

EOG Resources, Inc.

DJ-Hereford Ranch

Eastman Creek 11-15H

Eastman Creek 11-15H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

15 November, 2010

Halliburton Company

Planning Report

Database:	EOG Database	Local Co-ordinate Reference:	Well Eastman Creek 11-15H
Company:	EOG Resources, Inc.	TVD Reference:	Rig @ 5689.00ft (TBD)
Project:	DJ-Hereford Ranch	MD Reference:	Rig @ 5689.00ft (TBD)
Site:	Eastman Creek 11-15H	North Reference:	True
Well:	Eastman Creek 11-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Project	DJ-Hereford Ranch		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Colorado North 501		

Site		Eastman Creek 11-15H, Section 15 T11N R66W			
Site Position:		Northing:	577,093.45 usft	Latitude:	40° 54' 54.695 N
From:	Map	Easting:	2,203,735.62 usft	Longitude:	104° 45' 46.405 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.48 °

Well	Eastman Creek 11-15H					
Well Position	+N/-S	0.00 ft	Northing:	577,093.45 usft	Latitude:	40° 54' 54.695 N
	+E/-W	0.00 ft	Easting:	2,203,735.62 usft	Longitude:	104° 45' 46.405 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	5,667.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/15/2010	8.95	67.49	53,475

Design	APD Directional Plan			
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	337.19

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	
8,082.53	0.00	0.00	8,082.53	0.00	0.00	0.00	0.00	0.00	0.00	
8,832.54	90.00	337.19	8,560.00	440.14	-185.06	12.00	12.00	0.00	337.19	
12,910.28	90.00	337.19	8,560.00	4,199.12	-1,765.59	0.00	0.00	0.00	0.00	Eastman 11-15H(BHL)

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Well:	Eastman Creek 11-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

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
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
1,970.00	0.00	0.00	1,970.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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
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
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

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Planned Survey									
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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
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,082.53	0.00	0.00	8,082.53	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	2.10	337.19	8,100.00	0.29	-0.12	0.32	12.00	12.00	0.00
8,200.00	14.10	337.19	8,198.82	13.25	-5.57	14.38	12.00	12.00	0.00
8,300.00	26.10	337.19	8,292.56	44.87	-18.87	48.67	12.00	12.00	0.00
8,400.00	38.10	337.19	8,377.12	93.76	-39.42	101.71	12.00	12.00	0.00
8,500.00	50.10	337.19	8,448.81	157.79	-66.34	171.17	12.00	12.00	0.00
8,600.00	62.10	337.19	8,504.49	234.16	-98.46	254.01	12.00	12.00	0.00
8,700.00	74.10	337.19	8,541.72	319.53	-134.35	346.63	12.00	12.00	0.00
8,800.00	86.10	337.19	8,558.89	410.17	-172.46	444.96	12.00	12.00	0.00
8,832.54	90.00	337.19	8,560.00	440.14	-185.06	477.47	12.00	12.00	0.00
7"									
8,900.00	90.00	337.19	8,560.00	502.33	-211.21	544.93	0.00	0.00	0.00
9,000.00	90.00	337.19	8,560.00	594.51	-249.97	644.93	0.00	0.00	0.00
9,100.00	90.00	337.19	8,560.00	686.70	-288.73	744.93	0.00	0.00	0.00
9,200.00	90.00	337.19	8,560.00	778.88	-327.49	844.93	0.00	0.00	0.00
9,300.00	90.00	337.19	8,560.00	871.06	-366.25	944.93	0.00	0.00	0.00
9,400.00	90.00	337.19	8,560.00	963.25	-405.01	1,044.93	0.00	0.00	0.00
9,500.00	90.00	337.19	8,560.00	1,055.43	-443.77	1,144.93	0.00	0.00	0.00
9,600.00	90.00	337.19	8,560.00	1,147.61	-482.53	1,244.93	0.00	0.00	0.00
9,700.00	90.00	337.19	8,560.00	1,239.79	-521.29	1,344.93	0.00	0.00	0.00
9,800.00	90.00	337.19	8,560.00	1,331.98	-560.05	1,444.93	0.00	0.00	0.00
9,900.00	90.00	337.19	8,560.00	1,424.16	-598.81	1,544.93	0.00	0.00	0.00
10,000.00	90.00	337.19	8,560.00	1,516.34	-637.57	1,644.93	0.00	0.00	0.00
10,100.00	90.00	337.19	8,560.00	1,608.53	-676.33	1,744.93	0.00	0.00	0.00

Halliburton Company

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Project:	DJ-Hereford Ranch	MD Reference:	Rig @ 5689.00ft (TBD)
Site:	Eastman Creek 11-15H	North Reference:	True
Well:	Eastman Creek 11-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

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)	
10,200.00	90.00	337.19	8,560.00	1,700.71	-715.09	1,844.93	0.00	0.00	0.00	
10,300.00	90.00	337.19	8,560.00	1,792.89	-753.85	1,944.93	0.00	0.00	0.00	
10,400.00	90.00	337.19	8,560.00	1,885.07	-792.61	2,044.93	0.00	0.00	0.00	
10,500.00	90.00	337.19	8,560.00	1,977.26	-831.37	2,144.93	0.00	0.00	0.00	
10,600.00	90.00	337.19	8,560.00	2,069.44	-870.13	2,244.93	0.00	0.00	0.00	
10,700.00	90.00	337.19	8,560.00	2,161.62	-908.89	2,344.93	0.00	0.00	0.00	
10,800.00	90.00	337.19	8,560.00	2,253.81	-947.65	2,444.93	0.00	0.00	0.00	
10,900.00	90.00	337.19	8,560.00	2,345.99	-986.41	2,544.93	0.00	0.00	0.00	
11,000.00	90.00	337.19	8,560.00	2,438.17	-1,025.17	2,644.93	0.00	0.00	0.00	
11,100.00	90.00	337.19	8,560.00	2,530.35	-1,063.93	2,744.93	0.00	0.00	0.00	
11,200.00	90.00	337.19	8,560.00	2,622.54	-1,102.69	2,844.93	0.00	0.00	0.00	
11,300.00	90.00	337.19	8,560.00	2,714.72	-1,141.45	2,944.93	0.00	0.00	0.00	
11,400.00	90.00	337.19	8,560.00	2,806.90	-1,180.21	3,044.93	0.00	0.00	0.00	
11,500.00	90.00	337.19	8,560.00	2,899.09	-1,218.97	3,144.93	0.00	0.00	0.00	
11,600.00	90.00	337.19	8,560.00	2,991.27	-1,257.73	3,244.93	0.00	0.00	0.00	
11,700.00	90.00	337.19	8,560.00	3,083.45	-1,296.49	3,344.93	0.00	0.00	0.00	
11,800.00	90.00	337.19	8,560.00	3,175.63	-1,335.25	3,444.93	0.00	0.00	0.00	
11,900.00	90.00	337.19	8,560.00	3,267.82	-1,374.01	3,544.93	0.00	0.00	0.00	
12,000.00	90.00	337.19	8,560.00	3,360.00	-1,412.77	3,644.93	0.00	0.00	0.00	
12,100.00	90.00	337.19	8,560.00	3,452.18	-1,451.53	3,744.93	0.00	0.00	0.00	
12,200.00	90.00	337.19	8,560.00	3,544.37	-1,490.29	3,844.93	0.00	0.00	0.00	
12,300.00	90.00	337.19	8,560.00	3,636.55	-1,529.05	3,944.93	0.00	0.00	0.00	
12,400.00	90.00	337.19	8,560.00	3,728.73	-1,567.81	4,044.93	0.00	0.00	0.00	
12,500.00	90.00	337.19	8,560.00	3,820.91	-1,606.57	4,144.93	0.00	0.00	0.00	
12,600.00	90.00	337.19	8,560.00	3,913.10	-1,645.33	4,244.93	0.00	0.00	0.00	
12,700.00	90.00	337.19	8,560.00	4,005.28	-1,684.09	4,344.93	0.00	0.00	0.00	
12,800.00	90.00	337.19	8,560.00	4,097.46	-1,722.85	4,444.93	0.00	0.00	0.00	
12,900.00	90.00	337.19	8,560.00	4,189.65	-1,761.61	4,544.93	0.00	0.00	0.00	
12,910.28	90.00	337.19	8,560.00	4,199.12	-1,765.59	4,555.21	0.00	0.00	0.00	
Eastman 11-15H(BHL)										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Eastman 11-15H(BHL)	0.00	0.00	8,560.00	4,199.12	-1,765.59	581,277.74	2,201,935.19	40° 55' 36.185 N	104° 46' 9.405 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,970.00	1,970.00	9 5/8"	9.625	13.500	
8,832.54	8,560.00	7"	7.000	8.750	
12,910.28	8,560.00	4 1/2"	4.500	6.000	

Halliburton Company

Planning Report

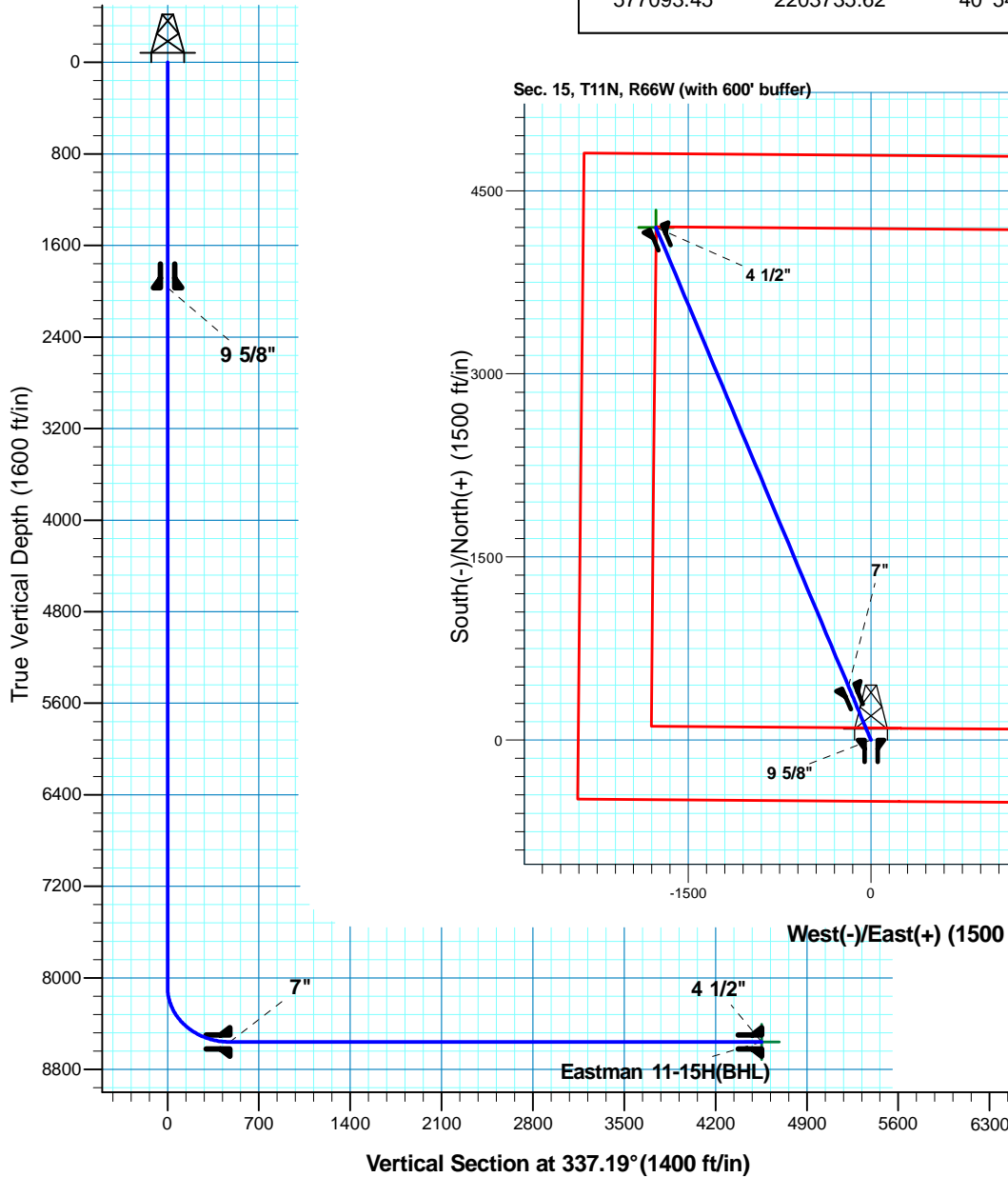
Database:	EOG Database	Local Co-ordinate Reference:	Well Eastman Creek 11-15H
Company:	EOG Resources, Inc.	TVD Reference:	Rig @ 5689.00ft (TBD)
Project:	DJ-Hereford Ranch	MD Reference:	Rig @ 5689.00ft (TBD)
Site:	Eastman Creek 11-15H	North Reference:	True
Well:	Eastman Creek 11-15H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.00	0.00	White River		0.00		
1,535.00	1,535.00	Fox Hills	Sandstone	0.00		
1,885.00	1,885.00	Pierre Shale	Shale	0.00		
4,835.00	4,835.00	Richard sand	Sandstone	0.00		
5,385.00	5,385.00	Hygiene	Sandstone	0.00		
8,471.67	8,430.00	Sharon Springs		0.00		
8,552.13	8,480.00	Niobrara	Shale	0.00		
8,570.72	8,490.00	B1 Chalk	Chalk	0.00		
8,712.54	8,545.00	B-Chalk	Chalk	0.00		
8,832.54	8,560.00	Target Zonne	Chalk	0.00		

Eastman Creek 11-15H Section 15 T11N R66W Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 5667.00 Rig @ 5689.00ft (TBD)
Northing Easting Latitude Longitude
577093.45 2203735.62 40°54' 54.695 N 104°45' 46.405 W



Project: DJ-Hereford Ranch
Site: Eastman Creek 11-15H
Well: Eastman Creek 11-15H
Plan: APD Directional Plan



Azimuths to True North
Magnetic North: 8.95°

Magnetic Field
Strength: 53474.7snT
Dip Angle: 67.49°
Date: 11/15/2010
Model: IGRF200510

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8082.53	0.00	0.00	8082.53	0.00	0.00	0.00	0.00	0.00	
3	8832.54	90.00	337.19	8560.00	440.14	-185.06	12.00	337.19	477.47	
4	12910.28	90.00	337.19	8560.00	4199.12	-1765.59	0.00	0.00	4555.21	Eastman 11-15H(BHL)
TARGET DETAILS										
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape		
Eastman 11-15H(BHL)	8560.00	4199.12	-1765.59	581277.74	2201935.19	40°55' 36.185 N	104°46' 9.405 W	Point		