

Denver Division- Colorado

DJ - Hereford Ranch

Fiscus Mesa 09-10H

Fiscus Mesa 09-10H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

13 December, 2010

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Fiscus Mesa 09-10H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4739.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4739.00ft (TBD)
Site:	Fiscus Mesa 09-10H	North Reference:	True
Well:	Fiscus Mesa 09-10H	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	Fiscus Mesa 09-10H		
Site Position:		Northing:	528,217.91 ft
From:	Lat/Long	Easting:	2,454,883.64 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 46' 18.502 N
		Longitude:	103° 51' 27.608 W
		Grid Convergence:	1.06 deg

Well	Fiscus Mesa 09-10H		
Well Position	+N/-S	0.00 ft	Northing: 528,217.91 ft
	+E/-W	0.00 ft	Easting: 2,454,883.64 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 46' 18.502 N
		Longitude:	103° 51' 27.608 W
		Ground Level:	4,717.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	12/13/2010	8.42	67.52	53,492

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	152.74

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	
5,197.53	0.00	0.00	5,197.53	0.00	0.00	0.00	0.00	0.00	0.00	
5,947.54	90.00	152.74	5,675.00	-424.42	218.72	12.00	12.00	0.00	152.74	
10,178.85	90.00	152.74	5,675.00	-4,185.67	2,157.02	0.00	0.00	0.00	0.00	Fiscus Mesa 09-10I

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Well:	Fiscus Mesa 09-10H	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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Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4739.00ft (TBD)
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Well:	Fiscus Mesa 09-10H	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)
5,197.53	0.00	0.00	5,197.53	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.30	152.74	5,200.00	-0.01	0.00	0.01	12.00	12.00	0.00
5,300.00	12.30	152.74	5,299.22	-9.74	5.02	10.95	12.00	12.00	0.00
5,400.00	24.30	152.74	5,393.99	-37.59	19.37	42.29	12.00	12.00	0.00
5,500.00	36.30	152.74	5,480.17	-82.35	42.44	92.64	12.00	12.00	0.00
5,600.00	48.30	152.74	5,554.01	-142.06	73.21	159.81	12.00	12.00	0.00
5,700.00	60.30	152.74	5,612.26	-214.11	110.34	240.87	12.00	12.00	0.00
5,800.00	72.30	152.74	5,652.39	-295.35	152.21	332.27	12.00	12.00	0.00
5,900.00	84.30	152.74	5,672.64	-382.24	196.98	430.01	12.00	12.00	0.00
5,947.54	90.00	152.74	5,675.00	-424.43	218.72	477.47	12.00	12.00	0.00
7"									
6,000.00	90.00	152.74	5,675.00	-471.06	242.75	529.93	0.00	0.00	0.00
6,100.00	90.00	152.74	5,675.00	-559.95	288.56	629.93	0.00	0.00	0.00
6,200.00	90.00	152.74	5,675.00	-648.84	334.37	729.93	0.00	0.00	0.00
6,300.00	90.00	152.74	5,675.00	-737.73	380.18	829.93	0.00	0.00	0.00
6,400.00	90.00	152.74	5,675.00	-826.62	425.99	929.93	0.00	0.00	0.00
6,500.00	90.00	152.74	5,675.00	-915.51	471.79	1,029.93	0.00	0.00	0.00
6,600.00	90.00	152.74	5,675.00	-1,004.40	517.60	1,129.93	0.00	0.00	0.00
6,700.00	90.00	152.74	5,675.00	-1,093.30	563.41	1,229.93	0.00	0.00	0.00
6,800.00	90.00	152.74	5,675.00	-1,182.19	609.22	1,329.93	0.00	0.00	0.00
6,900.00	90.00	152.74	5,675.00	-1,271.08	655.03	1,429.93	0.00	0.00	0.00
7,000.00	90.00	152.74	5,675.00	-1,359.97	700.84	1,529.93	0.00	0.00	0.00
7,100.00	90.00	152.74	5,675.00	-1,448.86	746.65	1,629.93	0.00	0.00	0.00
7,200.00	90.00	152.74	5,675.00	-1,537.75	792.45	1,729.93	0.00	0.00	0.00
7,300.00	90.00	152.74	5,675.00	-1,626.64	838.26	1,829.93	0.00	0.00	0.00
7,400.00	90.00	152.74	5,675.00	-1,715.53	884.07	1,929.93	0.00	0.00	0.00
7,500.00	90.00	152.74	5,675.00	-1,804.42	929.88	2,029.93	0.00	0.00	0.00
7,600.00	90.00	152.74	5,675.00	-1,893.31	975.69	2,129.93	0.00	0.00	0.00
7,700.00	90.00	152.74	5,675.00	-1,982.20	1,021.50	2,229.93	0.00	0.00	0.00
7,800.00	90.00	152.74	5,675.00	-2,071.10	1,067.30	2,329.93	0.00	0.00	0.00
7,900.00	90.00	152.74	5,675.00	-2,159.99	1,113.11	2,429.93	0.00	0.00	0.00
8,000.00	90.00	152.74	5,675.00	-2,248.88	1,158.92	2,529.93	0.00	0.00	0.00
8,100.00	90.00	152.74	5,675.00	-2,337.77	1,204.73	2,629.93	0.00	0.00	0.00
8,200.00	90.00	152.74	5,675.00	-2,426.66	1,250.54	2,729.93	0.00	0.00	0.00
8,300.00	90.00	152.74	5,675.00	-2,515.55	1,296.35	2,829.93	0.00	0.00	0.00
8,400.00	90.00	152.74	5,675.00	-2,604.44	1,342.16	2,929.93	0.00	0.00	0.00
8,500.00	90.00	152.74	5,675.00	-2,693.33	1,387.96	3,029.93	0.00	0.00	0.00
8,600.00	90.00	152.74	5,675.00	-2,782.22	1,433.77	3,129.93	0.00	0.00	0.00
8,700.00	90.00	152.74	5,675.00	-2,871.11	1,479.58	3,229.93	0.00	0.00	0.00
8,800.00	90.00	152.74	5,675.00	-2,960.00	1,525.39	3,329.93	0.00	0.00	0.00
8,900.00	90.00	152.74	5,675.00	-3,048.89	1,571.20	3,429.93	0.00	0.00	0.00
9,000.00	90.00	152.74	5,675.00	-3,137.79	1,617.01	3,529.93	0.00	0.00	0.00
9,100.00	90.00	152.74	5,675.00	-3,226.68	1,662.81	3,629.93	0.00	0.00	0.00
9,200.00	90.00	152.74	5,675.00	-3,315.57	1,708.62	3,729.93	0.00	0.00	0.00
9,300.00	90.00	152.74	5,675.00	-3,404.46	1,754.43	3,829.93	0.00	0.00	0.00
9,400.00	90.00	152.74	5,675.00	-3,493.35	1,800.24	3,929.93	0.00	0.00	0.00
9,500.00	90.00	152.74	5,675.00	-3,582.24	1,846.05	4,029.93	0.00	0.00	0.00
9,600.00	90.00	152.74	5,675.00	-3,671.13	1,891.86	4,129.93	0.00	0.00	0.00
9,700.00	90.00	152.74	5,675.00	-3,760.02	1,937.67	4,229.93	0.00	0.00	0.00
9,800.00	90.00	152.74	5,675.00	-3,848.91	1,983.47	4,329.93	0.00	0.00	0.00
9,900.00	90.00	152.74	5,675.00	-3,937.80	2,029.28	4,429.93	0.00	0.00	0.00
10,000.00	90.00	152.74	5,675.00	-4,026.69	2,075.09	4,529.93	0.00	0.00	0.00
10,100.00	90.00	152.74	5,675.00	-4,115.59	2,120.90	4,629.93	0.00	0.00	0.00

EOG Resources Inc

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Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4739.00ft (TBD)
Site:	Fiscus Mesa 09-10H	North Reference:	True
Well:	Fiscus Mesa 09-10H	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)
10,178.85	90.00	152.74	5,675.00	-4,185.67	2,157.02	4,708.78	0.00	0.00	0.00
Fiscus Mesa 09-10H (BHL)									

Targets

Target Name

- hit/miss target	Dip Angle (deg)	Dip Dir. (deg)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
Fiscus Mesa 09-10H (0.00	0.00	5,675.00	-4,185.67	2,157.02	524,072.91	2,457,117.80	40° 45' 37.141 N	103° 50' 59.579 W
- plan hits target center									
- Point									

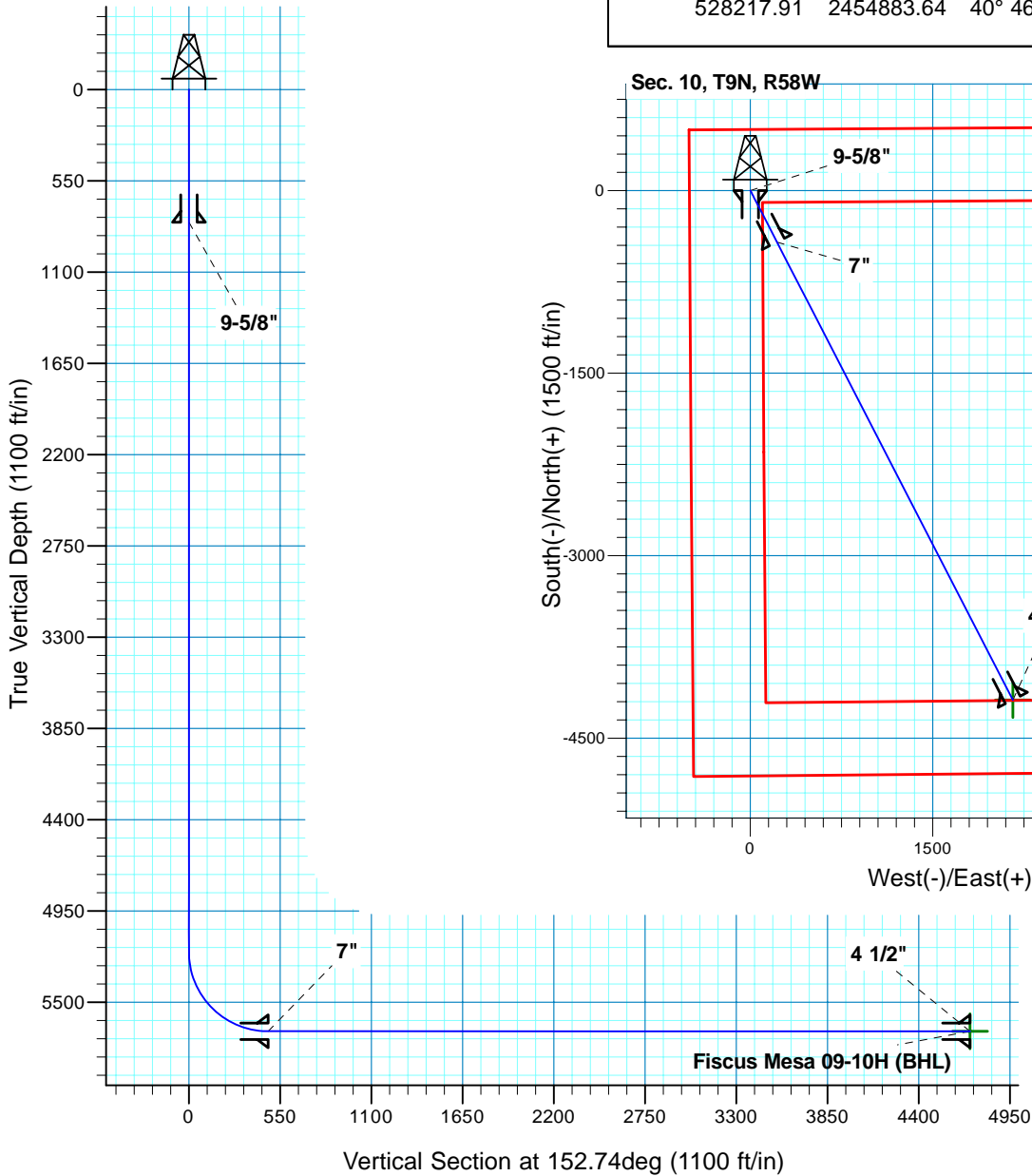
Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
800.00	800.00	9-5/8"	9-5/8	13-1/2
5,947.54	5,675.00	7"	7	8-3/4
10,178.85	5,675.00	4 1/2"	4-1/2	6

Fiscus Mesa 09-10H
Section 10 T9N R58W
Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 4717.00 RIG @ 4739.00ft (TBD)
Northing Easting Latitude Longitude
528217.91 2454883.64 40° 46' 18.502 N 103° 51' 27.608 W



T M
Azimuths to True North
Magnetic North: 8.42°
Magnetic Field
Strength: 53492.2snT
Dip Angle: 67.52°
Date: 12/13/2010
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Fiscus Mesa 09-10H
Well: Fiscus Mesa 09-10H
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	5197.53	0.00	0.00	5197.53	0.00	0.00	0.00	0.00	0.00	
3	5947.54	90.00	152.74	5675.00	-424.42	218.72	12.00	152.74	477.47	
4	10178.85	90.00	152.74	5675.00	-4185.67	2157.02	0.00	0.00	4708.78	Fiscus Mesa 09-10H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Fiscus Mesa 09-10H (BHL)	5675.00	-4185.67	2157.02	524072.91	2457117.80	40° 45' 37.141 N	103° 50' 59.579 W	Point