

Denver Division- Colorado

DJ - Hereford Ranch

Horse Ditch 05-10H

Horse Ditch 05-10H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

03 March, 2011

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Horse Ditch 05-10H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4787.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4787.00ft (TBD)
Site:	Horse Ditch 05-10H	North Reference:	True
Well:	Horse Ditch 05-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Project	DJ - Hereford Ranch, Weld County		
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	Horse Ditch 05-10H		
Site Position:		Northing:	490,983.83 ft
From:	Lat/Long	Easting:	2,428,811.38 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 40' 15.269 N
		Longitude:	103° 57' 14.850 W
		Grid Convergence:	1.00 deg

Well	Horse Ditch 05-10H		
Well Position	+N/-S	0.00 ft	Northing: 490,983.83 ft
	+E/-W	0.00 ft	Easting: 2,428,811.38 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 40' 15.269 N
		Longitude:	103° 57' 14.850 W
		Ground Level:	4,765.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	3/3/2011	8.44	67.42	53,407

Design	APD Directional Plan			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (deg)
	0.00	0.00	0.00	333.25

Plan Sections										
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)	TFO (deg)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,464.53	0.00	0.00	5,464.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,214.54	90.00	333.25	5,942.00	426.37	-214.90	12.00	12.00	0.00	333.25	
10,386.05	90.00	333.25	5,942.00	4,151.49	-2,092.39	0.00	0.00	0.00	0.00	Horse Ditch 05-10H

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Well:	Horse Ditch 05-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Planned Survey

Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	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
9-5/8"									
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
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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Well:	Horse Ditch 05-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Planned Survey									
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (?/100ft)	Build Rate (?/100ft)	Turn Rate (?/100ft)
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
5,464.53	0.00	0.00	5,464.53	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	4.26	333.25	5,499.97	1.18	-0.59	1.32	12.00	12.00	0.00
5,600.00	16.26	333.25	5,598.19	17.05	-8.59	19.09	12.00	12.00	0.00
5,700.00	28.26	333.25	5,690.57	50.81	-25.61	56.89	12.00	12.00	0.00
5,800.00	40.26	333.25	5,773.07	100.98	-50.89	113.08	12.00	12.00	0.00
5,900.00	52.26	333.25	5,842.09	165.37	-83.35	185.19	12.00	12.00	0.00
6,000.00	64.26	333.25	5,894.61	241.18	-121.55	270.08	12.00	12.00	0.00
6,100.00	76.26	333.25	5,928.33	325.07	-163.84	364.03	12.00	12.00	0.00
6,200.00	88.26	333.25	5,941.78	413.39	-208.35	462.93	12.00	12.00	0.00
6,214.54	90.00	333.25	5,942.00	426.38	-214.90	477.47	12.00	12.00	0.00
7"									
6,300.00	90.00	333.25	5,942.00	502.69	-253.36	562.93	0.00	0.00	0.00
6,400.00	90.00	333.25	5,942.00	591.99	-298.37	662.93	0.00	0.00	0.00
6,500.00	90.00	333.25	5,942.00	681.29	-343.38	762.93	0.00	0.00	0.00
6,600.00	90.00	333.25	5,942.00	770.59	-388.38	862.93	0.00	0.00	0.00
6,700.00	90.00	333.25	5,942.00	859.89	-433.39	962.93	0.00	0.00	0.00
6,800.00	90.00	333.25	5,942.00	949.19	-478.40	1,062.93	0.00	0.00	0.00
6,900.00	90.00	333.25	5,942.00	1,038.49	-523.41	1,162.93	0.00	0.00	0.00
7,000.00	90.00	333.25	5,942.00	1,127.78	-568.41	1,262.93	0.00	0.00	0.00
7,100.00	90.00	333.25	5,942.00	1,217.08	-613.42	1,362.93	0.00	0.00	0.00
7,200.00	90.00	333.25	5,942.00	1,306.38	-658.43	1,462.93	0.00	0.00	0.00
7,300.00	90.00	333.25	5,942.00	1,395.68	-703.44	1,562.93	0.00	0.00	0.00
7,400.00	90.00	333.25	5,942.00	1,484.98	-748.44	1,662.93	0.00	0.00	0.00
7,500.00	90.00	333.25	5,942.00	1,574.28	-793.45	1,762.93	0.00	0.00	0.00
7,600.00	90.00	333.25	5,942.00	1,663.58	-838.46	1,862.93	0.00	0.00	0.00
7,700.00	90.00	333.25	5,942.00	1,752.88	-883.47	1,962.93	0.00	0.00	0.00
7,800.00	90.00	333.25	5,942.00	1,842.18	-928.48	2,062.93	0.00	0.00	0.00
7,900.00	90.00	333.25	5,942.00	1,931.48	-973.48	2,162.93	0.00	0.00	0.00
8,000.00	90.00	333.25	5,942.00	2,020.77	-1,018.49	2,262.93	0.00	0.00	0.00
8,100.00	90.00	333.25	5,942.00	2,110.07	-1,063.50	2,362.93	0.00	0.00	0.00
8,200.00	90.00	333.25	5,942.00	2,199.37	-1,108.51	2,462.93	0.00	0.00	0.00
8,300.00	90.00	333.25	5,942.00	2,288.67	-1,153.51	2,562.93	0.00	0.00	0.00
8,400.00	90.00	333.25	5,942.00	2,377.97	-1,198.52	2,662.93	0.00	0.00	0.00
8,500.00	90.00	333.25	5,942.00	2,467.27	-1,243.53	2,762.93	0.00	0.00	0.00
8,600.00	90.00	333.25	5,942.00	2,556.57	-1,288.54	2,862.93	0.00	0.00	0.00
8,700.00	90.00	333.25	5,942.00	2,645.87	-1,333.54	2,962.93	0.00	0.00	0.00
8,800.00	90.00	333.25	5,942.00	2,735.17	-1,378.55	3,062.93	0.00	0.00	0.00
8,900.00	90.00	333.25	5,942.00	2,824.47	-1,423.56	3,162.93	0.00	0.00	0.00
9,000.00	90.00	333.25	5,942.00	2,913.76	-1,468.57	3,262.93	0.00	0.00	0.00
9,100.00	90.00	333.25	5,942.00	3,003.06	-1,513.57	3,362.93	0.00	0.00	0.00
9,200.00	90.00	333.25	5,942.00	3,092.36	-1,558.58	3,462.93	0.00	0.00	0.00
9,300.00	90.00	333.25	5,942.00	3,181.66	-1,603.59	3,562.93	0.00	0.00	0.00
9,400.00	90.00	333.25	5,942.00	3,270.96	-1,648.60	3,662.93	0.00	0.00	0.00
9,500.00	90.00	333.25	5,942.00	3,360.26	-1,693.60	3,762.93	0.00	0.00	0.00
9,600.00	90.00	333.25	5,942.00	3,449.56	-1,738.61	3,862.93	0.00	0.00	0.00
9,700.00	90.00	333.25	5,942.00	3,538.86	-1,783.62	3,962.93	0.00	0.00	0.00
9,800.00	90.00	333.25	5,942.00	3,628.16	-1,828.63	4,062.93	0.00	0.00	0.00
9,900.00	90.00	333.25	5,942.00	3,717.46	-1,873.63	4,162.93	0.00	0.00	0.00
10,000.00	90.00	333.25	5,942.00	3,806.76	-1,918.64	4,262.93	0.00	0.00	0.00
10,100.00	90.00	333.25	5,942.00	3,896.05	-1,963.65	4,362.93	0.00	0.00	0.00

EOG Resources Inc

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Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4787.00ft (TBD)
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Well:	Horse Ditch 05-10H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Planned Survey									
Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	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	333.25	5,942.00	3,985.35	-2,008.66	4,462.93	0.00	0.00	0.00
10,300.00	90.00	333.25	5,942.00	4,074.65	-2,053.66	4,562.93	0.00	0.00	0.00
10,386.05	90.00	333.25	5,942.00	4,151.49	-2,092.39	4,648.98	0.00	0.00	0.00
Horse Ditch 05-10H (BHL)									

Targets									
Target Name	Dip Angle (deg)	Dip Dir. (deg)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Horse Ditch 05-10H (E	0.00	0.00	5,942.00	4,151.49	-2,092.39	495,098.21	2,426,646.94	40° 40' 56.291 N	103° 57' 42.008 W
- plan hits target center									
- Point									

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
800.00	800.00	9-5/8"	9-5/8	13-1/2		
6,214.54	5,942.00	7"	7	8-3/4		
10,386.05	5,942.00	4 1/2"	4-1/2	6		

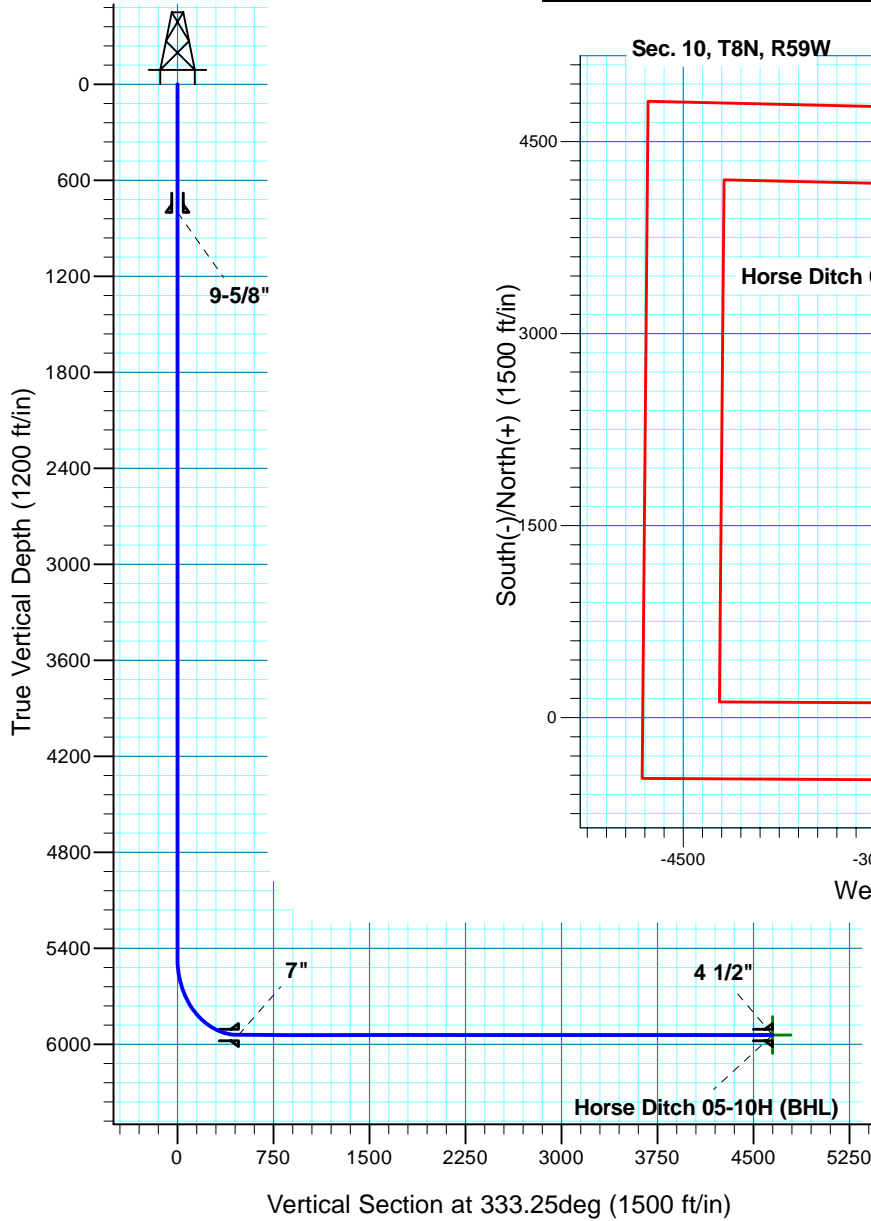
Horse Ditch 05-10H

Section 10 T8N R59W

Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 4765.00 RIG @ 4787.00ft (TBD)
Northing Easting Latitude Longitude
490983.83 2428811.38 40° 40' 15.269 N 103° 57' 14.850 W



T M
Azimuths to True North
Magnetic North: 8.44°
Magnetic Field
Strength: 53407.3nT
Dip Angle: 67.42°
Date: 3/3/2011
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Horse Ditch 05-10H
Well: Horse Ditch 05-10H
Plan: APD Directional Plan

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	5464.53	0.00	0.00	5464.53	0.00	0.00	0.00	0.00	0.00	
3	6214.54	90.00	333.25	5942.00	426.37	-214.90	12.00	333.25	477.47	
4	10386.05	90.00	333.25	5942.00	4151.49	-2092.39	0.00	0.00	4648.98	Horse Ditch 05-10H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Horse Ditch 05-10H (BHL)	5942.00	4151.49	-2092.39	495098.21	2426646.94	40° 40' 56.291 N	103° 57' 42.008 W	Point