flow T°	88		
Below Rotary Hrs.		24.00	Percent Slide:		17.23	Chlorides		800	WL		7			Oil %	0		
PERSONNEL						CASING						BHA					
Lead Directional :		Kevin Wolfe				Size		Lb/ft		Set Depth		BHA # 1:8 3/4 6 blade, MOTOR 7/8 5.7 ADJ 1.5, UBHO SUB, NMDC, NMDC, 14 steel drill collars, 4 1/2 XH to 4 1/2 FH, 34 JTS HWDP, 4 Drill Pipe,					
Second Directional :		Mark Orear				9 5/8		29.3		975							
MWD Operator1		Michael Bowman				Signature:											
MWD Operator2		Patrick Puettman															
Directional Company:		GWD															
Geologist:																	
Company Man:		John Tietema										Daily Cost					
Incl. In:		1.7	Azm. In:		10.1	Incl. Out:		1.3	Azm. Out:		117.3	Cummulative Cost:					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-May-11	00:00	00:35	0.58	4123	4155	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
9-May-11	00:35	00:45	0.17	4155	4155	Survey & Conn.	Survey & Conn.
9-May-11	00:45	02:30	1.75	4155	4175	Sliding	Sliding - (WOB:7;GPM :475;TFO:230M)
9-May-11	02:30	03:20	0.83	4175	4219	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
9-May-11	03:20	03:45	0.42	4219	4219	Survey & Conn.	Survey & Conn.
9-May-11	03:45	05:30	1.75	4219	4282	Drilling	Drilling - (WOB:14;GPM :475;RPM:70)
9-May-11	05:30	05:45	0.25	4282	4282	Survey & Conn.	Survey & Conn.
9-May-11	05:45	06:40	0.92	4282	4292	Sliding	Sliding - (WOB:7;GPM :475;TFO:200M)
9-May-11	06:40	07:40	1.00	4292	4346	Drilling	Drilling - (WOB:14;GPM :425;RPM:70)
9-May-11	07:40	08:35	0.92	4346	4346	Other	Rig Checking Their Pipe Talley
9-May-11	08:35	08:45	0.17	4346	4346	Survey & Conn.	Survey & Conn.
9-May-11	08:45	09:45	1.00	4346	4366	Sliding	Sliding - (WOB:7;GPM :425;TFO:360M)
9-May-11	09:45	10:40	0.92	4366	4409	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	10:40	11:05	0.42	4409	4409	Survey & Conn.	Survey & Conn.
9-May-11	11:05	11:40	0.58	4409	4441	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	11:40	12:00	0.33	4441	4441	MWD Survey	Conn. & Check Shot
9-May-11	12:00	12:35	0.58	4441	4456	Sliding	Sliding - (WOB:7;GPM :425;TFO:350M)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
9-May-11	12:35	12:50	0.25	4456	4473	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	12:50	13:20	0.50	4473	4473	Rig Service-Inhole	Rig Service-Inhole
9-May-11	13:20	13:40	0.33	4473	4473	Survey & Conn.	Survey & Conn.
9-May-11	13:40	14:00	0.33	4473	4505	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	14:00	14:15	0.25	4505	4505	Survey & Conn.	Survey & Conn.
9-May-11	14:15	15:10	0.92	4505	4539	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	15:10	17:40	2.50	4539	4539	Survey & Conn.	Survey & Conn.
9-May-11	17:40	18:20	0.67	4539	4562	Sliding	Sliding - (WOB:7;GPM :425;TFO:310M)
9-May-11	18:20	18:25	0.08	4562	4569	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	18:25	18:40	0.25	4569	4569	Survey & Conn.	Survey & Conn.
9-May-11	18:40	19:05	0.42	4569	4600	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	19:05	19:15	0.17	4600	4600	Survey & Conn.	Survey & Conn.
9-May-11	19:15	19:40	0.42	4600	4632	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	19:40	19:50	0.17	4632	4632	Survey & Conn.	Survey & Conn.
9-May-11	19:50	20:15	0.42	4632	4664	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	20:15	20:40	0.42	4664	4664	Survey & Conn.	Survey & Conn.
9-May-11	20:40	20:55	0.25	4664	4682	Sliding	Sliding - (WOB:7;GPM :425;TFO:280M)
9-May-11	20:55	21:10	0.25	4682	4696	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	21:10	21:20	0.17	4696	4696	Survey & Conn.	Survey & Conn.
9-May-11	21:20	21:40	0.33	4696	4728	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	21:40	21:50	0.17	4728	4728	Survey & Conn.	Survey & Conn.
9-May-11	21:50	22:20	0.50	4728	4760	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	22:20	22:30	0.17	4760	4760	Survey & Conn.	Survey & Conn.
9-May-11	22:30	23:05	0.58	4760	4791	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
9-May-11	23:05	23:20	0.25	4791	4791	Survey & Conn.	Survey & Conn.
9-May-11	23:20	24:00	0.67	4791	4802	Sliding	Sliding - (WOB:7;GPM :425;TFO:280M)



JOB NO.:	02826-432-22	Report Time:	2400	7 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Tuesday, May 10, 2011 at 0000 to Tuesday, May 10, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	4802.00	Rotary Hours	4.33	WOB	13	Pick UP	100	Slack Off	78	SPM	
End Depth	5142.00	Circulating Hours	1.25	RAB	95	SPP	2100	FlowRate	425 - 425	144	
Total Drilled:	340.00	Avg. Total ROP:	34.87	Mud Data							
Total Rotary Drilled:	240.00	Avg. Rotary ROP:	55.38	Type	PH Pa			PV	15	SOLID	6
Total Drilled Sliding:	100.00	Avg. Slide ROP:	18.46	Weight	9.2	GAS	0	YP	12	BHT°	102.2
Slide Hours:	5.42	Percent Rotary:	70.59	Viscosity	42	SAND	0.4	PH	9.4	Flow T°	88
Below Rotary Hrs.	24.00	Percent Slide:	29.41	Chlorides	800	WL	7			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 2:R22AP 8 3/4" Tri Cone, MOTOR 7/8 5.7 FIXED 2.38, UBHO SUB, NMDC, NMDC, 4 FH to 4 1/2 XH, 34 joints HWDP, 3 1/2" IF x 4 FH, 4 1/2 XH x 3 1/2 IF, 14 steel drill collars, 4" FH x 4 1/2" XH 4 Drill Pipe,			
Second Directional :	Mark Orear			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			Signature:							
MWD Operator2	Patrick Puettman										
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema						Daily Cost				
Incl. In:	1.3	Azm. In:	117.3	Incl. Out:	1.8	Azm. Out:	135.8	Cummulative Cost:			

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-May-11	00:00	00:30	0.50	4802	4812	Sliding	Sliding - (WOB:7;GPM :425;TFO:280M)
10-May-11	00:30	00:40	0.17	4812	4823	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
10-May-11	00:40	00:50	0.17	4823	4823	Survey & Conn.	Survey & Conn.
10-May-11	00:50	01:30	0.67	4823	4855	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
10-May-11	01:30	01:45	0.25	4855	4855	Survey & Conn.	Survey & Conn.
10-May-11	01:45	03:20	1.58	4855	4880	Sliding	Sliding - (WOB:7;GPM :425;TFO:280M)
10-May-11	03:20	03:30	0.17	4880	4887	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
10-May-11	03:30	03:45	0.25	4887	4887	Survey & Conn.	Survey & Conn.
10-May-11	03:45	04:45	1.00	4887	4907	Sliding	Sliding - (WOB:7;GPM :425;TFO:310M)
10-May-11	04:45	05:10	0.42	4907	4907	Survey & Conn.	Survey & Conn.
10-May-11	05:10	05:35	0.42	4907	4951	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
10-May-11	05:35	05:50	0.25	4951	4951	MWD Survey	Conn. & Check Shot
10-May-11	05:50	06:10	0.33	4951	4983	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
10-May-11	06:10	06:25	0.25	4983	4983	Survey & Conn.	Survey & Conn.
10-May-11	06:25	07:00	0.58	4983	5015	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
10-May-11	07:00	07:20	0.33	5015	5015	MWD Survey	Conn. & Check Shot
10-May-11	07:20	08:30	1.17	5015	5035	Sliding	Sliding - (WOB:7;GPM :425;TFO:320M)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
10-May-11	08:30	08:50	0.33	5035	5046	Drilling	Drilling - (WOB:13;GPM :425;RPM:70)
10-May-11	08:50	09:15	0.42	5046	5046	Survey & Conn.	Survey & Conn.
10-May-11	09:15	10:25	1.17	5046	5110	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)
10-May-11	10:25	10:50	0.42	5110	5110	Survey & Conn.	Survey & Conn.
10-May-11	10:50	12:00	1.17	5110	5135	Sliding	Sliding - (WOB:7;GPM :425;TFO:95M)
10-May-11	12:00	12:30	0.50	5135	5142	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)
10-May-11	12:30	13:10	0.67	5142	5142	Circulating	Circulating
10-May-11	13:10	19:30	6.33	5142	5142	POOH	POOH
10-May-11	19:30	21:30	2.00	5142	5142	Change BHA	Change BHA
10-May-11	21:30	24:00	2.50	5142	5142	TIH	TIH - Wash & Ream



JOB NO.:	02826-432-22	Report Time:	2400	8 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Wednesday, May 11, 2011 at 0000 to Wednesday, May 11, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	13	Pick UP	100	Slack Off	78	SPM		
End Depth	0.00	Circulating Hours	0.00	RAB	95	SPP	2100	FlowRate	425 - 425	144		
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data								
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	PH Pa			PV	15	SOLID	6	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9.2	GAS	0	YP	12	BHT°	102.2	
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	42	SAND	0.4	PH	9.4	Flow T°	88	
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	800	WL	7			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 2:R22AP 8 3/4" Tri Cone, MOTOR 7/8 5.7 FIXED 2.38, UBHO SUB, NMDC, NMDC, 4 FH to 4 1/2 XH, 34 joints HWDP, 3 1/2" IF x 4 FH, 4 1/2 XH x 3 1/2" IF, 14 steel drill collars, 4" FH x 4 1/2" XH 4 Drill Pipe,				
Second Directional :	Mark Orear			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			7	23	5939						
MWD Operator2	Patrick Puettman			Signature:								
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema								Daily Cost			
Incl. In:	1.8	Azm. In:	135.8	Incl. Out:	1.8	Azm. Out:	135.8	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
11-May-11	00:00	00:30	0.50	5142	5142	TIH	TIH
11-May-11	00:30	03:00	2.50	5142	5142	POOH	POOH - To Run Fishing tools
11-May-11	03:00	03:45	0.75	5142	5142	Other	Lay down tools
11-May-11	03:45	24:00	20.25	5142	5142	Fishing	Fishing for 18" Pipe Wrench



JOB NO.:	02826-432-22	Report Time:	2400	9 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Thursday, May 12, 2011 at 0000 to Thursday, May 12, 2011 at 2400

DRILLING SUMMARY				Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	13	Pick UP	100	Slack Off	78	SPM	
End Depth	0.00	Circulating Hours	1.50	RAB	95	SPP	2100	FlowRate	425 - 425	144	
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data							
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	PH Pa			PV	15	SOLID	6
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9.2	GAS	0	YP	12	BHT°	102.2
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	42	SAND	0.4	PH	9.4	Flow T°	88
Below Rotary Hrs.	24.00	Percent Slide:	NA	Chlorides	800	WL	7		Oil %	0	
PERSONNEL				CASING				BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth	N/A				
Second Directional :	Mark Orear			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			7	23	5939					
MWD Operator2	Patrick Puettman										
Directional Company:	GWD			Signature:							
Geologist:											
Company Man:	John Tietema										
Incl. In:	1.8	Azm. In:	135.8	Incl. Out:	1.8	Azm. Out:	135.8	Daily Cost			
						Cummulative Cost:					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
12-May-11	00:00	19:30	19.50	5142	5142	Fishing	Fishing 18" pipe wrench / Push to Bottom
12-May-11	19:30	21:00	1.50	5142	5142	Circulating	Circulating
12-May-11	21:00	24:00	3.00	5142	5142	POOH	POOH



JOB NO.:	02826-432-22	Report Time:	2400	10 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Friday, May 13, 2011 at 0000 to Friday, May 13, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters																
Start Depth		0.00	Rotary Hours		0.00	WOB		13		Pick UP		100		Slack Off		78		SPM			
End Depth		0.00	Circulating Hours		2.67	RAB		95		SPP		2100		FlowRate		425 - 425		144			
Total Drilled:		0.00	Avg. Total ROP:		NA	Mud Data															
Total Rotary Drilled:		0.00	Avg. Rotary ROP:		NA	Type	PH Pa					PV	15	SOLID		6					
Total Drilled Sliding:		0.00	Avg. Slide ROP:		NA	Weight		9.2		GAS		0		YP	12	BHT°		102.2			
Slide Hours:		0.00	Percent Rotary:		NA	Viscosity		42		SAND		0.4		PH	9.4	Flow T°		88			
Below Rotary Hrs.		16.08	Percent Slide:		NA	Chlorides		800		WL		7					Oil %		0		
PERSONNEL					CASING							BHA									
Lead Directional :		Kevin Wolfe			Size		Lb/ft		Set Depth			BHA # 1:8 3/4 6 blade, MOTOR 7/8 5.7 ADJ 1.5, UBHO SUB, NMDC, NMDC, 14 steel drill collars, 4 1/2 XH to 4 1/2 FH, 34 JTS HWDP, 4 Drill Pipe,									
Second Directional :		Mark Orear			9 5/8		29.3		975												
MWD Operator1		Michael Bowman			7		23		5939												
MWD Operator2		Patrick Puettman			Signature:																
Directional Company:		GWD																			
Geologist:																					
Company Man:		John Tietema										Daily Cost									
Incl. In:	1.8	Azm. In:	135.8	Incl. Out:								0.7	Azm. Out:						269		Cummulative Cost:

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
13-May-11	00:00	00:45	0.75	5142	5142	POOH	POOH
13-May-11	00:45	04:50	4.08	5142	5142	TIH	TIH to 5185'
13-May-11	04:50	06:20	1.50	5142	5142	Circulating	Circulating
13-May-11	06:20	08:00	1.67	5142	5142	Other	R/U and Set 250' Cement Plug
13-May-11	08:00	08:40	0.67	5142	5142	POOH	POOH to 4537'
13-May-11	08:40	09:40	1.00	5142	5142	Circulating	Circulating @ 4537'
13-May-11	09:40	10:30	0.83	5142	5142	POOH	L/D Excess Drill Pipe
13-May-11	10:30	13:30	3.00	5142	5142	POOH	POOH
13-May-11	13:30	20:50	7.33	5142	5142	Standby	Standby WOC, S&C Drlg Line, Redress Pumps to 5.5 Liners
13-May-11	20:50	21:55	1.08	5142	5142	Change BHA	Pick Up Directional Tools
13-May-11	21:55	23:15	1.33	5142	5142	TIH	TIH to 950'
13-May-11	23:15	23:25	0.17	5142	5142	MWD Survey	Test MWD, Good Test
13-May-11	23:25	24:00	0.58	5142	5142	Standby	WOC



JOB NO.:	02826-432-22	Report Time:	2400	11 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Saturday, May 14, 2011 at 0000 to Saturday, May 14, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	4823.00	Rotary Hours	4.42	WOB	13	Pick UP	100	Slack Off	78	SPM		
End Depth	4938.00	Circulating Hours	1.75	RAB	95	SPP	2300	FlowRate	0 - 450	180		
Total Drilled:	115.00	Avg. Total ROP:	8.52	Mud Data								
Total Rotary Drilled:	59.00	Avg. Rotary ROP:	13.36	Type	PH Pa			PV	15	SOLID	6	
Total Drilled Sliding:	56.00	Avg. Slide ROP:	6.17	Weight	9.2	GAS	0	YP	12	BHT°	102.2	
Slide Hours:	9.08	Percent Rotary:	51.30	Viscosity	42	SAND	0.4	PH	9.4	Flow T°	88	
Below Rotary Hrs.	20.00	Percent Slide:	48.70	Chlorides	800	WL	7			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth	BHA # 3:TBA, MOTOR 7/8 2.9 ADJ, UBHO SUB, NMDC, NMDC, X/O 4 FH BOX / 4-1/2 XH PIN, 34 JTS HWDP, X/O 3-1/2 IF BOX X 4 FH PIN, X/O 4-1/2 XH BOX X 3 1/2 IF PIN, 14 steel drill collars, X/O 4 FH BOX X 4-1/2 XH PIN, 4 Drill Pipe,					
Second Directional :	Mark Orear			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			Signature:								
MWD Operator2	Patrick Puettman											
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema						Daily Cost					
Incl. In:	0.7	Azm. In:	269	Incl. Out:	1.6	Azm. Out:	76.2	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
14-May-11	00:00	04:00	4.00	5142	5142	Standby	WOC
14-May-11	04:00	08:10	4.17	3954	3954	TIH	TIH
14-May-11	08:10	09:30	1.33	3954	4823	Reaming	TIH
14-May-11	09:30	12:20	2.83	4823	4855	Drilling Cement	Drilling - (WOB:13;GPM :425;RPM:65)
14-May-11	12:20	12:45	0.42	4855	4855	MWD Survey	Conn. & Check Shot
14-May-11	12:45	19:00	6.25	4855	4886	Sliding	Sliding - (WOB:7;GPM :425;TFO:315M)
14-May-11	19:00	19:20	0.33	4886	4886	Survey & Conn.	Survey & Conn.
14-May-11	19:20	22:10	2.83	4886	4911	Sliding	Sliding - (WOB:12;GPM :440;TFO:50M)
14-May-11	22:10	23:00	0.83	4911	4918	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)
14-May-11	23:00	23:15	0.25	4918	4918	Survey & Conn.	Survey & Conn.
14-May-11	23:15	24:00	0.75	4918	4938	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)



JOB NO.:	02826-432-22	Report Time:	2400	12 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Sunday, May 15, 2011 at 0000 to Sunday, May 15, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters					
Start Depth	4938.00	Rotary Hours	10.00	WOB	45	Pick UP	120	Slack Off	105	SPM	
End Depth	5364.00	Circulating Hours	1.08	RAB	110	SPP	2350	FlowRate	450 - 450	180	
Total Drilled:	426.00	Avg. Total ROP:	21.94	Mud Data							
Total Rotary Drilled:	228.00	Avg. Rotary ROP:	22.80	Type	PH Pa			PV	12	SOLID	6.5
Total Drilled Sliding:	198.00	Avg. Slide ROP:	21.03	Weight	9.3	GAS	0	YP	11	BHT°	122
Slide Hours:	9.42	Percent Rotary:	53.52	Viscosity	42	SAND	0.3	PH	10.2	Flow T°	88
Below Rotary Hrs.	24.00	Percent Slide:	46.48	Chlorides	900	WL	6			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 3:TBA, MOTOR 7/8 2.9 ADJ, UBHO SUB, NMDC, NMDC, X/O 4 FH BOX / 4-1/2 XH PIN, 34 JTS HWDP, X/O 3-1/2 IF BOX X 4 FH PIN, X/O 4-1/2 XH BOX X 3 1/2 IF PIN, 14 steel drill collars, X/O 4 FH BOX X 4-1/2 XH PIN, 4 Drill Pipe,			
Second Directional :	Mark Orear			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			Signature:							
MWD Operator2	Patrick Puettman										
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema							Daily Cost			
Incl. In:	1.6	Azm. In:	76.2	Incl. Out:	23.1	Azm. Out:	75.24	Cummulative Cost:			

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
15-May-11	00:00	01:15	1.25	4938	4950	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)
15-May-11	01:15	01:25	0.17	4950	4950	Survey & Conn.	Survey & Conn.
15-May-11	01:25	03:00	1.58	4950	4982	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)
15-May-11	03:00	03:15	0.25	4982	4982	Survey & Conn.	Survey & Conn.
15-May-11	03:15	04:30	1.25	4982	5014	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)
15-May-11	04:30	04:45	0.25	5014	5014	Survey & Conn.	Survey & Conn.
15-May-11	04:45	06:10	1.42	5014	5046	Drilling	Drilling - (WOB:13;GPM :425;RPM:65)
15-May-11	06:10	06:25	0.25	5046	5046	Survey & Conn.	Survey & Conn.
15-May-11	06:25	07:35	1.17	5046	5077	Drilling	Drilling - (WOB:30;GPM :450;RPM:45)
15-May-11	07:35	08:25	0.83	5077	5077	Rig Service-Inhole	Rig Service-Inhole
15-May-11	08:25	08:40	0.25	5077	5077	Survey & Conn.	Survey & Conn.
15-May-11	08:40	09:15	0.58	5077	5092	Sliding	Sliding - (WOB:12;GPM :450;TFO:50M)
15-May-11	09:15	10:00	0.75	5092	5109	Drilling	Drilling - (WOB:42;GPM :450;RPM:45)
15-May-11	10:00	10:15	0.25	5109	5109	Survey & Conn.	Survey & Conn.
15-May-11	10:15	11:20	1.08	5109	5141	Drilling	Drilling - (WOB:42;GPM :450;RPM:45)
15-May-11	11:20	11:30	0.17	5141	5141	Survey & Conn.	Survey & Conn.
15-May-11	11:30	13:10	1.67	5141	5173	Sliding	Sliding - (WOB:45;GPM :450;TFO:90L)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
15-May-11	13:10	13:25	0.25	5173	5173	Survey & Conn.	Survey & Conn.
15-May-11	13:25	14:50	1.42	5173	5205	Sliding	Sliding - (WOB:45;GPM :450;TFO:10L)
15-May-11	14:50	15:05	0.25	5205	5205	Survey & Conn.	Survey & Conn.
15-May-11	15:05	15:45	0.67	5205	5217	Sliding	Sliding - (WOB:45;GPM :450;TFO:10L)
15-May-11	15:45	16:00	0.25	5217	5217	MWD Survey	MWD Survey
15-May-11	16:00	16:20	0.33	5217	5227	Sliding	Sliding - (WOB:45;GPM :450;TFO:0G)
15-May-11	16:20	16:45	0.42	5227	5236	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
15-May-11	16:45	17:00	0.25	5236	5236	Survey & Conn.	Survey & Conn.
15-May-11	17:00	17:55	0.92	5236	5257	Sliding	Sliding - (WOB:45;GPM :450;TFO:20R)
15-May-11	17:55	18:20	0.42	5257	5268	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
15-May-11	18:20	18:40	0.33	5268	5268	Survey & Conn.	Survey & Conn.
15-May-11	18:40	19:45	1.08	5268	5290	Sliding	Sliding - (WOB:45;GPM :450;TFO:20L)
15-May-11	19:45	20:05	0.33	5290	5300	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
15-May-11	20:05	20:20	0.25	5300	5300	Survey & Conn.	Survey & Conn.
15-May-11	20:20	21:55	1.58	5300	5326	Sliding	Sliding - (WOB:45;GPM :450;TFO:10L)
15-May-11	21:55	22:10	0.25	5326	5332	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
15-May-11	22:10	22:25	0.25	5332	5332	Survey & Conn.	Survey & Conn.
15-May-11	22:25	23:35	1.17	5332	5360	Sliding	Sliding - (WOB:45;GPM :450;TFO:20L)
15-May-11	23:35	23:40	0.08	5360	5364	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
15-May-11	23:40	24:00	0.33	5364	5364	Survey & Conn.	Survey & Conn.



JOB NO.:	02826-432-22	Report Time:	2400	13 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Monday, May 16, 2011 at 0000 to Monday, May 16, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	5364.00	Rotary Hours	0.42	WOB	45	Pick UP	120	Slack Off	105	SPM		
End Depth	5460.00	Circulating Hours	2.42	RAB	110	SPP	2350	FlowRate	450 - 450	180		
Total Drilled:	96.00	Avg. Total ROP:	16.94	Mud Data								
Total Rotary Drilled:	9.00	Avg. Rotary ROP:	21.60	Type	PH Pa			PV	12	SOLID	6.5	
Total Drilled Sliding:	87.00	Avg. Slide ROP:	16.57	Weight	9.3	GAS	0	YP	11	BHT°	122	
Slide Hours:	5.25	Percent Rotary:	9.38	Viscosity	42	SAND	0.3	PH	10.2	Flow T°	88	
Below Rotary Hrs.	24.00	Percent Slide:	90.63	Chlorides	900	WL	6			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth	BHA # 4:6 BLADE E-1100, MOTOR 7/8 5.7 FIXED 2.38, UBHO SUB, NMDC, X/O 4 FH BOX / 4-1/2 XH PIN, 34 JTS HWDP, X/O 3-1/2 IF BOX X 4 FH PIN, X/O 4-1/2 XH BOX X 3 1/2 IF PIN, 14 steel drill collars, X/O 4 FH BOX X 4-1/2 XH PIN, 4 Drill Pipe,					
Second Directional :	Mark Orear			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			Signature:								
MWD Operator2	Patrick Puettman											
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema						Daily Cost					
Incl. In:	23.1	Azm. In:	75.24	Incl. Out:	25.5	Azm. Out:	73.4	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
16-May-11	00:00	01:30	1.50	5364	5392	Sliding	Sliding - (WOB:45;GPM :450;TFO:20L)
16-May-11	01:30	01:40	0.17	5392	5396	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
16-May-11	01:40	02:15	0.58	5396	5396	Survey & Conn.	Survey & Conn.
16-May-11	02:15	02:30	0.25	5396	5400	Sliding	Sliding - (WOB:45;GPM :450;TFO:30L)
16-May-11	02:30	03:00	0.50	5400	5400	Circulating	Circulating bottoms up
16-May-11	03:00	08:45	5.75	5400	5400	POOH	POOH
16-May-11	08:45	10:35	1.83	5400	5400	Change BHA	C/O Motor and Bit / Inspect MWD
16-May-11	10:35	11:45	1.17	5400	5400	TIH	TIH
16-May-11	11:45	13:10	1.42	5400	5400	Reaming	Ream f/ 1160 to 1210'
16-May-11	13:10	19:30	6.33	5400	5400	TIH	TIH / Wash and Ream as Required
16-May-11	19:30	20:00	0.50	5400	5400	Rig Service-Inhole	Rig Service-Inhole
16-May-11	20:00	21:30	1.50	5400	5427	Sliding	Sliding - (WOB:45;GPM :450;TFO:30L)
16-May-11	21:30	21:45	0.25	5427	5432	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
16-May-11	21:45	22:00	0.25	5432	5432	Survey & Conn.	Survey & Conn.
16-May-11	22:00	24:00	2.00	5432	5460	Sliding	Sliding - (WOB:45;GPM :450;TFO:20L)



JOB NO.:	02826-432-22	Report Time:	2400	14 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Tuesday, May 17, 2011 at 0000 to Tuesday, May 17, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters						
Start Depth	5460.00	Rotary Hours	2.08	WOB	12	Pick UP	120	Slack Off	105	SPM		
End Depth	5941.00	Circulating Hours	0.00	RAB	110	SPP	2400	FlowRate	450 - 450	180		
Total Drilled:	481.00	Avg. Total ROP:	25.77	Mud Data								
Total Rotary Drilled:	26.00	Avg. Rotary ROP:	12.48	Type	PH Pa			PV	12	SOLID	6.5	
Total Drilled Sliding:	455.00	Avg. Slide ROP:	27.44	Weight	9.3	GAS	0	YP	11	BHT°	122	
Slide Hours:	16.58	Percent Rotary:	5.41	Viscosity	42	SAND	0.3	PH	10.2	Flow T°	88	
Below Rotary Hrs.	24.00	Percent Slide:	94.59	Chlorides	900	WL	6			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 4:6 BLADE E-1100, MOTOR 7/8 5.7 FIXED 2.38, UBHO SUB, NMDC, X/O 4 FH BOX / 4-1/2 XH PIN, 34 JTS HWDP, X/O 3-1/2 IF BOX X 4 FH PIN, X/O 4-1/2 XH BOX X 3 1/2 IF PIN, 14 steel drill collars, X/O 4 FH BOX X 4-1/2 XH PIN, 4 Drill Pipe,				
Second Directional :	Mark Orear			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			7	23	5939						
MWD Operator2	Patrick Puettman			Signature:								
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema								Daily Cost			
Incl. In:	25.5	Azm. In:	73.4	Incl. Out:	85.7	Azm. Out:	63.5	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
17-May-11	00:00	00:15	0.25	5460	5464	Sliding	Sliding - (WOB:45;GPM :450;TFO:20L)
17-May-11	00:15	00:30	0.25	5464	5464	Survey & Conn.	Survey & Conn.
17-May-11	00:30	02:05	1.58	5464	5495	Sliding	Sliding - (WOB:45;GPM :450;TFO:20L)
17-May-11	02:05	02:15	0.17	5495	5495	Survey & Conn.	Survey & Conn.
17-May-11	02:15	03:25	1.17	5495	5527	Sliding	Sliding - (WOB:45;GPM :450;TFO:10L)
17-May-11	03:25	03:35	0.17	5527	5527	Survey & Conn.	Survey & Conn.
17-May-11	03:35	04:40	1.08	5527	5559	Sliding	Sliding - (WOB:45;GPM :450;TFO:10L)
17-May-11	04:40	05:00	0.33	5559	5559	Survey & Conn.	Survey & Conn.
17-May-11	05:00	05:55	0.92	5559	5591	Sliding	Sliding - (WOB:45;GPM :450;TFO:10L)
17-May-11	05:55	06:15	0.33	5591	5591	Survey & Conn.	Survey & Conn.
17-May-11	06:15	06:50	0.58	5591	5623	Sliding	Sliding - (WOB:45;GPM :450;TFO:10L)
17-May-11	06:50	07:05	0.25	5623	5623	Survey & Conn.	Survey & Conn.
17-May-11	07:05	08:00	0.92	5623	5655	Sliding	Sliding - (WOB:45;GPM :450;TFO:0G)
17-May-11	08:00	08:15	0.25	5655	5655	Survey & Conn.	Survey & Conn.
17-May-11	08:15	09:00	0.75	5655	5686	Sliding	Sliding - (WOB:45;GPM :450;TFO:0G)
17-May-11	09:00	09:20	0.33	5686	5686	Survey & Conn.	Survey & Conn.
17-May-11	09:20	10:05	0.75	5686	5718	Sliding	Sliding - (WOB:45;GPM :450;TFO:0G)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
17-May-11	10:05	10:45	0.67	5718	5718	POOH	Go After Pipe Sceens
17-May-11	10:45	10:55	0.17	5718	5718	Survey & Conn.	Survey & Conn.
17-May-11	10:55	11:55	1.00	5718	5750	Sliding	Sliding - (WOB:12;GPM :450;TFO:15R)
17-May-11	11:55	12:25	0.50	5750	5750	Survey & Conn.	Survey & Conn.
17-May-11	12:25	13:05	0.67	5750	5782	Sliding	Sliding - (WOB:12;GPM :450;TFO:15R)
17-May-11	13:05	13:25	0.33	5782	5782	Survey & Conn.	Survey & Conn.
17-May-11	13:25	14:20	0.92	5782	5814	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
17-May-11	14:20	14:50	0.50	5814	5814	Survey & Conn.	Survey & Conn.
17-May-11	14:50	15:10	0.33	5814	5817	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
17-May-11	15:10	16:10	1.00	5817	5828	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
17-May-11	16:10	16:40	0.50	5828	5832	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
17-May-11	16:40	17:10	0.50	5832	5842	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
17-May-11	17:10	17:25	0.25	5842	5846	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
17-May-11	17:25	17:40	0.25	5846	5846	Survey & Conn.	Survey & Conn.
17-May-11	17:40	18:20	0.67	5846	5861	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
17-May-11	18:20	18:50	0.50	5861	5870	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
17-May-11	18:50	19:50	1.00	5870	5878	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
17-May-11	19:50	20:05	0.25	5878	5878	Survey & Conn.	Survey & Conn.
17-May-11	20:05	20:20	0.25	5878	5881	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
17-May-11	20:20	21:25	1.08	5881	5909	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
17-May-11	21:25	22:00	0.58	5909	5909	Survey & Conn.	Survey & Conn.
17-May-11	22:00	23:00	1.00	5909	5923	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
17-May-11	23:00	23:15	0.25	5923	5926	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
17-May-11	23:15	24:00	0.75	5926	5941	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)



JOB NO.:	02826-432-22	Report Time:	2400	15 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Wednesday, May 18, 2011 at 0000 to Wednesday, May 18, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters					
Start Depth	5941.00	Rotary Hours	2.00	WOB	45	Pick UP	120	Slack Off	105	SPM	
End Depth	5991.00	Circulating Hours	1.08	RAB	110	SPP	2400	FlowRate	450 - 450	180	
Total Drilled:	50.00	Avg. Total ROP:	25.00	Mud Data							
Total Rotary Drilled:	50.00	Avg. Rotary ROP:	25.00	Type	PH Pa			PV	12	SOLID	6.5
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9.3	GAS	0	YP	11	BHT°	122
Slide Hours:	0.00	Percent Rotary:	100.00	Viscosity	42	SAND	0.3	PH	10.2	Flow T°	88
Below Rotary Hrs.	11.25	Percent Slide:	.00	Chlorides	900	WL	6			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 5:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NM PONY DC, NMDC, NMDC, X/O 4 FH BOX x 3 1/2 IF PIN, 60 STANDS PUSH PIPE, 60 JTS HWDP, ,			
Second Directional :	Mark Orear			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			7	23	5939					
MWD Operator2	Patrick Puettman			Signature:							
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema										
Incl. In:	85.7	Azm. In:	63.5	Incl. Out:	93	Azm. Out:	64	Daily Cost			
						Cummulative Cost:					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
18-May-11	00:00	00:15	0.25	5941	5941	Survey & Conn.	Survey & Conn.
18-May-11	00:15	01:20	1.08	5941	5973	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
18-May-11	01:20	01:40	0.33	5973	5973	Survey & Conn.	Survey & Conn.
18-May-11	01:40	02:35	0.92	5973	5991	Drilling	Drilling - (WOB:45;GPM :450;RPM:45) TD Intermediate
18-May-11	02:35	02:55	0.33	5991	5991	Survey & Conn.	Survey & Conn.
18-May-11	02:55	04:00	1.08	5991	5991	Circulating	Circulating
18-May-11	04:00	10:00	6.00	5991	5991	POOH	POOH
18-May-11	10:00	11:15	1.25	5991	5991	Change BHA	L/D Directional Tools
18-May-11	11:15	24:00	12.75	5991	5991	Standby	R/U and Run Casing



JOB NO.:	02826-432-22	Report Time:	2400	16 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Thursday, May 19, 2011 at 0000 to Thursday, May 19, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters													
Start Depth	0.00		Rotary Hours	0.00		WOB	45		Pick UP	120		Slack Off	105		SPM				
End Depth	0.00		Circulating Hours	0.00		RAB	110		SPP	2400		FlowRate	450 - 450		180				
Total Drilled:	0.00		Avg. Total ROP:	NA		Mud Data													
Total Rotary Drilled:	0.00		Avg. Rotary ROP:	NA		Type	PH Pa				PV	12		SOLID	6.5				
Total Drilled Sliding:	0.00		Avg. Slide ROP:	NA		Weight	9.3		GAS	0		YP	11		BHT°	122			
Slide Hours:	0.00		Percent Rotary:	NA		Viscosity	42		SAND	0.3		PH	10.2		Flow T°	88			
Below Rotary Hrs.	0.00		Percent Slide:	NA		Chlorides	900		WL	6				Oil %	0				
PERSONNEL						CASING						BHA							
Lead Directional :		Kevin Wolfe				Size		Lb/ft		Set Depth		N/A							
Second Directional :		Mark Orear				9 5/8		29.3		975									
MWD Operator1		Michael Bowman				7		23		5939									
MWD Operator2		Patrick Puettman																	
Directional Company:		GWD				Signature:													
Geologist:																			
Company Man:		John Tietema																	
Incl. In:		93		Azm. In:		64		Incl. Out:		93		Azm. Out:		64		Cummulative Cost:			

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
19-May-11	00:00	24:00	24.00	5991	5991	Standby	Run Casing, Cement, N/D BOP's Set Slips, N/U BOP's, Test BOP's, Mix New Mud



JOB NO.:	02826-432-22	Report Time:	2400	17 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Friday, May 20, 2011 at 0000 to Friday, May 20, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters									
Start Depth	5991.00	Rotary Hours	3.00	WOB	0	Pick UP	120	Slack Off	105	SPM				
End Depth	5991.00	Circulating Hours	0.25	RAB	110	SPP	2400	FlowRate	0 - 300	180				
Total Drilled:	0.00	Avg. Total ROP:	.00	Mud Data										
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	.00	Type	PH Pa			PV	12	SOLID	6.5			
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9.3	GAS	0	YP	11	BHT°	122			
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	42	SAND	0.3	PH	10.2	Flow T°	88			
Below Rotary Hrs.	16.08	Percent Slide:	NA	Chlorides	900	WL	6			Oil %	0			
PERSONNEL				CASING					BHA					
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 5:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NM PONY DC, NMDC, NMDC, X/O 4 FH BOX x 3 1/2 IF PIN, 60 STANDS PUSH PIPE, 60 JTS HWDP, ,						
Second Directional :	Mark Orear			9 5/8	29.3	975								
MWD Operator1	Michael Bowman			7	23	5939								
MWD Operator2	Patrick Puettman			Signature:										
Directional Company:	GWD													
Geologist:														
Company Man:	John Tietema							Daily Cost						
Incl. In:	93	Azm. In:	64	Incl. Out:	93	Azm. Out:	64	Cummulative Cost:						

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
20-May-11	00:00	07:55	7.92	5991	5991	Standby	Mix and Condition Mud
20-May-11	07:55	09:55	2.00	5991	5991	Change BHA	P/U Directional Tools
20-May-11	09:55	10:35	0.67	5991	5991	TIH	TIH
20-May-11	10:35	10:50	0.25	5991	5991	MWD Survey	Surface Test MWD
20-May-11	10:50	14:35	3.75	5991	5991	TIH	TIH
20-May-11	14:35	15:15	0.67	5991	5991	POOH	L/D 14 Joints of DP
20-May-11	15:15	15:30	0.25	5991	5991	TIH	Strap and Pick Up HWDP
20-May-11	15:30	20:00	4.50	5991	5991	TIH	TIH
20-May-11	20:00	23:00	3.00	5991	5991	Drilling Cement	Attempt Drill Cement
20-May-11	23:00	24:00	1.00	5991	5991	POOH	POOH to check BHA



JOB NO.:	02826-432-22	Report Time:	2400	18 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Saturday, May 21, 2011 at 0000 to Saturday, May 21, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth		5991.00	Rotary Hours		6.58	WOB		12	Pick UP		120	Slack Off		100	SPM		
End Depth		6134.00	Circulating Hours		0.58	RAB		105	SPP		1800	FlowRate		0 - 300	120		
Total Drilled:		143.00	Avg. Total ROP:		13.73	Mud Data											
Total Rotary Drilled:		93.00	Avg. Rotary ROP:		14.13	Type	Potassium Formate				PV	8	SOLID		2.6		
Total Drilled Sliding:		50.00	Avg. Slide ROP:		13.04	Weight		8.8	GAS		0	YP	12	BHT°		109	
Slide Hours:		3.83	Percent Rotary:		65.03	Viscosity		39	SAND		0.01	PH	10.1	Flow T°		88	
Below Rotary Hrs.		24.00	Percent Slide:		34.97	Chlorides		200	WL		7.6			Oil %		0	
PERSONNEL						CASING						BHA					
Lead Directional :		Kevin Wolfe				Size		Lb/ft		Set Depth		BHA # 6:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 60 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,					
Second Directional :		Mark Orear				9 5/8		29.3		975							
MWD Operator1		Michael Bowman				7		23		5939							
MWD Operator2		Patrick Puettman				Signature:											
Directional Company:		GWD															
Geologist:																	
Company Man:		John Tietema										Daily Cost					
Incl. In:		93	Azm. In:		64	Incl. Out:		93.8	Azm. Out:		68.4	Cummulative Cost:					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
21-May-11	00:00	03:00	3.00	5991	5991	POOH	POOH
21-May-11	03:00	04:00	1.00	5991	5991	Change BHA	Confirm Strap, Talk with Town, Change Out Motor as Precaution
21-May-11	04:00	09:00	5.00	5991	5991	TIH	TIH
21-May-11	09:00	09:30	0.50	5991	5991	Drilling Cement	Attempt to Drill Cement
21-May-11	09:30	13:00	3.50	5991	5991	Other	Change Out Kelly
21-May-11	13:00	15:55	2.92	5991	5991	Drilling Cement	Drill Shoe Track
21-May-11	15:55	16:20	0.42	5991	5995	Drilling	Drilling - (WOB:45;GPM :450;RPM:45)
21-May-11	16:20	16:35	0.25	5995	5995	MWD Survey	Conn. & Sync Gamma
21-May-11	16:35	17:30	0.92	5995	6027	Drilling	Drilling - (WOB:5;GPM :300;RPM:60)
21-May-11	17:30	17:45	0.25	6027	6027	Survey & Conn.	Survey & Conn.
21-May-11	17:45	19:00	1.25	6027	6042	Sliding	Sliding - (WOB:12;GPM :450;TFO:10R)
21-May-11	19:00	20:00	1.00	6042	6091	Drilling	Drilling - (WOB:8.6;GPM :300;RPM:60)
21-May-11	20:00	20:20	0.33	6091	6091	MWD Survey	MWD Survey
21-May-11	20:20	22:20	2.00	6091	6115	Sliding	Sliding - (WOB:12;GPM :300;TFO:150L)
21-May-11	22:20	23:10	0.83	6115	6123	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
21-May-11	23:10	23:25	0.25	6123	6123	Survey & Conn.	Survey & Conn.
21-May-11	23:25	24:00	0.58	6123	6134	Sliding	Sliding - (WOB:12;GPM :300;TFO:180G)



JOB NO.:	02826-432-22	Report Time:	2400	19 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Sunday, May 22, 2011 at 0000 to Sunday, May 22, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth		6134.00	Rotary Hours		10.65	WOB		9	Pick UP		115	Slack Off		80	SPM		
End Depth		6806.00	Circulating Hours		3.17	RAB		102	SPP		1756	FlowRate		300 - 300	120		
Total Drilled:		672.00	Avg. Total ROP:		34.61	Mud Data											
Total Rotary Drilled:		527.00	Avg. Rotary ROP:		49.48	Type	Potassium Formate				PV	9	SOLID		4		
Total Drilled Sliding:		145.00	Avg. Slide ROP:		16.54	Weight		9.1	GAS		0	YP	12	BHT°		120	
Slide Hours:		8.77	Percent Rotary:		78.42	Viscosity		40	SAND		0.5	PH	9.3	Flow T°		104	
Below Rotary Hrs.		24.00	Percent Slide:		21.58	Chlorides		500	WL		8			Oil %		0	
PERSONNEL						CASING						BHA					
Lead Directional :		Kevin Wolfe				Size		Lb/ft		Set Depth		BHA # 6:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 60 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,					
Second Directional :		Steven Webb				9 5/8		29.3		975							
MWD Operator1		Michael Bowman				7		23		5939							
MWD Operator2		Patrick Puettman				Signature:											
Directional Company:		GWD															
Geologist:																	
Company Man:		John Tietema										Daily Cost					
Incl. In:		93.8	Azm. In:		68.4	Incl. Out:		93.5	Azm. Out:		67.3	Cummulative Cost:					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
22-May-11	00:00	00:40	0.67	6134	6154	Drilling	Drilling - (WOB:8;GPM :300;RPM:60)
22-May-11	00:40	00:55	0.25	6154	6154	MWD Survey	Conn & Check Shot
22-May-11	00:55	01:20	0.42	6154	6186	Drilling	Drilling - (WOB:8;GPM :300;RPM:60)
22-May-11	01:20	01:35	0.25	6186	6186	MWD Survey	Conn & Check Shot
22-May-11	01:35	02:00	0.42	6186	6198	Sliding	Sliding - (WOB:12;GPM :300;TFO:180G)
22-May-11	02:00	02:20	0.33	6198	6218	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	02:20	02:35	0.25	6218	6218	Survey & Conn.	Survey & Conn.
22-May-11	02:35	03:05	0.50	6218	6236	Sliding	Sliding - (WOB:12;GPM :300;TFO:160R)
22-May-11	03:05	03:25	0.33	6236	6250	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	03:25	03:40	0.25	6250	6250	MWD Survey	Conn & Check Shot
22-May-11	03:40	04:10	0.50	6250	6260	Sliding	Sliding - (WOB:12;GPM :300;TFO:180G)
22-May-11	04:10	04:30	0.33	6260	6283	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	04:30	04:45	0.25	6283	6283	MWD Survey	Conn & Check Shot
22-May-11	04:45	05:15	0.50	6283	6313	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	05:15	05:30	0.25	6313	6313	Survey & Conn.	Conn & Check Shot
22-May-11	05:30	06:10	0.67	6313	6345	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	06:10	06:25	0.25	6345	6345	MWD Survey	Conn & Check Shot

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
22-May-11	06:25	06:50	0.42	6345	6377	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	06:50	07:05	0.25	6377	6377	MWD Survey	Conn & Check Shot
22-May-11	07:05	07:35	0.50	6377	6409	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	07:35	07:50	0.25	6409	6409	Survey & Conn.	Survey & Conn.
22-May-11	07:50	08:30	0.67	6409	6424	Sliding	Sliding - (WOB:12;GPM :300;TFO:160L)
22-May-11	08:30	08:45	0.25	6424	6441	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	08:45	09:10	0.42	6441	6441	Rig Service-Inhole	Rig Service-Inhole
22-May-11	09:10	09:20	0.17	6441	6441	MWD Survey	Conn & Check Shot
22-May-11	09:20	09:40	0.33	6441	6472	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	09:40	09:55	0.25	6472	6472	MWD Survey	Conn & Check Shot
22-May-11	09:55	11:00	1.08	6472	6497	Sliding	Sliding - (WOB:12;GPM :300;TFO:30L)
22-May-11	11:00	11:30	0.50	6497	6504	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	11:30	11:45	0.25	6504	6504	Survey & Conn.	Survey & Conn.
22-May-11	11:45	12:40	0.92	6504	6510	Sliding	Sliding - (WOB:12;GPM :300;TFO:10L)
22-May-11	12:40	13:10	0.50	6510	6536	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	13:10	13:30	0.33	6536	6536	MWD Survey	Conn & Check Shot
22-May-11	13:30	13:55	0.42	6536	6543	Sliding	Sliding - (WOB:12;GPM :300;TFO:0G)
22-May-11	13:55	14:15	0.33	6543	6568	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	14:15	14:25	0.17	6568	6568	Survey & Conn.	Survey & Conn.
22-May-11	14:25	15:10	0.75	6568	6580	Sliding	Sliding - (WOB:12;GPM :300;TFO:10R)
22-May-11	15:10	15:30	0.33	6580	6600	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	15:30	15:45	0.25	6600	6600	MWD Survey	Conn & Check Shot
22-May-11	15:45	16:40	0.92	6600	6612	Sliding	Sliding - (WOB:12;GPM :300;TFO:0G)
22-May-11	16:40	17:20	0.67	6612	6631	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	17:20	17:25	0.08	6631	6631	Survey & Conn.	Survey & Conn.
22-May-11	17:25	17:50	0.42	6631	6663	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	17:50	17:55	0.08	6663	6663	MWD Survey	Check Shot & Conn
22-May-11	17:55	18:50	0.92	6663	6695	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	18:50	18:55	0.08	6695	6695	Survey & Conn.	Survey & Conn.
22-May-11	18:55	19:40	0.75	6695	6727	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	19:40	19:45	0.08	6727	6727	MWD Survey	Check Shot & Conn
22-May-11	19:45	20:35	0.83	6727	6759	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	20:35	20:40	0.08	6759	6759	Survey & Conn.	Survey & Conn.
22-May-11	20:40	22:05	1.42	6759	6777	Sliding	Sliding - (WOB:12;GPM :300;TFO:10L)
22-May-11	22:05	22:25	0.33	6777	6791	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	22:25	22:30	0.08	6791	6791	MWD Survey	Check Shot & Conn
22-May-11	22:30	22:45	0.25	6791	6796	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
22-May-11	22:45	23:56	1.18	6796	6806	Sliding	Sliding - (WOB:12;GPM :300;TFO:180)
22-May-11	23:56	24:00	0.07	6806	6806	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)



JOB NO.:	02826-432-22	Report Time:	2400	20 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Monday, May 23, 2011 at 0000 to Monday, May 23, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters					
Start Depth	6806.00	Rotary Hours	10.38	WOB	12	Pick UP	115	Slack Off	80	SPM	
End Depth	7378.00	Circulating Hours	2.58	RAB	102	SPP	1900	FlowRate	300 - 300	120	
Total Drilled:	572.00	Avg. Total ROP:	31.99	Mud Data							
Total Rotary Drilled:	477.00	Avg. Rotary ROP:	45.94	Type	Potassium Formate			PV	9	SOLID	4
Total Drilled Sliding:	95.00	Avg. Slide ROP:	12.67	Weight	9.1	GAS	0	YP	12	BHT°	120
Slide Hours:	7.50	Percent Rotary:	83.39	Viscosity	40	SAND	0.5	PH	9.3	Flow T°	104
Below Rotary Hrs.	24.00	Percent Slide:	16.61	Chlorides	500	WL	8			Oil %	0
PERSONNEL				CASING					BHA		
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 6:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 60 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,			
Second Directional :	Steven Webb			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			7	23	5939					
MWD Operator2	Patrick Puettman			Signature:							
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema								Daily Cost		
Incl. In:	93.5	Azm. In:	67.3						Incl. Out:	89.8	Azm. Out:

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-May-11	00:00	00:25	0.42	6806	6822	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
23-May-11	00:25	00:30	0.08	6822	6822	Survey & Conn.	Survey & Conn.
23-May-11	00:30	02:05	1.58	6822	6886	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
23-May-11	02:05	02:10	0.08	6886	6886	Survey & Conn.	Survey & Conn.
23-May-11	02:10	02:35	0.42	6886	6896	Sliding	Sliding - (WOB:12;GPM :300;TFO:180)
23-May-11	02:35	04:00	1.42	6896	6950	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
23-May-11	04:00	04:10	0.17	6950	6950	Survey & Conn.	Survey & Conn.
23-May-11	04:10	04:45	0.58	6950	6981	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
23-May-11	04:45	05:00	0.25	6981	6981	MWD Survey	Conn & Check Shot
23-May-11	05:00	05:50	0.83	6981	6991	Sliding	Sliding - (WOB:12;GPM :300;TFO:360G)
23-May-11	05:50	06:10	0.33	6991	7013	Drilling	Drilling - (WOB:9;GPM :300;RPM:60)
23-May-11	06:10	07:10	1.00	7013	7013	Circulating	Circulating
23-May-11	07:10	09:10	2.00	7013	7013	Short Trip	Short Trip to Shoe @ 5939 No Excess Drag
23-May-11	09:10	09:25	0.25	7013	7013	Survey & Conn.	Survey & Conn.
23-May-11	09:25	10:05	0.67	7013	7045	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	10:05	10:20	0.25	7045	7045	MWD Survey	Conn & Check Shot
23-May-11	10:20	10:45	0.42	7045	7051	Sliding	Sliding - (WOB:12;GPM :300;TFO:35L)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-May-11	10:45	11:40	0.92	7051	7077	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	11:40	11:55	0.25	7077	7077	Survey & Conn.	Survey & Conn.
23-May-11	11:55	12:15	0.33	7077	7109	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	12:15	12:30	0.25	7109	7109	MWD Survey	Conn & Check Shot
23-May-11	12:30	12:53	0.38	7109	7140	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	12:53	13:10	0.28	7140	7140	Survey & Conn.	Survey & Conn.
23-May-11	13:10	13:30	0.33	7140	7172	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	13:30	13:35	0.08	7172	7172	MWD Survey	Conn & Check Shot
23-May-11	13:35	16:40	3.08	7172	7201	Sliding	Sliding - (WOB:12;GPM :300;TFO:30L)
23-May-11	16:40	16:50	0.17	7201	7204	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	16:50	17:30	0.67	7204	7204	Rig Service-Inhole	Rig Service-Inhole
23-May-11	17:30	17:35	0.08	7204	7204	Survey & Conn.	Survey & Conn.
23-May-11	17:35	18:10	0.58	7204	7236	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	18:10	18:15	0.08	7236	7236	MWD Survey	Conn & Check Shot
23-May-11	18:15	18:55	0.67	7236	7268	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	18:55	19:00	0.08	7268	7268	Survey & Conn.	Survey & Conn.
23-May-11	19:00	19:55	0.92	7268	7300	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	19:55	20:05	0.17	7300	7300	Survey & Conn.	Survey & Conn.
23-May-11	20:05	20:45	0.67	7300	7310	Sliding	Sliding - (WOB:12;GPM :300;TFO:30L)
23-May-11	20:45	21:15	0.50	7310	7331	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	21:15	21:20	0.08	7331	7331	Survey & Conn.	Survey & Conn.
23-May-11	21:20	22:00	0.67	7331	7346	Sliding	Sliding - (WOB:12;GPM :300;TFO:174L)
23-May-11	22:00	22:35	0.58	7346	7363	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
23-May-11	22:35	24:00	1.42	7363	7378	Sliding	Sliding - (WOB:12;GPM :300;TFO:160L)



JOB NO.:	02826-432-22	Report Time:	2400	21 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Tuesday, May 24, 2011 at 0000 to Tuesday, May 24, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters											
Start Depth		7378.00	Rotary Hours		12.83	WOB		10	Pick UP		106	Slack Off		76	SPM		
End Depth		8095.00	Circulating Hours		3.92	RAB		90	SPP		2000	FlowRate		300 - 300	120		
Total Drilled:		717.00	Avg. Total ROP:		40.02	Mud Data											
Total Rotary Drilled:		636.00	Avg. Rotary ROP:		49.56	Type	Conn & Check Shot				PV	11	SOLID		4.2		
Total Drilled Sliding:		81.00	Avg. Slide ROP:		15.93	Weight		9.2	GAS		500	YP	13	BHT°		131	
Slide Hours:		5.08	Percent Rotary:		88.70	Viscosity		41	SAND		0.25	PH	9.5	Flow T°		105	
Below Rotary Hrs.		24.00	Percent Slide:		11.30	Chlorides		700	WL		6			Oil %		0	
PERSONNEL						CASING						BHA					
Lead Directional :		Kevin Wolfe				Size		Lb/ft		Set Depth		BHA # 6:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 60 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,					
Second Directional :		Steven Webb				9 5/8		29.3		975							
MWD Operator1		Michael Bowman				7		23		5939							
MWD Operator2		Patrick Puettman															
Directional Company:		GWD				Signature:											
Geologist:																	
Company Man:		John Tietema															
Incl. In:		89.8	Azm. In:		65.4	Incl. Out:		90.9	Azm. Out:		67.2	Cummulative Cost:					

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-May-11	00:00	00:30	0.50	7378	7395	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	00:30	00:35	0.08	7395	7395	MWD Survey	Conn & Check Shot
24-May-11	00:35	01:25	0.83	7395	7427	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	01:25	01:30	0.08	7427	7427	Survey & Conn.	Survey & Conn.
24-May-11	01:30	02:15	0.75	7427	7438	Sliding	Sliding - (WOB:12;GPM :300;TFO:15R)
24-May-11	02:15	02:50	0.58	7438	7459	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	02:50	02:55	0.08	7459	7459	MWD Survey	Conn & Check Shot
24-May-11	02:55	03:35	0.67	7459	7490	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	03:35	03:40	0.08	7490	7490	MWD Survey	Conn & Check Shot
24-May-11	03:40	04:30	0.83	7490	7505	Sliding	Sliding - (WOB:12;GPM :300;TFO:15R)
24-May-11	04:30	04:55	0.42	7505	7522	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	04:55	05:10	0.25	7522	7522	Survey & Conn.	Survey & Conn.
24-May-11	05:10	05:40	0.50	7522	7554	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	05:40	05:55	0.25	7554	7554	MWD Survey	Conn & Check Shot
24-May-11	05:55	06:40	0.75	7554	7569	Sliding	Sliding - (WOB:12;GPM :300;TFO:20R)
24-May-11	06:40	07:05	0.42	7569	7586	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	07:05	07:20	0.25	7586	7586	MWD Survey	Conn & Check Shot

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
24-May-11	07:20	07:55	0.58	7586	7618	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	07:55	08:10	0.25	7618	7618	Survey & Conn.	Survey & Conn.
24-May-11	08:10	08:50	0.67	7618	7649	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	08:50	09:00	0.17	7649	7649	MWD Survey	Conn & Check Shot
24-May-11	09:00	09:40	0.67	7649	7681	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	09:40	09:50	0.17	7681	7681	MWD Survey	Conn & Check Shot
24-May-11	09:50	10:30	0.67	7681	7713	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	10:30	11:00	0.50	7713	7713	Survey & Conn.	Survey & Conn. / Talk to KGH Office
24-May-11	11:00	11:30	0.50	7713	7723	Sliding	Sliding - (WOB:12;GPM :300;TFO:20L)
24-May-11	11:30	12:35	1.08	7723	7745	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	12:35	12:50	0.25	7745	7745	MWD Survey	Conn & Check Shot
24-May-11	12:50	13:45	0.92	7745	7777	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	13:45	14:00	0.25	7777	7777	MWD Survey	Conn & Check Shot
24-May-11	14:00	14:25	0.42	7777	7795	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	14:25	15:00	0.58	7795	7795	MWD Survey	Conn & Check Shot / Talk to Office
24-May-11	15:00	15:55	0.92	7795	7808	Sliding	Sliding - (WOB:12;GPM :300;TFO:180G)
24-May-11	15:55	16:10	0.25	7808	7808	Survey & Conn.	Survey & Conn.
24-May-11	16:10	16:39	0.48	7808	7840	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	16:39	16:55	0.27	7840	7840	MWD Survey	Conn & Check Shot
24-May-11	16:55	17:15	0.33	7840	7865	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	17:15	17:26	0.18	7865	7865	MWD Survey	Conn & Check Shot
24-May-11	17:26	17:35	0.15	7865	7872	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	17:35	17:52	0.28	7872	7872	MWD Survey	Conn & Check Shot
24-May-11	17:52	18:18	0.43	7872	7904	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	18:18	18:35	0.28	7904	7904	Survey & Conn.	Survey & Conn.
24-May-11	18:35	19:22	0.78	7904	7912	Sliding	Sliding - (WOB:12;GPM :300;TFO:45R)
24-May-11	19:22	19:52	0.50	7912	7936	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	19:52	20:10	0.30	7936	7936	MWD Survey	Conn & Check Shot
24-May-11	20:10	20:43	0.55	7936	7945	Sliding	Sliding - (WOB:12;GPM :300;TFO:30R)
24-May-11	20:43	21:07	0.40	7945	7968	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	21:07	21:22	0.25	7968	7968	MWD Survey	Conn & Check Shot
24-May-11	21:22	21:45	0.38	7968	7999	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	21:45	22:04	0.32	7999	7999	Survey & Conn.	Survey & Conn.
24-May-11	22:04	22:24	0.33	7999	8031	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	22:24	22:37	0.22	8031	8031	MWD Survey	Conn & Check Shot
24-May-11	22:37	23:07	0.50	8031	8063	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	23:07	23:22	0.25	8063	8063	MWD Survey	Conn & Check Shot
24-May-11	23:22	23:46	0.40	8063	8095	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
24-May-11	23:46	24:00	0.23	8095	8095	Survey & Conn.	Survey & Conn.



JOB NO.:	02826-432-22	Report Time:	2400	22 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Wednesday, May 25, 2011 at 0000 to Wednesday, May 25, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	8095.00	Rotary Hours	7.13	WOB	0	Pick UP	106	Slack Off	76	SPM		
End Depth	8509.00	Circulating Hours	4.17	RAB	90	SPP	0	FlowRate	0 - 300	0		
Total Drilled:	414.00	Avg. Total ROP:	45.66	Mud Data								
Total Rotary Drilled:	387.00	Avg. Rotary ROP:	54.25	Type	Conn & Check Shot			PV	11	SOLID	4.2	
Total Drilled Sliding:	27.00	Avg. Slide ROP:	13.97	Weight	9.2	GAS	500	YP	13	BHT°	131	
Slide Hours:	1.93	Percent Rotary:	93.48	Viscosity	41	SAND	0.25	PH	9.5	Flow T°	105	
Below Rotary Hrs.	24.00	Percent Slide:	6.52	Chlorides	700	WL	6			Oil %	0	
PERSONNEL				CASING					BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth	BHA # 7:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 100 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,					
Second Directional :	Steven Webb			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			7	23	5939						
MWD Operator2	Patrick Puettman											
Directional Company:	GWD			Signature:								
Geologist:												
Company Man:	John Tietema											
Incl. In:	90.9	Azm. In:	67.2	Incl. Out:	90.7	Azm. Out:	65.7	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-May-11	00:00	00:34	0.57	8095	8103	Sliding	Sliding - (WOB:12;GPM :300;TFO:30R)
25-May-11	00:34	00:55	0.35	8103	8127	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
25-May-11	00:55	01:09	0.23	8127	8127	MWD Survey	Conn & Check Shot
25-May-11	01:09	01:35	0.43	8127	8159	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
25-May-11	01:35	01:53	0.30	8159	8159	MWD Survey	Conn & Check Shot
25-May-11	01:53	02:30	0.62	8159	8168	Sliding	Sliding - (WOB:12;GPM :300;TFO:30R)
25-May-11	02:30	02:50	0.33	8168	8191	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
25-May-11	02:50	03:06	0.27	8191	8191	Survey & Conn.	Survey & Conn.
25-May-11	03:06	03:32	0.43	8191	8222	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
25-May-11	03:32	03:45	0.22	8222	8222	MWD Survey	Conn & Check Shot
25-May-11	03:45	04:15	0.50	8222	8254	Drilling	Drilling - (WOB:10;GPM :300;RPM:60)
25-May-11	04:15	04:35	0.33	8254	8254	MWD Survey	Conn & Check Shot
25-May-11	04:35	05:20	0.75	8254	8264	Sliding	Sliding - (WOB:15;GPM :300;TFO:360G)
25-May-11	05:20	05:55	0.58	8264	8286	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
25-May-11	05:55	06:10	0.25	8286	8286	Survey & Conn.	Survey & Conn.
25-May-11	06:10	06:40	0.50	8286	8318	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
25-May-11	06:40	06:55	0.25	8318	8318	MWD Survey	Conn & Check Shot

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
25-May-11	06:55	07:25	0.50	8318	8350	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
25-May-11	07:25	07:40	0.25	8350	8350	MWD Survey	Conn & Check Shot
25-May-11	07:40	08:40	1.00	8350	8382	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
25-May-11	08:40	08:55	0.25	8382	8382	Survey & Conn.	Survey & Conn.
25-May-11	08:55	09:35	0.67	8382	8413	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
25-May-11	09:35	09:50	0.25	8413	8413	MWD Survey	Conn & Check Shot
25-May-11	09:50	10:45	0.92	8413	8445	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
25-May-11	10:45	11:00	0.25	8445	8445	MWD Survey	Conn & Check Shot
25-May-11	11:00	11:30	0.50	8445	8477	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
25-May-11	11:30	11:45	0.25	8477	8477	Survey & Conn.	Survey & Conn.
25-May-11	11:45	12:10	0.42	8477	8509	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
25-May-11	12:10	12:20	0.17	8509	8509	MWD Survey	MWD Survey
25-May-11	12:20	14:15	1.92	8509	8509	Circulating	Circulating
25-May-11	14:15	20:00	5.75	8509	8509	POOH	POOH
25-May-11	20:00	22:00	2.00	8509	8509	Rig repair	Rig repair
25-May-11	22:00	22:30	0.50	8509	8509	Change BHA	Change BHA
25-May-11	22:30	24:00	1.50	8509	8509	TIH	TIH



JOB NO.:	02826-432-22	Report Time:	2400	23 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Thursday, May 26, 2011 at 0000 to Thursday, May 26, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters					
Start Depth	8509.00	Rotary Hours	11.97	WOB	12	Pick UP	106	Slack Off	76	SPM	
End Depth	9107.00	Circulating Hours	4.15	RAB	90	SPP	2100	FlowRate	0 - 300	120	
Total Drilled:	598.00	Avg. Total ROP:	46.30	Mud Data							
Total Rotary Drilled:	581.00	Avg. Rotary ROP:	48.55	Type	Conn & Check Shot			PV	10	SOLID	4.4
Total Drilled Sliding:	17.00	Avg. Slide ROP:	17.89	Weight	9.3	GAS	400	YP	11	BHT°	133
Slide Hours:	0.95	Percent Rotary:	97.16	Viscosity	40	SAND	0.5	PH	9.5	Flow T°	105
Below Rotary Hrs.	24.00	Percent Slide:	2.84	Chlorides	700	WL	5.2			Oil %	0
PERSONNEL				CASING					BHA		
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 7:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 100 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,			
Second Directional :	Steven Webb			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			7	23	5939					
MWD Operator2	Patrick Puettman			Signature:							
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema								Daily Cost		
Incl. In:	90.7	Azm. In:	65.7						Incl. Out:	92.1	Azm. Out:

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-May-11	00:00	05:00	5.00	8509	8509	TIH	TIH
26-May-11	05:00	05:45	0.75	8509	8509	Circulating	Break Circ and Wash to BTM
26-May-11	05:45	06:00	0.25	8509	8509	MWD Survey	Conn & Check Shot
26-May-11	06:00	06:35	0.58	8509	8541	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	06:35	06:50	0.25	8541	8541	MWD Survey	Conn & Check Shot
26-May-11	06:50	07:20	0.50	8541	8573	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	07:20	07:35	0.25	8573	8573	Survey & Conn.	Survey & Conn.
26-May-11	07:35	08:20	0.75	8573	8604	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	08:20	08:35	0.25	8604	8604	MWD Survey	Conn & Check Shot
26-May-11	08:35	09:05	0.50	8604	8636	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	09:05	09:20	0.25	8636	8636	MWD Survey	Conn & Check Shot
26-May-11	09:20	09:50	0.50	8636	8668	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	09:50	10:05	0.25	8668	8668	Survey & Conn.	Survey & Conn.
26-May-11	10:05	10:50	0.75	8668	8700	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	10:50	11:10	0.33	8700	8700	MWD Survey	Conn & Check Shot
26-May-11	11:10	11:45	0.58	8700	8710	Sliding	Sliding - (WOB:15;GPM :300;TFO:25R)
26-May-11	11:45	12:50	1.08	8710	8732	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
26-May-11	12:50	13:05	0.25	8732	8732	MWD Survey	Conn & Check Shot
26-May-11	13:05	13:35	0.50	8732	8732	Rig repair	Work On Pumps
26-May-11	13:35	14:15	0.67	8732	8763	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	14:15	14:30	0.25	8763	8763	Survey & Conn.	Survey & Conn.
26-May-11	14:30	15:05	0.58	8763	8795	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
26-May-11	15:05	15:20	0.25	8795	8795	MWD Survey	Conn & Check Shot
26-May-11	15:20	15:55	0.58	8795	8827	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	15:55	16:05	0.17	8827	8827	MWD Survey	Conn & Check Shot
26-May-11	16:05	16:32	0.45	8827	8859	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	16:32	16:49	0.28	8859	8859	Survey & Conn.	Survey & Conn.
26-May-11	16:49	17:15	0.43	8859	8891	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	17:15	17:33	0.30	8891	8891	MWD Survey	Conn & Check Shot
26-May-11	17:33	17:56	0.38	8891	8896	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	17:56	18:39	0.72	8896	8923	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	18:39	18:56	0.28	8923	8923	MWD Survey	Conn & Check Shot
26-May-11	18:56	19:25	0.48	8923	8954	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	19:25	19:41	0.27	8954	8954	Survey & Conn.	Survey & Conn.
26-May-11	19:41	20:07	0.43	8954	8986	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	20:07	20:24	0.28	8986	8986	MWD Survey	MWD Survey
26-May-11	20:24	20:50	0.43	8986	9018	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	20:50	21:06	0.27	9018	9018	MWD Survey	Conn & Check Shot
26-May-11	21:06	21:49	0.72	9018	9050	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	21:49	21:57	0.13	9050	9050	Survey & Conn.	Survey & Conn.
26-May-11	21:57	22:19	0.37	9050	9057	Sliding	Sliding - (WOB:15;GPM :300;TFO:135R)
26-May-11	22:19	23:14	0.92	9057	9082	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
26-May-11	23:14	23:30	0.27	9082	9082	MWD Survey	MWD Survey
26-May-11	23:30	24:00	0.50	9082	9107	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)



JOB NO.:	02826-432-22	Report Time:	2400	24 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangley	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Friday, May 27, 2011 at 0000 to Friday, May 27, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters					
Start Depth	9107.00	Rotary Hours	13.47	WOB	13	Pick UP	124	Slack Off	45	SPM	
End Depth	9835.00	Circulating Hours	6.03	RAB	95	SPP	2300	FlowRate	300 - 300	120	
Total Drilled:	728.00	Avg. Total ROP:	50.79	Mud Data							
Total Rotary Drilled:	710.00	Avg. Rotary ROP:	52.72	Type	Conn & Check Shot			PV	10	SOLID	3.8
Total Drilled Sliding:	18.00	Avg. Slide ROP:	20.77	Weight	9.2	GAS	88	YP	15	BHT°	138
Slide Hours:	0.87	Percent Rotary:	97.53	Viscosity	41	SAND	0.5	PH	9.2	Flow T°	110
Below Rotary Hrs.	24.00	Percent Slide:	2.47	Chlorides	600	WL	4.8			Oil %	0
PERSONNEL				CASING				BHA			
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 7:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 100 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,			
Second Directional :	Steven Webb			9 5/8	29.3	975					
MWD Operator1	Michael Bowman			7	23	5939					
MWD Operator2	Patrick Puettman			Signature:							
Directional Company:	GWD										
Geologist:											
Company Man:	John Tietema							Daily Cost			
Incl. In:	92.1	Azm. In:	68	Incl. Out:	91.3	Azm. Out:	70.4	Cummulative Cost:			

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-May-11	00:00	00:15	0.25	9107	9114	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
27-May-11	00:15	00:30	0.25	9114	9114	MWD Survey	Conn & Check Shot
27-May-11	00:30	00:46	0.27	9114	9121	Sliding	Sliding - (WOB:15;GPM :300;TFO:120L)
27-May-11	00:46	01:13	0.45	9121	9145	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
27-May-11	01:13	01:28	0.25	9145	9145	Survey & Conn.	Survey & Conn.
27-May-11	01:28	02:17	0.82	9145	9177	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
27-May-11	02:17	02:27	0.17	9177	9177	MWD Survey	Conn & Check Shot
27-May-11	02:27	03:02	0.58	9177	9209	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
27-May-11	03:02	03:16	0.23	9209	9209	MWD Survey	Conn & Check Shot
27-May-11	03:16	03:50	0.57	9209	9241	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
27-May-11	03:50	04:05	0.25	9241	9241	Survey & Conn.	Survey & Conn.
27-May-11	04:05	04:35	0.50	9241	9273	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
27-May-11	04:35	04:50	0.25	9273	9273	MWD Survey	Conn & Check Shot
27-May-11	04:50	05:30	0.67	9273	9273	MWD Survey	Re-Log Gamma 9234-9273
27-May-11	05:30	06:05	0.58	9273	9304	Drilling	Drilling - (WOB:12;GPM :300;RPM:60)
27-May-11	06:05	06:20	0.25	9304	9304	MWD Survey	Conn & Check Shot
27-May-11	06:20	06:50	0.50	9304	9336	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
27-May-11	06:50	07:05	0.25	9336	9336	Survey & Conn.	Survey & Conn.
27-May-11	07:05	07:40	0.58	9336	9368	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)
27-May-11	07:40	07:55	0.25	9368	9368	MWD Survey	MWD Survey
27-May-11	07:55	08:30	0.58	9368	9400	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)
27-May-11	08:30	08:45	0.25	9400	9400	Survey & Conn.	Survey & Conn.
27-May-11	08:45	09:15	0.50	9400	9432	Drilling	Drilling - (WOB:13;GPM :300;RPM:50)
27-May-11	09:15	09:30	0.25	9432	9432	Survey & Conn.	Survey & Conn.
27-May-11	09:30	10:05	0.58	9432	9464	Drilling	Drilling - (WOB:13;GPM :300;RPM:50)
27-May-11	10:05	10:25	0.33	9464	9464	MWD Survey	Conn & Check Shot
27-May-11	10:25	10:50	0.42	9464	9495	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	10:50	11:05	0.25	9495	9495	MWD Survey	Conn & Check Shot
27-May-11	11:05	11:30	0.42	9495	9527	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	11:30	11:45	0.25	9527	9527	Survey & Conn.	Survey & Conn.
27-May-11	11:45	12:10	0.42	9527	9559	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	12:10	12:25	0.25	9559	9559	MWD Survey	Conn & Check Shot
27-May-11	12:25	12:55	0.50	9559	9591	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	12:55	13:10	0.25	9591	9591	MWD Survey	Conn & Check Shot
27-May-11	13:10	13:42	0.53	9591	9623	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	13:42	13:59	0.28	9623	9623	Survey & Conn.	Survey & Conn.
27-May-11	13:59	14:19	0.33	9623	9655	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	14:19	14:31	0.20	9655	9655	MWD Survey	Conn & Check Shot
27-May-11	14:31	15:05	0.57	9655	9686	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	15:05	15:21	0.27	9686	9686	MWD Survey	Conn & Check Shot
27-May-11	15:21	16:14	0.88	9686	9718	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	16:14	16:32	0.30	9718	9718	Survey & Conn.	Survey & Conn.
27-May-11	16:32	16:54	0.37	9718	9725	Sliding	Sliding - (WOB:15;GPM :300;TFO:6L)
27-May-11	16:54	17:36	0.70	9725	9750	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	17:36	17:48	0.20	9750	9750	MWD Survey	Conn & Check Shot
27-May-11	17:48	18:35	0.78	9750	9782	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	18:35	18:45	0.17	9782	9782	MWD Survey	Conn & Check Shot
27-May-11	18:45	19:19	0.57	9782	9814	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	19:19	19:36	0.28	9814	9814	Survey & Conn.	Survey & Conn.
27-May-11	19:36	19:50	0.23	9814	9818	Sliding	Sliding - (WOB:15;GPM :300;TFO:160L)
27-May-11	19:50	20:33	0.72	9818	9833	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
27-May-11	20:33	21:11	0.63	9833	9833	Short Trip	Short Trip 5 stands
27-May-11	21:11	23:14	2.05	9833	9833	Rig Service-Inhole	Repair wash pipe
27-May-11	23:14	23:52	0.63	9833	9833	TIH	TIH
27-May-11	23:52	24:00	0.13	9833	9835	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)



JOB NO.:	02826-432-22	Report Time:	2400	25 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Saturday, May 28, 2011 at 0000 to Saturday, May 28, 2011 at 2400

DRILLING SUMMARY						Drilling Parameters						
Start Depth	9835.00	Rotary Hours	10.90	WOB	14	Pick UP	130	Slack Off	30	SPM		
End Depth	10323.00	Circulating Hours	8.47	RAB	85	SPP	2400	FlowRate	300 - 300	120		
Total Drilled:	488.00	Avg. Total ROP:	36.65	Mud Data								
Total Rotary Drilled:	462.00	Avg. Rotary ROP:	42.39	Type	Conn & Check Shot			PV	10	SOLID	3.8	
Total Drilled Sliding:	26.00	Avg. Slide ROP:	10.76	Weight	9.2	GAS	88	YP	15	BHT°	138	
Slide Hours:	2.42	Percent Rotary:	94.67	Viscosity	41	SAND	0.5	PH	9.2	Flow T°	110	
Below Rotary Hrs.	24.00	Percent Slide:	5.33	Chlorides	600	WL	4.8			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 7:DSR613M-B12, MOTOR 7/8 2.6 FIXED 1.5, NM PONY DC, UBHO, NMDC, NMDC, NM PONY DC, X/O 4 FH BOX x 3 1/2 IF PIN, 100 STANDS PUSH PIPE, 60 JTS HWDP, 4 Drill Pipe,				
Second Directional :	Steven Webb			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			7	23	5939						
MWD Operator2	Patrick Puettman			Signature:								
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema							Daily Cost				
Incl. In:	91.3	Azm. In:	70.4	Incl. Out:	87.2	Azm. Out:	67.2	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-May-11	00:00	00:20	0.33	9835	9846	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
28-May-11	00:20	00:58	0.63	9846	9846	MWD Survey	Conn & Check Shot
28-May-11	00:58	01:23	0.42	9846	9861	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
28-May-11	01:23	01:35	0.20	9861	9861	MWD Survey	Conn & Check Shot
28-May-11	01:35	02:10	0.58	9861	9877	Drilling	Drilling - (WOB:13;GPM :300;RPM:55)
28-May-11	02:10	02:30	0.33	9877	9877	MWD Survey	Conn & Check Shot
28-May-11	02:30	02:55	0.42	9877	9889	Sliding	Sliding - (WOB:15;GPM :300;TFO:160L)
28-May-11	02:55	03:40	0.75	9889	9909	Drilling	Drilling - (WOB:10;GPM :300;RPM:55)
28-May-11	03:40	03:55	0.25	9909	9909	Survey & Conn.	Survey & Conn.
28-May-11	03:55	04:35	0.67	9909	9941	Drilling	Drilling - (WOB:10;GPM :300;RPM:55)
28-May-11	04:35	04:50	0.25	9941	9941	MWD Survey	Conn & Check Shot
28-May-11	04:50	05:05	0.25	9941	9957	Drilling	Drilling - (WOB:10;GPM :300;RPM:55)
28-May-11	05:05	05:15	0.17	9957	9957	MWD Survey	Conn & Check Shot
28-May-11	05:15	06:40	1.42	9957	9973	Drilling	Drilling - (WOB:10;GPM :300;RPM:55)
28-May-11	06:40	06:55	0.25	9973	9973	MWD Survey	Conn & Check Shot
28-May-11	06:55	07:30	0.58	9973	10005	Drilling	Drilling - (WOB:12;GPM :300;RPM:55)
28-May-11	07:30	07:45	0.25	10005	10005	Survey & Conn.	Survey & Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
28-May-11	07:45	08:30	0.75	10005	10037	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)
28-May-11	08:30	08:50	0.33	10037	10037	MWD Survey	Conn & Check Shot
28-May-11	08:50	10:50	2.00	10037	10051	Sliding	Sliding - (WOB:15;GPM :300;TFO:170L)
28-May-11	10:50	11:20	0.50	10051	10068	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)
28-May-11	11:20	11:35	0.25	10068	10068	MWD Survey	Conn & Check Shot
28-May-11	11:35	12:00	0.42	10068	10082	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)
28-May-11	12:00	12:45	0.75	10082	10082	Rig repair	Repair Pason Auto Driller
28-May-11	12:45	13:10	0.42	10082	10100	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)
28-May-11	13:10	13:25	0.25	10100	10100	Survey & Conn.	Survey & Conn.
28-May-11	13:25	14:15	0.83	10100	10132	Drilling	Drilling - (WOB:13;GPM :300;RPM:60)
28-May-11	14:15	14:35	0.33	10132	10132	MWD Survey	Conn & Check Shot
28-May-11	14:35	15:25	0.83	10132	10164	Drilling	Drilling - (WOB:14;GPM :300;RPM:60)
28-May-11	15:25	16:45	1.33	10164	10164	Circulating	Work Tight Hole
28-May-11	16:45	17:00	0.25	10164	10164	MWD Survey	Conn & Check Shot
28-May-11	17:00	17:35	0.58	10164	10195	Drilling	Drilling - (WOB:14;GPM :300;RPM:60)
28-May-11	17:35	17:55	0.33	10195	10195	Survey & Conn.	Survey & Conn.
28-May-11	17:55	18:20	0.42	10195	10227	Drilling	Drilling - (WOB:14;GPM :300;RPM:60)
28-May-11	18:20	18:38	0.30	10227	10227	MWD Survey	Conn & Check Shot
28-May-11	18:38	19:04	0.43	10227	10259	Drilling	Drilling - (WOB:14;GPM :300;RPM:60)
28-May-11	19:04	19:55	0.85	10259	10259	Reaming	Work and Ream Pipe To Bottom
28-May-11	19:55	20:03	0.13	10259	10259	MWD Survey	Conn & Check Shot
28-May-11	20:03	20:26	0.38	10259	10291	Drilling	Drilling - (WOB:14;GPM :300;RPM:60)
28-May-11	20:26	20:49	0.38	10291	10291	Survey & Conn.	Survey & Conn.
28-May-11	20:49	21:09	0.33	10291	10323	Drilling	Drilling - (WOB:14;GPM :300;RPM:60)
28-May-11	21:09	21:29	0.33	10323	10323	MWD Survey	MWD Survey
28-May-11	21:29	24:00	2.52	10323	10323	Circulating	Circulate And Pump Sweep



JOB NO.:	02826-432-22	Report Time:	2400	26 of 26
Company:	KGH Operating Co.	API JOB #		
LOCATION:	SW of Rangley Co	WORK ORDER#		
RIG NAME:	L&W #1	FIELD:	SW Rangely	
STATE:	Colorado	Township:	1S	
COUNTY:	Rio Blanco	SECTRANGE:	10	104W
WELL NAME:	Meagher 10-1H			

From Sunday, May 29, 2011 at 0000 to Sunday, May 29, 2011 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	0.00	Rotary Hours	0.00	WOB	14	Pick UP	130	Slack Off	30	SPM		
End Depth	0.00	Circulating Hours	1.00	RAB	85	SPP	2400	FlowRate	300 - 300	120		
Total Drilled:	0.00	Avg. Total ROP:	NA	Mud Data								
Total Rotary Drilled:	0.00	Avg. Rotary ROP:	NA	Type	Conn & Check Shot			PV	10	SOLID	3.8	
Total Drilled Sliding:	0.00	Avg. Slide ROP:	NA	Weight	9.2	GAS	88	YP	15	BHT°	138	
Slide Hours:	0.00	Percent Rotary:	NA	Viscosity	41	SAND	0.5	PH	9.2	Flow T°	110	
Below Rotary Hrs.	11.25	Percent Slide:	NA	Chlorides	600	WL	4.8			Oil %	0	
PERSONNEL				CASING				BHA				
Lead Directional :	Kevin Wolfe			Size	Lb/ft	Set Depth		BHA # 8				
Second Directional :	Steven Webb			9 5/8	29.3	975						
MWD Operator1	Michael Bowman			7	23	5939						
MWD Operator2	Patrick Puettman			Signature:								
Directional Company:	GWD											
Geologist:												
Company Man:	John Tietema							Daily Cost				
Incl. In:	87.2	Azm. In:	67.2	Incl. Out:	87.2	Azm. Out:	67.2	Cummulative Cost:				

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
29-May-11	00:00	01:00	1.00	10323	10323	Circulating	Circulating
29-May-11	01:00	05:00	4.00	10323	10323	POOH	L/D Drill Pipe
29-May-11	05:00	10:45	5.75	10323	10323	POOH	POOH
29-May-11	10:45	11:15	0.50	10323	10323	Change BHA	L/D Directional Tools
29-May-11	11:15	24:00	12.75	10323	10323	Standby	Rig Down and Load Out Trucks



BHA's & Slide/Rotate Reports

Well Information

BHA # 1



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Rio Blanco
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
SECT. RANGE: 10 104W
Lead DD: Kevin Wolfe
Co. Man: John Tietema
BHA TYPE: Steerable Assembly

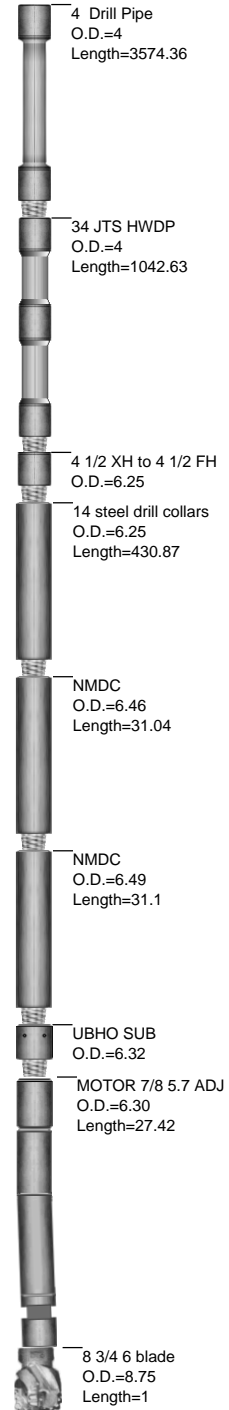
BHA Summary Information

TIME IN - OUT			Rotary Hours		68.50		Start Depth		1030.00		RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		91.83 / 2.25		End Depth		5142.00				
05-May-11 @ 00:30	13-May-11 @ 24:00	Slide Hours		21.08		Percent Rotary:		89.35		0 -70	0 -485	
		Below Rotary Hrs.		142.50		Percent Slide:		10.65				
Total Drilled:			4112.00		Avg. Total ROP:		45.90		Incl.		Azimuth	
Total Rotary Drilled:			3674.00		Avg. Rotary ROP:		53.64		IN	OUT	IN	OUT
Total Drilled Sliding:			438.00		Avg. Slide ROP:		20.77		1.5	1.8	141.71	135.90
SPP	1600 -2100	Weights	SO	0 -78	PU	0 -100	RAB	0 -95	Reason POOH			

Bit Data							MOTOR DATA					Mud Data				
REED		8 3/4 6 blade					Motor 7/8 2.9 Fixed					Type	PH Pa			
Type Bit			PDC				Model: XL 1000			Pad OD		WT 9.2 GAS 0 Solids 6				
TFA		1.178					MFG. GWD			7 1/8		Vis 42 SAND 0.4 T ° 88				
JETS		16	16	16	16	16	Bend ° 1.5		Stator/Rotor 7/8		PV 15 PH 9.4 Chlor 800					
		16	0	0	0	0	Bit to Bend 5.88		Motor Diff		YP 12 WL 7 Oil % 0					
Bit Coding			IADC#				Rev/GAL 0.16						BHT° 102.2			
IR	OR	DL	Loc	BS	G	ODL	NB Stab 0		PUMPS		PUMP1		PUMP1			
0	0						Rotor Jet 0									
Bit Drop:		130 PSI @ 461 GPM				Sensor Offsets										
Comments				Sensor	45	Sonic	0									
				Gamma	42	DN	SC	0								
				Restiv	0	GYRO	0									

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	8 3/4 6 blade	127487		8.75	1.00	1.00	4 1/2 REGP
2	MOTOR 7/8 5.7 ADJ 1.5	650404		6.30	27.42	28.42	4 1/2 XHB
3	UBHO SUB	6074	2.75	6.32	2.48	30.90	4 1/2 XHB
4	NMDC	65162	2.8125	6.49	31.10	62.00	4 1/2 XHB
5	NMDC	65161	2.8125	6.46	31.04	93.04	4 1/2 XHB
6	14 steel drill collars	Rig	2.25	6.25	430.87	523.91	4 1/2 XHB
7	4 1/2 XH to 4 1/2 FH	Rental	2.25	6.25	1.10	525.01	4 1/2 XHB
8	34 JTS HWDP	HWDP-2.563-	2.563	4	1,042.63	1567.64	4 FHB
9	4 Drill Pipe	DP-2.438-G-105	2.438	4	3,574.36	5142.00	4 FHB



Well Information

BHA # 3



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Rio Blanco
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
SECT. RANGE: 10 104W
Lead DD: Kevin Wolfe
Co. Man: John Tietema
BHA TYPE: Steerable Assembly

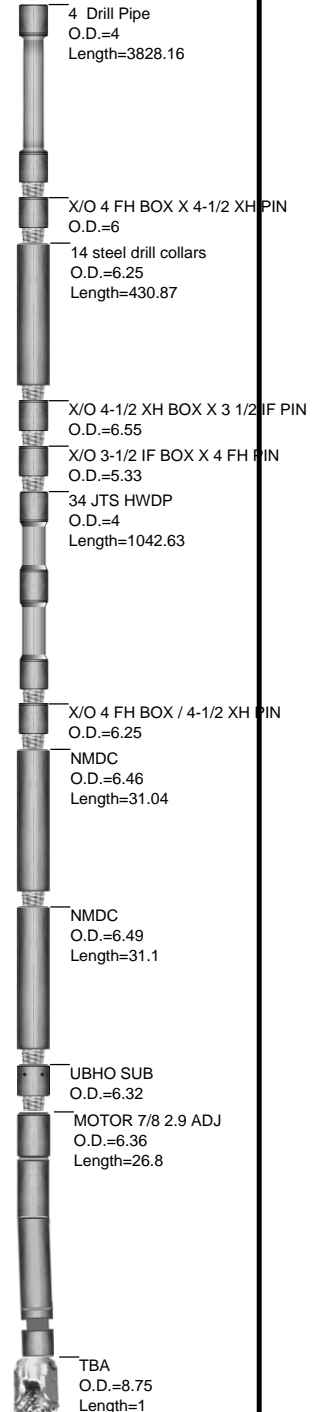
BHA Summary Information

TIME IN - OUT			Rotary Hours		14.58		Start Depth			4823.00		RPM	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		38.17 / 3.33		End Depth			5400.00				
14-May-11 @ 00:00	16-May-11 @ 10:35	Slide Hours			20.25		Percent Rotary:			50.43		0 -65	425 -450
		Below Rotary Hrs.			54.58		Percent Slide:			49.57			
Total Drilled:			577.00		Avg. Total ROP:		16.56		Incl.		Azimuth		
Total Rotary Drilled:			291.00		Avg. Rotary ROP:		19.95		IN	OUT	IN		OUT
Total Drilled Sliding:			286.00		Avg. Slide ROP:		14.12		6.7	9.8	63.09		66.00
SPP	2300 -2350	Weights	SO	78 -105	PU	100 -120	RAB	95 -110	Reason POOH				

Bit Data							MOTOR DATA							Mud Data						
		TBA					MOTOR 7/8 2.9 FIXED							Type	PH Pa					
Type Bit				ROCK			Model: XL 1000				Pad OD			WT	9.3	GAS	0	Solids	6.5	
TFA		0.746					MFG. GWD				7.25			Vis	42	SAND	0.3	T °	88	
JETS			18	18	18	0	0	Bend °	2	Stator/Rotor			7/8	PV	12	PH	10.2	Chlor	900	
			0	0	0	0	0	Bit to Bend	4.91	Motor Diff			150	YP	11	WL	6	Oil %	0	
Bit Coding				IADC#				Rev/GAL	0.16								BHT°	122		
IR	OR	DL	Loc	BS	G	ODL	NB Stab			0	PUMPS		PUMP1			PUMP1				
							Rotor Jet			0	NAME									
											Model									
Bit Drop:			287 PSI @ 432 GPM				Sensor Offsets				Type									
Comments					Sensor	46	Sonic	0	Liner		.00						.00			
					Gamma	42	DNSC	4800	Stroke		.00						.00			
					Restiv	0	GYRO	0	Efficiency		.00						.00			

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	TBA	TBA		8.75	1.00	1.00	4 1/2 REGP
2	MOTOR 7/8 2.9 ADJ	650242		6.36	26.80	27.80	4 1/2 XHB
3	UBHO SUB	6074	2.75	6.32	2.48	30.28	4 1/2 XHB
4	NMDC	65162	2.8125	6.49	31.10	61.38	4 1/2 XHB
5	NMDC	65161	2.8125	6.46	31.04	92.42	4 1/2 XHB
6	X/O 4 FH BOX / 4-1/2 XH PIN	Rental 1	2.5	6.25	1.10	93.52	4 FHB
7	34 JTS HWDP	HWDP-2.563-	2.563	4	1,042.63	1136.15	4 FHB
8	X/O 3-1/2 IF BOX X 4 FH PIN	Rental 2	2.0625	5.33	1.09	1137.24	3 1/2 IFB
9	X/O 4-1/2 XH BOX X 3 1/2 IF PIN	Rental 3	2.25	6.55	1.95	1139.19	4 1/2 XHB
10	14 steel drill collars	Rig	2.25	6.25	430.87	1570.06	4 1/2 XHB
11	X/O 4 FH BOX X 4-1/2 XH PIN	Rental 4	2.2875	6	1.78	1571.84	4 FHB
12	4 Drill Pipe	DP-3-S-135	3	4	3,828.16	5400.00	4 FHB



Well Information

BHA # 4



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Rio Blanco
WELL NAME: Meagher 10-1H

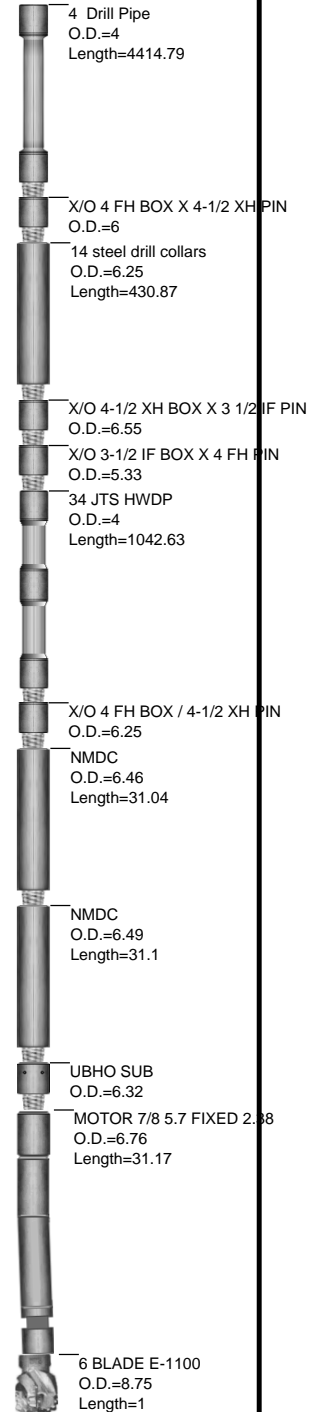
FIELD: SW Rangely
Township: 1S
SECT. RANGE: 10 104W
Lead DD: Kevin Wolfe
Co. Man: John Tietema
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT				Rotary Hours				4.33		Start Depth				5400.00		RPM		Flow Rate	
Start Time		End Time		Circ Hrs Tot/Only				27.42 / 3.00		End Depth				5991.00		Range			
16-May-11 @ 10:35		18-May-11 @ 11:15		Slide Hours				20.08		Percent Rotary:				13.71		0 -45		450 -450	
				Below Rotary Hrs.				48.67		Percent Slide:				86.29					
Total Drilled:				591.00		Avg. Total ROP:				24.20		Incl.		Azimuth					
Total Rotary Drilled:				81.00		Avg. Rotary ROP:				18.69		IN OUT		IN		OUT			
Total Drilled Sliding:				510.00		Avg. Slide ROP:				25.39		28.4 65.4		70.91		62.80			
SPP	2350 -2400	Weights		SO	105 -105		PU	120 -120		RAB	110 -110		Reason POOH						
Bit Data						MOTOR DATA						Mud Data							
REED	6 BLADE E-1100					MOTOR 7/8 5.7 FIXED						Type	PH Pa						
Type Bit			PDC			Model: XL 1000				Pad OD		WT 9.3 GAS 0 Solids 6.5							
TFA	1.491					MFG. GWD				7.20		Vis 42 SAND 0.3 T ° 88							
JETS		18	18	18	18	18	Bend ° 2.38		Stator/Rotor 7/8		PV 12 PH 10.2 Chlor 900								
		18	0	0	0	0	Bit to Bend 5.13		Motor Diff 150		YP 11 WL 6 Oil % 0								
Bit Coding			IADC#				Rev/GAL 0.24								BHT°		122		
IR	OR	DL	Loc	BS	G	ODL	NB Stab 0				PUMPS		PUMP1		PUMP1				
0	0						Rotor Jet 0												
Bit Drop:		73 PSI @ 437 GPM				Sensor Offsets						Type							
Comments				Sensor	50	Sonic	0			Liner									
				Gamma	46	DNCS	5400			Stroke									
				Restiv	0	GYRO	0			Efficiency									

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	6 BLADE E-1100	127487		8.75	1.00	1.00	4 1/2 REGP
2	MOTOR 7/8 5.7 FIXED 2.38	650405		6.76	31.17	32.17	4 1/2 XHB
3	UBHO SUB	6074	2.75	6.32	2.48	34.65	4 1/2 XHB
4	NMDC	65162	2.8125	6.49	31.10	65.75	4 1/2 XHB
5	NMDC	65161	2.8125	6.46	31.04	96.79	4 1/2 XHB
6	X/O 4 FH BOX / 4-1/2 XH PIN	Rental 1	2.5	6.25	1.10	97.89	4 FHB
7	34 JTS HWDP	HWDP-2.563-	2.563	4	1,042.63	1140.52	4 FHB
8	X/O 3-1/2 IF BOX X 4 FH PIN	Rental 2	2.0625	5.33	1.09	1141.61	3 1/2 IFB
9	X/O 4-1/2 XH BOX X 3 1/2 IF PIN	Rental 3	2.25	6.55	1.95	1143.56	4 1/2 XHB
10	14 steel drill collars	Rig	2.25	6.25	430.87	1574.43	4 1/2 XHB
11	X/O 4 FH BOX X 4-1/2 XH PIN	Rental 4	2.2875	6	1.78	1576.21	4 FHB
12	4 Drill Pipe	DP-3-S-135	3	4	4,414.79	5991.00	4 FHB



Well Information

BHA # 5



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Rio Blanco
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
SECT. RANGE: 10 104W
Lead DD: Kevin Wolfe
Co. Man: John Tietema
BHA TYPE: Steerable Assembly

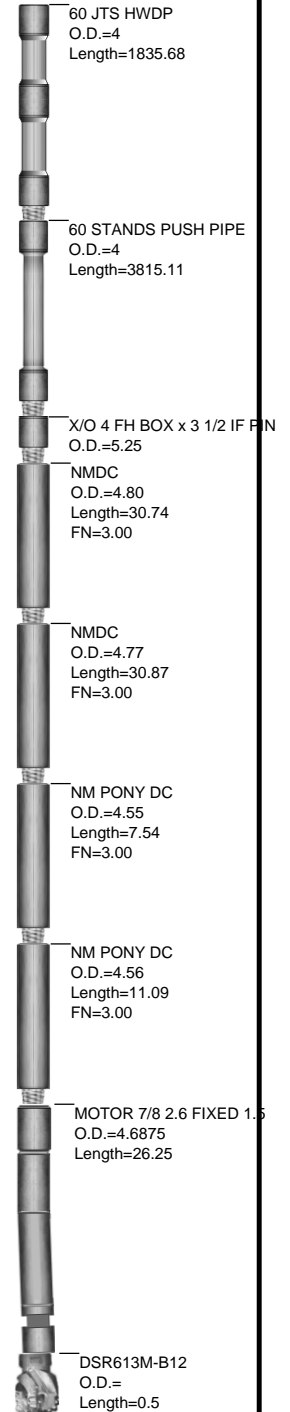
BHA Summary Information

TIME IN - OUT		Rotary Hours		3.00	Start Depth		5991.00	RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		3.25 / .25	End Depth		5991.00		
18-May-11 @ 11:15	21-May-11 @ 04:00	Slide Hours		.00	Percent Rotary:		NA	55 -55	300 -300
		Below Rotary Hrs.		18.08	Percent Slide:		NA		
Total Drilled:		.00	Avg. Total ROP:		.00	Incl.		Azimuth	
Total Rotary Drilled:		.00	Avg. Rotary ROP:		.00	IN	OUT	IN	OUT
Total Drilled Sliding:		.00	Avg. Slide ROP:		NA	65.4	65.4	62.80	62.80
SPP	1800 -1800	Weights	SO	105 -105	PU	120 -120	RAB	110 -110	Reason POOH

Bit Data				MOTOR DATA				Mud Data			
HYCLOG DSR613M-B12				Steerable Slick				Type	PH	Pa	
Type Bit				Model: XL 1000				WT 9.3 GAS 0 Solids 6.5			
TFA 0.746				MFG. Great White				Vis 42 SAND 0.3 T ° 88			
JETS				Bend ° 1.5 Stator/Rotor 7:8				PV 12 PH 10.2 Chlor 900			
Bit Coding				Rev/GAL 0.26				YP 11 WL 6 Oil % 0			
IR OR DL Loc BS G ODL				NB Stab 0				BHT° 122			
0 0				Rotor Jet 0							
Bit Drop: 139 PSI @ 300 GPM				Sensor Offsets							
Comments				Sensor	53	Sonic	0	Liner			
				Gamma	49	DNDC	0	Stroke			
				Restiv	0	GYRO	0	Efficiency			

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	DSR613M-B12	118004	6 1/8		0.50	0.50	3 1/2 REGP
2	MOTOR 7/8 2.6 FIXED 1.5	475099		4.6875	26.25	26.75	3 1/2 IFB
3	NM PONY DC	47124B	2.6875	4.56	11.09	37.84	3 1/2 IFB
4	UBHO	4020	2.5	4.75	2.66	40.50	3 1/2 IFB
5	NM PONY DC	47124A	2.6875	4.55	7.54	48.04	3 1/2 IFB
6	NMDC	47142	2.6875	4.77	30.87	78.91	3 1/2 IFB
7	NMDC	47143	2.6875	4.80	30.74	109.65	3 1/2 IFB
8	X/O 4 FH BOX x 3 1/2 IF PIN	RIG	2.25	5.25	1.90	111.55	4 FHB
9	60 STANDS PUSH PIPE	DP-3-S-135	3	4	3,815.11	3926.66	4 FHB
10	60 JTS HWDP	HWDP-2.563-	2.563	4	1,835.68	5762.34	4 FH
11					0.00	5762.34	



Well Information

BHA # 6



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Rio Blanco
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
SECT. RANGE: 10 104W
Lead DD: Kevin Wolfe
Co. Man: John Tietema
BHA TYPE: Steerable Assembly

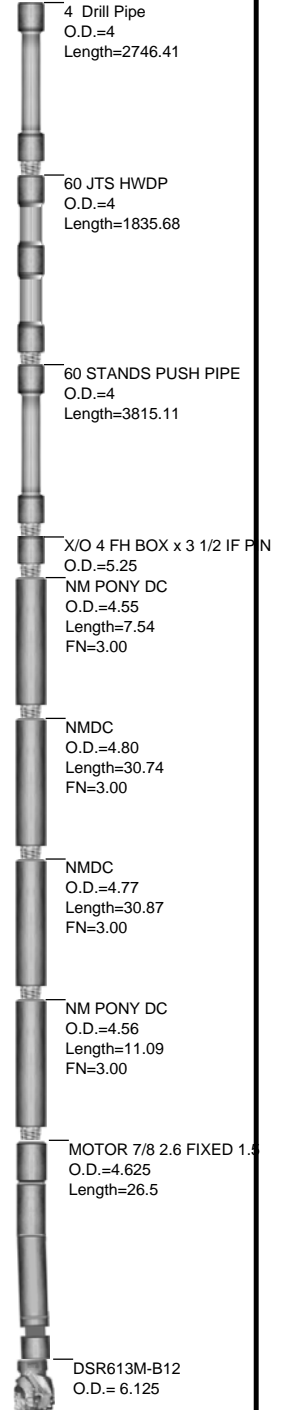
BHA Summary Information

TIME IN - OUT			Rotary Hours		47.58		Start Depth		5991.00		RPM Range	Flow Rate
Start Time	End Time	Circ Hrs Tot/Only		89.127 14.42		End Depth		8509.00				
21-May-11 @ 04:00	25-May-11 @ 22:30	Slide Hours		27.12		Percent Rotary:		84.19		0 -60	0 -300	
		Below Rotary Hrs.		114.50		Percent Slide:		15.81				
Total Drilled:			2518.00		Avg. Total ROP:		33.71		Incl.		Azimuth	
Total Rotary Drilled:			2120.00		Avg. Rotary ROP:		44.55		IN	OUT	IN	OUT
Total Drilled Sliding:			398.00		Avg. Slide ROP:		14.68		93.8	91.3	68.65	67.10
SPP	1300 -2400	Weights	SO	76 -105	PU	106 -120	RAB	90 -110	Reason POOH			

Bit Data				MOTOR DATA				Mud Data			
HYCLOG DSR613M-B12				MOTOR 7/8 2.6 FIXED				Type	Conn & Check Shot		
Type Bit		PDC		Model: XL 1000		Pad OD		WT 9.2	GAS 500	Solids 4.2	
TFA	0.746			MFG. GWD		4.875		Vis 41	SAND 0.25	T ° 105	
JETS		18	18	18	0	0		Bend ° 1.5	Stator/Rotor 7/8		
		0	0	0	0	0		Bit to Bend 5.64	Motor Diff		
Bit Coding		IADC#		Rev/GAL	0.24			BHT°		131	
IR	OR	DL	Loc	BS	G	ODL		PUMPS		PUMP1	PUMP1
0	0							NAME			
Bit Drop:		129 PSI @ 291 GPM		Sensor Offsets				Type			
Comments		Sensor	53	Sonic	0			Liner		.00	.00
		Gamma	49	DNDC	0			Stroke		.00	.00
		Restiv	0	GYRO	0			Efficiency		.00	.00

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	DSR613M-B12	118004		6.125	0.50	0.50	3 1/2 REGP
2	MOTOR 7/8 2.6 FIXED 1.5	475040		4.625	26.50	27.00	3 1/2 IFB
3	NM PONY DC	47124B	2.6875	4.56	11.09	38.09	3 1/2 IFB
4	UBHO	4020	2.5	4.75	2.66	40.75	3 1/2 IFB
5	NMDC	47142	2.6875	4.77	30.87	71.62	3 1/2 IFB
6	NMDC	47143	2.6875	4.80	30.74	102.36	3 1/2 IFB
7	NM PONY DC	47124A	2.6875	4.55	7.54	109.90	3 1/2 IFB
8	X/O 4 FH BOX x 3 1/2 IF PIN	RIG	2.25	5.25	1.90	111.80	4 FHB
9	60 STANDS PUSH PIPE	DP-3-S-135	3	4	3,815.11	3926.91	4 FHB
10	60 JTS HWDP	HWDP-2.563-	2.563	4	1,835.68	5762.59	4 FHB
11	4 Drill Pipe	RIG	3	4	2,746.41	8509.00	4 FH



Well Information

BHA # 7



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Rio Blanco
WELL NAME: Meagher 10-1H

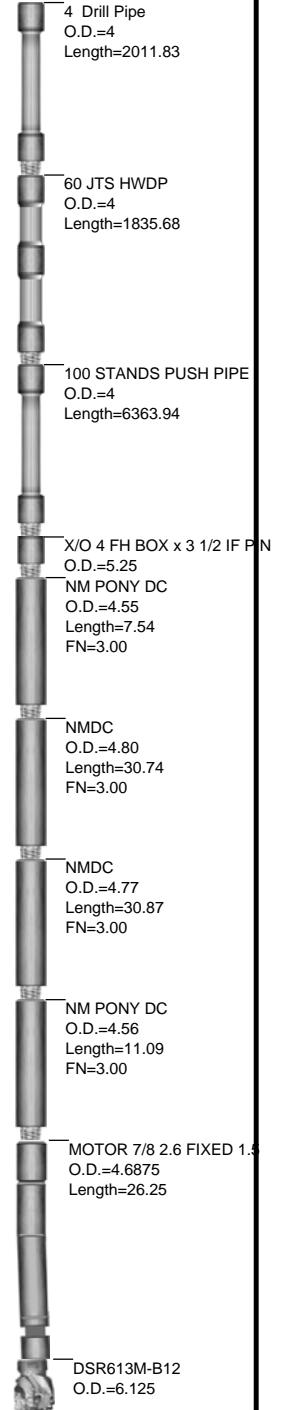
FIELD: SW Rangely
Township: 1S
SECT. RANGE: 10 104W
Lead DD: Kevin Wolfe
Co. Man: John Tietema
BHA TYPE: Steerable Assembly

BHA Summary Information

TIME IN - OUT				Rotary Hours				36.33		Start Depth				8509.00		RPM	Flow Rate
Start Time		End Time		Circ Hrs Tot/Only				60.227 19.65		End Depth				10323.00			
25-May-11 @ 22:30		29-May-11 @ 11:15		Slide Hours				4.23		Percent Rotary:				96.64		0 -60	300 -300
				Below Rotary Hrs.				84.75		Percent Slide:				3.36			
Total Drilled:				1814.00		Avg. Total ROP:				44.72		Incl.		Azimuth			
Total Rotary Drilled:				1753.00		Avg. Rotary ROP:				48.25		IN	OUT	IN		OUT	
Total Drilled Sliding:				61.00		Avg. Slide ROP:				14.41		91.0	87.2	65.10		67.20	
SPP	0 -2400		Weights		SO	30 -76		PU		106 -130		RAB	85 -95		Reason POOH		
Bit Data						MOTOR DATA						Mud Data					
REED		DSR613M-B12				MOTOR 7/8 2.6 FIXED						Type	Conn & Check Shot				
Type Bit			PDC			Model: XL 1000				Pad OD		WT 9.2 GAS 88 Solids 3.8					
TFA		0.746				MFG. GWD				4.875		Vis 41 SAND 0.5 T ° 110					
JETS		18	18	18	0	0	Bend ° 1.5		Stator/Rotor 7/8		PV 10 PH 9.2 Chlor 600						
		0	0	0	0	0	Bit to Bend 5.62		Motor Diff 150		YP 15 WL 4.8 Oil % 0						
Bit Coding			IADC#			Rev/GAL 0.26						BHT°	138				
IR	OR	DL	Loc	BS	G	ODL	NB Stab 0		PUMPS		PUMP1		PUMP1				
0	0						Rotor Jet 0		NAME								
									Model								
Bit Drop:		137 PSI @ 300 GPM				Sensor Offsets				Type							
Comments				Sensor	53	Sonic	0	Liner									
				Gamma	49	DNDC	8509	Stroke									
				Restiv	0	GYRO	0	Efficiency									

BHA Detail

#	Description	Serial #	I.D.	O.D.	Length	Sum	Top Conn
1	DSR613M-B12	118004		6.125	0.50	0.50	3 1/2 REGP
2	MOTOR 7/8 2.6 FIXED 1.5	475099		4.6875	26.25	26.75	3 1/2 IFB
3	NM PONY DC	47124B	2.6875	4.56	11.09	37.84	3 1/2 IFB
4	UBHO	4020	2.5	4.75	2.66	40.50	3 1/2 IFB
5	NMDC	47142	2.6875	4.77	30.87	71.37	3 1/2 IFB
6	NMDC	47143	2.6875	4.80	30.74	102.11	3 1/2 IFB
7	NM PONY DC	47124A	2.6875	4.55	7.54	109.65	3 1/2 IFB
8	X/O 4 FH BOX x 3 1/2 IF PIN	RIG	2.25	5.25	1.90	111.55	4 FHB
9	100 STANDS PUSH PIPE	DP-3-S-135	3	4	6,363.94	6475.49	4 FHB
10	60 JTS HWDP	HWDP-2.563-	2.563	4	1,835.68	8311.17	4 FHB
11	4 Drill Pipe	DP-3-S-135	3	4	2,011.83	10323.00	NC46





JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Country
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
Range 104W

MOTOR INFORMATION

Desc: Motor 7/8 2.9 Fixed
Bent Hsg/Sub: 1.5 / 0 **Bit to Bend:** 5.88
Pad OD: 7 1/8 **NB Stab:**

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	5-May	Drilling	05:30	06:40	1.17	1030	1088	58	5	49.7	35	0		1600		1.82	163.83	0.22	
1	5-May	Drilling	06:50	07:20	0.50	1088	1119	31	5	62.0	60	2700	485	1600		1.87	162.36	0.22	
1	5-May	Drilling	07:30	08:20	0.83	1119	1180	61	5	73.2	60	2700	485	1600		1.60	159.83	0.67	
1	5-May	Sliding	08:40	08:50	0.17	1180	1190	10	5	60.0	0	0	485	1600	340M	1.54	159.44	0.67	
1	5-May	Drilling	08:50	09:30	0.67	1190	1241	51	7	76.5	60	2700	485	1650		1.43	157.95	0.18	
1	5-May	Drilling	09:45	10:30	0.75	1241	1302	61	8	81.3	65	2700	485	1650		1.55	159.02	0.33	
1	5-May	Drilling	10:45	11:35	0.83	1302	1364	62	8	74.4	60	2700	485	1650		1.45	170.08	0.69	
1	5-May	Sliding	11:45	12:00	0.25	1364	1376	12	7	48.0	0	0	485	1650	340M	1.41	172.87	0.69	
1	5-May	Drilling	12:00	13:05	1.08	1376	1425	49	8	45.2	65	2700	485	1650		1.03	289.69	1.24	
1	5-May	Sliding	13:15	13:30	0.25	1425	1440	15	7	60.0	0	0	485	1650	355M	0.91	208.32	1.24	
1	5-May	Drilling	13:30	14:25	0.92	1440	1486	46	8	50.2	65	2850	485	1650		0.75	205.63	0.34	
1	5-May	Drilling	14:40	15:30	0.83	1486	1547	61	8	73.2	65	2850	485	1650		0.70	204.46	0.06	
1	5-May	Drilling	15:40	16:50	1.17	1547	1608	61	8	52.3	65	2850	485	1650		0.49	265.58	1.24	
1	5-May	Sliding	17:00	17:30	0.50	1608	1618	10	7	20.0	65	2850	485	1650	20M	0.44	279.33	1.24	
1	5-May	Drilling	17:30	18:20	0.83	1618	1672	54	8	64.8	65	2850	485	1650		0.40	334.20	0.63	
1	5-May	Drilling	18:30	19:20	0.83	1672	1735	63	8	75.6	65	2850	485	1650		0.33	1.61	0.21	
1	5-May	Drilling	19:45	20:50	1.08	1735	1799	64	8	59.1	65	2850	485	1650		0.23	18.94	0.20	
1	5-May	Drilling	21:00	22:10	1.17	1799	1863	64	8	54.9	65	2850	485	1650		0.34	35.09	0.33	
1	5-May	Drilling	22:20	24:00	1.67	1863	1895	32	8	19.2	65	2850	485	1650		0.40	46.99	0.39	
1	6-May	Drilling	00:00	01:30	1.50	1895	1927	32	8	21.3	65	2850	450	1800		0.40	65.17	0.39	
1	6-May	Drilling	02:00	03:20	1.33	1927	1990	63	8	47.3	65	2850	450	1800		0.33	70.48	0.17	
1	6-May	Drilling	03:30	04:45	1.25	1990	2054	64	8	51.2	65	2850	450	1800		0.37	87.81	0.30	
1	6-May	Drilling	05:10	06:15	1.08	2054	2118	64	8	59.1	65	2850	450	1800		0.54	130.86	0.72	
1	6-May	Drilling	06:25	07:20	0.92	2118	2181	63	8	68.7	65	2850	450	1800		0.60	136.36	0.20	
1	6-May	Drilling	07:35	08:35	1.00	2181	2245	64	8	64.0	65	3200	450	1800		0.46	88.78	0.85	
1	6-May	Sliding	08:50	09:10	0.33	2245	2255	10	7	30.0	0	0	450	1800	320M	0.43	79.00	0.85	
1	6-May	Drilling	09:10	10:00	0.83	2255	2309	54	8	64.8	65	2700	450	1800		0.47	71.63	0.16	

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	6-May	Drilling	10:10	11:30	1.33	2309	2372	63	10	47.3	65	2700	450	1800		0.71	90.13	0.64	
1	6-May	Drilling	11:45	12:55	1.17	2372	2436	64	10	54.9	65	2700	420	1800		0.80	77.99	0.61	
1	6-May	Sliding	13:45	14:05	0.33	2436	2441	5	7	15.0	0	0	450	1800	280M	0.80	75.80	0.61	
1	6-May	Drilling	14:05	15:10	1.08	2441	2499	58	7	53.5	65	2700	450	1800		0.59	17.08	1.30	
1	6-May	Sliding	15:25	16:20	0.92	2499	2511	12	137	13.1	0	0	450	1800	280M	0.53	2.95	1.30	
1	6-May	Drilling	16:20	17:30	1.17	2511	2563	52	8	44.6	65	2700	450	1800		0.71	327.56	0.80	
1	6-May	Drilling	17:40	18:55	1.25	2563	2627	64	8	51.2	65	2700	450	1800		0.51	5.60	1.21	
1	6-May	Sliding	19:05	19:25	0.33	2627	2636	9	137	27.0	65	2700	450	1800	135M	0.45	15.50	1.21	
1	6-May	Drilling	19:25	20:35	1.17	2636	2690	54	8	46.3	65	2700	450	1800		0.54	84.46	1.07	
1	7-May	Drilling	13:50	15:10	1.33	2690	2754	64	7	48.0	65	2700	450	1975		0.46	114.65	0.33	
1	7-May	Sliding	15:25	16:00	0.58	2754	2760	6	7	10.3	65	2700	450	1975	300M	0.44	115.52	0.33	
1	7-May	Drilling	16:00	19:20	3.33	2760	2818	58	7	17.4	65	2700	450	1975		0.40	144.76	0.42	
1	7-May	Drilling	19:30	20:25	0.92	2818	2881	63	7	68.7	65	2700	450	1975		0.54	154.29	0.31	
1	7-May	Drilling	20:40	21:40	1.00	2881	2945	64	7	64.0	65	2700	450	1975		0.46	140.62	0.40	
1	7-May	Sliding	21:50	22:15	0.42	2945	2955	10	7	24.0	65	2700	450	1975	330M	0.43	137.72	0.40	
1	7-May	Drilling	22:15	23:20	1.08	2955	3009	54	7	49.8	65	2700	450	1975		0.54	124.10	0.38	
1	7-May	Drilling	23:30	24:00	0.50	3009	3041	32	7	64.0	65	2700	450	1975		0.60	99.77	1.34	
1	8-May	Drilling	00:00	00:50	0.83	3041	3072	31	12	37.2	55	3200	475	2100		0.60	55.65	1.34	
1	8-May	Sliding	01:00	01:40	0.67	3072	3086	14	7	21.0	55	3200	475	2100	330M	0.60	35.72	1.34	
1	8-May	Drilling	01:40	02:30	0.83	3086	3136	50	12	60.0	55	3200	475	2100		0.60	47.30	0.43	
1	8-May	Drilling	02:45	03:45	1.00	3136	3200	64	12	64.0	55	3200	475	2100		0.60	68.49	0.31	
1	8-May	Drilling	04:00	04:45	0.75	3200	3263	63	12	84.0	55	3200	475	2100		0.46	79.01	0.33	
1	8-May	Sliding	04:45	05:25	0.67	3263	3273	10	7	15.0	0	0	475	2100	260M	0.43	80.17	0.33	
1	8-May	Drilling	05:25	06:15	0.83	3273	3327	54	12	64.8	55	3200	475	2100		0.47	129.26	0.79	
1	8-May	Drilling	06:30	07:20	0.83	3327	3391	64	12	76.8	65	3200	475	2100		0.72	144.74	0.48	
1	8-May	Drilling	08:20	09:20	1.00	3391	3454	63	12	63.0	65	3200	475	2100		0.51	157.37	0.69	
1	8-May	Sliding	09:35	10:00	0.42	3454	3469	15	7	36.0	0	0	475	2100	350M	0.42	161.90	0.69	
1	8-May	Drilling	10:00	10:45	0.75	3469	3518	49	12	65.3	65	3300	475	2100		0.26	166.47	0.31	
1	8-May	Drilling	11:00	12:05	1.08	3518	3582	64	13	59.1	65	3300	475	2100		0.35	146.21	0.39	
1	8-May	Drilling	12:20	13:10	0.83	3582	3645	63	14	75.6	70	3300	475	2100		0.69	133.67	0.63	
1	8-May	Drilling	13:25	14:10	0.75	3645	3709	64	14	85.3	70	3300	475	2100		0.73	131.40	0.16	
1	8-May	Sliding	14:25	14:50	0.42	3709	3725	16	7	38.4	0	0	475	2100	330M	0.70	131.22	0.16	
1	8-May	Drilling	14:50	15:35	0.75	3725	3773	48	14	64.0	70	3300	475	2100		0.48	298.79	1.28	
1	8-May	Sliding	15:50	16:05	0.25	3773	3783	10	7	40.0	0	0	475	2100	320M	0.44	256.96	1.28	
1	8-May	Drilling	16:05	16:45	0.67	3783	3837	54	14	81.0	70	3300	475	2100		0.91	226.93	1.11	

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	8-May	Drilling	16:55	17:30	0.58	3837	3900	63	14	108.0	70	3300	475	2100		1.24	211.88	0.80	
1	8-May	Sliding	17:50	18:20	0.50	3900	3915	15	7	30.0	70	3300	475	2100	10M	1.29	206.56	0.80	
1	8-May	Drilling	18:20	18:55	0.58	3915	3964	49	14	84.0	70	3300	475	2100		0.65	189.90	1.47	
1	8-May	Sliding	19:05	20:00	0.92	3964	3984	20	7	21.8	70	3300	475	2100	15M	0.44	189.71	3.33	
1	8-May	Drilling	20:00	20:40	0.67	3984	4028	44	14	66.0	70	3300	475	2100		1.35	319.83	3.33	
1	8-May	Sliding	20:45	21:40	0.92	4028	4039	11	7	12.0	70	3300	475	2100	340M	1.58	352.36	3.33	
1	8-May	Drilling	21:40	22:20	0.67	4039	4091	52	14	78.0	70	3300	475	2100		1.70	15.35	0.34	
1	8-May	Sliding	22:45	23:45	1.00	4091	4102	11	7	11.0	70	3300	475	2100	230M	1.70	16.60	0.34	
1	8-May	Drilling	23:45	24:00	0.25	4102	4123	21	14	84.0	70	3300	475	2100		1.37	354.45	2.75	
1	9-May	Drilling	00:00	00:35	0.58	4123	4155	32	14	54.9	70	3300	425	2100		0.62	302.00	2.75	
1	9-May	Sliding	00:45	02:30	1.75	4155	4175	20	7	11.4	70	3300	425	2100	200M	0.21	269.61	1.01	
1	9-May	Drilling	02:30	03:20	0.83	4175	4219	44	14	52.8	70	3300	425	2100		0.49	205.98	1.01	
1	9-May	Drilling	03:45	05:30	1.75	4219	4282	63	14	36.0	70	3300	425	2100		0.89	74.26	0.65	
1	9-May	Sliding	05:45	06:40	0.92	4282	4292	10	7	10.9	0	0	425	2100	360M	0.95	129.23	0.65	
1	9-May	Drilling	06:40	07:40	1.00	4292	4346	54	13	54.0	70	4400	425	2100		0.85	123.48	1.62	
1	9-May	Sliding	08:45	09:45	1.00	4346	4366	20	7	20.0	0	0	425	2100	350M	0.81	104.97	0.32	
1	9-May	Drilling	09:45	10:40	0.92	4366	4409	43	13	46.9	70	4400	425	2100		0.94	103.16	0.32	
1	9-May	Drilling	11:05	11:40	0.58	4409	4441	32	13	54.9	70	4400	425	2100		1.02	105.64	0.45	
1	9-May	Sliding	12:00	12:35	0.58	4441	4456	15	7	25.7	0	0	425	2100	310M	1.05	109.11	0.45	
1	9-May	Drilling	12:35	12:50	0.25	4456	4473	17	13	68.0	70	4400	425	2100		1.07	113.04	0.45	
1	9-May	Drilling	13:40	14:00	0.33	4473	4505	32	13	96.0	70	4400	425	2100		0.99	115.00	0.82	
1	9-May	Drilling	14:15	15:10	0.92	4505	4539	34	13	37.1	70	4400	425	2100		0.72	109.66	0.82	
1	9-May	Sliding	17:40	18:20	0.67	4539	4562	23	7	34.5	70	4400	425	2100	280M	0.59	111.68	0.54	
1	9-May	Drilling	18:20	18:25	0.08	4562	4569	7	13	84.0	70	4400	425	2100		0.58	115.50	0.54	
1	9-May	Drilling	18:40	19:05	0.42	4569	4600	31	13	74.4	70	4400	425	2100		0.53	132.46	0.54	
1	9-May	Drilling	19:15	19:40	0.42	4600	4632	32	13	76.8	70	4400	425	2100		0.57	140.81	0.48	
1	9-May	Drilling	19:50	20:15	0.42	4632	4664	32	13	76.8	70	4400	425	2100		0.72	137.41	0.48	
1	9-May	Sliding	20:40	20:55	0.25	4664	4682	18	7	72.0	70	4400	425	2100	280M	0.80	135.50	0.48	
1	9-May	Drilling	20:55	21:10	0.25	4682	4696	14	13	56.0	70	4400	425	2100		0.91	131.46	0.94	
1	9-May	Drilling	21:20	21:40	0.33	4696	4728	32	13	96.0	70	4400	425	2100		1.17	122.21	0.94	
1	9-May	Drilling	21:50	22:20	0.50	4728	4760	32	13	64.0	70	4400	425	2100		1.42	119.62	0.88	
1	9-May	Drilling	22:30	23:05	0.58	4760	4791	31	13	53.1	70	4700	425	2100		1.66	124.42	0.88	
1	9-May	Sliding	23:20	24:00	0.67	4791	4802	11	7	16.5	70	4700	425	2100	280M	1.75	126.12	0.88	
1	10-May	Sliding	00:00	00:30	0.50	4802	4812	10	7	20.0	0	0	425	2100	280M	0.80	105.10	1.62	
1	10-May	Drilling	00:30	00:40	0.17	4812	4823	11	13	66.0	70	4700	425	2100		0.80	105.10	1.62	

Slide Report for BHA # 1

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
1	10-May	Drilling	00:50	01:30	0.67	4823	4855	32	13	48.0	70	4700	425	2100		0.80	105.10	1.62	
1	10-May	Sliding	01:45	03:20	1.58	4855	4880	25	7	15.8	0	0	425	2100	310M	0.80	105.10	1.62	
1	10-May	Drilling	03:20	03:30	0.17	4880	4887	7	13	42.0	70	4700	425	2100		0.80	105.10	1.62	
1	10-May	Sliding	03:45	04:45	1.00	4887	4907	20	7	20.0	0	0	425	2100	320M	0.80	105.10	1.62	
1	10-May	Drilling	05:10	05:35	0.42	4907	4951	44	13	105.6	70	4700	425	2100		1.40	148.60	1.11	
1	10-May	Drilling	05:50	06:10	0.33	4951	4983	32	13	96.0	70	4700	425	2100		1.40	148.60	1.11	
1	10-May	Drilling	06:25	07:00	0.58	4983	5015	32	13	54.9	65	4700	425	2100		1.40	148.60	1.11	
1	10-May	Sliding	07:20	08:30	1.17	5015	5035	20	7	17.1	65	4700	425	2100	95M	1.40	148.60	1.11	
1	10-May	Drilling	08:30	08:50	0.33	5035	5046	11	13	33.0	65	4700	425	2100		1.40	148.60	1.11	
1	10-May	Drilling	09:15	10:25	1.17	5046	5110	64	13	54.9	65	4700	425	2100		0.70	190.50	1.11	
1	10-May	Sliding	10:50	12:00	1.17	5110	5135	25	7	21.4	0	0	425	2100	315M	1.80	135.90	2.34	
1	10-May	Drilling	12:00	12:30	0.50	5135	5142	7	13	14.0	65	4700	425	2100		1.80	135.90	2.34	

Total Drilled: 4112 **Avg. Total ROP:** 45.90

DEPTH% - TIME %

Total Rotary Drilled: 3674 **Avg. Rotary ROP:** 53.64 **Percent Rotary:** 89.35 - 76.47

Total Drilled Sliding: 438 **Avg. Slide ROP:** 20.77 **Percent Slide:** 10.65 - 23.53



JOB NO.:
Company:
LOCATION:
RIG NAME:
STATE:
COUNTY: Country
WELL NAME:

FIELD:
Township:
Range

MOTOR INFORMATION

Desc: Steerable Slick - fixed bend
Bent Hsg/Sub: $\frac{2.3}{8.5}$ / 0 Bit to Bend: 5.13
Pad OD: 7.15 NB Stab:

Slide Report for BHA # 2

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
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Total Drilled: 0 Avg. Total ROP: NA DEPTH% - TIME %

Total Rotary Drilled: 0 Avg. Rotary ROP: NA Percent Rotary: NA

Total Drilled Sliding: 0 Avg. Slide ROP: NA Percent Slide: NA



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Country
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
Range 104W

MOTOR INFORMATION			
Desc: MOTOR 7/8 2.9 FIXED			
Bent Hsg/Sub: 2	/	0	Bit to Bend: 4.91
Pad OD: 7.25			NB Stab:

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	14-May	Sliding	12:45	19:00	6.25	4855	4886	31	12	5.0	0	0	450	2300	50M	2.65	69.38	7.80	
3	14-May	Sliding	19:20	22:10	2.83	4886	4911	25	12	8.8	0	0	450	2300	50M	4.24	61.30	3.53	
3	14-May	Drilling	22:10	23:00	0.83	4911	4918	7	13	8.4	65	0	425	2300		4.48	62.00	3.53	
3	14-May	Drilling	23:15	24:00	0.75	4918	4938	20	13	26.7	65	0	425	2300		5.12	63.93	1.11	
3	15-May	Drilling	00:00	01:15	1.25	4938	4950	12	30	9.6	45	2200	450	2300		5.23	64.72	1.11	
3	15-May	Drilling	01:25	03:00	1.58	4950	4982	32	30	20.2	45	2800	450	2300		5.40	67.78	1.26	
3	15-May	Drilling	03:15	04:30	1.25	4982	5014	32	30	25.6	45	2800	450	2300		5.45	71.42	0.89	
3	15-May	Drilling	04:45	06:10	1.42	5014	5046	32	30	22.6	45	2800	450	2300		5.50	72.85	0.03	
3	15-May	Drilling	06:25	07:35	1.17	5046	5077	31	42	26.6	45	3200	450	2300		5.50	70.26	1.74	
3	15-May	Sliding	08:40	09:15	0.58	5077	5092	15	45	25.7	0	0	450	2300	90L	5.50	67.54	1.74	
3	15-May	Drilling	09:15	10:00	0.75	5092	5109	17	45	22.7	45	3300	450	2350		5.54	65.25	1.25	
3	15-May	Drilling	10:15	11:20	1.08	5109	5141	32	45	29.5	45	3300	450	2350		6.65	63.09	7.50	
3	15-May	Sliding	11:30	13:10	1.67	5141	5173	32	45	19.2	0	0	450	2350	10L	9.99	66.00	14.61	
3	15-May	Sliding	13:25	14:50	1.42	5173	5205	32	45	22.6	0	0	450	2350	10L	14.13	71.28	11.96	
3	15-May	Sliding	15:05	15:45	0.67	5205	5217	12	45	18.0	0	0	450	2350	0G	15.52	72.78	11.96	
3	15-May	Sliding	16:00	16:20	0.33	5217	5227	10	45	30.0	0	0	450	2350	20R	16.49	73.57	7.88	
3	15-May	Drilling	16:20	16:45	0.42	5227	5236	9	45	21.6	45	0	450	2350		17.19	73.88	7.88	
3	15-May	Sliding	17:00	17:55	0.92	5236	5257	21	45	22.9	45	0	450	2350	20L	18.83	74.50	7.50	
3	15-May	Drilling	17:55	18:20	0.42	5257	5268	11	45	26.4	45	0	450	2350		19.65	74.50	7.50	
3	15-May	Sliding	18:40	19:45	1.08	5268	5290	22	45	20.3	45	0	450	2350	10L	21.26	74.59	6.62	
3	15-May	Drilling	19:45	20:05	0.33	5290	5300	10	45	30.0	45	0	450	2350		21.92	74.82	6.62	
3	15-May	Sliding	20:20	21:55	1.58	5300	5326	26	45	16.4	45	0	450	2350	20L	9.80	66.00	7.50	
3	15-May	Drilling	21:55	22:10	0.25	5326	5332	6	45	24.0	45	0	450	2350		9.80	66.00	7.50	
3	15-May	Sliding	22:25	23:35	1.17	5332	5360	28	45	24.0	45	0	450	2350	20L	9.80	66.00	7.50	
3	15-May	Drilling	23:35	23:40	0.08	5360	5364	4	45	48.0	45	0	450	2350		9.80	66.00	7.50	
3	16-May	Sliding	00:00	01:30	1.50	5364	5392	28	45	18.7	45	0	450	2350	30L	9.80	66.00	7.50	
3	16-May	Drilling	01:30	01:40	0.17	5392	5396	4	45	24.0	45	0	450	2350		9.80	66.00	7.50	

Slide Report for BHA # 3

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
3	16-May	Sliding	02:15	02:30	0.25	5396	5400	4	45	16.0	45	0	450	2350	30L	9.80	66.00	7.50	

Total Drilled: 577 **Avg. Total ROP:** 16.56 **DEPTH% - TIME %**

Total Rotary Drilled: 291 **Avg. Rotary ROP:** 19.95 **Percent Rotary:** 50.43 - 41.87

Total Drilled Sliding: 286 **Avg. Slide ROP:** 14.12 **Percent Slide:** 49.57 - 58.13



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Country
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
Range 104W

MOTOR INFORMATION

Desc: MOTOR 7/8 5.7 FIXED
Bent Hsg/Sub: 2.3 / 0 **Bit to Bend:** 5.13
Pad OD: 7.20 **NB Stab:**

Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	16-May	Sliding	20:00	21:30	1.50	5400	5427	27	45	18.0	45	0	450	2350	20L	30.72	69.35	9.60	
4	16-May	Drilling	21:30	21:45	0.25	5427	5432	5	45	20.0	45	0	450	2350		31.18	69.15	9.60	
4	16-May	Sliding	22:00	24:00	2.00	5432	5460	28	45	14.0	45	0	450	2350	20L	33.48	68.74	7.21	
4	17-May	Sliding	00:00	00:15	0.25	5460	5464	4	20	16.0	0	0	450	2350	20L	33.77	68.78	7.21	
4	17-May	Sliding	00:30	02:05	1.58	5464	5495	31	20	19.6	0	0	450	2350	10L	36.56	68.68	10.34	
4	17-May	Sliding	02:15	03:25	1.17	5495	5527	32	15	27.4	0	0	450	2350	10L	39.91	67.49	11.22	
4	17-May	Sliding	03:35	04:40	1.08	5527	5559	32	15	29.5	0	0	450	2350	10L	43.54	65.91	12.25	
4	17-May	Sliding	05:00	05:55	0.92	5559	5591	32	15	34.9	0	0	450	2350	10L	47.45	64.91	12.60	
4	17-May	Sliding	06:15	06:50	0.58	5591	5623	32	15	54.9	0	0	450	2350	0G	51.46	63.96	12.88	
4	17-May	Sliding	07:05	08:00	0.92	5623	5655	32	12	34.9	0	0	450	2350	0G	55.36	62.85	12.20	
4	17-May	Sliding	08:15	09:00	0.75	5655	5686	31	12	41.3	0	0	450	2350	0G	59.21	62.18	12.86	
4	17-May	Sliding	09:20	10:05	0.75	5686	5718	32	12	42.7	0	0	450	2400	0G	63.48	62.45	13.93	
4	17-May	Sliding	10:55	11:55	1.00	5718	5750	32	12	32.0	0	0	450	2400	0G	67.93	62.97	14.09	
4	17-May	Sliding	12:25	13:05	0.67	5750	5782	32	12	48.0	0	0	450	2400	10R	72.66	62.93	15.34	
4	17-May	Sliding	13:25	14:20	0.92	5782	5814	32	12	34.9	0	0	450	2400	10R	76.71	62.91	10.64	
4	17-May	Drilling	14:50	15:10	0.33	5814	5817	3	45	9.0	45	0	450	2400		77.03	62.93	10.64	
4	17-May	Sliding	15:10	16:10	1.00	5817	5828	11	12	11.0	45	0	450	2400	10R	78.20	63.00	10.64	
4	17-May	Drilling	16:10	16:40	0.50	5828	5832	4	45	8.0	45	0	450	2400		78.64	63.01	10.97	
4	17-May	Sliding	16:40	17:10	0.50	5832	5842	10	12	20.0	45	0	450	2400	10R	79.74	63.05	10.97	
4	17-May	Drilling	17:10	17:25	0.25	5842	5846	4	45	16.0	45	0	450	2400		80.17	63.06	10.97	
4	17-May	Sliding	17:40	18:20	0.67	5846	5861	15	12	22.5	45	0	450	2400	10R	81.86	63.13	12.87	
4	17-May	Drilling	18:20	18:50	0.50	5861	5870	9	45	18.0	45	0	450	2400		83.01	63.24	12.87	
4	17-May	Sliding	18:50	19:50	1.00	5870	5878	8	12	8.0	45	0	450	2400	10R	84.03	63.34	12.87	
4	17-May	Drilling	20:05	20:20	0.25	5878	5881	3	45	12.0	45	0	450	2400		84.42	63.38	12.87	
4	17-May	Sliding	20:20	21:25	1.08	5881	5909	28	12	25.8	45	0	450	2400	10R	88.85	64.06	17.78	
4	17-May	Sliding	22:00	23:00	1.00	5909	5923	14	12	14.0	45	0	450	2400	10R	91.30	64.50	17.78	
4	17-May	Drilling	23:00	23:15	0.25	5923	5926	3	45	12.0	45	0	450	2400		65.40	62.80	13.75	

Slide Report for BHA # 4

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
4	17-May	Sliding	23:15	24:00	0.75	5926	5941	15	12	20.0	45	0	450	2400	10R	65.40	62.80	13.75	
4	18-May	Drilling	00:15	01:20	1.08	5941	5973	32	45	29.5	45	0	450	2400		65.40	62.80	13.75	
4	18-May	Drilling	01:40	02:35	0.92	5973	5991	18	45	19.6	45	0	450	2400		65.40	62.80	13.75	

Total Drilled: 591 **Avg. Total ROP:** 24.20 **DEPTH% - TIME %**

Total Rotary Drilled: 81 **Avg. Rotary ROP:** 18.69 **Percent Rotary:** 13.71 - 17.75

Total Drilled Sliding: 510 **Avg. Slide ROP:** 25.39 **Percent Slide:** 86.29 - 82.25



JOB NO.:
Company:
LOCATION:
RIG NAME:
STATE:
COUNTY: Country
WELL NAME:

FIELD:
Township:
Range

MOTOR INFORMATION

Desc: Steerable Slick
Bent Hsg/Sub: 1.5 / 0 Bit to Bend: 5.62
Pad OD: 4 7/8 NB Stab:

Slide Report for BHA # 5

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
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Total Drilled: 0 Avg. Total ROP: .00 DEPTH% - TIME %

Total Rotary Drilled: 0 Avg. Rotary ROP: .00 Percent Rotary: NA

Total Drilled Sliding: 0 Avg. Slide ROP: NA Percent Slide: NA



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Country
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
Range 104W

MOTOR INFORMATION

Desc: MOTOR 7/8 2.6 FIXED
Bent Hsg/Sub: 1.5 / 0 **Bit to Bend:** 5.64
Pad OD: 4.875 **NB Stab:**

Slide Report for BHA # 6

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
6	21-May	Drilling	15:55	16:20	0.42	5991	5995	4	5	9.6	60	2450	300	1800		93.80	68.63	0.31	
6	21-May	Drilling	16:35	17:30	0.92	5995	6027	32	10	34.9	60	3300	300	1800		93.80	68.53	0.31	
6	21-May	Sliding	17:45	19:00	1.25	6027	6042	15	12	12.0	0	0	300	1800	150L	93.80	68.49	0.31	
6	21-May	Drilling	19:00	20:00	1.00	6042	6091	49	10	49.0	60	3300	300	1800		93.47	68.47	1.61	
6	21-May	Sliding	20:20	22:20	2.00	6091	6115	24	12	12.0	0	0	300	1800	180G	93.09	68.54	1.61	
6	21-May	Drilling	22:20	23:10	0.83	6115	6123	8	8	9.6	60	3300	300	1800		92.96	68.57	1.61	
6	21-May	Sliding	23:25	24:00	0.58	6123	6134	11	12	18.9	0	0	300	1800	180G	92.79	68.60	1.61	
6	22-May	Drilling	00:00	00:40	0.67	6134	6154	20	8	30.0	60	3400	300	1800		92.47	68.67	1.61	
6	22-May	Drilling	00:55	01:20	0.42	6154	6186	32	9	76.8	60	3400	300	1800		91.19	68.85	5.31	
6	22-May	Sliding	01:35	02:00	0.42	6186	6198	12	12	28.8	0	0	300	1800	170R	90.56	68.94	5.31	
6	22-May	Drilling	02:00	02:20	0.33	6198	6218	20	9	60.0	60	3800	300	1850		89.51	69.09	5.31	
6	22-May	Sliding	02:35	03:05	0.50	6218	6236	18	12	36.0	0	0	300	1850	180G	88.56	69.22	5.31	
6	22-May	Drilling	03:05	03:25	0.33	6236	6250	14	9	42.0	60	3700	300	1850		87.83	69.33	5.31	
6	22-May	Sliding	03:40	04:10	0.50	6250	6260	10	12	20.0	0	0	300	1850	160L	87.30	69.40	5.31	
6	22-May	Drilling	04:10	04:30	0.33	6260	6283	23	9	69.0	60	3700	300	1850		87.23	69.47	0.44	
6	22-May	Drilling	04:45	05:15	0.50	6283	6313	30	9	60.0	60	3700	300	1850		87.13	69.57	0.44	
6	22-May	Drilling	05:30	06:10	0.67	6313	6345	32	9	48.0	60	3700	300	1850		87.03	69.67	0.44	
6	22-May	Drilling	06:25	06:50	0.42	6345	6377	32	9	76.8	60	3700	300	1850		86.91	69.59	0.67	
6	22-May	Drilling	07:05	07:35	0.50	6377	6409	32	9	64.0	60	3700	300	1850		86.78	69.42	0.67	
6	22-May	Sliding	07:50	08:30	0.67	6409	6424	15	12	22.5	0	0	300	1850	30L	86.71	69.34	0.67	
6	22-May	Drilling	08:30	08:45	0.25	6424	6441	17	9	68.0	60	3700	300	1850		86.64	69.25	0.67	
6	22-May	Drilling	09:20	09:40	0.33	6441	6472	31	9	93.0	60	3800	300	1850		87.35	68.87	3.92	
6	22-May	Sliding	09:55	11:00	1.08	6472	6497	25	12	23.1	0	0	300	1850	10L	88.25	68.48	3.92	
6	22-May	Drilling	11:00	11:30	0.50	6497	6504	7	9	14.0	60	3700	300	1850		88.50	68.37	3.92	
6	22-May	Sliding	11:45	12:40	0.92	6504	6510	6	12	6.5	0	0	300	1850	0G	88.72	68.28	3.92	
6	22-May	Drilling	12:40	13:10	0.50	6510	6536	26	9	52.0	60	3700	300	1850		89.37	67.93	2.56	
6	22-May	Sliding	13:30	13:55	0.42	6536	6543	7	12	16.8	0	0	300	1850	10R	89.52	67.84	2.56	

Slide Report for BHA # 6

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
6	22-May	Drilling	13:55	14:15	0.33	6543	6568	25	9	75.0	60	3700	300	1850		90.08	67.53	2.56	
6	22-May	Sliding	14:25	15:10	0.75	6568	6580	12	12	16.0	0	0	300	1850	0G	90.37	67.41	3.31	
6	22-May	Drilling	15:10	15:30	0.33	6580	6600	20	9	60.0	60	3700	300	1850		91.02	67.50	3.31	
6	22-May	Sliding	15:45	16:40	0.92	6600	6612	12	12	13.1	60	3700	300	1850	10L	91.42	67.56	3.31	
6	22-May	Drilling	16:40	17:20	0.67	6612	6631	19	9	28.5	60	3700	300	1850		92.04	67.65	3.31	
6	22-May	Drilling	17:25	17:50	0.42	6631	6663	32	9	76.8	60	3700	300	1850		92.63	67.57	1.26	
6	22-May	Drilling	17:55	18:50	0.92	6663	6695	32	9	34.9	60	3700	300	1756		92.98	67.37	1.26	
6	22-May	Drilling	18:55	19:40	0.75	6695	6727	32	9	42.7	60	3700	300	1756		93.20	67.50	1.06	
6	22-May	Drilling	19:45	20:35	0.83	6727	6759	32	9	38.4	60	3700	300	1756		93.35	67.80	1.06	
6	22-May	Sliding	20:40	22:05	1.42	6759	6777	18	12	12.7	60	3700	300	1756	180	93.28	67.94	1.63	
6	22-May	Drilling	22:05	22:25	0.33	6777	6791	14	9	42.0	60	3700	300	1756		93.06	68.00	1.63	
6	22-May	Drilling	22:30	22:45	0.25	6791	6796	5	9	20.0	60	3700	300	1756		92.98	68.03	1.63	
6	22-May	Sliding	22:45	23:56	1.18	6796	6806	10	12	8.5	60	3700	300	1756	180	92.82	68.07	1.63	
6	22-May	Drilling	23:56	24:00	0.07	6806	6806	0	9	0.0	60	3700	300	1756		92.82	68.07	1.63	
6	23-May	Drilling	00:00	00:25	0.42	6806	6822	16	9	38.4	60	3700	300	1756		92.57	68.15	1.63	
6	23-May	Drilling	00:30	02:05	1.58	6822	6886	64	9	40.4	60	3700	300	1756		92.73	68.20	0.63	
6	23-May	Sliding	02:10	02:35	0.42	6886	6896	10	12	24.0	0	0	300	1756	360G	92.79	68.20	0.63	
6	23-May	Drilling	02:35	04:00	1.42	6896	6950	54	9	38.1	60	3850	300	1756		93.14	68.28	0.65	
6	23-May	Drilling	04:10	04:45	0.58	6950	6981	31	9	53.1	60	3850	300	1756		93.56	68.37	1.75	
6	23-May	Sliding	05:00	05:50	0.83	6981	6991	10	12	12.0	0	0	300	1756	35L	93.73	68.40	1.75	
6	23-May	Drilling	05:50	06:10	0.33	6991	7013	22	10	66.0	60	4600	300	1900		94.11	68.47	1.75	
6	23-May	Drilling	09:25	10:05	0.67	7013	7045	32	10	48.0	60	4600	300	1900		94.37	68.13	1.77	
6	23-May	Sliding	10:20	10:45	0.42	7045	7051	6	12	14.4	60	4600	300	1900	30L	94.39	68.03	1.77	
6	23-May	Drilling	10:45	11:40	0.92	7051	7077	26	10	28.4	60	4600	300	1900		94.47	67.57	1.77	
6	23-May	Drilling	11:55	12:15	0.33	7077	7109	32	10	96.0	60	4600	300	1900		94.91	67.61	2.09	
6	23-May	Drilling	12:30	12:53	0.38	7109	7140	31	10	80.9	60	4600	300	1900		95.49	67.90	2.09	
6	23-May	Drilling	13:10	13:30	0.33	7140	7172	32	10	96.0	60	4600	300	1900		94.95	67.70	3.86	
6	23-May	Sliding	13:35	16:40	3.08	7172	7201	29	12	9.4	60	4600	300	1900	30L	93.90	67.30	3.86	
6	23-May	Drilling	16:40	16:50	0.17	7201	7204	3	10	18.0	60	4600	300	1900		93.80	67.25	3.86	
6	23-May	Drilling	17:35	18:10	0.58	7204	7236	32	10	54.9	60	4600	300	1900		93.50	67.27	0.92	
6	23-May	Drilling	18:15	18:55	0.67	7236	7268	32	10	48.0	60	4600	300	1900		93.65	67.52	0.92	
6	23-May	Drilling	19:00	19:55	0.92	7268	7300	32	10	34.9	60	4600	300	1900		92.55	67.26	5.44	
6	23-May	Sliding	20:05	20:45	0.67	7300	7310	10	12	15.0	60	4600	300	1900	174L	92.03	67.10	5.44	
6	23-May	Drilling	20:45	21:15	0.50	7310	7331	21	10	42.0	60	4600	300	1900		90.94	66.77	5.44	
6	23-May	Sliding	21:20	22:00	0.67	7331	7346	15	12	22.5	60	4600	300	1900	160L	90.16	66.54	5.44	

Slide Report for BHA # 6

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
6	23-May	Drilling	22:00	22:35	0.58	7346	7363	17	10	29.1	60	4600	300	1900		89.27	66.27	5.44	
6	23-May	Sliding	22:35	24:00	1.42	7363	7378	15	12	10.6	60	4600	300	1900	15R	88.73	66.11	0.90	
6	24-May	Drilling	00:00	00:30	0.50	7378	7395	17	10	34.0	60	4300	300	2000		88.88	66.17	0.90	
6	24-May	Drilling	00:35	01:25	0.83	7395	7427	32	10	38.4	60	4300	300	2000		89.15	66.27	0.90	
6	24-May	Sliding	01:30	02:15	0.75	7427	7438	11	12	14.7	0	0	300	2000	15R	89.24	66.30	0.90	
6	24-May	Drilling	02:15	02:50	0.58	7438	7459	21	10	36.0	60	4200	300	2000		89.42	66.37	0.90	
6	24-May	Drilling	02:55	03:35	0.67	7459	7490	31	10	46.5	60	4200	300	2000		90.11	66.44	2.92	
6	24-May	Sliding	03:40	04:30	0.83	7490	7505	15	12	18.0	0	0	300	2000	20R	90.55	66.48	2.92	
6	24-May	Drilling	04:30	04:55	0.42	7505	7522	17	10	40.8	60	4300	300	2000		91.05	66.51	2.92	
6	24-May	Drilling	05:10	05:40	0.50	7522	7554	32	10	64.0	60	4300	300	2000		91.98	66.58	2.92	
6	24-May	Sliding	05:55	06:40	0.75	7554	7569	15	12	20.0	0	0	300	2000	20L	92.33	66.63	1.05	
6	24-May	Drilling	06:40	07:05	0.42	7569	7586	17	10	40.8	60	4500	300	2000		92.48	66.73	1.05	
6	24-May	Drilling	07:20	07:55	0.58	7586	7618	32	10	54.9	60	4500	300	2000		92.75	66.93	1.05	
6	24-May	Drilling	08:10	08:50	0.67	7618	7649	31	10	46.5	60	4500	300	2000		93.01	67.13	1.05	
6	24-May	Drilling	09:00	09:40	0.67	7649	7681	32	10	48.0	60	4500	300	2000		92.59	67.05	2.53	
6	24-May	Drilling	09:50	10:30	0.67	7681	7713	32	10	48.0	60	4500	300	2000		91.82	66.81	2.53	
6	24-May	Sliding	11:00	11:30	0.50	7713	7723	10	12	20.0	0	0	300	2000	180G	91.57	66.74	2.53	
6	24-May	Drilling	11:30	12:35	1.08	7723	7745	22	10	20.3	60	4500	300	2000		91.04	66.57	2.53	
6	24-May	Drilling	12:50	13:45	0.92	7745	7777	32	10	34.9	60	4700	300	2000		90.82	66.61	0.53	
6	24-May	Drilling	14:00	14:25	0.42	7777	7795	18	10	43.2	60	4700	300	2000		90.84	66.71	0.53	
6	24-May	Sliding	15:00	15:55	0.92	7795	7808	13	12	14.2	0	0	300	2000	45R	90.86	66.78	0.53	
6	24-May	Drilling	16:10	16:39	0.48	7808	7840	32	10	66.2	60	0	300	2000		90.89	66.94	0.53	
6	24-May	Drilling	16:55	17:15	0.33	7840	7865	25	10	75.0	60	0	300	2000		91.03	67.07	1.08	
6	24-May	Drilling	17:26	17:35	0.15	7865	7872	7	10	46.7	60	0	300	2000		91.10	67.11	1.08	
6	24-May	Drilling	17:52	18:18	0.43	7872	7904	32	10	73.8	60	0	300	2000		91.40	67.28	1.08	
6	24-May	Sliding	18:35	19:22	0.78	7904	7912	8	12	10.2	60	0	300	2000	30R	91.48	67.32	1.08	
6	24-May	Drilling	19:22	19:52	0.50	7912	7936	24	10	48.0	60	0	300	2000		91.71	67.45	1.08	
6	24-May	Sliding	20:10	20:43	0.55	7936	7945	9	12	16.4	60	0	300	2000	30R	91.79	67.49	1.08	
6	24-May	Drilling	20:43	21:07	0.40	7945	7968	23	10	57.5	60	0	300	2000		91.59	67.43	0.99	
6	24-May	Drilling	21:22	21:45	0.38	7968	7999	31	10	80.9	60	0	300	2000		91.30	67.33	0.99	
6	24-May	Drilling	22:04	22:24	0.33	7999	8031	32	10	96.0	60	0	300	2000		91.00	67.23	0.99	
6	24-May	Drilling	22:37	23:07	0.50	8031	8063	32	10	64.0	60	0	300	2000		90.99	67.18	0.43	
6	24-May	Drilling	23:22	23:46	0.40	8063	8095	32	10	80.0	60	0	300	2000		91.12	67.14	0.43	
6	25-May	Sliding	00:00	00:34	0.57	8095	8103	8	15	14.1	0	0	300	2000	30R	91.15	67.14	0.43	
6	25-May	Drilling	00:34	00:55	0.35	8103	8127	24	13	68.6	55	5200	300	2000		91.25	67.11	0.43	

Slide Report for BHA # 6

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
6	25-May	Drilling	01:09	01:35	0.43	8127	8159	32	13	73.8	55	5200	300	2000		91.15	66.97	0.97	
6	25-May	Sliding	01:53	02:30	0.62	8159	8168	9	15	14.6	0	0	300	2000	360G	91.08	66.91	0.97	
6	25-May	Drilling	02:30	02:50	0.33	8168	8191	23	13	69.0	55	5300	300	2000		90.91	66.77	0.97	
6	25-May	Drilling	03:06	03:32	0.43	8191	8222	31	13	71.5	55	5300	300	2000		90.68	66.57	0.97	
6	25-May	Drilling	03:45	04:15	0.50	8222	8254	32	13	64.0	55	5300	300	2000		90.71	66.41	0.67	
6	25-May	Sliding	04:35	05:20	0.75	8254	8264	10	15	13.3	0	0	300	2000	25R	90.76	66.37	0.67	
6	25-May	Drilling	05:20	05:55	0.58	8264	8286	22	13	37.7	55	5300	300	2000		90.88	66.28	0.67	
6	25-May	Drilling	06:10	06:40	0.50	8286	8318	32	13	64.0	55	5300	300	2000		91.04	66.15	0.67	
6	25-May	Drilling	06:55	07:25	0.50	8318	8350	32	13	64.0	55	5300	300	2000		91.08	66.06	0.24	
6	25-May	Drilling	07:40	08:40	1.00	8350	8382	32	13	32.0	55	5300	300	2000		91.04	65.99	0.24	
6	25-May	Drilling	08:55	09:35	0.67	8382	8413	31	12	46.5	55	5300	300	2000		91.01	65.92	0.24	
6	25-May	Drilling	09:50	10:45	0.92	8413	8445	32	12	34.9	55	5300	300	2000		91.30	67.10	0.28	
6	25-May	Drilling	11:00	11:30	0.50	8445	8477	32	12	64.0	55	5300	300	2000		91.30	67.10	0.28	
6	25-May	Drilling	11:45	12:10	0.42	8477	8509	32	12	76.8	55	5300	300	2000		91.30	67.10	0.28	

Total Drilled:

2518

Avg. Total ROP:

33.71

DEPTH% - TIME %

Total Rotary Drilled:

2120

Avg. Rotary ROP:

44.55

Percent Rotary:

84.19 - 63.70

Total Drilled Sliding:

398

Avg. Slide ROP:

14.68

Percent Slide:

15.81 - 36.30



JOB NO.: 02826-432-22
Company: KGH Operating Co.
LOCATION: SW of Rangley Co
RIG NAME: L&W #1
STATE: Colorado
COUNTY: Country
WELL NAME: Meagher 10-1H

FIELD: SW Rangely
Township: 1S
Range 104W

MOTOR INFORMATION

Desc: MOTOR 7/8 2.6 FIXED
Bent Hsg/Sub: 1.5 / 0 **Bit to Bend:** 5.62
Pad OD: 4.875 **NB Stab:**

Slide Report for BHA # 7

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
7	26-May	Drilling	06:00	06:35	0.58	8509	8541	32	12	54.9	55	5400	300	2000		91.02	65.09	0.43	
7	26-May	Drilling	06:50	07:20	0.50	8541	8573	32	12	64.0	55	5400	300	2000		91.06	65.22	0.43	
7	26-May	Drilling	07:35	08:20	0.75	8573	8604	31	12	41.3	60	5100	300	2100		91.09	65.35	0.43	
7	26-May	Drilling	08:35	09:05	0.50	8604	8636	32	12	64.0	60	5100	300	2100		90.79	65.73	2.16	
7	26-May	Drilling	09:20	09:50	0.50	8636	8668	32	12	64.0	60	5100	300	2100		90.32	66.24	2.16	
7	26-May	Drilling	10:05	10:50	0.75	8668	8700	32	12	42.7	60	5100	300	2100		89.85	66.74	2.16	
7	26-May	Sliding	11:10	11:45	0.58	8700	8710	10	15	17.1	0	0	300	2100	135R	89.70	66.90	2.16	
7	26-May	Drilling	11:45	12:50	1.08	8710	8732	22	12	20.3	60	5100	300	2100		89.63	66.97	0.44	
7	26-May	Drilling	13:35	14:15	0.67	8732	8763	31	12	46.5	60	5100	300	2100		89.53	67.07	0.44	
7	26-May	Drilling	14:30	15:05	0.58	8763	8795	32	12	54.9	60	5100	300	2100		89.43	67.17	0.44	
7	26-May	Drilling	15:20	15:55	0.58	8795	8827	32	12	54.9	60	5100	300	2100		89.49	67.20	0.42	
7	26-May	Drilling	16:05	16:32	0.45	8827	8859	32	12	71.1	60	5100	300	2100		89.62	67.20	0.42	
7	26-May	Drilling	16:49	17:15	0.43	8859	8891	32	12	73.8	60	5100	300	2100		89.76	67.20	0.42	
7	26-May	Drilling	17:33	17:56	0.38	8891	8896	5	12	13.0	60	5100	300	2100	15L	89.78	67.20	0.42	
7	26-May	Drilling	17:56	18:39	0.72	8896	8923	27	12	37.7	60	5100	300	2100		90.40	67.38	2.83	
7	26-May	Drilling	18:56	19:25	0.48	8923	8954	31	12	64.1	60	5100	300	2100		91.24	67.64	2.83	
7	26-May	Drilling	19:41	20:07	0.43	8954	8986	32	12	73.8	60	5100	300	2100		92.10	67.91	2.83	
7	26-May	Drilling	20:24	20:50	0.43	8986	9018	32	12	73.8	60	5100	300	2100		91.91	68.18	2.46	
7	26-May	Drilling	21:06	21:49	0.72	9018	9050	32	12	44.7	60	5100	300	2100		91.17	68.45	2.46	
7	26-May	Sliding	21:57	22:19	0.37	9050	9057	7	15	19.1	60	5100	300	2100	120L	91.01	68.51	2.46	
7	26-May	Drilling	22:19	23:14	0.92	9057	9082	25	12	27.3	60	5100	300	2100		90.43	68.72	2.46	
7	26-May	Drilling	23:30	24:00	0.50	9082	9107	25	12	50.0	60	5100	300	2100		90.37	68.77	1.16	
7	27-May	Drilling	00:00	00:15	0.25	9107	9114	7	12	28.0	60	5100	300	2100		90.45	68.75	1.16	
7	27-May	Sliding	00:30	00:46	0.27	9114	9121	7	15	26.3	0	0	300	2100	6L	90.53	68.74	1.16	
7	27-May	Drilling	00:46	01:13	0.45	9121	9145	24	12	53.3	60	5100	300	2100		90.81	68.69	1.16	
7	27-May	Drilling	01:28	02:17	0.82	9145	9177	32	12	39.2	60	5400	300	2100		91.17	68.62	1.16	
7	27-May	Drilling	02:27	03:02	0.58	9177	9209	32	12	54.9	60	5400	300	2100		91.30	68.71	0.53	

Slide Report for BHA # 7

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
7	27-May	Drilling	03:16	03:50	0.57	9209	9241	32	12	56.5	60	5400	300	2100		91.30	68.88	0.53	
7	27-May	Drilling	04:05	04:35	0.50	9241	9273	32	12	64.0	60	5400	300	2100		91.30	69.05	0.53	
7	27-May	Drilling	05:30	06:05	0.58	9273	9304	31	13	53.1	60	5400	300	2300		91.37	69.28	0.89	
7	27-May	Drilling	06:20	06:50	0.50	9304	9336	32	13	64.0	60	5400	300	2300		91.47	69.54	0.89	
7	27-May	Drilling	07:05	07:40	0.58	9336	9368	32	13	54.9	60	5400	300	2300		91.57	69.81	0.89	
7	27-May	Drilling	07:55	08:30	0.58	9368	9400	32	13	54.9	50	5000	300	2300		91.51	69.92	0.43	
7	27-May	Drilling	08:45	09:15	0.50	9400	9432	32	13	64.0	50	4800	300	2300		91.38	69.96	0.43	
7	27-May	Drilling	09:30	10:05	0.58	9432	9464	32	13	54.9	55	6000	300	2300		91.24	69.99	0.43	
7	27-May	Drilling	10:25	10:50	0.42	9464	9495	31	13	74.4	55	6000	300	2300		91.11	70.15	0.84	
7	27-May	Drilling	11:05	11:30	0.42	9495	9527	32	13	76.8	55	6000	300	2300		90.98	70.39	0.84	
7	27-May	Drilling	11:45	12:10	0.42	9527	9559	32	13	76.8	55	6000	300	2300		90.85	70.62	0.84	
7	27-May	Drilling	12:25	12:55	0.50	9559	9591	32	13	64.0	55	6000	300	2300		90.93	70.68	0.64	
7	27-May	Drilling	13:10	13:42	0.53	9591	9623	32	13	60.0	55	6000	300	2300		91.13	70.64	0.64	
7	27-May	Drilling	13:59	14:19	0.33	9623	9655	32	13	96.0	55	6000	300	2300		91.34	70.61	0.64	
7	27-May	Drilling	14:31	15:05	0.57	9655	9686	31	13	54.7	55	6000	300	2300		91.38	70.56	0.23	
7	27-May	Drilling	15:21	16:14	0.88	9686	9718	32	13	36.2	55	6000	300	2300		91.34	70.49	0.23	
7	27-May	Sliding	16:32	16:54	0.37	9718	9725	7	15	19.1	55	6000	300	2300	160L	91.34	70.48	0.23	
7	27-May	Drilling	16:54	17:36	0.70	9725	9750	25	13	35.7	55	6000	300	2300		91.31	70.42	0.23	
7	27-May	Drilling	17:48	18:35	0.78	9750	9782	32	13	40.9	55	6000	300	2300		91.32	70.33	0.33	
7	27-May	Drilling	18:45	19:19	0.57	9782	9814	32	13	56.5	55	6000	300	2300		91.36	70.23	0.33	
7	27-May	Sliding	19:36	19:50	0.23	9814	9818	4	15	17.1	55	6000	300	2300	160L	91.36	70.22	0.33	
7	27-May	Drilling	19:50	20:33	0.72	9818	9833	15	13	20.9	55	6000	300	2300		91.38	70.17	0.33	
7	27-May	Drilling	23:52	24:00	0.13	9833	9835	2	13	15.0	55	6000	300	2300		91.38	70.17	0.33	
7	28-May	Drilling	00:00	00:20	0.33	9835	9846	11	13	33.0	55	6000	300	2300		91.39	70.13	0.33	
7	28-May	Drilling	00:58	01:23	0.42	9846	9861	15	13	36.0	55	6000	300	2300		91.38	70.00	2.02	
7	28-May	Drilling	01:35	02:10	0.58	9861	9877	16	10	27.4	55	6000	300	2300		91.31	69.68	2.02	
7	28-May	Sliding	02:30	02:55	0.42	9877	9889	12	15	28.8	0	0	300	2300	170L	91.26	69.45	2.02	
7	28-May	Drilling	02:55	03:40	0.75	9889	9909	20	12	26.7	55	5500	300	2300		91.18	69.05	2.02	
7	28-May	Drilling	03:55	04:35	0.67	9909	9941	32	12	48.0	55	5500	300	2300		91.05	68.42	2.02	
7	28-May	Drilling	04:50	05:05	0.25	9941	9957	16	12	64.0	55	5500	300	2300		90.93	68.20	1.47	
7	28-May	Drilling	05:15	06:40	1.42	9957	9973	16	12	11.3	55	5500	300	2300		90.69	68.20	1.47	
7	28-May	Drilling	06:55	07:30	0.58	9973	10005	32	13	54.9	60	6000	300	2400		90.22	68.20	1.47	
7	28-May	Drilling	07:45	08:30	0.75	10005	10037	32	13	42.7	60	6000	300	2400		89.75	68.20	1.47	
7	28-May	Sliding	08:50	10:50	2.00	10037	10051	14	15	7.0	60	6200	300	2400	180G	89.58	68.22	0.60	
7	28-May	Drilling	10:50	11:20	0.50	10051	10068	17	13	34.0	60	6200	300	2400		89.51	68.29	0.60	

Slide Report for BHA # 7

Note: Surveys listed are interpolated from the actual surveys

#	Date	Drill Mode	Start Time	End Time	Hours	Start MD	End MD	Depth Drilled	WOB	ROP	RPM	Surf. Torque	Flow Rate	SPP	TFO	INC	AZM	DLS	Note
7	28-May	Drilling	11:35	12:00	0.42	10068	10082	14	13	33.6	60	6200	300	2400		89.45	68.35	0.60	
7	28-May	Drilling	12:45	13:10	0.42	10082	10100	18	13	43.2	60	6200	300	2400		89.38	68.42	0.60	
7	28-May	Drilling	13:25	14:15	0.83	10100	10132	32	14	38.4	60	6200	300	2400		89.24	68.56	0.60	
7	28-May	Drilling	14:35	15:25	0.83	10132	10164	32	14	38.4	60	6200	300	2400		89.18	68.55	0.23	
7	28-May	Drilling	17:00	17:35	0.58	10164	10195	31	14	53.1	60	6200	300	2400		89.14	68.49	0.23	
7	28-May	Drilling	17:55	18:20	0.42	10195	10227	32	14	76.8	60	6200	300	2400		89.11	68.42	0.23	
7	28-May	Drilling	18:38	19:04	0.43	10227	10259	32	14	73.8	60	6200	300	2400		88.64	68.01	2.88	
7	28-May	Drilling	20:03	20:26	0.38	10259	10291	32	14	83.5	60	6200	300	2400		87.91	67.56	2.58	
7	28-May	Drilling	20:49	21:09	0.33	10291	10323	32	14	96.0	60	6200	300	2400		87.17	67.20	2.58	

Total Drilled: 1814 **Avg. Total ROP:** 44.72 **DEPTH% - TIME %**

Total Rotary Drilled: 1753 **Avg. Rotary ROP:** 48.25 **Percent Rotary:** 96.64 - 89.56

Total Drilled Sliding: 61 **Avg. Slide ROP:** 14.41 **Percent Slide:** 3.36 - 10.44

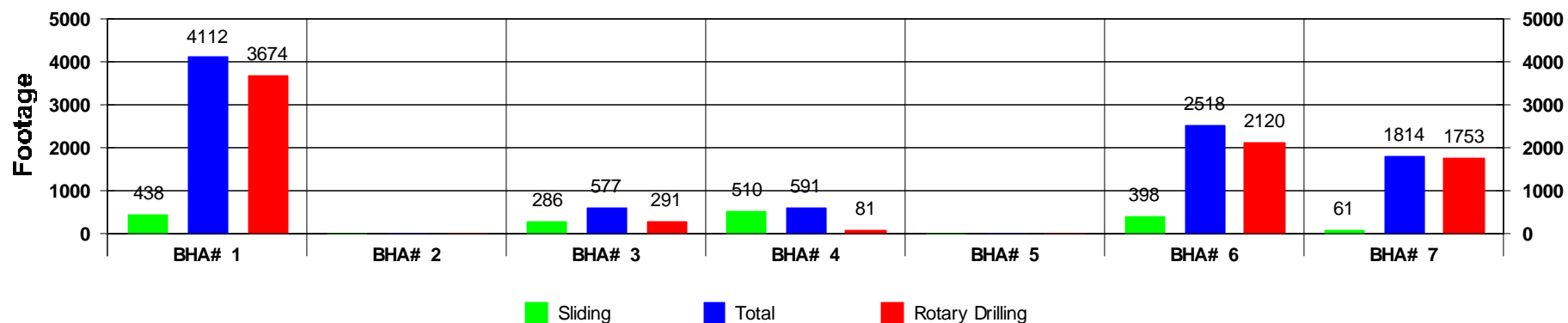


Charts

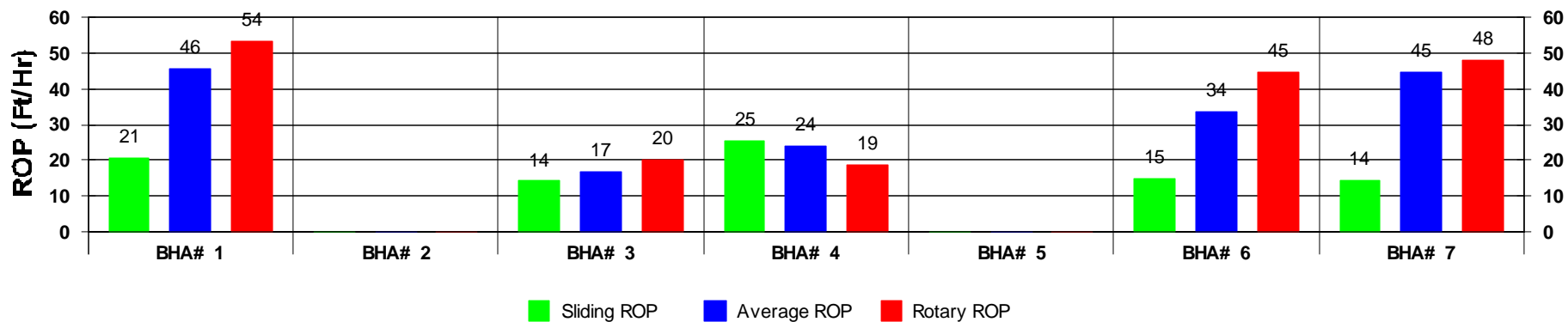


JOB NO.:	02826-432-22	FIELD:	SW Rangely	
Company:	KGH Operating Co.	Township:	1S	
LOCATION:	SW of Rangley Co	SECTORANGE:	10	104W
RIG NAME:	L&W #1	COMMENT		
STATE:	Colorado			
COUNTY:	Rio Blanco			
WELL NAME:	Meagher 10-1H			

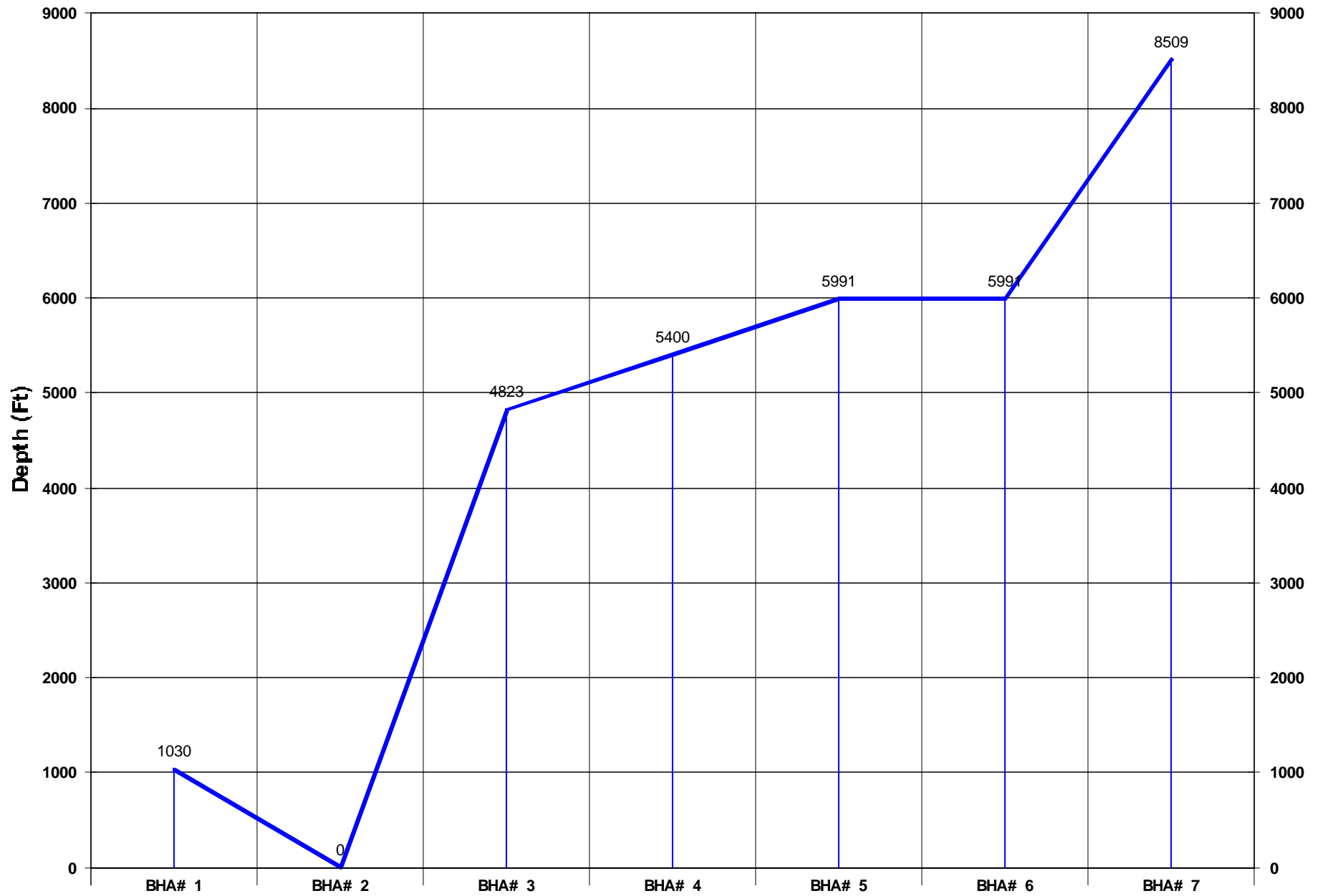
Footage Drilled with BHA



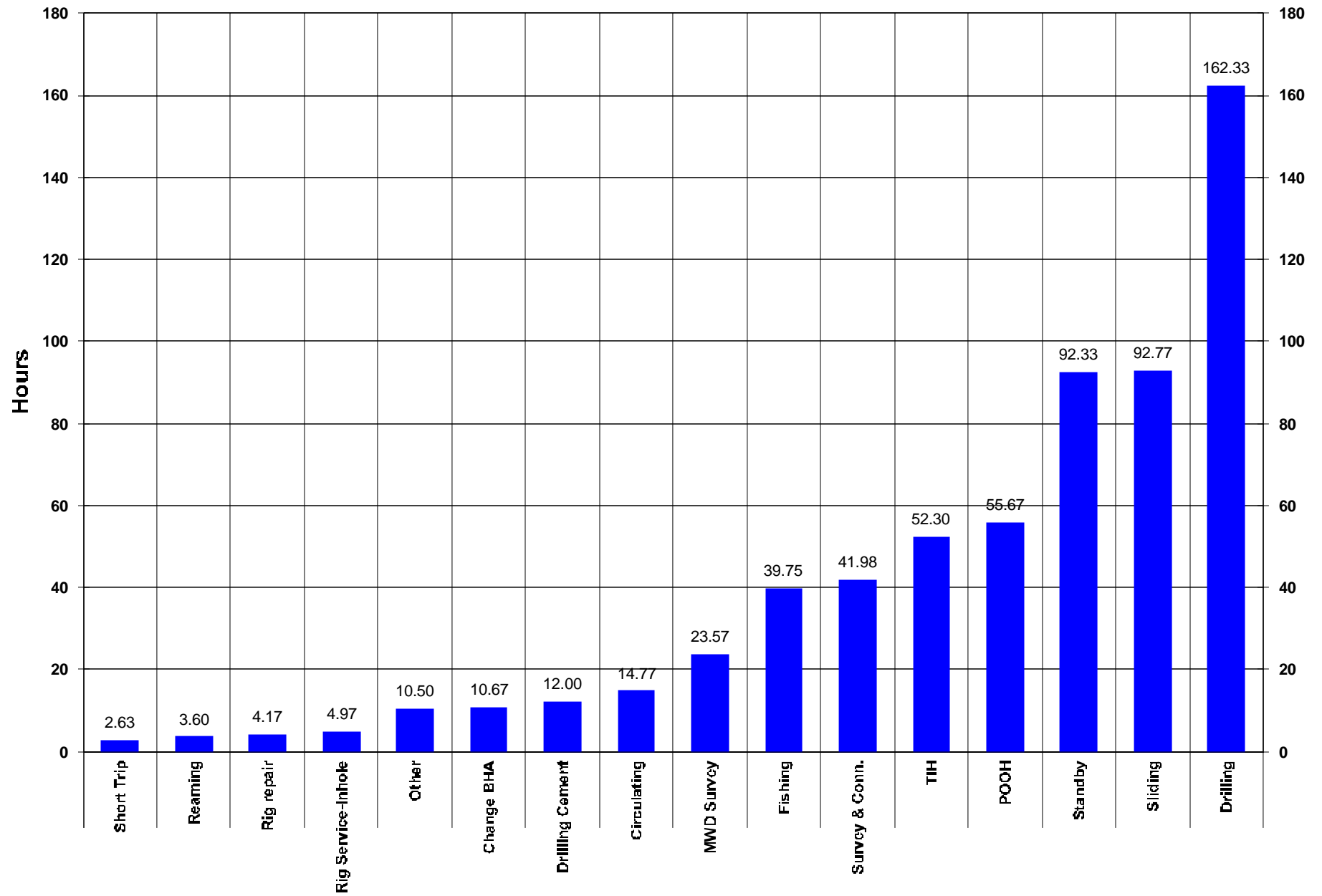
ROP vs BHA



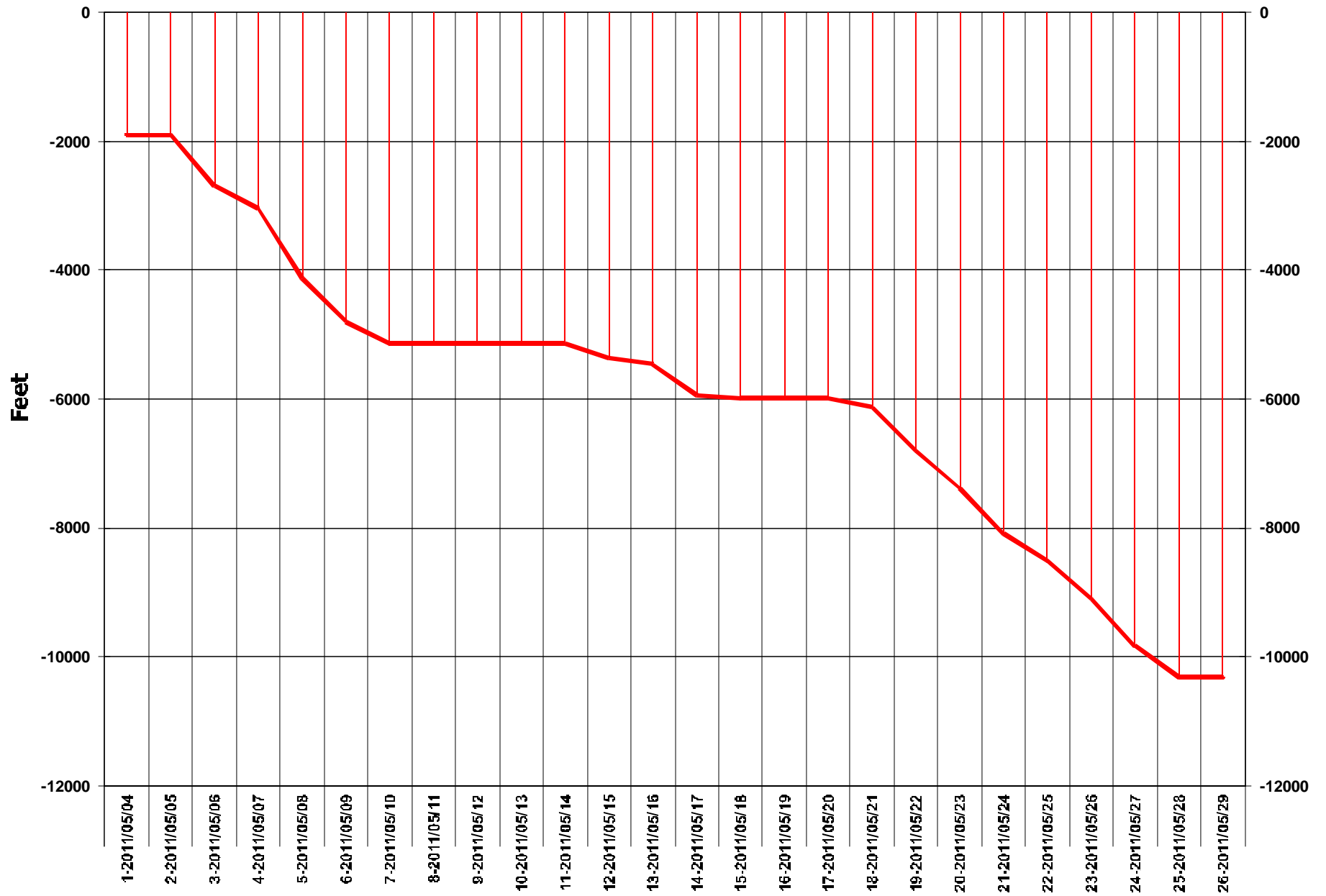
Depth vs BHA



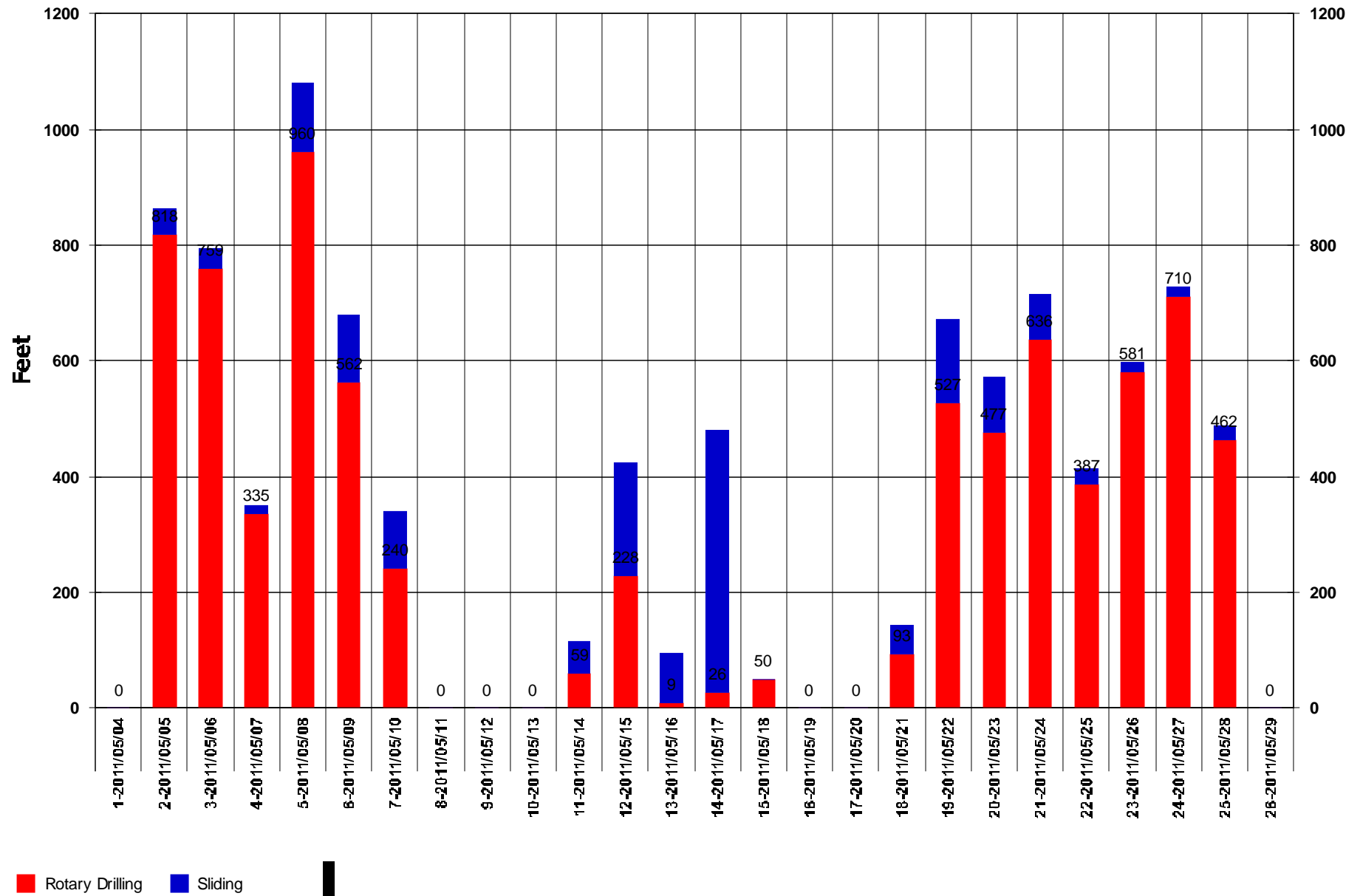
Activity Histogram



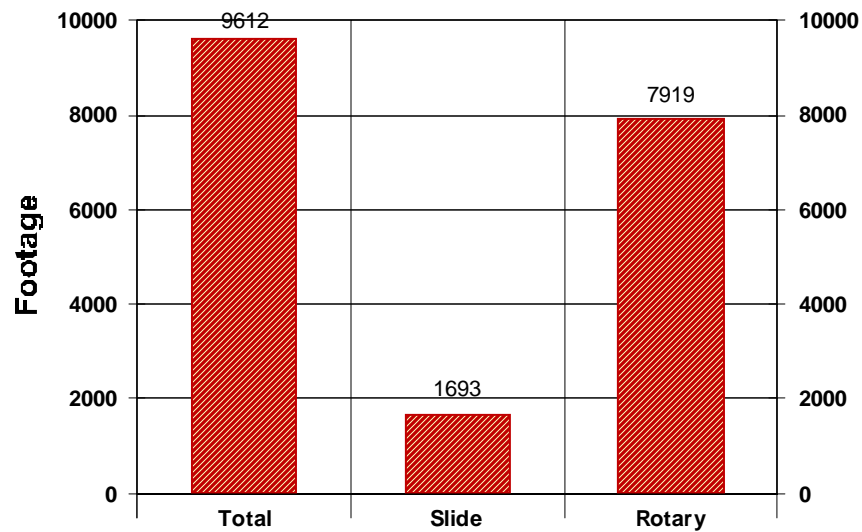
Measured Depth vs Days



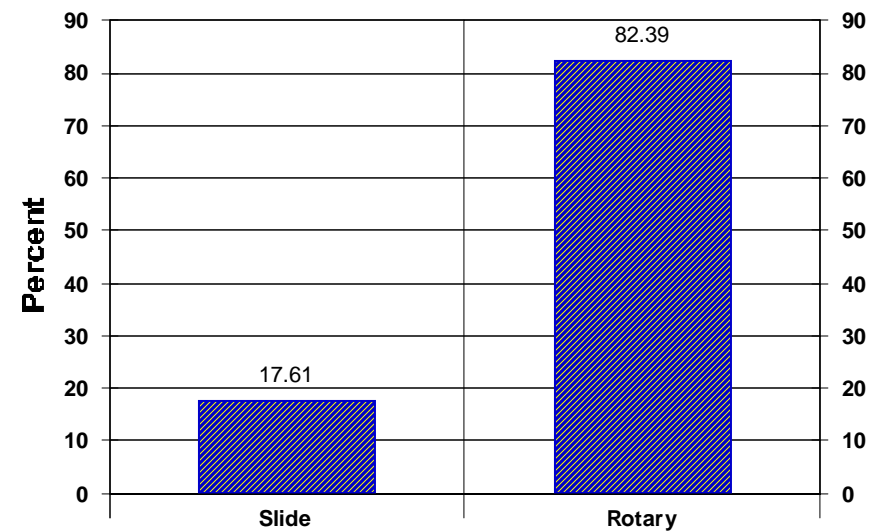
Daily Footage



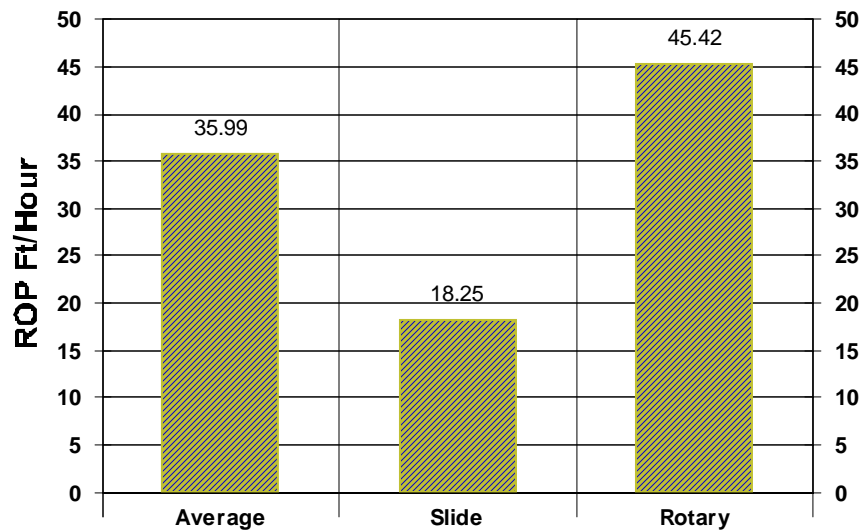
Footage Drilled Totals



Footage Percent



Rate of Penetration Totals



Time Percent

