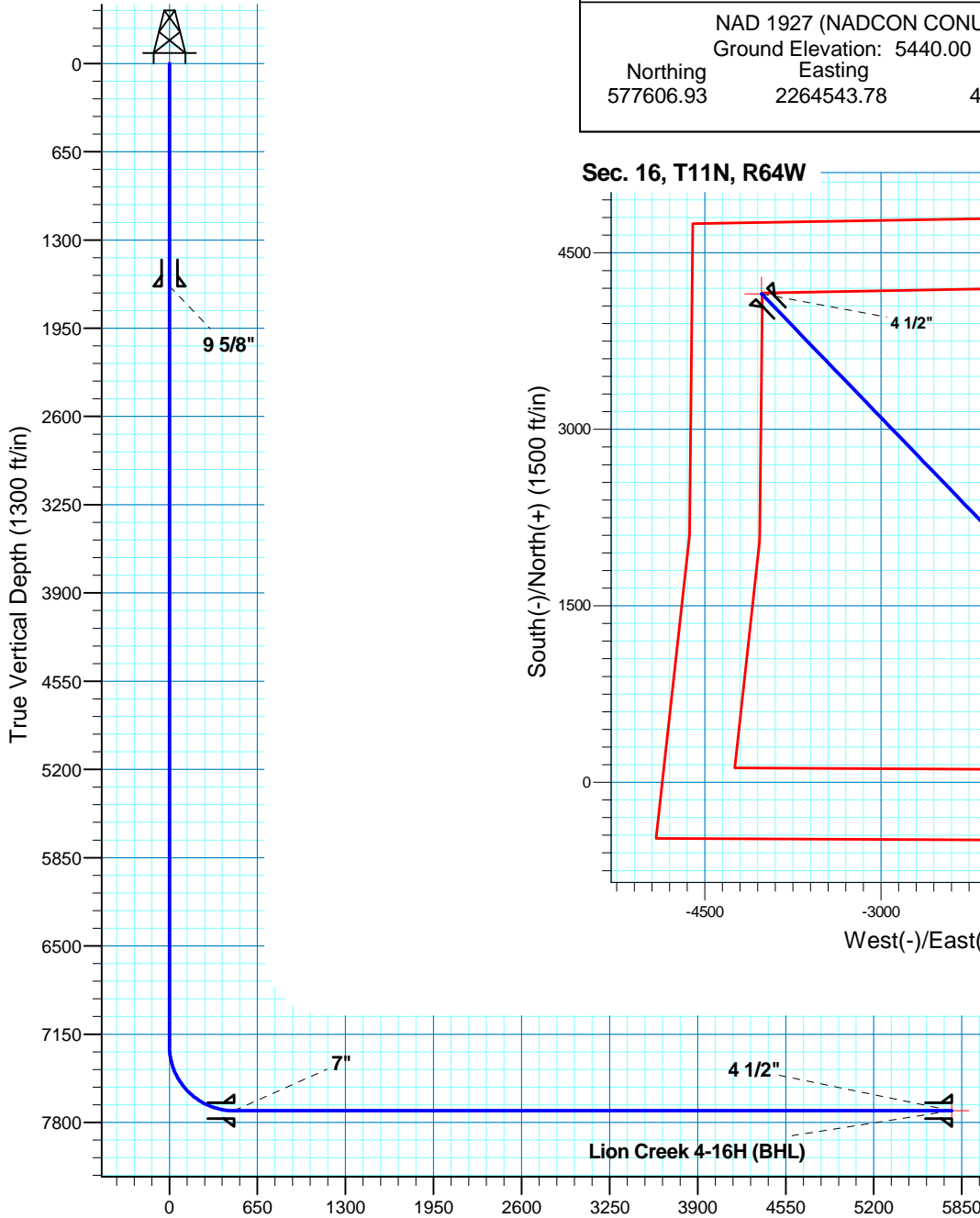


Lion Creek 04-16H

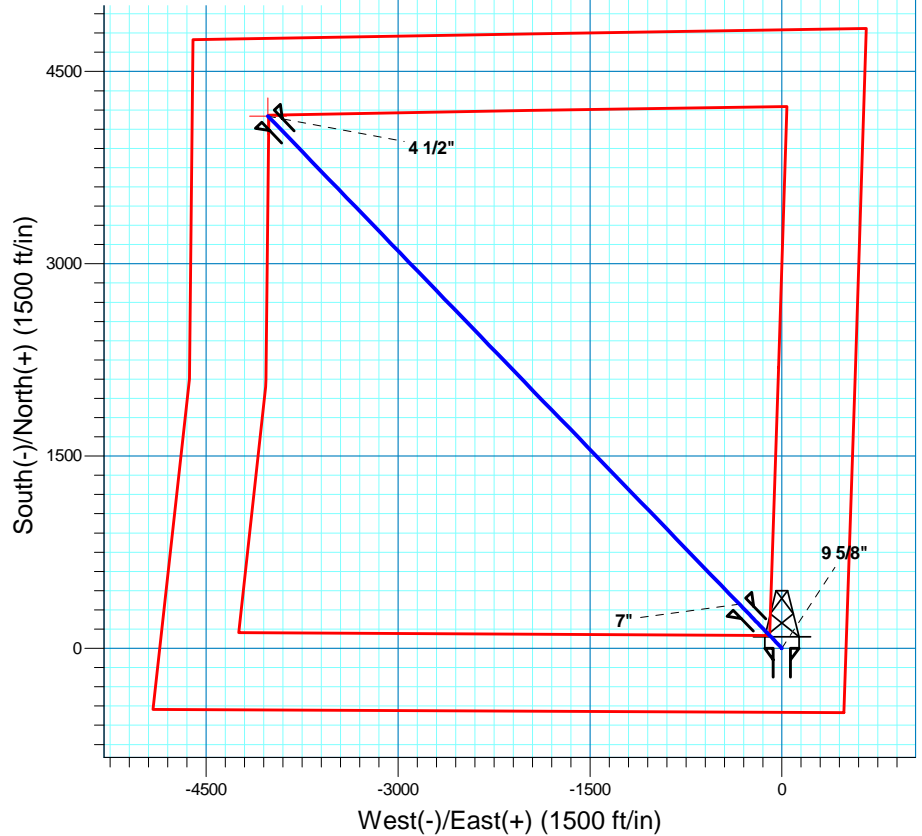
Section 16 T11N R64W

Weld County, CO



Vertical Section at 315.94deg (1300 ft/in)

Sec. 16, T11N, R64W



Azimuths to True North
Magnetic North: 8.88°
Magnetic Field
Strength: 53542.6snT
Dip Angle: 67.54°
Date: 6/16/2010
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Lion Creek 04-16H
Well: Lion Creek 04-16H
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	7236.53	0.00	0.00	7236.53	0.00	0.00	0.00	0.00	0.00	
3	7986.54	90.00	315.94	7714.00	343.09	-332.06	12.00	315.94	477.47	
4	13284.39	90.00	315.94	7714.00	4149.89	-4016.55	0.00	0.00	5775.32	Lion Creek 4-16H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Lion Creek 4-16H (BHL)	7714.00	4149.89	-4016.55	581713.22	2260482.68	40°55' 35.029 N	104°33' 26.701 W	Point

Denver Division- Colorado

DJ - Hereford Ranch

Lion Creek 04-16H

Lion Creek 04-16H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

16 June, 2010

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Lion Creek 04-16H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5465.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5465.00ft (TBD)
Site:	Lion Creek 04-16H	North Reference:	True
Well:	Lion Creek 04-16H	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	Lion Creek 04-16H		
Site Position:		Northing:	577,606.93ft
From:	Lat/Long	Easting:	2,264,543.78ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 54' 54.029 N
		Longitude:	104° 32' 34.379 W
		Grid Convergence:	0.62 deg

Well	Lion Creek 04-16H		
Well Position	+N/-S	0.00 ft	Northing: 577,606.93 ft
	+E/-W	0.00 ft	Easting: 2,264,543.78 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 54' 54.029 N
		Longitude:	104° 32' 34.379 W
		Ground Level:	5,440.00ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	6/16/2010	8.88	67.54	53,543

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	315.94

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	
7,236.53	0.00	0.00	7,236.53	0.00	0.00	0.00	0.00	0.00	0.00	
7,986.54	90.00	315.94	7,714.00	343.09	-332.06	12.00	12.00	0.00	315.94	
13,284.39	90.00	315.94	7,714.00	4,149.89	-4,016.55	0.00	0.00	0.00	0.00	Lion Creek 4-16H (I

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Lion Creek 04-16H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5465.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5465.00ft (TBD)
Site:	Lion Creek 04-16H	North Reference:	True
Well:	Lion Creek 04-16H	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
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
1,640.00	0.00	0.00	1,640.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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

Database:	EDM	Local Co-ordinate Reference:	Site Lion Creek 04-16H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5465.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5465.00ft (TBD)
Site:	Lion Creek 04-16H	North Reference:	True
Well:	Lion Creek 04-16H	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)
5,100.00	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
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,236.53	0.00	0.00	7,236.53	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	7.62	315.94	7,299.81	3.03	-2.93	4.21	12.00	12.00	0.00
7,400.00	19.62	315.94	7,396.83	19.91	-19.27	27.71	12.00	12.00	0.00
7,500.00	31.62	315.94	7,486.83	50.92	-49.28	70.86	12.00	12.00	0.00
7,600.00	43.62	315.94	7,565.90	94.70	-91.66	131.79	12.00	12.00	0.00
7,700.00	55.62	315.94	7,630.57	149.33	-144.53	207.82	12.00	12.00	0.00
7,800.00	67.62	315.94	7,678.02	212.43	-205.61	295.64	12.00	12.00	0.00
7,900.00	79.62	315.94	7,706.18	281.25	-272.21	391.40	12.00	12.00	0.00
7,986.54	90.00	315.94	7,714.00	343.09	-332.07	477.47	12.00	12.00	0.00
7"									
8,000.00	90.00	315.94	7,714.00	352.76	-341.43	490.93	0.00	0.00	0.00
8,100.00	90.00	315.94	7,714.00	424.62	-410.97	590.93	0.00	0.00	0.00
8,200.00	90.00	315.94	7,714.00	496.47	-480.52	690.93	0.00	0.00	0.00
8,300.00	90.00	315.94	7,714.00	568.33	-550.07	790.93	0.00	0.00	0.00
8,400.00	90.00	315.94	7,714.00	640.18	-619.61	890.93	0.00	0.00	0.00
8,500.00	90.00	315.94	7,714.00	712.04	-689.16	990.93	0.00	0.00	0.00
8,600.00	90.00	315.94	7,714.00	783.89	-758.71	1,090.93	0.00	0.00	0.00
8,700.00	90.00	315.94	7,714.00	855.75	-828.25	1,190.93	0.00	0.00	0.00
8,800.00	90.00	315.94	7,714.00	927.61	-897.80	1,290.93	0.00	0.00	0.00
8,900.00	90.00	315.94	7,714.00	999.46	-967.35	1,390.93	0.00	0.00	0.00
9,000.00	90.00	315.94	7,714.00	1,071.32	-1,036.89	1,490.93	0.00	0.00	0.00
9,100.00	90.00	315.94	7,714.00	1,143.17	-1,106.44	1,590.93	0.00	0.00	0.00
9,200.00	90.00	315.94	7,714.00	1,215.03	-1,175.99	1,690.93	0.00	0.00	0.00
9,300.00	90.00	315.94	7,714.00	1,286.88	-1,245.54	1,790.93	0.00	0.00	0.00
9,400.00	90.00	315.94	7,714.00	1,358.74	-1,315.08	1,890.93	0.00	0.00	0.00
9,500.00	90.00	315.94	7,714.00	1,430.60	-1,384.63	1,990.93	0.00	0.00	0.00
9,600.00	90.00	315.94	7,714.00	1,502.45	-1,454.18	2,090.93	0.00	0.00	0.00
9,700.00	90.00	315.94	7,714.00	1,574.31	-1,523.72	2,190.93	0.00	0.00	0.00
9,800.00	90.00	315.94	7,714.00	1,646.16	-1,593.27	2,290.93	0.00	0.00	0.00
9,900.00	90.00	315.94	7,714.00	1,718.02	-1,662.82	2,390.93	0.00	0.00	0.00
10,000.00	90.00	315.94	7,714.00	1,789.87	-1,732.36	2,490.93	0.00	0.00	0.00

EOG RESOURCES INC.

Planning Report

Database:
Company:
Project:
Site:
Well:
Wellbore:
Design:

EDM
Denver Division- Colorado
DJ - Hereford Ranch
Lion Creek 04-16H
Lion Creek 04-16H
Original Wellbore
APD Directional Plan

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Site Lion Creek 04-16H
Rig @ 5465.00ft (TBD)
Rig @ 5465.00ft (TBD)
True
Minimum Curvature

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	315.94	7,714.00	1,861.73	-1,801.91	2,590.93	0.00	0.00	0.00
10,200.00	90.00	315.94	7,714.00	1,933.59	-1,871.46	2,690.93	0.00	0.00	0.00
10,300.00	90.00	315.94	7,714.00	2,005.44	-1,941.00	2,790.93	0.00	0.00	0.00
10,400.00	90.00	315.94	7,714.00	2,077.30	-2,010.55	2,890.93	0.00	0.00	0.00
10,500.00	90.00	315.94	7,714.00	2,149.15	-2,080.10	2,990.93	0.00	0.00	0.00
10,600.00	90.00	315.94	7,714.00	2,221.01	-2,149.64	3,090.93	0.00	0.00	0.00
10,700.00	90.00	315.94	7,714.00	2,292.86	-2,219.19	3,190.93	0.00	0.00	0.00
10,800.00	90.00	315.94	7,714.00	2,364.72	-2,288.74	3,290.93	0.00	0.00	0.00
10,900.00	90.00	315.94	7,714.00	2,436.58	-2,358.29	3,390.93	0.00	0.00	0.00
11,000.00	90.00	315.94	7,714.00	2,508.43	-2,427.83	3,490.93	0.00	0.00	0.00
11,100.00	90.00	315.94	7,714.00	2,580.29	-2,497.38	3,590.93	0.00	0.00	0.00
11,200.00	90.00	315.94	7,714.00	2,652.14	-2,566.93	3,690.93	0.00	0.00	0.00
11,300.00	90.00	315.94	7,714.00	2,724.00	-2,636.47	3,790.93	0.00	0.00	0.00
11,400.00	90.00	315.94	7,714.00	2,795.85	-2,706.02	3,890.93	0.00	0.00	0.00
11,500.00	90.00	315.94	7,714.00	2,867.71	-2,775.57	3,990.93	0.00	0.00	0.00
11,600.00	90.00	315.94	7,714.00	2,939.56	-2,845.11	4,090.93	0.00	0.00	0.00
11,700.00	90.00	315.94	7,714.00	3,011.42	-2,914.66	4,190.93	0.00	0.00	0.00
11,800.00	90.00	315.94	7,714.00	3,083.28	-2,984.21	4,290.93	0.00	0.00	0.00
11,900.00	90.00	315.94	7,714.00	3,155.13	-3,053.75	4,390.93	0.00	0.00	0.00
12,000.00	90.00	315.94	7,714.00	3,226.99	-3,123.30	4,490.93	0.00	0.00	0.00
12,100.00	90.00	315.94	7,714.00	3,298.84	-3,192.85	4,590.93	0.00	0.00	0.00
12,200.00	90.00	315.94	7,714.00	3,370.70	-3,262.39	4,690.93	0.00	0.00	0.00
12,300.00	90.00	315.94	7,714.00	3,442.55	-3,331.94	4,790.93	0.00	0.00	0.00
12,400.00	90.00	315.94	7,714.00	3,514.41	-3,401.49	4,890.93	0.00	0.00	0.00
12,500.00	90.00	315.94	7,714.00	3,586.27	-3,471.03	4,990.93	0.00	0.00	0.00
12,600.00	90.00	315.94	7,714.00	3,658.12	-3,540.58	5,090.93	0.00	0.00	0.00
12,700.00	90.00	315.94	7,714.00	3,729.98	-3,610.13	5,190.93	0.00	0.00	0.00
12,800.00	90.00	315.94	7,714.00	3,801.83	-3,679.68	5,290.93	0.00	0.00	0.00
12,900.00	90.00	315.94	7,714.00	3,873.69	-3,749.22	5,390.93	0.00	0.00	0.00
13,000.00	90.00	315.94	7,714.00	3,945.54	-3,818.77	5,490.93	0.00	0.00	0.00
13,100.00	90.00	315.94	7,714.00	4,017.40	-3,888.32	5,590.93	0.00	0.00	0.00
13,200.00	90.00	315.94	7,714.00	4,089.26	-3,957.86	5,690.93	0.00	0.00	0.00
13,284.39	90.00	315.94	7,714.00	4,149.89	-4,016.55	5,775.32	0.00	0.00	0.00
Lion Creek 4-16H (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									
Lion Creek 4-16H (BHL)	0.00	0.00	7,714.00	4,149.89	-4,016.55	581,713.22	2,260,482.68	40° 55' 35.029 N	104° 33' 26.701 W
- plan hits target center									
- Point									

EOG RESOURCES INC.

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Lion Creek 04-16H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5465.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5465.00ft (TBD)
Site:	Lion Creek 04-16H	North Reference:	True
Well:	Lion Creek 04-16H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,640.00	1,640.00	9 5/8"	9-5/8	13-1/2
7,986.54	7,714.00	7"	7	8-3/4
13,284.39	7,714.00	4 1/2"	4-1/2	6