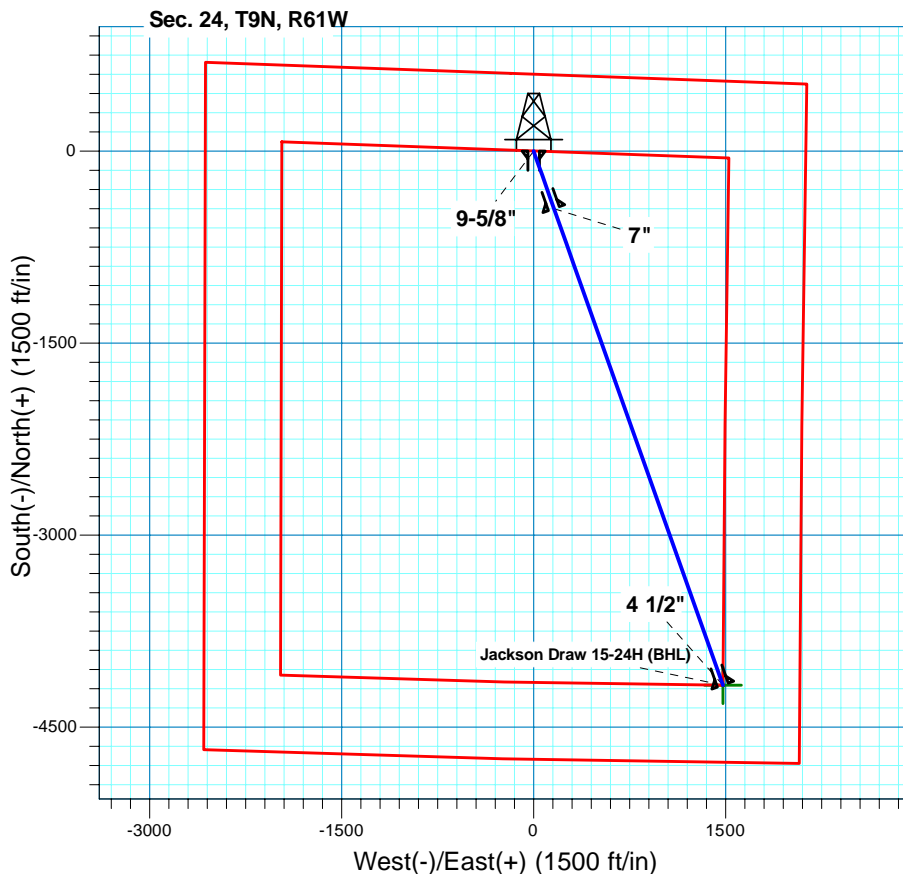
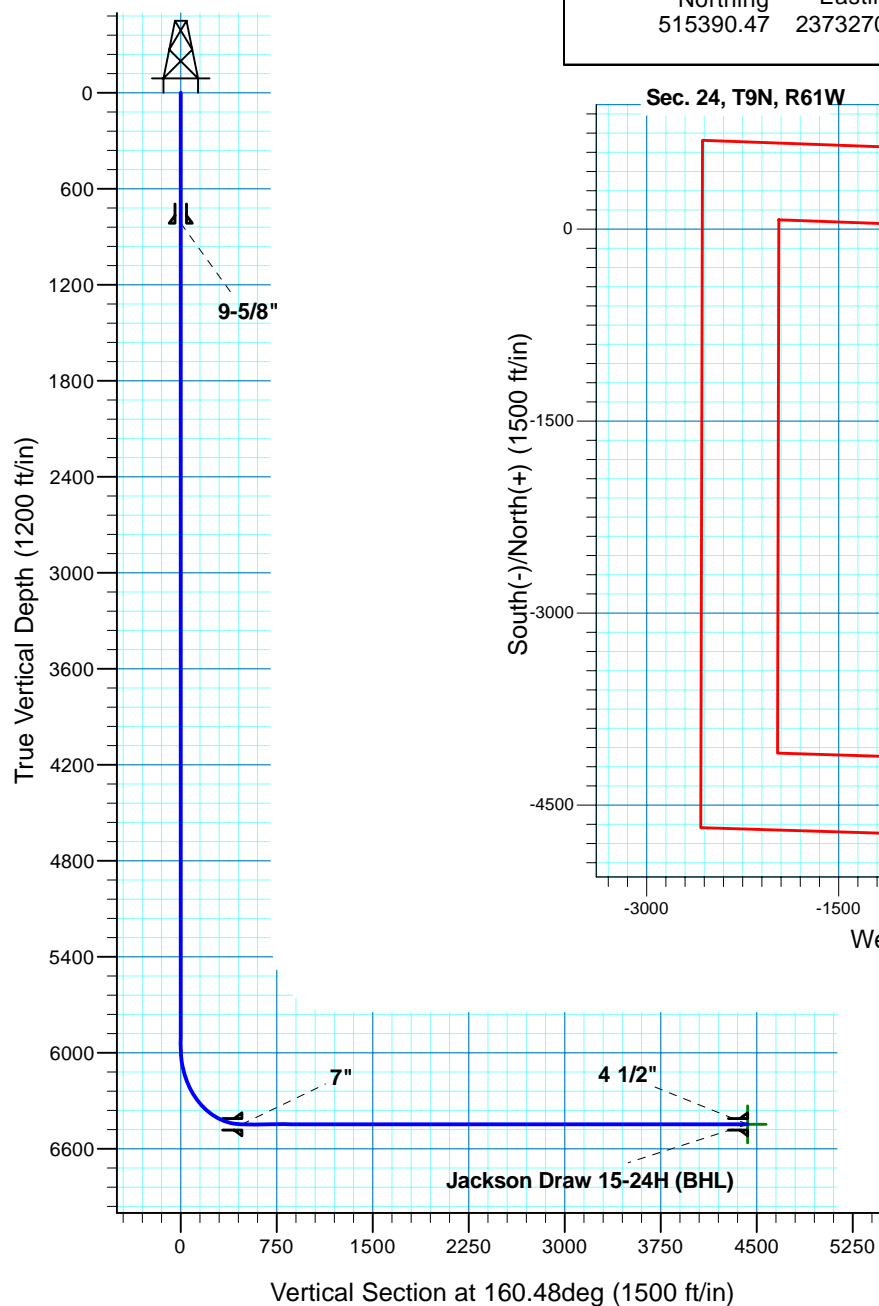


# **Jackson Draw 15-24H** **Section 24 T9N R61W** **Weld County, CO**

## Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501  
 Ground Elevation: 4963.00 RIG @ 4985.00ft (TBD)  
 Northing Easting Latitude Longitude  
 515390.47 2373270.13 40° 44' 25.361 N 104° 9' 10.739 W



**T M**  
 Azimuths to True North  
 Magnetic North: 8.58°  
 Magnetic Field  
 Strength: 53438.7nT  
 Dip Angle: 67.45°  
 Date: 1/3/2011  
 Model: IGRF200510

Project: DJ - Hereford Ranch  
 Site: Jackson Draw 15-24H  
 Well: Jackson Draw 15-24H  
 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	5969.53	0.00	0.00	5969.53	0.00	0.00	0.00	0.00	0.00	
3	6719.54	90.00	160.48	6447.00	-450.02	159.56	12.00	160.48	477.47	
4	10670.30	90.00	160.48	6447.00	-4173.66	1479.79	0.00	0.00	4428.23	Jackson Draw 15-24H (BHL)

## TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Jackson Draw 15-24H (BHL)	6447.00	-4173.66	1479.79	511239.78	2374813.14	40° 43' 44.119 N	104° 8' 51.518 W	

# **Denver Division- Colorado**

**DJ - Hereford Ranch  
Jackson Draw 15-24H  
Jackson Draw 15-24H  
Original Wellbore**

**Plan: APD Directional Plan**

## **Standard Planning Report**

**03 January, 2011**

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Jackson Draw 15-24H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Site:</b>	Jackson Draw 15-24H	<b>North Reference:</b>	True
<b>Well:</b>	Jackson Draw 15-24H	<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		

<b>Site</b>	Jackson Draw 15-24H		
<b>Site Position:</b>		<b>Northing:</b>	515,390.47 ft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,373,270.13 ft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"
		<b>Latitude:</b>	40° 44' 25.361 N
		<b>Longitude:</b>	104° 9' 10.739 W
		<b>Grid Convergence:</b>	0.87 deg

<b>Well</b>	Jackson Draw 15-24H		
<b>Well Position</b>	<b>+N/-S</b>	0.00 ft	<b>Northing:</b> 515,390.47 ft
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b> 2,373,270.13 ft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 44' 25.361 N
		<b>Longitude:</b>	104° 9' 10.739 W
		<b>Ground Level:</b>	4,963.00 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	1/3/2011	8.58	67.45	53,439

<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	160.48

<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	
5,969.53	0.00	0.00	5,969.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,719.54	90.00	160.48	6,447.00	-450.02	159.56	12.00	12.00	0.00	160.48	
10,670.30	90.00	160.48	6,447.00	-4,173.66	1,479.79	0.00	0.00	0.00	0.00	Jackson Draw 15-2

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Jackson Draw 15-24H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Site:</b>	Jackson Draw 15-24H	<b>North Reference:</b>	True
<b>Well:</b>	Jackson Draw 15-24H	<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
815.00	0.00	0.00	815.00	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

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Jackson Draw 15-24H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Site:</b>	Jackson Draw 15-24H	<b>North Reference:</b>	True
<b>Well:</b>	Jackson Draw 15-24H	<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)
5,100.00	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
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
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,969.53	0.00	0.00	5,969.53	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	3.66	160.48	5,999.98	-0.92	0.32	0.97	12.00	12.00	0.00
6,100.00	15.66	160.48	6,098.38	-16.70	5.92	17.71	12.00	12.00	0.00
6,200.00	27.66	160.48	6,191.15	-51.41	18.23	54.55	12.00	12.00	0.00
6,300.00	39.66	160.48	6,274.24	-103.55	36.72	109.87	12.00	12.00	0.00
6,400.00	51.66	160.48	6,344.01	-170.83	60.57	181.25	12.00	12.00	0.00
6,500.00	63.66	160.48	6,397.41	-250.32	88.75	265.58	12.00	12.00	0.00
6,600.00	75.66	160.48	6,432.11	-338.53	120.03	359.17	12.00	12.00	0.00
6,700.00	87.66	160.48	6,446.60	-431.61	153.03	457.94	12.00	12.00	0.00
6,719.54	90.00	160.48	6,447.00	-450.02	159.56	477.47	12.00	12.00	0.00
7"									
6,800.00	90.00	160.48	6,447.00	-525.86	186.45	557.93	0.00	0.00	0.00
6,900.00	90.00	160.48	6,447.00	-620.11	219.86	657.93	0.00	0.00	0.00
7,000.00	90.00	160.48	6,447.00	-714.36	253.28	757.93	0.00	0.00	0.00
7,100.00	90.00	160.48	6,447.00	-808.61	286.70	857.93	0.00	0.00	0.00
7,200.00	90.00	160.48	6,447.00	-902.86	320.11	957.93	0.00	0.00	0.00
7,300.00	90.00	160.48	6,447.00	-997.11	353.53	1,057.93	0.00	0.00	0.00
7,400.00	90.00	160.48	6,447.00	-1,091.36	386.95	1,157.93	0.00	0.00	0.00
7,500.00	90.00	160.48	6,447.00	-1,185.61	420.37	1,257.93	0.00	0.00	0.00
7,600.00	90.00	160.48	6,447.00	-1,279.87	453.78	1,357.93	0.00	0.00	0.00
7,700.00	90.00	160.48	6,447.00	-1,374.12	487.20	1,457.93	0.00	0.00	0.00
7,800.00	90.00	160.48	6,447.00	-1,468.37	520.62	1,557.93	0.00	0.00	0.00
7,900.00	90.00	160.48	6,447.00	-1,562.62	554.04	1,657.93	0.00	0.00	0.00
8,000.00	90.00	160.48	6,447.00	-1,656.87	587.45	1,757.93	0.00	0.00	0.00
8,100.00	90.00	160.48	6,447.00	-1,751.12	620.87	1,857.93	0.00	0.00	0.00
8,200.00	90.00	160.48	6,447.00	-1,845.37	654.29	1,957.93	0.00	0.00	0.00
8,300.00	90.00	160.48	6,447.00	-1,939.62	687.70	2,057.93	0.00	0.00	0.00
8,400.00	90.00	160.48	6,447.00	-2,033.87	721.12	2,157.93	0.00	0.00	0.00
8,500.00	90.00	160.48	6,447.00	-2,128.13	754.54	2,257.93	0.00	0.00	0.00
8,600.00	90.00	160.48	6,447.00	-2,222.38	787.96	2,357.93	0.00	0.00	0.00
8,700.00	90.00	160.48	6,447.00	-2,316.63	821.37	2,457.93	0.00	0.00	0.00
8,800.00	90.00	160.48	6,447.00	-2,410.88	854.79	2,557.93	0.00	0.00	0.00
8,900.00	90.00	160.48	6,447.00	-2,505.13	888.21	2,657.93	0.00	0.00	0.00
9,000.00	90.00	160.48	6,447.00	-2,599.38	921.63	2,757.93	0.00	0.00	0.00
9,100.00	90.00	160.48	6,447.00	-2,693.63	955.04	2,857.93	0.00	0.00	0.00
9,200.00	90.00	160.48	6,447.00	-2,787.88	988.46	2,957.93	0.00	0.00	0.00
9,300.00	90.00	160.48	6,447.00	-2,882.14	1,021.88	3,057.93	0.00	0.00	0.00
9,400.00	90.00	160.48	6,447.00	-2,976.39	1,055.29	3,157.93	0.00	0.00	0.00
9,500.00	90.00	160.48	6,447.00	-3,070.64	1,088.71	3,257.93	0.00	0.00	0.00
9,600.00	90.00	160.48	6,447.00	-3,164.89	1,122.13	3,357.93	0.00	0.00	0.00
9,700.00	90.00	160.48	6,447.00	-3,259.14	1,155.55	3,457.93	0.00	0.00	0.00
9,800.00	90.00	160.48	6,447.00	-3,353.39	1,188.96	3,557.93	0.00	0.00	0.00
9,900.00	90.00	160.48	6,447.00	-3,447.64	1,222.38	3,657.93	0.00	0.00	0.00
10,000.00	90.00	160.48	6,447.00	-3,541.89	1,255.80	3,757.93	0.00	0.00	0.00

# EOG Resources Inc

## Planning Report

<b>Database:</b>	EDM	<b>Local Co-ordinate Reference:</b>	Site Jackson Draw 15-24H
<b>Company:</b>	Denver Division- Colorado	<b>TVD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Project:</b>	DJ - Hereford Ranch	<b>MD Reference:</b>	RIG @ 4985.00ft (TBD)
<b>Site:</b>	Jackson Draw 15-24H	<b>North Reference:</b>	True
<b>Well:</b>	Jackson Draw 15-24H	<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)
10,100.00	90.00	160.48	6,447.00	-3,636.14	1,289.22	3,857.93	0.00	0.00	0.00
10,200.00	90.00	160.48	6,447.00	-3,730.40	1,322.63	3,957.93	0.00	0.00	0.00
10,300.00	90.00	160.48	6,447.00	-3,824.65	1,356.05	4,057.93	0.00	0.00	0.00
10,400.00	90.00	160.48	6,447.00	-3,918.90	1,389.47	4,157.93	0.00	0.00	0.00
10,500.00	90.00	160.48	6,447.00	-4,013.15	1,422.89	4,257.93	0.00	0.00	0.00
10,600.00	90.00	160.48	6,447.00	-4,107.40	1,456.30	4,357.93	0.00	0.00	0.00
10,670.30	90.00	160.48	6,447.00	-4,173.66	1,479.79	4,428.23	0.00	0.00	0.00
Jackson Draw 15-24H (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									
Jackson Draw 15-24H	0.00	0.00	6,447.00	-4,173.66	1,479.79	511,239.78	2,374,813.14	40° 43' 44.119 N	104° 8' 51.518 W
- plan hits target center									
- Point									

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
815.00	815.00	9-5/8"	9-5/8	13-1/2
6,719.54	6,447.00	7"	7	8-3/4
10,670.30	6,447.00	4 1/2"	4-1/2	6-1/4