



Project: DOLORES COUNTY, COLORADO
 Site: KNUCKLES
 Well: KNUCKLES
 Wellbore: KNUCKLES
 Design: Design #1
 Lat: 37° 39' 36.430 N
 Long: 108° 47' 53.600 W
 GL: 6723.30
 KB: WELL @ 6739.30ft (Original Well Elev)

2S-11



Weatherford®

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5384.01	0.00	0.00	5384.01	0.00	0.00	0.00	0.00	0.00	Start Build 12.00
6133.51	89.94	180.08	5861.48	-476.97	-0.67	12.00	180.08	476.97	Start 4078.51 hold at 6133.51 MD
10212.02	89.94	180.08	5865.75	-4555.47	-6.43	0.00	0.00	4555.48	TD at 10212.02

WELL DETAILS: KNUCKLES 2H-11-39-18

Ground Level: 6723.30

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	378580.58	1045424.96	37° 39' 36.430 N	108° 47' 53.600 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
PBHL KNUCKLES 2H-11-39-18	5865.75	-4555.47	-6.43	37° 38' 51.390 N	108° 47' 53.680 W	Point

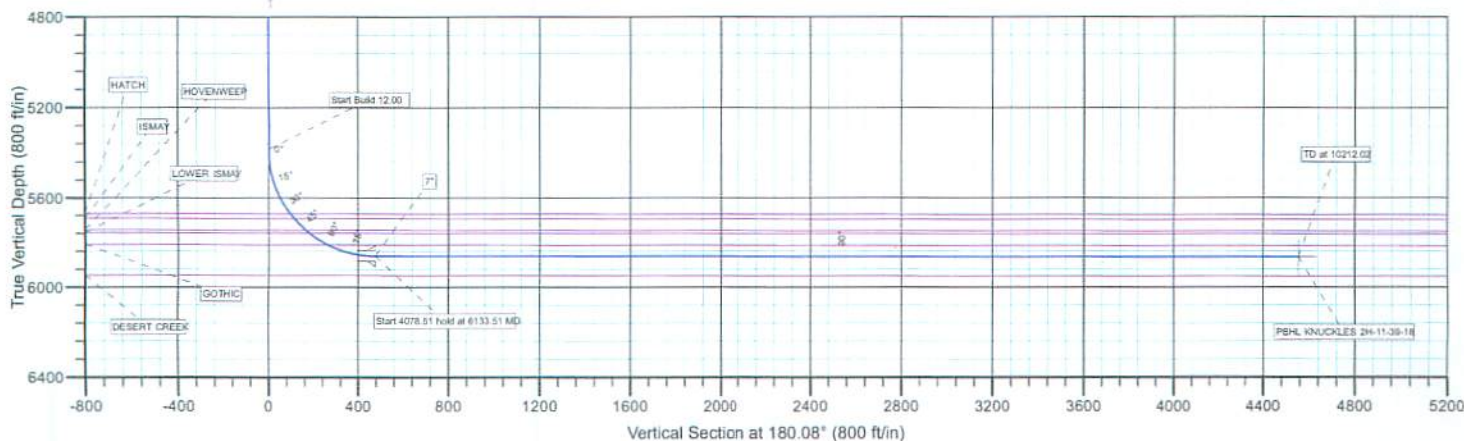
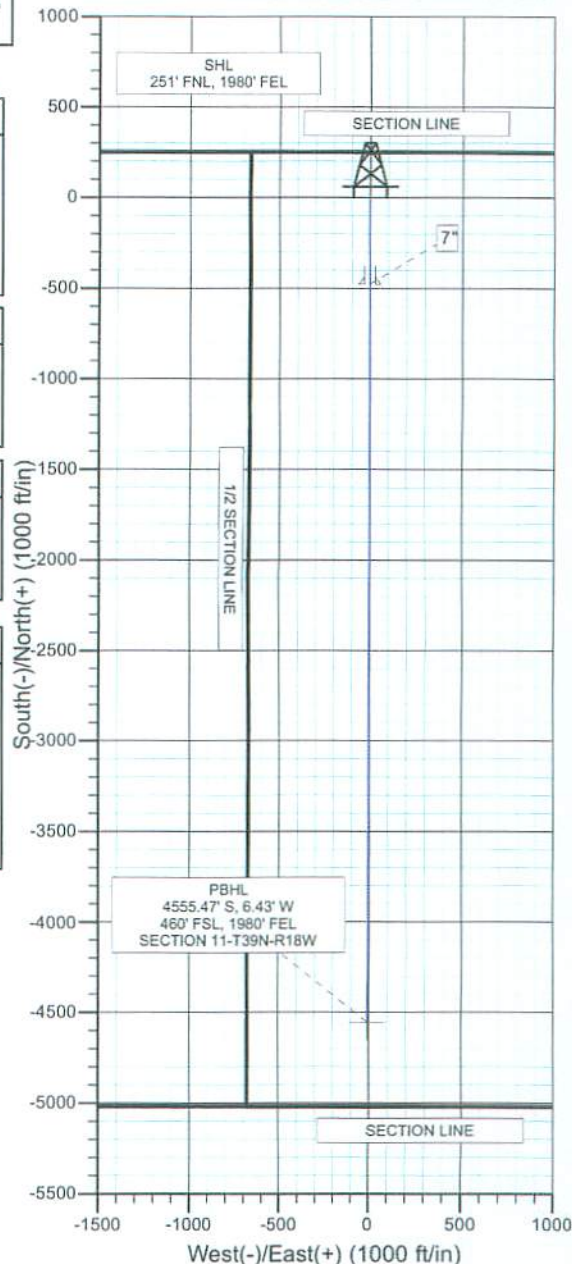
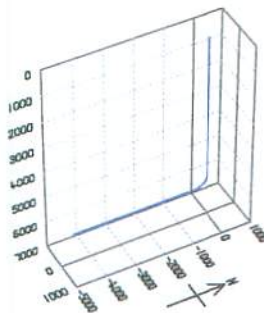


Azimuths to True North
 Magnetic North: 10.73°

Magnetic Field
 Strength: 51362.6snT
 Dip Angle: 64.16°
 Date: 2/16/2009
 Model: BGGM2008

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1091.00	1091.00	DESERT CREEK
1550.00	1550.00	ENTRADA
4040.00	4040.00	CHINLE
5672.10	5693.28	HERMOSA
5693.12	5720.22	HATCH
5745.17	5793.59	ISMAY
5758.19	5814.00	HOVENWEEP
5811.28	5913.10	LOWER ISMAY
		GOTHIC



Plan: Design #1 (KNUCKLES 2H-11-39-18/KNUCKLES 2H-11-39-18)

Created By: TRACY WILLIAMS Date: 11.18, February 16 2009



Bill Barrett Corporation

BILL BARRETT CORP

DOLORES COUNTY, COLORADO

KNUCKLES 2H-11-39-18

KNUCKLES 2H-11-39-18

KNUCKLES 2H-11-39-18

Plan: Design #1

Standard Planning Report

16 February, 2009



Weatherford®

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well KNUCKLES 2H-11-39-18
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 6739.30ft (Original Well Elev)
Project:	DOLORES COUNTY, COLORADO	MD Reference:	WELL @ 6739.30ft (Original Well Elev)
Site:	KNUCKLES 2H-11-39-18	North Reference:	True
Well:	KNUCKLES 2H-11-39-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	KNUCKLES 2H-11-39-18		
Design:	Design #1		

Project	DOLORES COUNTY, COLORADO		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado South 503		

Site	KNUCKLES 2H-11-39-18		
Site Position:		Northing:	378,580.58 ft
From:	Lat/Long	Easting:	1,045,424.96 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	37° 39' 36.430 N
		Longitude:	108° 47' 53.600 W
		Grid Convergence:	-2.02 °

Well	KNUCKLES 2H-11-39-18		
Well Position	+N/-S	0.00 ft	Northing: 378,580.58 ft
	+E/-W	0.00 ft	Easting: 1,045,424.96 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	37° 39' 36.430 N
		Longitude:	108° 47' 53.600 W
		Ground Level:	6,723.30 ft

Wellbore	KNUCKLES 2H-11-39-18				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2008	2/16/2009	10.73	64.16	51,363

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	180.08

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,384.01	0.00	0.00	5,384.01	0.00	0.00	0.00	0.00	0.00	0.00	
6,133.51	89.94	180.08	5,861.48	-476.97	-0.67	12.00	12.00	0.00	180.08	PBHL KNUCKLES
10,212.02	89.94	180.08	5,865.75	-4,555.47	-6.43	0.00	0.00	0.00	0.00	PBHL KNUCKLES

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Project:	DOLORES COUNTY, COLORADO	MD Reference:	WELL @ 6739.30ft (Original Well Elev)
Site:	KNUCKLES 2H-11-39-18	North Reference:	True
Well:	KNUCKLES 2H-11-39-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	KNUCKLES 2H-11-39-18		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
ENTRADA									
1,091.00	0.00	0.00	1,091.00	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
CHINLE									
1,550.00	0.00	0.00	1,550.00	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
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
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
HERMOSA									
4,040.00	0.00	0.00	4,040.00	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
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
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
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site:	KNUCKLES 2H-11-39-18	North Reference:	True
Well:	KNUCKLES 2H-11-39-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	KNUCKLES 2H-11-39-18		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 12.00									
5,384.01	0.00	0.00	5,384.01	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	1.92	180.08	5,400.00	-0.27	0.00	0.27	12.00	12.00	0.00
5,425.00	4.92	180.08	5,424.95	-1.76	0.00	1.76	12.00	12.00	0.00
5,450.00	7.92	180.08	5,449.79	-4.55	-0.01	4.55	12.00	12.00	0.00
5,475.00	10.92	180.08	5,474.45	-8.64	-0.01	8.64	12.00	12.00	0.00
5,500.00	13.92	180.08	5,498.86	-14.02	-0.02	14.02	12.00	12.00	0.00
5,525.00	16.92	180.08	5,522.96	-20.67	-0.03	20.67	12.00	12.00	0.00
5,550.00	19.92	180.08	5,546.68	-28.56	-0.04	28.56	12.00	12.00	0.00
5,575.00	22.92	180.08	5,569.95	-37.69	-0.05	37.69	12.00	12.00	0.00
5,600.00	25.92	180.08	5,592.71	-48.03	-0.07	48.03	12.00	12.00	0.00
5,625.00	28.92	180.08	5,614.90	-59.54	-0.08	59.54	12.00	12.00	0.00
5,650.00	31.92	180.08	5,636.45	-72.19	-0.10	72.19	12.00	12.00	0.00
5,675.00	34.92	180.08	5,657.32	-85.96	-0.12	85.96	12.00	12.00	0.00
HATCH									
5,693.28	37.11	180.08	5,672.10	-96.71	-0.14	96.71	12.00	12.00	0.00
5,700.00	37.92	180.08	5,677.43	-100.80	-0.14	100.80	12.00	12.00	0.00
ISMAY									
5,720.22	40.35	180.08	5,693.12	-113.56	-0.16	113.56	12.00	12.00	0.00
5,725.00	40.92	180.08	5,696.74	-116.67	-0.16	116.67	12.00	12.00	0.00
5,750.00	43.92	180.08	5,715.20	-133.54	-0.19	133.54	12.00	12.00	0.00
5,775.00	46.92	180.08	5,732.74	-151.34	-0.21	151.34	12.00	12.00	0.00
HOVENWEEP									
5,793.59	49.15	180.08	5,745.17	-165.16	-0.23	165.16	12.00	12.00	0.00
5,800.00	49.92	180.08	5,749.33	-170.04	-0.24	170.04	12.00	12.00	0.00
LOWER ISMAY									
5,814.00	51.60	180.08	5,758.19	-180.88	-0.26	180.88	12.00	12.00	0.00
5,825.00	52.92	180.08	5,764.92	-189.58	-0.27	189.58	12.00	12.00	0.00
5,850.00	55.92	180.08	5,779.47	-209.91	-0.30	209.91	12.00	12.00	0.00
5,875.00	58.92	180.08	5,792.93	-230.97	-0.33	230.97	12.00	12.00	0.00
5,900.00	61.92	180.08	5,805.27	-252.71	-0.36	252.71	12.00	12.00	0.00
GOTHIC									
5,913.10	63.49	180.08	5,811.28	-264.35	-0.37	264.35	12.00	12.00	0.00
5,925.00	64.92	180.08	5,816.45	-275.07	-0.39	275.07	12.00	12.00	0.00
5,950.00	67.92	180.08	5,826.45	-297.98	-0.42	297.98	12.00	12.00	0.00
5,975.00	70.92	180.08	5,835.24	-321.38	-0.45	321.38	12.00	12.00	0.00
6,000.00	73.92	180.08	5,842.79	-345.21	-0.49	345.21	12.00	12.00	0.00
6,025.00	76.92	180.08	5,849.09	-369.40	-0.52	369.40	12.00	12.00	0.00
6,050.00	79.92	180.08	5,854.10	-393.89	-0.56	393.89	12.00	12.00	0.00
6,075.00	82.92	180.08	5,857.83	-418.60	-0.59	418.60	12.00	12.00	0.00
6,100.00	85.92	180.08	5,860.26	-443.48	-0.63	443.48	12.00	12.00	0.00
6,125.00	88.92	180.08	5,861.39	-468.45	-0.66	468.45	12.00	12.00	0.00
Start 4078.51 hold at 6133.51 MD - 7"									
6,133.51	89.94	180.08	5,861.48	-476.96	-0.67	476.96	12.00	12.00	0.00
6,200.00	89.94	180.08	5,861.55	-543.45	-0.77	543.45	0.00	0.00	0.00
6,300.00	89.94	180.08	5,861.65	-643.45	-0.91	643.45	0.00	0.00	0.00

Top of Prod Int

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Wellbore:	KNUCKLES 2H-11-39-18		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
6,400.00	89.94	180.08	5,861.75	-743.45	-1.05	743.45	0.00	0.00	0.00
6,500.00	89.94	180.08	5,861.86	-843.45	-1.19	843.45	0.00	0.00	0.00
6,600.00	89.94	180.08	5,861.96	-943.45	-1.33	943.45	0.00	0.00	0.00
6,700.00	89.94	180.08	5,862.07	-1,043.45	-1.47	1,043.45	0.00	0.00	0.00
6,800.00	89.94	180.08	5,862.17	-1,143.45	-1.61	1,143.45	0.00	0.00	0.00
6,900.00	89.94	180.08	5,862.28	-1,243.45	-1.76	1,243.45	0.00	0.00	0.00
7,000.00	89.94	180.08	5,862.38	-1,343.45	-1.90	1,343.45	0.00	0.00	0.00
7,100.00	89.94	180.08	5,862.49	-1,443.45	-2.04	1,443.45	0.00	0.00	0.00
7,200.00	89.94	180.08	5,862.59	-1,543.45	-2.18	1,543.45	0.00	0.00	0.00
7,300.00	89.94	180.08	5,862.70	-1,643.45	-2.32	1,643.45	0.00	0.00	0.00
7,400.00	89.94	180.08	5,862.80	-1,743.45	-2.46	1,743.45	0.00	0.00	0.00
7,500.00	89.94	180.08	5,862.91	-1,843.45	-2.60	1,843.45	0.00	0.00	0.00
7,600.00	89.94	180.08	5,863.01	-1,943.45	-2.74	1,943.45	0.00	0.00	0.00
7,700.00	89.94	180.08	5,863.12	-2,043.45	-2.89	2,043.45	0.00	0.00	0.00
7,800.00	89.94	180.08	5,863.22	-2,143.45	-3.03	2,143.45	0.00	0.00	0.00
7,900.00	89.94	180.08	5,863.33	-2,243.45	-3.17	2,243.45	0.00	0.00	0.00
8,000.00	89.94	180.08	5,863.43	-2,343.45	-3.31	2,343.45	0.00	0.00	0.00
8,100.00	89.94	180.08	5,863.53	-2,443.45	-3.45	2,443.45	0.00	0.00	0.00
8,200.00	89.94	180.08	5,863.64	-2,543.45	-3.59	2,543.45	0.00	0.00	0.00
8,300.00	89.94	180.08	5,863.74	-2,643.45	-3.73	2,643.45	0.00	0.00	0.00
8,400.00	89.94	180.08	5,863.85	-2,743.45	-3.87	2,743.45	0.00	0.00	0.00
8,500.00	89.94	180.08	5,863.95	-2,843.45	-4.02	2,843.45	0.00	0.00	0.00
8,600.00	89.94	180.08	5,864.06	-2,943.45	-4.16	2,943.45	0.00	0.00	0.00
8,700.00	89.94	180.08	5,864.16	-3,043.45	-4.30	3,043.45	0.00	0.00	0.00
8,800.00	89.94	180.08	5,864.27	-3,143.45	-4.44	3,143.45	0.00	0.00	0.00
8,900.00	89.94	180.08	5,864.37	-3,243.45	-4.58	3,243.45	0.00	0.00	0.00
9,000.00	89.94	180.08	5,864.48	-3,343.45	-4.72	3,343.45	0.00	0.00	0.00
9,100.00	89.94	180.08	5,864.58	-3,443.45	-4.86	3,443.45	0.00	0.00	0.00
9,200.00	89.94	180.08	5,864.69	-3,543.45	-5.00	3,543.45	0.00	0.00	0.00
9,300.00	89.94	180.08	5,864.79	-3,643.45	-5.15	3,643.45	0.00	0.00	0.00
9,400.00	89.94	180.08	5,864.90	-3,743.45	-5.29	3,743.45	0.00	0.00	0.00
9,500.00	89.94	180.08	5,865.00	-3,843.45	-5.43	3,843.45	0.00	0.00	0.00
9,600.00	89.94	180.08	5,865.11	-3,943.45	-5.57	3,943.45	0.00	0.00	0.00
9,700.00	89.94	180.08	5,865.21	-4,043.45	-5.71	4,043.45	0.00	0.00	0.00
9,800.00	89.94	180.08	5,865.32	-4,143.45	-5.85	4,143.45	0.00	0.00	0.00
9,900.00	89.94	180.08	5,865.42	-4,243.45	-5.99	4,243.45	0.00	0.00	0.00
10,000.00	89.94	180.08	5,865.52	-4,343.45	-6.13	4,343.45	0.00	0.00	0.00
10,100.00	89.94	180.08	5,865.63	-4,443.45	-6.28	4,443.45	0.00	0.00	0.00
10,200.00	89.94	180.08	5,865.73	-4,543.45	-6.42	4,543.45	0.00	0.00	0.00
TD at 10212.02 - PBHL KNUCKLES 2H-11-39-18									
10,212.02	89.94	180.08	5,865.75	-4,555.47	-6.43	4,555.48	0.00	0.00	0.00

Wellbore Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL KNUCKLES 2H	- plan hits target center	0.00	0.00	5,865.75	-4,555.47	-6.43	374,028.19	1,045,257.71	37° 38' 51.390 N	108° 47' 53.680 W
	- Point									

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Well KNUCKLES 2H-11-39-18
Company:	BILL BARRETT CORP	TVD Reference:	WELL @ 6739.30ft (Original Well Elev)
Project:	DOLORES COUNTY, COLORADO	MD Reference:	WELL @ 6739.30ft (Original Well Elev)
Site:	KNUCKLES 2H-11-39-18	North Reference:	True
Well:	KNUCKLES 2H-11-39-18	Survey Calculation Method:	Minimum Curvature
Wellbore:	KNUCKLES 2H-11-39-18		
Design:	Design #1		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
6,133.51	5,861.48	7"	7	7-1/2

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,091.00	1,091.00	ENTRADA		0.06	180.08
1,550.00	1,550.00	CHINLE		0.06	180.08
4,040.00	4,040.00	HERMOSA		0.06	180.08
5,693.28	5,672.00	HATCH		0.06	180.08
5,720.22	5,693.00	ISMAY		0.06	180.08
5,793.59	5,745.00	HOVENWEEP		0.06	180.08
5,814.00	5,758.00	LOWER ISMAY		0.06	180.08
5,913.10	5,811.00	GOTHIC		0.06	180.08
	5,946.00	DESERT CREEK		0.06	180.08

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,384.01	5,384.01	0.00	0.00	Start Build 12.00
6,133.51	5,861.48	-476.97	-0.67	Start 4078.51 hold at 6133.51 MD
10,212.02	5,865.75	-4,555.47	-6.43	TD at 10212.02