

Denver Division- Colorado

DJ - Hereford Ranch

Fiscus Mesa 15-17H

Fiscus Mesa 15-17H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

12 January, 2011

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Fiscus Mesa 15-17H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4890.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4890.00ft (TBD)
Site:	Fiscus Mesa 15-17H	North Reference:	True
Well:	Fiscus Mesa 15-17H	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 15-17H		
Site Position:		Northing:	518,400.93 ft
From:	Lat/Long	Easting:	2,446,522.98 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 44' 43.030 N
		Longitude:	103° 53' 18.571 W
		Grid Convergence:	1.04 deg

Well	Fiscus Mesa 15-17H		
Well Position	+N/-S	0.00 ft	Northing: 518,400.93 ft
	+E/-W	0.00 ft	Easting: 2,446,522.98 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 44' 43.030 N
		Longitude:	103° 53' 18.571 W
		Ground Level:	4,868.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	1/12/2011	8.42	67.49	53,466

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	336.41

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	
5,427.53	0.00	0.00	5,427.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,177.54	90.00	336.41	5,905.00	437.56	-191.10	12.00	12.00	0.00	336.41	
10,276.42	90.00	336.41	5,905.00	4,193.83	-1,831.59	0.00	0.00	0.00	0.00	Fiscus Mesa 15-17I

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Fiscus Mesa 15-17H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4890.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4890.00ft (TBD)
Site:	Fiscus Mesa 15-17H	North Reference:	True
Well:	Fiscus Mesa 15-17H	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

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Fiscus Mesa 15-17H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4890.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4890.00ft (TBD)
Site:	Fiscus Mesa 15-17H	North Reference:	True
Well:	Fiscus Mesa 15-17H	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
5,427.53	0.00	0.00	5,427.53	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	8.70	336.41	5,499.72	5.03	-2.20	5.49	12.00	12.00	0.00
5,600.00	20.70	336.41	5,596.27	28.24	-12.33	30.81	12.00	12.00	0.00
5,700.00	32.70	336.41	5,685.45	69.33	-30.28	75.65	12.00	12.00	0.00
5,800.00	44.70	336.41	5,763.36	126.52	-55.26	138.06	12.00	12.00	0.00
5,900.00	56.70	336.41	5,826.58	197.30	-86.17	215.30	12.00	12.00	0.00
6,000.00	68.70	336.41	5,872.37	278.58	-121.67	303.99	12.00	12.00	0.00
6,100.00	80.70	336.41	5,898.72	366.81	-160.20	400.27	12.00	12.00	0.00
6,177.54	90.00	336.41	5,905.00	437.56	-191.10	477.47	12.00	12.00	0.00
7"									
6,200.00	90.00	336.41	5,905.00	458.14	-200.09	499.93	0.00	0.00	0.00
6,300.00	90.00	336.41	5,905.00	549.78	-240.11	599.93	0.00	0.00	0.00
6,400.00	90.00	336.41	5,905.00	641.43	-280.13	699.93	0.00	0.00	0.00
6,500.00	90.00	336.41	5,905.00	733.07	-320.16	799.93	0.00	0.00	0.00
6,600.00	90.00	336.41	5,905.00	824.71	-360.18	899.93	0.00	0.00	0.00
6,700.00	90.00	336.41	5,905.00	916.35	-400.20	999.93	0.00	0.00	0.00
6,800.00	90.00	336.41	5,905.00	1,007.99	-440.23	1,099.93	0.00	0.00	0.00
6,900.00	90.00	336.41	5,905.00	1,099.63	-480.25	1,199.93	0.00	0.00	0.00
7,000.00	90.00	336.41	5,905.00	1,191.27	-520.27	1,299.93	0.00	0.00	0.00
7,100.00	90.00	336.41	5,905.00	1,282.92	-560.29	1,399.93	0.00	0.00	0.00
7,200.00	90.00	336.41	5,905.00	1,374.56	-600.32	1,499.93	0.00	0.00	0.00
7,300.00	90.00	336.41	5,905.00	1,466.20	-640.34	1,599.93	0.00	0.00	0.00
7,400.00	90.00	336.41	5,905.00	1,557.84	-680.36	1,699.93	0.00	0.00	0.00
7,500.00	90.00	336.41	5,905.00	1,649.48	-720.39	1,799.93	0.00	0.00	0.00
7,600.00	90.00	336.41	5,905.00	1,741.12	-760.41	1,899.93	0.00	0.00	0.00
7,700.00	90.00	336.41	5,905.00	1,832.76	-800.43	1,999.93	0.00	0.00	0.00
7,800.00	90.00	336.41	5,905.00	1,924.41	-840.46	2,099.93	0.00	0.00	0.00
7,900.00	90.00	336.41	5,905.00	2,016.05	-880.48	2,199.93	0.00	0.00	0.00
8,000.00	90.00	336.41	5,905.00	2,107.69	-920.50	2,299.93	0.00	0.00	0.00
8,100.00	90.00	336.41	5,905.00	2,199.33	-960.53	2,399.93	0.00	0.00	0.00
8,200.00	90.00	336.41	5,905.00	2,290.97	-1,000.55	2,499.93	0.00	0.00	0.00
8,300.00	90.00	336.41	5,905.00	2,382.61	-1,040.57	2,599.93	0.00	0.00	0.00
8,400.00	90.00	336.41	5,905.00	2,474.26	-1,080.59	2,699.93	0.00	0.00	0.00
8,500.00	90.00	336.41	5,905.00	2,565.90	-1,120.62	2,799.93	0.00	0.00	0.00
8,600.00	90.00	336.41	5,905.00	2,657.54	-1,160.64	2,899.93	0.00	0.00	0.00
8,700.00	90.00	336.41	5,905.00	2,749.18	-1,200.66	2,999.93	0.00	0.00	0.00
8,800.00	90.00	336.41	5,905.00	2,840.82	-1,240.69	3,099.93	0.00	0.00	0.00
8,900.00	90.00	336.41	5,905.00	2,932.46	-1,280.71	3,199.93	0.00	0.00	0.00
9,000.00	90.00	336.41	5,905.00	3,024.10	-1,320.73	3,299.93	0.00	0.00	0.00
9,100.00	90.00	336.41	5,905.00	3,115.75	-1,360.76	3,399.93	0.00	0.00	0.00
9,200.00	90.00	336.41	5,905.00	3,207.39	-1,400.78	3,499.93	0.00	0.00	0.00
9,300.00	90.00	336.41	5,905.00	3,299.03	-1,440.80	3,599.93	0.00	0.00	0.00
9,400.00	90.00	336.41	5,905.00	3,390.67	-1,480.82	3,699.93	0.00	0.00	0.00
9,500.00	90.00	336.41	5,905.00	3,482.31	-1,520.85	3,799.93	0.00	0.00	0.00
9,600.00	90.00	336.41	5,905.00	3,573.95	-1,560.87	3,899.93	0.00	0.00	0.00
9,700.00	90.00	336.41	5,905.00	3,665.59	-1,600.89	3,999.93	0.00	0.00	0.00
9,800.00	90.00	336.41	5,905.00	3,757.24	-1,640.92	4,099.93	0.00	0.00	0.00
9,900.00	90.00	336.41	5,905.00	3,848.88	-1,680.94	4,199.93	0.00	0.00	0.00
10,000.00	90.00	336.41	5,905.00	3,940.52	-1,720.96	4,299.93	0.00	0.00	0.00
10,100.00	90.00	336.41	5,905.00	4,032.16	-1,760.99	4,399.93	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Fiscus Mesa 15-17H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4890.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4890.00ft (TBD)
Site:	Fiscus Mesa 15-17H	North Reference:	True
Well:	Fiscus Mesa 15-17H	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	336.41	5,905.00	4,123.80	-1,801.01	4,499.93	0.00	0.00	0.00
10,276.42	90.00	336.41	5,905.00	4,193.83	-1,831.59	4,576.35	0.00	0.00	0.00
Fiscus Mesa 15-17H (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									
Fiscus Mesa 15-17H (0.00	0.00	5,905.00	4,193.83	-1,831.59	522,560.78	2,444,615.48	40° 45' 24.469 N	103° 53' 42.371 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
6,177.54	5,905.00	7"	7	8-3/4
10,276.42	5,905.00	4 1/2"	4-1/2	6-1/4

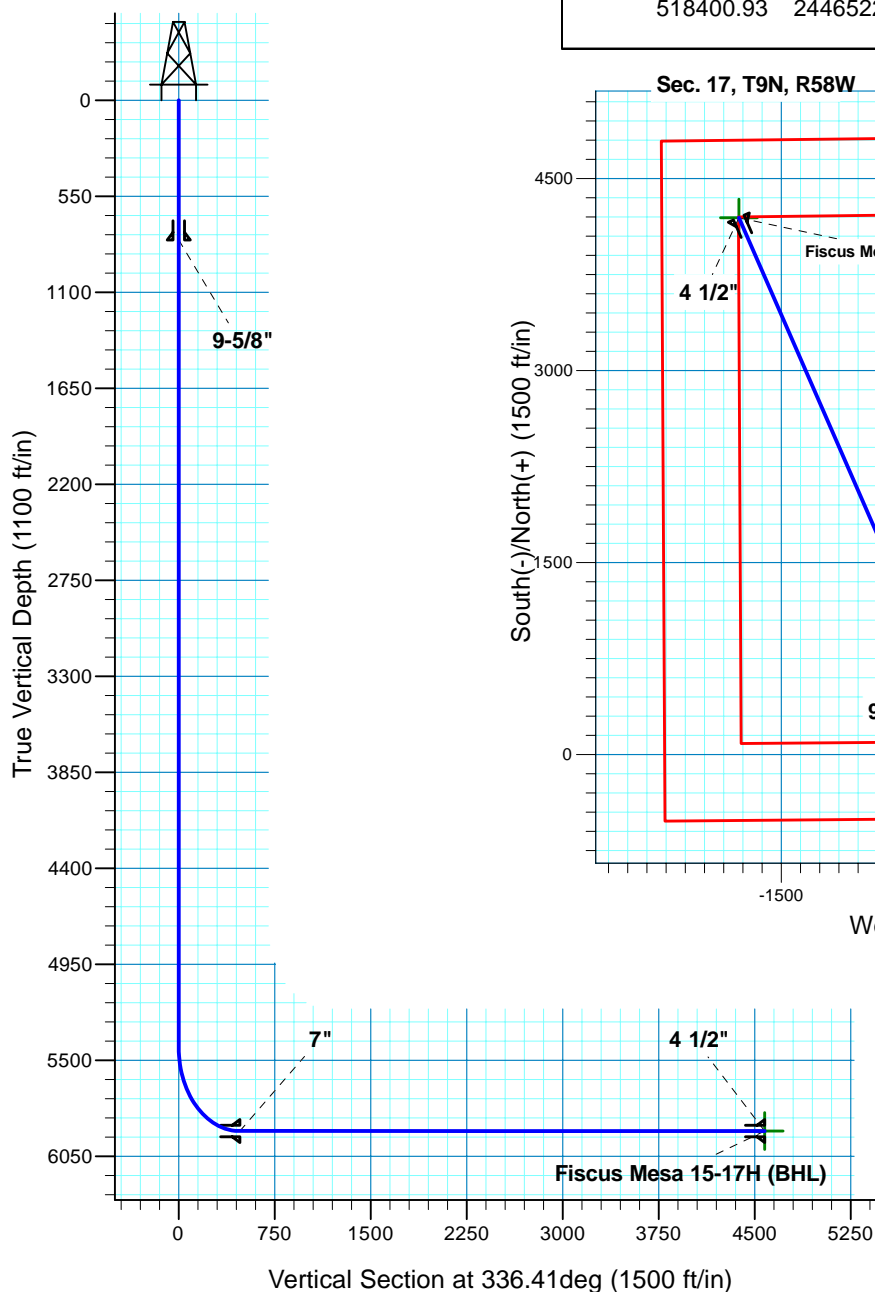
Fiscus Mesa 15-17H

Section 17 T9N R58W

Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
 Ground Elevation: 4868.00 RIG @ 4890.00ft (TBD)
 Northing Easting Latitude Longitude
 518400.93 2446522.98 40° 44' 43.030 N 103° 53' 18.571 W



T M
 Azimuths to True North
 Magnetic North: 8.42°
 Magnetic Field
 Strength: 53465.7nT
 Dip Angle: 67.49°
 Date: 1/12/2011
 Model: IGRF200510

Project: DJ - Hereford Ranch
 Site: Fiscus Mesa 15-17H
 Well: Fiscus Mesa 15-17H
 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	5427.53	0.00	0.00	5427.53	0.00	0.00	0.00	0.00	0.00	
3	6177.54	90.00	336.41	5905.00	437.56	-191.10	12.00	336.41	477.47	
4	10276.42	90.00	336.41	5905.00	4193.83	-1831.59	0.00	0.00	4576.35	Fiscus Mesa 15-17H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Fiscus Mesa 15-17H (BHL)	5905.00	4193.83	-1831.59	522560.78	2444615.48	40° 45' 24.469 N	103° 53' 42.371 W	