



## **Denver Division- Colorado**

**DJ - Hereford Ranch**

**Critter Creek 01-02H**

**Critter Creek 1-2H**

**Original Wellbore**

**Plan: APD**

## **Standard Planning Report**

**22 January, 2010**

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site Critter Creek 01-02H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 5322.0ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 5322.0ft (TBD)
<b>Site:</b>	Critter Creek 01-02H	<b>North Reference:</b>	True
<b>Well:</b>	Critter Creek 1-2H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	APD		

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

Site		Critter Creek 01-02H			
Site Position:		Northing:	593,293.09 ft	Latitude:	40° 57' 24.412 N
From:	Lat/Long	Easting:	2,304,592.04 ft	Longitude:	104° 23' 50.269 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.71 °

Well	Critter Creek 1-2H					
Well Position	+N/-S	0.0 ft	Northing:	593,293.09 ft	Latitude:	40° 57' 24.412 N
	+E/-W	0.0 ft	Easting:	2,304,592.04 ft	Longitude:	104° 23' 50.269 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,297.0 ft

<b>Wellbore</b>	Original Wellbore				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	1/22/2010	8.86	67.62	53,622

<b>Design</b>	APD			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	161.18

<b>Plan Sections</b>										
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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,847.5	0.00	0.00	6,847.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,597.5	90.00	161.18	7,325.0	-451.9	154.0	12.00	12.00	0.00	161.18	
11,350.0	90.00	161.18	7,325.0	-4,003.8	1,364.5	0.00	0.00	0.00	0.00	Critter Creek 1-2H (BI)



# EOG Resources

## Planning Report

<b>Database:</b>	EDM 2003.21 Single User Db	<b>Local Co-ordinate Reference:</b>	Site Critter Creek 01-02H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 5322.0ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 5322.0ft (TBD)
<b>Site:</b>	Critter Creek 01-02H	<b>North Reference:</b>	True
<b>Well:</b>	Critter Creek 1-2H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	APD		

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

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<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	APD		

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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,847.5	0.00	0.00	6,847.5	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	6.30	161.18	6,899.9	-2.7	0.9	2.9	12.00	12.00	0.00
7,000.0	18.30	161.18	6,997.4	-22.8	7.8	24.1	12.00	12.00	0.00
7,100.0	30.30	161.18	7,088.4	-61.7	21.0	65.2	12.00	12.00	0.00
7,200.0	42.30	161.18	7,168.8	-117.6	40.1	124.3	12.00	12.00	0.00
7,300.0	54.30	161.18	7,235.3	-188.2	64.1	198.8	12.00	12.00	0.00
7,400.0	66.30	161.18	7,284.7	-270.3	92.1	285.5	12.00	12.00	0.00
7,500.0	78.30	161.18	7,315.1	-360.3	122.8	380.6	12.00	12.00	0.00
7,597.5	90.00	161.18	7,325.0	-451.9	154.0	477.4	12.00	12.00	0.00
7"									
7,600.0	90.00	161.18	7,325.0	-454.3	154.8	479.9	0.17	0.17	0.00
7,700.0	90.00	161.18	7,325.0	-548.9	187.1	579.9	0.00	0.00	0.00
7,800.0	90.00	161.18	7,325.0	-643.6	219.3	679.9	0.00	0.00	0.00
7,900.0	90.00	161.18	7,325.0	-738.2	251.6	779.9	0.00	0.00	0.00
8,000.0	90.00	161.18	7,325.0	-832.9	283.9	879.9	0.00	0.00	0.00
8,100.0	90.00	161.18	7,325.0	-927.5	316.1	979.9	0.00	0.00	0.00
8,200.0	90.00	161.18	7,325.0	-1,022.2	348.4	1,079.9	0.00	0.00	0.00
8,300.0	90.00	161.18	7,325.0	-1,116.9	380.6	1,179.9	0.00	0.00	0.00
8,400.0	90.00	161.18	7,325.0	-1,211.5	412.9	1,279.9	0.00	0.00	0.00
8,500.0	90.00	161.18	7,325.0	-1,306.2	445.1	1,379.9	0.00	0.00	0.00
8,600.0	90.00	161.18	7,325.0	-1,400.8	477.4	1,479.9	0.00	0.00	0.00
8,700.0	90.00	161.18	7,325.0	-1,495.5	509.7	1,579.9	0.00	0.00	0.00
8,800.0	90.00	161.18	7,325.0	-1,590.1	541.9	1,679.9	0.00	0.00	0.00
8,900.0	90.00	161.18	7,325.0	-1,684.8	574.2	1,779.9	0.00	0.00	0.00
9,000.0	90.00	161.18	7,325.0	-1,779.4	606.4	1,879.9	0.00	0.00	0.00
9,100.0	90.00	161.18	7,325.0	-1,874.1	638.7	1,979.9	0.00	0.00	0.00
9,200.0	90.00	161.18	7,325.0	-1,968.7	671.0	2,079.9	0.00	0.00	0.00
9,300.0	90.00	161.18	7,325.0	-2,063.4	703.2	2,179.9	0.00	0.00	0.00
9,400.0	90.00	161.18	7,325.0	-2,158.0	735.5	2,279.9	0.00	0.00	0.00
9,500.0	90.00	161.18	7,325.0	-2,252.7	767.7	2,379.9	0.00	0.00	0.00
9,600.0	90.00	161.18	7,325.0	-2,347.4	800.0	2,479.9	0.00	0.00	0.00
9,700.0	90.00	161.18	7,325.0	-2,442.0	832.2	2,579.9	0.00	0.00	0.00
9,800.0	90.00	161.18	7,325.0	-2,536.7	864.5	2,679.9	0.00	0.00	0.00
9,900.0	90.00	161.18	7,325.0	-2,631.3	896.8	2,779.9	0.00	0.00	0.00
10,000.0	90.00	161.18	7,325.0	-2,726.0	929.0	2,879.9	0.00	0.00	0.00
10,100.0	90.00	161.18	7,325.0	-2,820.6	961.3	2,979.9	0.00	0.00	0.00
10,200.0	90.00	161.18	7,325.0	-2,915.3	993.5	3,079.9	0.00	0.00	0.00



# EOG Resources

## Planning Report

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<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	APD		

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)
10,300.0	90.00	161.18	7,325.0	-3,009.9	1,025.8	3,179.9	0.00	0.00	0.00
10,400.0	90.00	161.18	7,325.0	-3,104.6	1,058.1	3,279.9	0.00	0.00	0.00
10,500.0	90.00	161.18	7,325.0	-3,199.2	1,090.3	3,379.9	0.00	0.00	0.00
10,600.0	90.00	161.18	7,325.0	-3,293.9	1,122.6	3,479.9	0.00	0.00	0.00
10,700.0	90.00	161.18	7,325.0	-3,388.5	1,154.8	3,579.9	0.00	0.00	0.00
10,800.0	90.00	161.18	7,325.0	-3,483.2	1,187.1	3,679.9	0.00	0.00	0.00
10,900.0	90.00	161.18	7,325.0	-3,577.9	1,219.4	3,779.9	0.00	0.00	0.00
11,000.0	90.00	161.18	7,325.0	-3,672.5	1,251.6	3,879.9	0.00	0.00	0.00
11,100.0	90.00	161.18	7,325.0	-3,767.2	1,283.9	3,979.9	0.00	0.00	0.00
11,200.0	90.00	161.18	7,325.0	-3,861.8	1,316.1	4,079.9	0.00	0.00	0.00
11,300.0	90.00	161.18	7,325.0	-3,956.5	1,348.4	4,179.9	0.00	0.00	0.00
11,350.0	90.00	161.18	7,325.0	-4,003.8	1,364.5	4,229.9	0.00	0.00	0.00
4 1/2" - Critter Creek 1-2H (BHL)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,400.0	1,400.0	9 5/8"	9-5/8	12-1/4	
7,597.5	7,325.0	7"	7	8-3/4	
11,350.0	7,325.0	4 1/2"	4-1/2	6-1/4	