

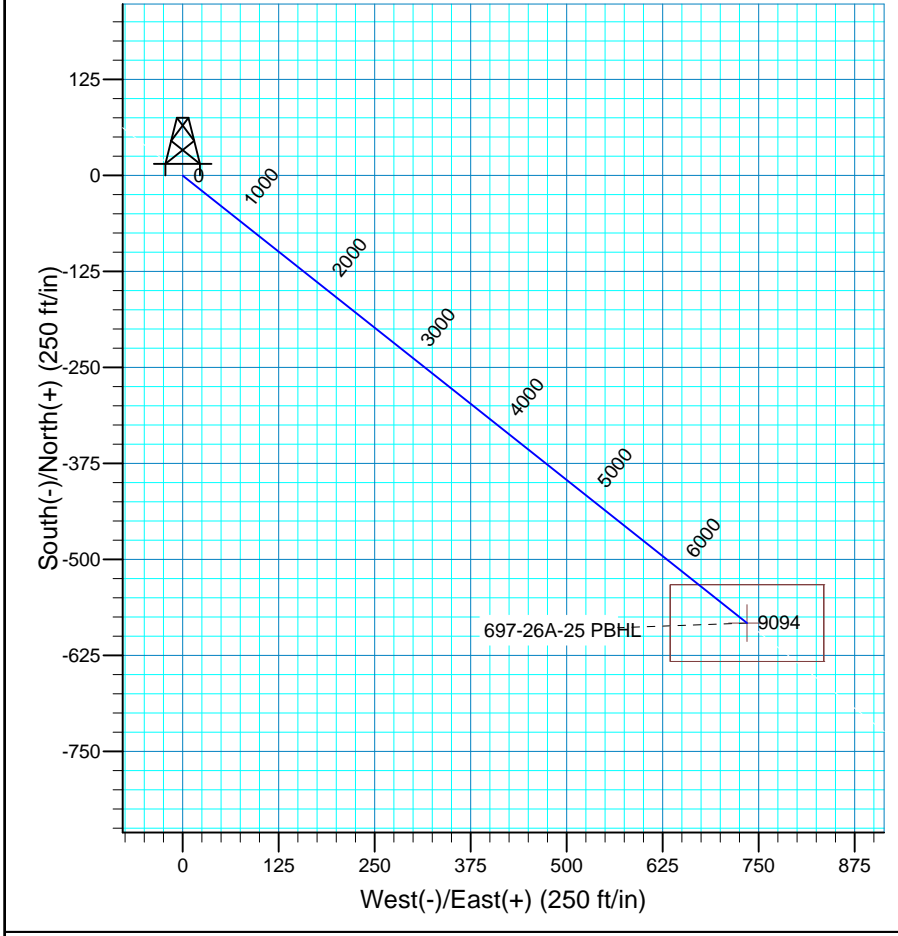
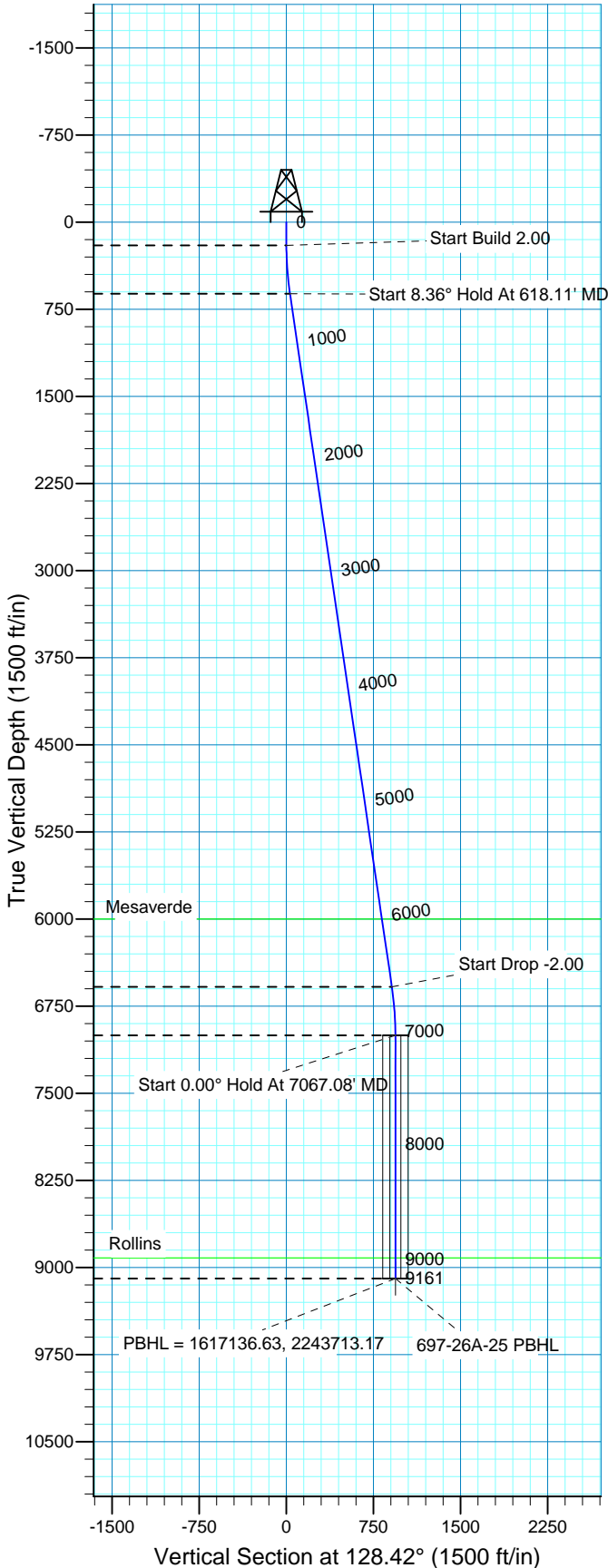
Azimuths to True North
Magnetic North: 10.60°

Magnetic Field
Strength: 52382.3snT
Dip Angle: 65.76°
Date: 12/31/2009
Model: IGRF200510

WELL DETAILS: 697-26A-25

GL 8400' & RKB 24' @ 8424.00ft (H&P 324)8400.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1617740.95	2242995.80	39° 29' 55.630 N	108° 10' 58.805 W	C



FORMATION TOP DETAILS			Plan: Plan #1 (697-26A-25/OH)	
TVDPath	MDPath	Formation	Created By:	Date:
6000.00	6059.33	Mesaverde	Rex Hall	2010-02-10
8918.00	8985.08	Rollins	PROJECT DETAILS: Garfield County, CO NAD 83	
Geodetic System: US State Plane 1983				
Datum: North American Datum 1983				
Ellipsoid: GRS 1980				
Zone: Colorado Central Zone				
System Datum: Mean Sea Level				
Local North: True				

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	
3	618.11	8.36	128.42	616.63	-18.93	23.86	2.00	128.42	30.46	
4	6648.97	8.36	128.42	6583.37	-563.95	711.04	0.00	0.00	907.53	
5	7067.08	0.00	0.00	7000.00	-582.87	734.90	2.00	180.00	937.99	
6	9161.08	0.00	0.00	9094.00	-582.87	734.90	0.00	0.00	937.99	697-26A-25 PBHL



Scientific Drilling
Rocky Mountain Operations

Marathon Oil Co.

**Garfield County, CO NAD 83
697-26A Pad
697-26A-25 - Slot C
OH**

Plan: Plan #1

Standard Planning Report

10 February, 2010



Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well 697-26A-25 - Slot C
Company:	Marathon Oil Co.	TVD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Project:	Garfield County, CO NAD 83	MD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Site:	697-26A Pad	North Reference:	True
Well:	697-26A-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Garfield County, CO NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Central Zone		

Site	697-26A Pad, Sec 26 T6S R97W				
Site Position:		Northing:	1,617,794.11 ft	Latitude:	39° 29' 56.147 N
From:	Map	Easting:	2,242,966.23 ft	Longitude:	108° 10' 59.202 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	-1.69 °

Well	697-26A-25 - Slot C, 894' FNL & 1395' FWL					
Well Position	+N/-S	0.00 ft	Northing:	1,617,740.95 ft	Latitude:	39° 29' 55.630 N
	+E/-W	0.00 ft	Easting:	2,242,995.80 ft	Longitude:	108° 10' 58.805 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,400.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	10.60	65.76	52,382

Design	Plan #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	128.42

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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
618.11	8.36	128.42	616.63	-18.93	23.86	2.00	2.00	0.00	128.42	
6,648.97	8.36	128.42	6,583.37	-563.95	711.04	0.00	0.00	0.00	0.00	
7,067.08	0.00	0.00	7,000.00	-582.87	734.90	2.00	-2.00	0.00	180.00	
9,161.08	0.00	0.00	9,094.00	-582.87	734.90	0.00	0.00	0.00	0.00	697-26A-25 PBHL

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well 697-26A-25 - Slot C
Company:	Marathon Oil Co.	TVD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Project:	Garfield County, CO NAD 83	MD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Site:	697-26A Pad	North Reference:	True
Well:	697-26A-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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
Start Build 2.00									
300.00	2.00	128.42	299.98	-1.08	1.37	1.75	2.00	2.00	0.00
400.00	4.00	128.42	399.84	-4.34	5.47	6.98	2.00	2.00	0.00
500.00	6.00	128.42	499.45	-9.75	12.30	15.69	2.00	2.00	0.00
600.00	8.00	128.42	598.70	-17.32	21.84	27.88	2.00	2.00	0.00
618.11	8.36	128.42	616.63	-18.93	23.86	30.46	2.00	2.00	0.00
Start 8.36° Hold At 618.11' MD									
700.00	8.36	128.42	697.65	-26.33	33.19	42.37	0.00	0.00	0.00
800.00	8.36	128.42	796.58	-35.36	44.59	56.91	0.00	0.00	0.00
900.00	8.36	128.42	895.52	-44.40	55.98	71.45	0.00	0.00	0.00
1,000.00	8.36	128.42	994.46	-53.44	67.38	86.00	0.00	0.00	0.00
1,100.00	8.36	128.42	1,093.39	-62.48	78.77	100.54	0.00	0.00	0.00
1,200.00	8.36	128.42	1,192.33	-71.51	90.17	115.08	0.00	0.00	0.00
1,300.00	8.36	128.42	1,291.27	-80.55	101.56	129.63	0.00	0.00	0.00
1,400.00	8.36	128.42	1,390.20	-89.59	112.95	144.17	0.00	0.00	0.00
1,500.00	8.36	128.42	1,489.14	-98.62	124.35	158.71	0.00	0.00	0.00
1,600.00	8.36	128.42	1,588.08	-107.66	135.74	173.25	0.00	0.00	0.00
1,700.00	8.36	128.42	1,687.01	-116.70	147.14	187.80	0.00	0.00	0.00
1,800.00	8.36	128.42	1,785.95	-125.74	158.53	202.34	0.00	0.00	0.00
1,900.00	8.36	128.42	1,884.89	-134.77	169.93	216.88	0.00	0.00	0.00
2,000.00	8.36	128.42	1,983.83	-143.81	181.32	231.43	0.00	0.00	0.00
2,100.00	8.36	128.42	2,082.76	-152.85	192.71	245.97	0.00	0.00	0.00
2,200.00	8.36	128.42	2,181.70	-161.88	204.11	260.51	0.00	0.00	0.00
2,300.00	8.36	128.42	2,280.64	-170.92	215.50	275.06	0.00	0.00	0.00
2,400.00	8.36	128.42	2,379.57	-179.96	226.90	289.60	0.00	0.00	0.00
2,500.00	8.36	128.42	2,478.51	-189.00	238.29	304.14	0.00	0.00	0.00
2,600.00	8.36	128.42	2,577.45	-198.03	249.69	318.69	0.00	0.00	0.00
2,700.00	8.36	128.42	2,676.38	-207.07	261.08	333.23	0.00	0.00	0.00
2,800.00	8.36	128.42	2,775.32	-216.11	272.48	347.77	0.00	0.00	0.00
2,900.00	8.36	128.42	2,874.26	-225.15	283.87	362.32	0.00	0.00	0.00
3,000.00	8.36	128.42	2,973.19	-234.18	295.26	376.86	0.00	0.00	0.00
3,100.00	8.36	128.42	3,072.13	-243.22	306.66	391.40	0.00	0.00	0.00
3,200.00	8.36	128.42	3,171.07	-252.26	318.05	405.94	0.00	0.00	0.00
3,300.00	8.36	128.42	3,270.00	-261.29	329.45	420.49	0.00	0.00	0.00
3,400.00	8.36	128.42	3,368.94	-270.33	340.84	435.03	0.00	0.00	0.00
3,500.00	8.36	128.42	3,467.88	-279.37	352.24	449.57	0.00	0.00	0.00
3,600.00	8.36	128.42	3,566.81	-288.41	363.63	464.12	0.00	0.00	0.00
3,700.00	8.36	128.42	3,665.75	-297.44	375.02	478.66	0.00	0.00	0.00
3,800.00	8.36	128.42	3,764.69	-306.48	386.42	493.20	0.00	0.00	0.00
3,900.00	8.36	128.42	3,863.63	-315.52	397.81	507.75	0.00	0.00	0.00
4,000.00	8.36	128.42	3,962.56	-324.55	409.21	522.29	0.00	0.00	0.00
4,100.00	8.36	128.42	4,061.50	-333.59	420.60	536.83	0.00	0.00	0.00
4,200.00	8.36	128.42	4,160.44	-342.63	432.00	551.38	0.00	0.00	0.00
4,300.00	8.36	128.42	4,259.37	-351.67	443.39	565.92	0.00	0.00	0.00
4,400.00	8.36	128.42	4,358.31	-360.70	454.78	580.46	0.00	0.00	0.00
4,500.00	8.36	128.42	4,457.25	-369.74	466.18	595.01	0.00	0.00	0.00
4,600.00	8.36	128.42	4,556.18	-378.78	477.57	609.55	0.00	0.00	0.00
4,700.00	8.36	128.42	4,655.12	-387.82	488.97	624.09	0.00	0.00	0.00
4,800.00	8.36	128.42	4,754.06	-396.85	500.36	638.63	0.00	0.00	0.00
4,900.00	8.36	128.42	4,852.99	-405.89	511.76	653.18	0.00	0.00	0.00

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well 697-26A-25 - Slot C
Company:	Marathon Oil Co.	TVD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Project:	Garfield County, CO NAD 83	MD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Site:	697-26A Pad	North Reference:	True
Well:	697-26A-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
5,000.00	8.36	128.42	4,951.93	-414.93	523.15	667.72	0.00	0.00	0.00
5,100.00	8.36	128.42	5,050.87	-423.96	534.55	682.26	0.00	0.00	0.00
5,200.00	8.36	128.42	5,149.80	-433.00	545.94	696.81	0.00	0.00	0.00
5,300.00	8.36	128.42	5,248.74	-442.04	557.33	711.35	0.00	0.00	0.00
5,400.00	8.36	128.42	5,347.68	-451.08	568.73	725.89	0.00	0.00	0.00
5,500.00	8.36	128.42	5,446.61	-460.11	580.12	740.44	0.00	0.00	0.00
5,600.00	8.36	128.42	5,545.55	-469.15	591.52	754.98	0.00	0.00	0.00
5,700.00	8.36	128.42	5,644.49	-478.19	602.91	769.52	0.00	0.00	0.00
5,800.00	8.36	128.42	5,743.43	-487.22	614.31	784.07	0.00	0.00	0.00
5,900.00	8.36	128.42	5,842.36	-496.26	625.70	798.61	0.00	0.00	0.00
6,000.00	8.36	128.42	5,941.30	-505.30	637.09	813.15	0.00	0.00	0.00
6,059.33	8.36	128.42	6,000.00	-510.66	643.86	821.78	0.00	0.00	0.00
Mesaverde									
6,100.00	8.36	128.42	6,040.24	-514.34	648.49	827.70	0.00	0.00	0.00
6,200.00	8.36	128.42	6,139.17	-523.37	659.88	842.24	0.00	0.00	0.00
6,300.00	8.36	128.42	6,238.11	-532.41	671.28	856.78	0.00	0.00	0.00
6,400.00	8.36	128.42	6,337.05	-541.45	682.67	871.32	0.00	0.00	0.00
6,500.00	8.36	128.42	6,435.98	-550.49	694.07	885.87	0.00	0.00	0.00
6,600.00	8.36	128.42	6,534.92	-559.52	705.46	900.41	0.00	0.00	0.00
6,648.97	8.36	128.42	6,583.37	-563.95	711.04	907.53	0.00	0.00	0.00
Start Drop -2.00									
6,700.00	7.34	128.42	6,633.92	-568.28	716.50	914.50	2.00	-2.00	0.00
6,800.00	5.34	128.42	6,733.30	-575.14	725.16	925.55	2.00	-2.00	0.00
6,900.00	3.34	128.42	6,833.01	-579.85	731.09	933.12	2.00	-2.00	0.00
7,000.00	1.34	128.42	6,932.92	-582.39	734.29	937.20	2.00	-2.00	0.00
7,067.08	0.00	0.00	7,000.00	-582.87	734.90	937.99	2.00	-2.00	0.00
Start 0.00° Hold At 7067.08' MD									
7,100.00	0.00	0.00	7,032.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,200.00	0.00	0.00	7,132.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,300.00	0.00	0.00	7,232.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,400.00	0.00	0.00	7,332.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,500.00	0.00	0.00	7,432.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,600.00	0.00	0.00	7,532.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,700.00	0.00	0.00	7,632.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,800.00	0.00	0.00	7,732.92	-582.87	734.90	937.99	0.00	0.00	0.00
7,900.00	0.00	0.00	7,832.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,000.00	0.00	0.00	7,932.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,100.00	0.00	0.00	8,032.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,200.00	0.00	0.00	8,132.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,300.00	0.00	0.00	8,232.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,400.00	0.00	0.00	8,332.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,500.00	0.00	0.00	8,432.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,600.00	0.00	0.00	8,532.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,700.00	0.00	0.00	8,632.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,800.00	0.00	0.00	8,732.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,900.00	0.00	0.00	8,832.92	-582.87	734.90	937.99	0.00	0.00	0.00
8,985.08	0.00	0.00	8,918.00	-582.87	734.90	937.99	0.00	0.00	0.00
Rollins									
9,000.00	0.00	0.00	8,932.92	-582.87	734.90	937.99	0.00	0.00	0.00
9,100.00	0.00	0.00	9,032.92	-582.87	734.90	937.99	0.00	0.00	0.00
9,161.08	0.00	0.00	9,094.00	-582.87	734.90	937.99	0.00	0.00	0.00
PBHL = 1617136.63, 2243713.17 - 697-26A-25 PBHL									

Database:	EDM 2003.16 Multi-User Db	Local Co-ordinate Reference:	Well 697-26A-25 - Slot C
Company:	Marathon Oil Co.	TVD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Project:	Garfield County, CO NAD 83	MD Reference:	GL 8400' & RKB 24' @ 8424.00ft (H&P 324)
Site:	697-26A Pad	North Reference:	True
Well:	697-26A-25	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
697-26A-25 PBHL - hit/miss target - Shape - plan hits target center - Rectangle (sides W100.00 H200.00 D0.00)	0.00	0.00	9,094.00	-582.87	734.90	1,617,136.63	2,243,713.17	39° 29' 49.869 N	108° 10' 49.429 W

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,059.33	6,000.00	Mesaverde		0.00		
8,985.08	8,918.00	Rollins		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
200.00	200.00	0.00	0.00	Start Build 2.00	
618.11	616.63	-18.93	23.86	Start 8.36° Hold At 618.11' MD	
6,648.97	6,583.37	-563.95	711.04	Start Drop -2.00	
7,067.08	7,000.00	-582.87	734.90	Start 0.00° Hold At 7067.08' MD	
9,161.08	9,094.00	-582.87	734.90	PBHL = 1617136.63, 2243713.17	