

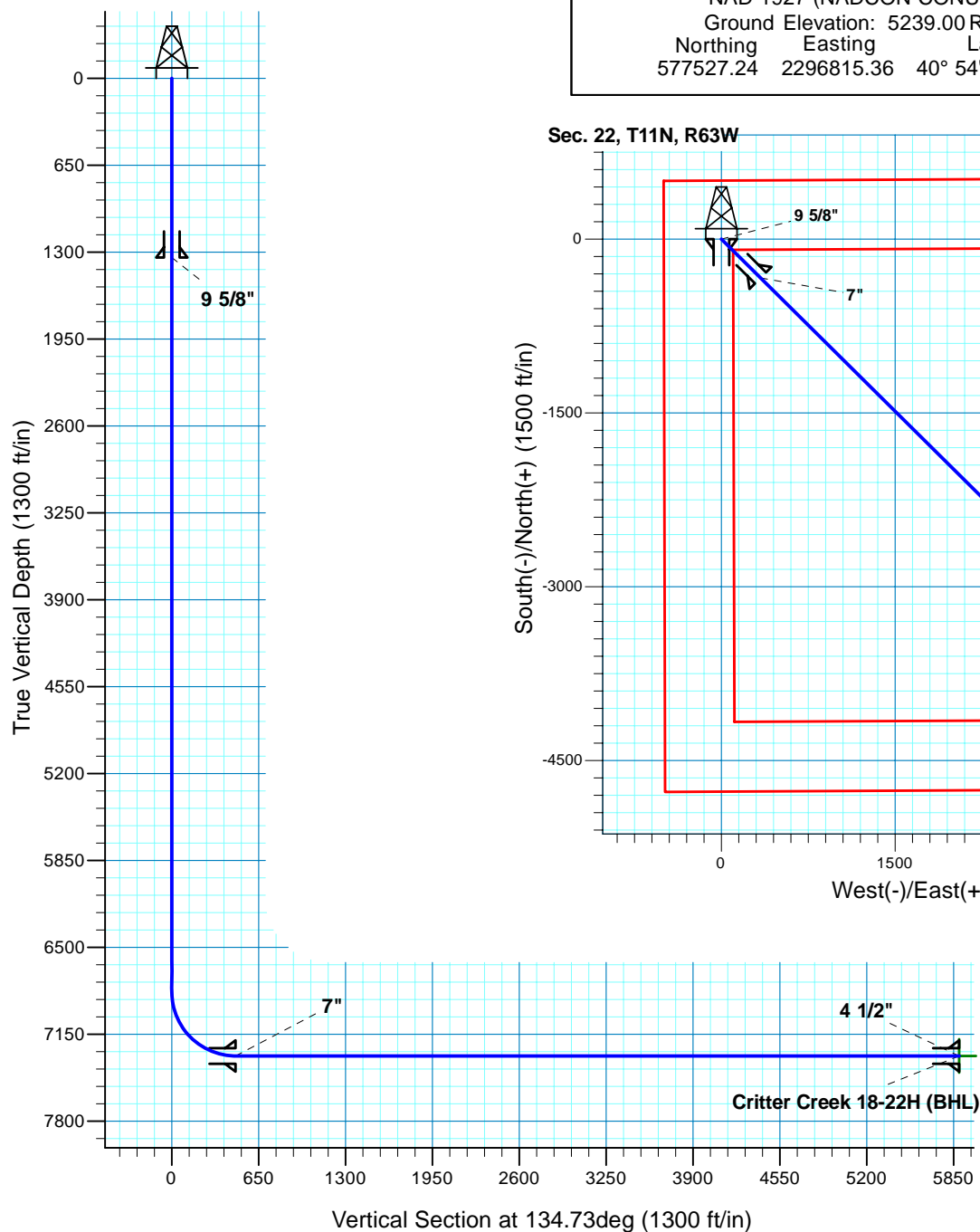
Critter Creek 18-22H

Section 22 T11N R63W
Weld County, CO



Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 5239.00 Rig @ 5264.00ft (TBD)
Northing Easting Latitude Longitude
577527.24 2296815.36 40° 54' 49.590 N 104° 25' 34.100 W



Azimuths to True North
Magnetic North: 8.88°
Magnetic Field
Strength: 53602.3nT
Dip Angle: 67.58°
Date: 12/31/2009
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Critter Creek 18-22H
Well: Critter Creek 18-22H
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	6834.53	0.00	0.00	6834.53	0.00	0.00	0.00	0.00	0.00	
3	7584.54	90.00	134.73	7312.00	-336.04	339.19	12.00	134.73	477.47	
4	12998.40	90.00	134.73	7312.00	-4146.27	4185.24	0.00	0.00	5891.33	Critter Creek 18-22H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Critter Creek 18-22H (BHL)	7312.00	-4146.27	4185.24	573431.96	2301050.50	40° 54' 8.618 N	104° 24' 39.600 W	Point

Denver Division- Colorado

DJ - Hereford Ranch

Critter Creek 18-22H

Critter Creek 18-22H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

23 April, 2010

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Critter Creek 18-22H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5264.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5264.00ft (TBD)
Site:	Critter Creek 18-22H	North Reference:	True
Well:	Critter Creek 18-22H	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 18-22H		
Site Position:		Northing:	577,527.24 ft
From:	Lat/Long	Easting:	2,296,815.36 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 54' 49.590 N
		Longitude:	104° 25' 34.100 W
		Grid Convergence:	0.69 deg

Well	Critter Creek 18-22H		
Well Position	+N/-S	0.00 ft	Northing: 577,527.24 ft
	+E/-W	0.00 ft	Easting: 2,296,815.36 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 54' 49.590 N
		Longitude:	104° 25' 34.100 W
		Ground Level:	5,239.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	12/31/2009	8.88	67.58	53,602

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	134.73

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	
6,834.53	0.00	0.00	6,834.53	0.00	0.00	0.00	0.00	0.00	0.00	
7,584.54	90.00	134.73	7,312.00	-336.04	339.19	12.00	12.00	0.00	134.73	
12,998.40	90.00	134.73	7,312.00	-4,146.27	4,185.24	0.00	0.00	0.00	0.00	Critter Creek 18-22H

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Critter Creek 18-22H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5264.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5264.00ft (TBD)
Site:	Critter Creek 18-22H	North Reference:	True
Well:	Critter Creek 18-22H	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
1,340.00	0.00	0.00	1,340.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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

Database:	EDM	Local Co-ordinate Reference:	Well Critter Creek 18-22H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5264.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5264.00ft (TBD)
Site:	Critter Creek 18-22H	North Reference:	True
Well:	Critter Creek 18-22H	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
6,834.53	0.00	0.00	6,834.53	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	7.86	134.73	6,899.80	-3.15	3.18	4.48	12.00	12.00	0.00
7,000.00	19.86	134.73	6,996.71	-19.98	20.17	28.39	12.00	12.00	0.00
7,100.00	31.86	134.73	7,086.53	-50.61	51.09	71.92	12.00	12.00	0.00
7,200.00	43.86	134.73	7,165.34	-93.73	94.61	133.17	12.00	12.00	0.00
7,300.00	55.86	134.73	7,229.70	-147.43	148.81	209.47	12.00	12.00	0.00
7,400.00	67.86	134.73	7,276.78	-209.37	211.34	297.49	12.00	12.00	0.00
7,500.00	79.86	134.73	7,304.54	-276.85	279.45	393.37	12.00	12.00	0.00
7,584.54	90.00	134.73	7,312.00	-336.04	339.20	477.47	12.00	12.00	0.00
7"									
7,600.00	90.00	134.73	7,312.00	-346.92	350.18	492.93	0.00	0.00	0.00
7,700.00	90.00	134.73	7,312.00	-417.30	421.22	592.93	0.00	0.00	0.00
7,800.00	90.00	134.73	7,312.00	-487.68	492.26	692.93	0.00	0.00	0.00
7,900.00	90.00	134.73	7,312.00	-558.06	563.30	792.93	0.00	0.00	0.00
8,000.00	90.00	134.73	7,312.00	-628.44	634.34	892.93	0.00	0.00	0.00
8,100.00	90.00	134.73	7,312.00	-698.82	705.38	992.93	0.00	0.00	0.00
8,200.00	90.00	134.73	7,312.00	-769.20	776.42	1,092.93	0.00	0.00	0.00
8,300.00	90.00	134.73	7,312.00	-839.57	847.47	1,192.93	0.00	0.00	0.00
8,400.00	90.00	134.73	7,312.00	-909.95	918.51	1,292.93	0.00	0.00	0.00
8,500.00	90.00	134.73	7,312.00	-980.33	989.55	1,392.93	0.00	0.00	0.00
8,600.00	90.00	134.73	7,312.00	-1,050.71	1,060.59	1,492.93	0.00	0.00	0.00
8,700.00	90.00	134.73	7,312.00	-1,121.09	1,131.63	1,592.93	0.00	0.00	0.00
8,800.00	90.00	134.73	7,312.00	-1,191.47	1,202.67	1,692.93	0.00	0.00	0.00
8,900.00	90.00	134.73	7,312.00	-1,261.85	1,273.71	1,792.93	0.00	0.00	0.00
9,000.00	90.00	134.73	7,312.00	-1,332.23	1,344.75	1,892.93	0.00	0.00	0.00
9,100.00	90.00	134.73	7,312.00	-1,402.61	1,415.79	1,992.93	0.00	0.00	0.00
9,200.00	90.00	134.73	7,312.00	-1,472.99	1,486.83	2,092.93	0.00	0.00	0.00
9,300.00	90.00	134.73	7,312.00	-1,543.37	1,557.87	2,192.93	0.00	0.00	0.00
9,400.00	90.00	134.73	7,312.00	-1,613.75	1,628.91	2,292.93	0.00	0.00	0.00
9,500.00	90.00	134.73	7,312.00	-1,684.12	1,699.95	2,392.93	0.00	0.00	0.00
9,600.00	90.00	134.73	7,312.00	-1,754.50	1,770.99	2,492.93	0.00	0.00	0.00
9,700.00	90.00	134.73	7,312.00	-1,824.88	1,842.03	2,592.93	0.00	0.00	0.00
9,800.00	90.00	134.73	7,312.00	-1,895.26	1,913.07	2,692.93	0.00	0.00	0.00
9,900.00	90.00	134.73	7,312.00	-1,965.64	1,984.12	2,792.93	0.00	0.00	0.00
10,000.00	90.00	134.73	7,312.00	-2,036.02	2,055.16	2,892.93	0.00	0.00	0.00

EOG Resources Inc

Planning Report

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Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5264.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5264.00ft (TBD)
Site:	Critter Creek 18-22H	North Reference:	True
Well:	Critter Creek 18-22H	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	134.73	7,312.00	-2,106.40	2,126.20	2,992.93	0.00	0.00	0.00
10,200.00	90.00	134.73	7,312.00	-2,176.78	2,197.24	3,092.93	0.00	0.00	0.00
10,300.00	90.00	134.73	7,312.00	-2,247.16	2,268.28	3,192.93	0.00	0.00	0.00
10,400.00	90.00	134.73	7,312.00	-2,317.54	2,339.32	3,292.93	0.00	0.00	0.00
10,500.00	90.00	134.73	7,312.00	-2,387.92	2,410.36	3,392.93	0.00	0.00	0.00
10,600.00	90.00	134.73	7,312.00	-2,458.30	2,481.40	3,492.93	0.00	0.00	0.00
10,700.00	90.00	134.73	7,312.00	-2,528.67	2,552.44	3,592.93	0.00	0.00	0.00
10,800.00	90.00	134.73	7,312.00	-2,599.05	2,623.48	3,692.93	0.00	0.00	0.00
10,900.00	90.00	134.73	7,312.00	-2,669.43	2,694.52	3,792.93	0.00	0.00	0.00
11,000.00	90.00	134.73	7,312.00	-2,739.81	2,765.56	3,892.93	0.00	0.00	0.00
11,100.00	90.00	134.73	7,312.00	-2,810.19	2,836.60	3,992.93	0.00	0.00	0.00
11,200.00	90.00	134.73	7,312.00	-2,880.57	2,907.64	4,092.93	0.00	0.00	0.00
11,300.00	90.00	134.73	7,312.00	-2,950.95	2,978.68	4,192.93	0.00	0.00	0.00
11,400.00	90.00	134.73	7,312.00	-3,021.33	3,049.72	4,292.93	0.00	0.00	0.00
11,500.00	90.00	134.73	7,312.00	-3,091.71	3,120.77	4,392.93	0.00	0.00	0.00
11,600.00	90.00	134.73	7,312.00	-3,162.09	3,191.81	4,492.93	0.00	0.00	0.00
11,700.00	90.00	134.73	7,312.00	-3,232.47	3,262.85	4,592.93	0.00	0.00	0.00
11,800.00	90.00	134.73	7,312.00	-3,302.85	3,333.89	4,692.93	0.00	0.00	0.00
11,900.00	90.00	134.73	7,312.00	-3,373.22	3,404.93	4,792.93	0.00	0.00	0.00
12,000.00	90.00	134.73	7,312.00	-3,443.60	3,475.97	4,892.93	0.00	0.00	0.00
12,100.00	90.00	134.73	7,312.00	-3,513.98	3,547.01	4,992.93	0.00	0.00	0.00
12,200.00	90.00	134.73	7,312.00	-3,584.36	3,618.05	5,092.93	0.00	0.00	0.00
12,300.00	90.00	134.73	7,312.00	-3,654.74	3,689.09	5,192.93	0.00	0.00	0.00
12,400.00	90.00	134.73	7,312.00	-3,725.12	3,760.13	5,292.93	0.00	0.00	0.00
12,500.00	90.00	134.73	7,312.00	-3,795.50	3,831.17	5,392.93	0.00	0.00	0.00
12,600.00	90.00	134.73	7,312.00	-3,865.88	3,902.21	5,492.93	0.00	0.00	0.00
12,700.00	90.00	134.73	7,312.00	-3,936.26	3,973.25	5,592.93	0.00	0.00	0.00
12,800.00	90.00	134.73	7,312.00	-4,006.64	4,044.29	5,692.93	0.00	0.00	0.00
12,900.00	90.00	134.73	7,312.00	-4,077.02	4,115.33	5,792.93	0.00	0.00	0.00
12,998.40	90.00	134.73	7,312.00	-4,146.27	4,185.24	5,891.33	0.00	0.00	0.00
4 1/2"									

Targets									
Target Name	- hit/miss target	Dip Angle (deg)	Dip Dir. (deg)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	
	- Shape								Latitude Longitude
Critter Creek 18-22H (- plan hits target center	0.00	0.00	7,312.00	-4,146.27	4,185.24	573,431.96	2,301,050.50	40° 54' 8.618 N 104° 24' 39.600 W
	- Point								

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,340.00	1,340.00	9 5/8"	9-5/8	12-1/4	
7,584.54	7,312.00	7"	7	8-3/4	
12,998.40	7,312.00	4 1/2"	4-1/2	6-1/4	

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Critter Creek 18-22H
Company:	Denver Division- Colorado	TVD Reference:	Rig @ 5264.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	Rig @ 5264.00ft (TBD)
Site:	Critter Creek 18-22H	North Reference:	True
Well:	Critter Creek 18-22H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		