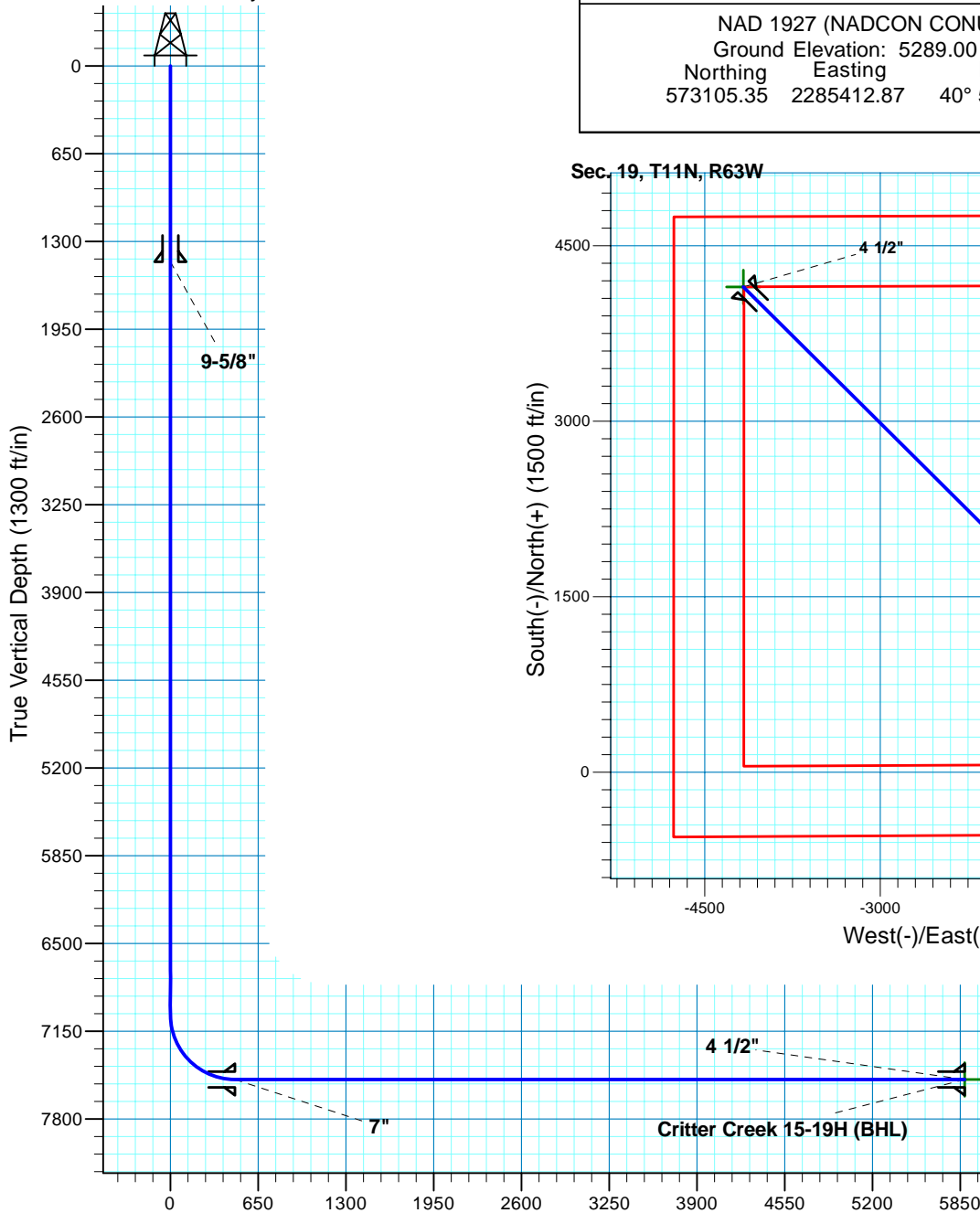


Critter Creek 15-19H

Section 19 T11N R63W

Weld County, CO

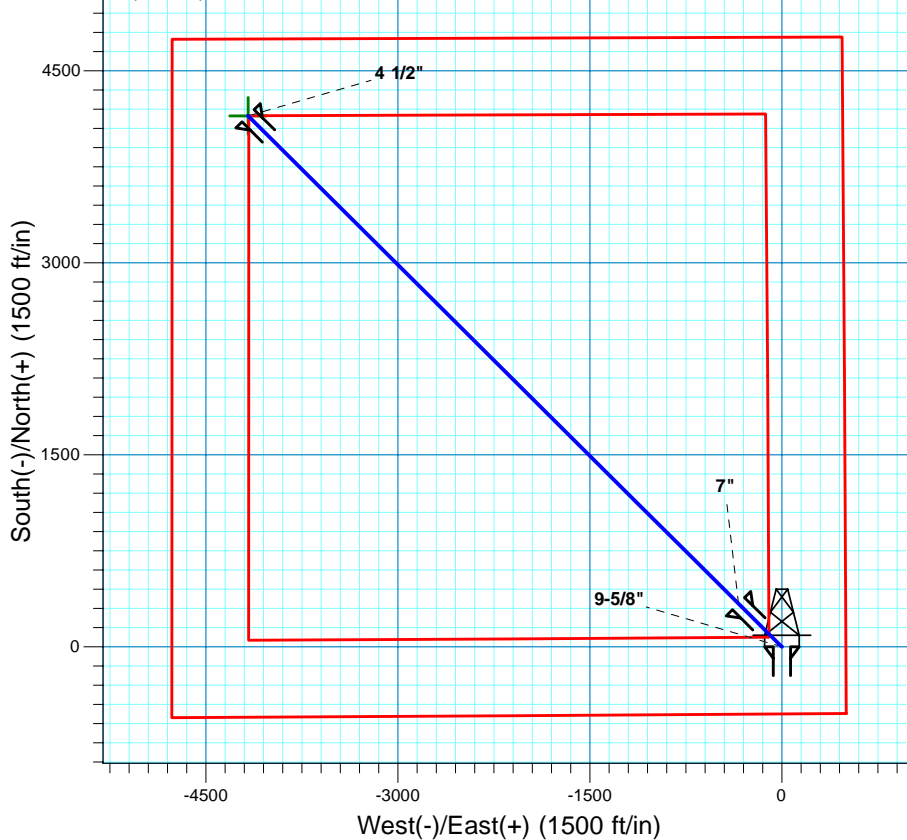


Vertical Section at 314.85deg (1300 ft/in)

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 5289.00 Rig @ 5311.00ft (TBD)
Northing Easting Latitude Longitude
573105.35 2285412.87 40° 54' 7.240 N 104° 28' 3.270 W

Sec. 19, T11N, R63W



T M
Azimuths to True North
Magnetic North: 8.79°
Magnetic Field
Strength: 53506.4nT
Dip Angle: 67.53°
Date: 10/29/2010
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Critter Creek 15-19H
Well: Critter Creek 15-19H
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	7029.53	0.00	0.00	7029.53	0.00	0.00	0.00	0.00	0.00	
3	7779.54	90.00	314.85	7507.00	336.76	-338.47	12.00	314.85	477.47	
4	13184.31	90.00	314.85	7507.00	4148.81	-4169.91	0.00	0.00	5882.24	Critter Creek 15-19H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Critter Creek 15-19H (BHL)	7507.00	4148.81	-4169.91	577205.31	2281194.96	40° 54' 48.229 N	104° 28' 57.580 W	Point

Denver Division- Colorado

DJ - Hereford Ranch

Critter Creek 15-19H

Critter Creek 15-19H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

29 October, 2010

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Critter Creek 15-19H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5311.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5311.00ft (TBD)
Site:	Critter Creek 15-19H	North Reference:	True
Well:	Critter Creek 15-19H	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	Critter Creek 15-19H		
Site Position:		Northing:	573,105.35 ft
From:	Lat/Long	Easting:	2,285,412.87 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 54' 7.240 N
		Longitude:	104° 28' 3.270 W
		Grid Convergence:	0.67 deg

Well	Critter Creek 15-19H		
Well Position	+N/-S	0.00 ft	Northing: 573,105.35 ft
	+E/-W	0.00 ft	Easting: 2,285,412.87 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 54' 7.240 N
		Longitude:	104° 28' 3.270 W
		Ground Level:	5,289.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	10/29/2010	8.79	67.53	53,506

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	314.85

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	
7,029.53	0.00	0.00	7,029.53	0.00	0.00	0.00	0.00	0.00	0.00	
7,779.54	90.00	314.85	7,507.00	336.76	-338.47	12.00	12.00	0.00	314.85	
13,184.31	90.00	314.85	7,507.00	4,148.81	-4,169.91	0.00	0.00	0.00	0.00	Critter Creek 15-19H

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Critter Creek 15-19H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5311.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5311.00ft (TBD)
Site:	Critter Creek 15-19H	North Reference:	True
Well:	Critter Creek 15-19H	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
1,450.00	0.00	0.00	1,450.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8"									
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

Database:	EDM	Local Co-ordinate Reference:	Site Critter Creek 15-19H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5311.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5311.00ft (TBD)
Site:	Critter Creek 15-19H	North Reference:	True
Well:	Critter Creek 15-19H	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
7,029.53	0.00	0.00	7,029.53	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	8.46	314.85	7,099.74	3.66	-3.68	5.19	12.00	12.00	0.00
7,200.00	20.46	314.85	7,196.40	21.24	-21.34	30.11	12.00	12.00	0.00
7,300.00	32.46	314.85	7,285.77	52.60	-52.87	74.58	12.00	12.00	0.00
7,400.00	44.46	314.85	7,363.93	96.38	-96.87	136.66	12.00	12.00	0.00
7,500.00	56.46	314.85	7,427.48	150.67	-151.44	213.63	12.00	12.00	0.00
7,600.00	68.46	314.85	7,473.64	213.10	-214.18	302.13	12.00	12.00	0.00
7,700.00	80.46	314.85	7,500.39	280.92	-282.35	398.30	12.00	12.00	0.00
7,779.54	90.00	314.85	7,507.00	336.76	-338.48	477.47	12.00	12.00	0.00
7"									
7,800.00	90.00	314.85	7,507.00	351.20	-352.98	497.93	0.00	0.00	0.00
7,900.00	90.00	314.85	7,507.00	421.73	-423.87	597.93	0.00	0.00	0.00
8,000.00	90.00	314.85	7,507.00	492.26	-494.76	697.93	0.00	0.00	0.00
8,100.00	90.00	314.85	7,507.00	562.79	-565.65	797.93	0.00	0.00	0.00
8,200.00	90.00	314.85	7,507.00	633.32	-636.54	897.93	0.00	0.00	0.00
8,300.00	90.00	314.85	7,507.00	703.85	-707.43	997.93	0.00	0.00	0.00
8,400.00	90.00	314.85	7,507.00	774.38	-778.32	1,097.93	0.00	0.00	0.00
8,500.00	90.00	314.85	7,507.00	844.91	-849.21	1,197.93	0.00	0.00	0.00
8,600.00	90.00	314.85	7,507.00	915.44	-920.10	1,297.93	0.00	0.00	0.00
8,700.00	90.00	314.85	7,507.00	985.98	-990.99	1,397.93	0.00	0.00	0.00
8,800.00	90.00	314.85	7,507.00	1,056.51	-1,061.88	1,497.93	0.00	0.00	0.00
8,900.00	90.00	314.85	7,507.00	1,127.04	-1,132.77	1,597.93	0.00	0.00	0.00
9,000.00	90.00	314.85	7,507.00	1,197.57	-1,203.66	1,697.93	0.00	0.00	0.00
9,100.00	90.00	314.85	7,507.00	1,268.10	-1,274.55	1,797.93	0.00	0.00	0.00
9,200.00	90.00	314.85	7,507.00	1,338.63	-1,345.44	1,897.93	0.00	0.00	0.00
9,300.00	90.00	314.85	7,507.00	1,409.16	-1,416.33	1,997.93	0.00	0.00	0.00
9,400.00	90.00	314.85	7,507.00	1,479.69	-1,487.22	2,097.93	0.00	0.00	0.00
9,500.00	90.00	314.85	7,507.00	1,550.22	-1,558.11	2,197.93	0.00	0.00	0.00
9,600.00	90.00	314.85	7,507.00	1,620.76	-1,629.00	2,297.93	0.00	0.00	0.00
9,700.00	90.00	314.85	7,507.00	1,691.29	-1,699.89	2,397.93	0.00	0.00	0.00
9,800.00	90.00	314.85	7,507.00	1,761.82	-1,770.78	2,497.93	0.00	0.00	0.00
9,900.00	90.00	314.85	7,507.00	1,832.35	-1,841.67	2,597.93	0.00	0.00	0.00
10,000.00	90.00	314.85	7,507.00	1,902.88	-1,912.56	2,697.93	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Critter Creek 15-19H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5311.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5311.00ft (TBD)
Site:	Critter Creek 15-19H	North Reference:	True
Well:	Critter Creek 15-19H	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)
10,100.00	90.00	314.85	7,507.00	1,973.41	-1,983.45	2,797.93	0.00	0.00	0.00
10,200.00	90.00	314.85	7,507.00	2,043.94	-2,054.34	2,897.93	0.00	0.00	0.00
10,300.00	90.00	314.85	7,507.00	2,114.47	-2,125.23	2,997.93	0.00	0.00	0.00
10,400.00	90.00	314.85	7,507.00	2,185.00	-2,196.12	3,097.93	0.00	0.00	0.00
10,500.00	90.00	314.85	7,507.00	2,255.53	-2,267.01	3,197.93	0.00	0.00	0.00
10,600.00	90.00	314.85	7,507.00	2,326.07	-2,337.90	3,297.93	0.00	0.00	0.00
10,700.00	90.00	314.85	7,507.00	2,396.60	-2,408.79	3,397.93	0.00	0.00	0.00
10,800.00	90.00	314.85	7,507.00	2,467.13	-2,479.68	3,497.93	0.00	0.00	0.00
10,900.00	90.00	314.85	7,507.00	2,537.66	-2,550.57	3,597.93	0.00	0.00	0.00
11,000.00	90.00	314.85	7,507.00	2,608.19	-2,621.46	3,697.93	0.00	0.00	0.00
11,100.00	90.00	314.85	7,507.00	2,678.72	-2,692.35	3,797.93	0.00	0.00	0.00
11,200.00	90.00	314.85	7,507.00	2,749.25	-2,763.24	3,897.93	0.00	0.00	0.00
11,300.00	90.00	314.85	7,507.00	2,819.78	-2,834.13	3,997.93	0.00	0.00	0.00
11,400.00	90.00	314.85	7,507.00	2,890.31	-2,905.02	4,097.93	0.00	0.00	0.00
11,500.00	90.00	314.85	7,507.00	2,960.85	-2,975.90	4,197.93	0.00	0.00	0.00
11,600.00	90.00	314.85	7,507.00	3,031.38	-3,046.79	4,297.93	0.00	0.00	0.00
11,700.00	90.00	314.85	7,507.00	3,101.91	-3,117.68	4,397.93	0.00	0.00	0.00
11,800.00	90.00	314.85	7,507.00	3,172.44	-3,188.57	4,497.93	0.00	0.00	0.00
11,900.00	90.00	314.85	7,507.00	3,242.97	-3,259.46	4,597.93	0.00	0.00	0.00
12,000.00	90.00	314.85	7,507.00	3,313.50	-3,330.35	4,697.93	0.00	0.00	0.00
12,100.00	90.00	314.85	7,507.00	3,384.03	-3,401.24	4,797.93	0.00	0.00	0.00
12,200.00	90.00	314.85	7,507.00	3,454.56	-3,472.13	4,897.93	0.00	0.00	0.00
12,300.00	90.00	314.85	7,507.00	3,525.09	-3,543.02	4,997.93	0.00	0.00	0.00
12,400.00	90.00	314.85	7,507.00	3,595.63	-3,613.91	5,097.93	0.00	0.00	0.00
12,500.00	90.00	314.85	7,507.00	3,666.16	-3,684.80	5,197.93	0.00	0.00	0.00
12,600.00	90.00	314.85	7,507.00	3,736.69	-3,755.69	5,297.93	0.00	0.00	0.00
12,700.00	90.00	314.85	7,507.00	3,807.22	-3,826.58	5,397.93	0.00	0.00	0.00
12,800.00	90.00	314.85	7,507.00	3,877.75	-3,897.47	5,497.93	0.00	0.00	0.00
12,900.00	90.00	314.85	7,507.00	3,948.28	-3,968.36	5,597.93	0.00	0.00	0.00
13,000.00	90.00	314.85	7,507.00	4,018.81	-4,039.25	5,697.93	0.00	0.00	0.00
13,100.00	90.00	314.85	7,507.00	4,089.34	-4,110.14	5,797.93	0.00	0.00	0.00
13,184.31	90.00	314.85	7,507.00	4,148.81	-4,169.91	5,882.24	0.00	0.00	0.00
Critter Creek 15-19H (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									
Critter Creek 15-19H (0.00	0.00	7,507.00	4,148.81	-4,169.91	577,205.31	2,281,194.96	40° 54' 48.229 N	104° 28' 57.580 W
- plan hits target center									
- Point									

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Critter Creek 15-19H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5311.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5311.00ft (TBD)
Site:	Critter Creek 15-19H	North Reference:	True
Well:	Critter Creek 15-19H	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 (")
1,450.00	1,450.00	9-5/8"	9-5/8	13-1/2
7,779.54	7,507.00	7"	7	8-3/4
13,184.31	7,507.00	4 1/2"	4-1/2	6