

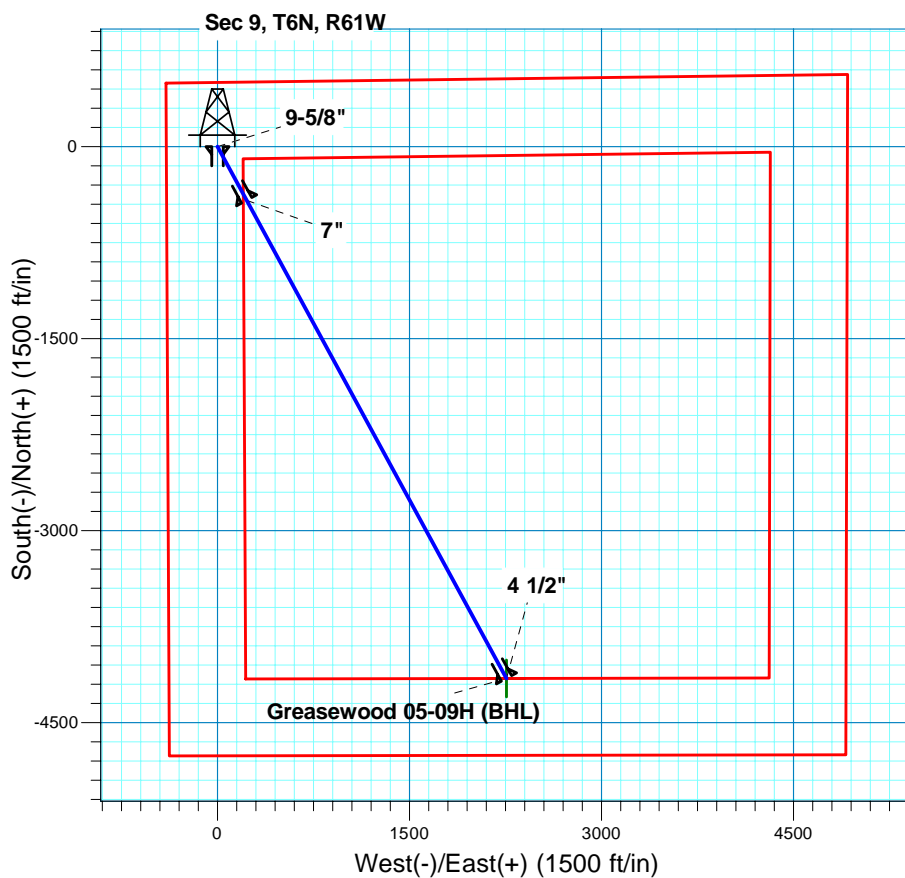
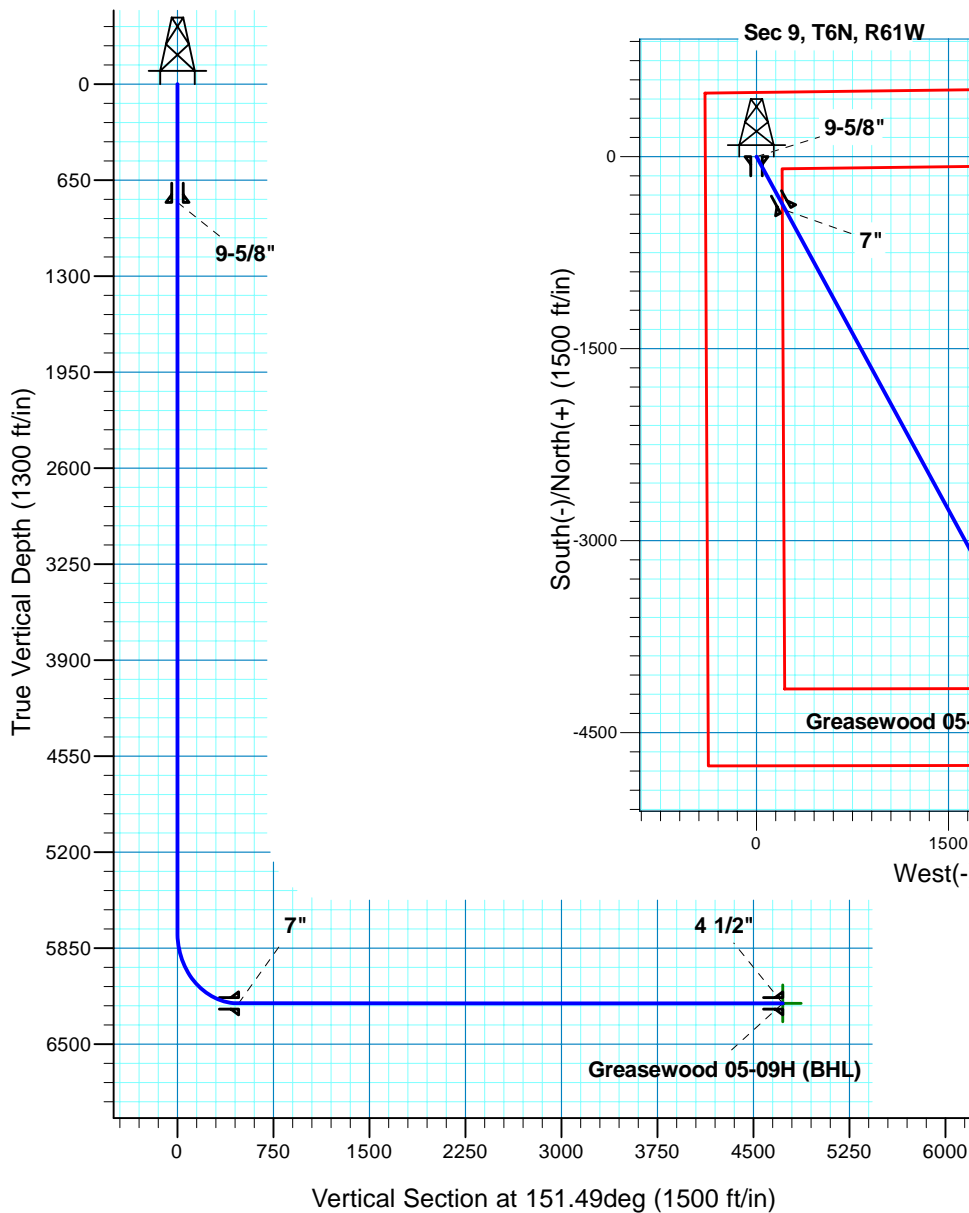
# Greasewood 05-09H

Section 9 T6N R61W

Weld County, CO

## Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501  
Ground Elevation: 4673.00RIG @ 4695.00ft (TBD)  
Northing Easting Latitude Longitude  
430611.53 2355417.53 40° 30' 30.308 N 104° 13' 18.509 W



**T M**  
Azimuths to True North  
Magnetic North: 8.52°  
Magnetic Field  
Strength: 53259.6snT  
Dip Angle: 67.23°  
Date: 7/12/2011  
Model: IGRF200510

Project: DJ - Hereford Ranch  
Site: Greasewood 05-09H  
Well: Greasewood 05-09H  
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	5746.53	0.00	0.00	5746.53	0.00	0.00	0.00	0.00	0.00	
3	6496.54	90.00	151.49	6224.00	-419.55	227.93	12.00	151.49	477.47	
4	10747.38	90.00	151.49	6224.00	-4154.74	2257.22	0.00	0.00	4728.31	Greasewood 05-09H (BHL)

## TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Greasewood 05-09H (BHL)	6224.00	-4154.74	2257.22	426489.77	2357734.39	40° 29' 49.250 N	104° 12' 49.291 W	Point

# **Denver Division- Colorado**

**DJ - Hereford Ranch**

**Greasewood 05-09H**

**Greasewood 05-09H**

**Original Wellbore**

**Plan: APD Directional Plan**

## **Standard Planning Report**

**13 July, 2011**

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Greasewood 05-09H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Site:</b>	Greasewood 05-09H	<b>North Reference:</b>	True
<b>Well:</b>	Greasewood 05-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	APD Directional Plan		

<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		Greasewood 05-09H			
Site Position:		Northing:	430,611.53ft	Latitude:	40° 30' 30.308 N
From:	Lat/Long	Easting:	2,355,417.53ft	Longitude:	104° 13' 18.509 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	0.83 deg

Well		Greasewood 05-09H				
Well Position	+N-S	0.00 ft	Northing:	430,611.53 ft	Latitude:	40° 30' 30.308 N
	+E-W	0.00 ft	Easting:	2,355,417.53 ft	Longitude:	104° 13' 18.509 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,673.00 ft

<b>Wellbore</b>	Original Wellbore				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (deg)</b>	<b>Dip Angle (deg)</b>	<b>Field Strength (nT)</b>
	IGRF200510	7/12/2011	8.52	67.23	53,260

<b>Design</b>	APD Directional Plan				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (deg)</b>	
	0.00	0.00	0.00	151.49	

<b>Plan Sections</b>										
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	
5,746.53	0.00	0.00	5,746.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,496.54	90.00	151.49	6,224.00	-419.55	227.93	12.00	12.00	0.00	151.49	
10,747.38	90.00	151.49	6,224.00	-4,154.74	2,257.22	0.00	0.00	0.00	0.00	Greasewood 05-09H

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Greasewood 05-09H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Site:</b>	Greasewood 05-09H	<b>North Reference:</b>	True
<b>Well:</b>	Greasewood 05-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	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
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Greasewood 05-09H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Site:</b>	Greasewood 05-09H	<b>North Reference:</b>	True
<b>Well:</b>	Greasewood 05-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	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)
5,300.00	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
5,746.53	0.00	0.00	5,746.53	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	6.42	151.49	5,799.89	-2.63	1.43	2.99	12.00	12.00	0.00
5,900.00	18.42	151.49	5,897.37	-21.49	11.67	24.45	12.00	12.00	0.00
6,000.00	30.42	151.49	5,988.26	-57.74	31.37	65.71	12.00	12.00	0.00
6,100.00	42.42	151.49	6,068.59	-109.81	59.66	124.97	12.00	12.00	0.00
6,200.00	54.42	151.49	6,134.84	-175.41	95.30	199.63	12.00	12.00	0.00
6,300.00	66.42	151.49	6,184.12	-251.69	136.74	286.43	12.00	12.00	0.00
6,400.00	78.42	151.49	6,214.27	-335.30	182.16	381.59	12.00	12.00	0.00
6,496.54	90.00	151.49	6,224.00	-419.55	227.94	477.47	12.00	12.00	0.00
7"									
6,500.00	90.00	151.49	6,224.00	-422.59	229.59	480.93	0.00	0.00	0.00
6,600.00	90.00	151.49	6,224.00	-510.46	277.33	580.93	0.00	0.00	0.00
6,700.00	90.00	151.49	6,224.00	-598.33	325.07	680.93	0.00	0.00	0.00
6,800.00	90.00	151.49	6,224.00	-686.20	372.80	780.93	0.00	0.00	0.00
6,900.00	90.00	151.49	6,224.00	-774.07	420.54	880.93	0.00	0.00	0.00
7,000.00	90.00	151.49	6,224.00	-861.94	468.28	980.93	0.00	0.00	0.00
7,100.00	90.00	151.49	6,224.00	-949.81	516.02	1,080.93	0.00	0.00	0.00
7,200.00	90.00	151.49	6,224.00	-1,037.68	563.76	1,180.93	0.00	0.00	0.00
7,300.00	90.00	151.49	6,224.00	-1,125.55	611.50	1,280.93	0.00	0.00	0.00
7,400.00	90.00	151.49	6,224.00	-1,213.42	659.23	1,380.93	0.00	0.00	0.00
7,500.00	90.00	151.49	6,224.00	-1,301.29	706.97	1,480.93	0.00	0.00	0.00
7,600.00	90.00	151.49	6,224.00	-1,389.15	754.71	1,580.93	0.00	0.00	0.00
7,700.00	90.00	151.49	6,224.00	-1,477.02	802.45	1,680.93	0.00	0.00	0.00
7,800.00	90.00	151.49	6,224.00	-1,564.89	850.19	1,780.93	0.00	0.00	0.00
7,900.00	90.00	151.49	6,224.00	-1,652.76	897.93	1,880.93	0.00	0.00	0.00
8,000.00	90.00	151.49	6,224.00	-1,740.63	945.66	1,980.93	0.00	0.00	0.00
8,100.00	90.00	151.49	6,224.00	-1,828.50	993.40	2,080.93	0.00	0.00	0.00
8,200.00	90.00	151.49	6,224.00	-1,916.37	1,041.14	2,180.93	0.00	0.00	0.00
8,300.00	90.00	151.49	6,224.00	-2,004.24	1,088.88	2,280.93	0.00	0.00	0.00
8,400.00	90.00	151.49	6,224.00	-2,092.11	1,136.62	2,380.93	0.00	0.00	0.00
8,500.00	90.00	151.49	6,224.00	-2,179.98	1,184.36	2,480.93	0.00	0.00	0.00
8,600.00	90.00	151.49	6,224.00	-2,267.85	1,232.09	2,580.93	0.00	0.00	0.00
8,700.00	90.00	151.49	6,224.00	-2,355.72	1,279.83	2,680.93	0.00	0.00	0.00
8,800.00	90.00	151.49	6,224.00	-2,443.59	1,327.57	2,780.93	0.00	0.00	0.00
8,900.00	90.00	151.49	6,224.00	-2,531.46	1,375.31	2,880.93	0.00	0.00	0.00
9,000.00	90.00	151.49	6,224.00	-2,619.33	1,423.05	2,980.93	0.00	0.00	0.00
9,100.00	90.00	151.49	6,224.00	-2,707.20	1,470.79	3,080.93	0.00	0.00	0.00
9,200.00	90.00	151.49	6,224.00	-2,795.07	1,518.53	3,180.93	0.00	0.00	0.00
9,300.00	90.00	151.49	6,224.00	-2,882.94	1,566.26	3,280.93	0.00	0.00	0.00
9,400.00	90.00	151.49	6,224.00	-2,970.81	1,614.00	3,380.93	0.00	0.00	0.00
9,500.00	90.00	151.49	6,224.00	-3,058.68	1,661.74	3,480.93	0.00	0.00	0.00
9,600.00	90.00	151.49	6,224.00	-3,146.54	1,709.48	3,580.93	0.00	0.00	0.00
9,700.00	90.00	151.49	6,224.00	-3,234.41	1,757.22	3,680.93	0.00	0.00	0.00
9,800.00	90.00	151.49	6,224.00	-3,322.28	1,804.96	3,780.93	0.00	0.00	0.00
9,900.00	90.00	151.49	6,224.00	-3,410.15	1,852.69	3,880.93	0.00	0.00	0.00
10,000.00	90.00	151.49	6,224.00	-3,498.02	1,900.43	3,980.93	0.00	0.00	0.00
10,100.00	90.00	151.49	6,224.00	-3,585.89	1,948.17	4,080.93	0.00	0.00	0.00
10,200.00	90.00	151.49	6,224.00	-3,673.76	1,995.91	4,180.93	0.00	0.00	0.00

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Greasewood 05-09H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4695.00ft (TBD)
<b>Site:</b>	Greasewood 05-09H	<b>North Reference:</b>	True
<b>Well:</b>	Greasewood 05-09H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Original Wellbore		
<b>Design:</b>	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)
10,300.00	90.00	151.49	6,224.00	-3,761.63	2,043.65	4,280.93	0.00	0.00	0.00
10,400.00	90.00	151.49	6,224.00	-3,849.50	2,091.39	4,380.93	0.00	0.00	0.00
10,500.00	90.00	151.49	6,224.00	-3,937.37	2,139.12	4,480.93	0.00	0.00	0.00
10,600.00	90.00	151.49	6,224.00	-4,025.24	2,186.86	4,580.93	0.00	0.00	0.00
10,700.00	90.00	151.49	6,224.00	-4,113.11	2,234.60	4,680.93	0.00	0.00	0.00
10,747.38	90.00	151.49	6,224.00	-4,154.74	2,257.22	4,728.31	0.00	0.00	0.00
4 1/2" - Greasewood 05-09H (BHL)									

Design 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									
Greasewood 05-09H (	0.00	0.00	6,224.00	-4,154.74	2,257.22	426,489.77	2,357,734.39	40° 29' 49.250 N	104° 12' 49.291 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	
6,496.54	6,224.00	7"	7	8-3/4	
10,747.38	6,224.00	4 1/2"	4-1/2	6	