

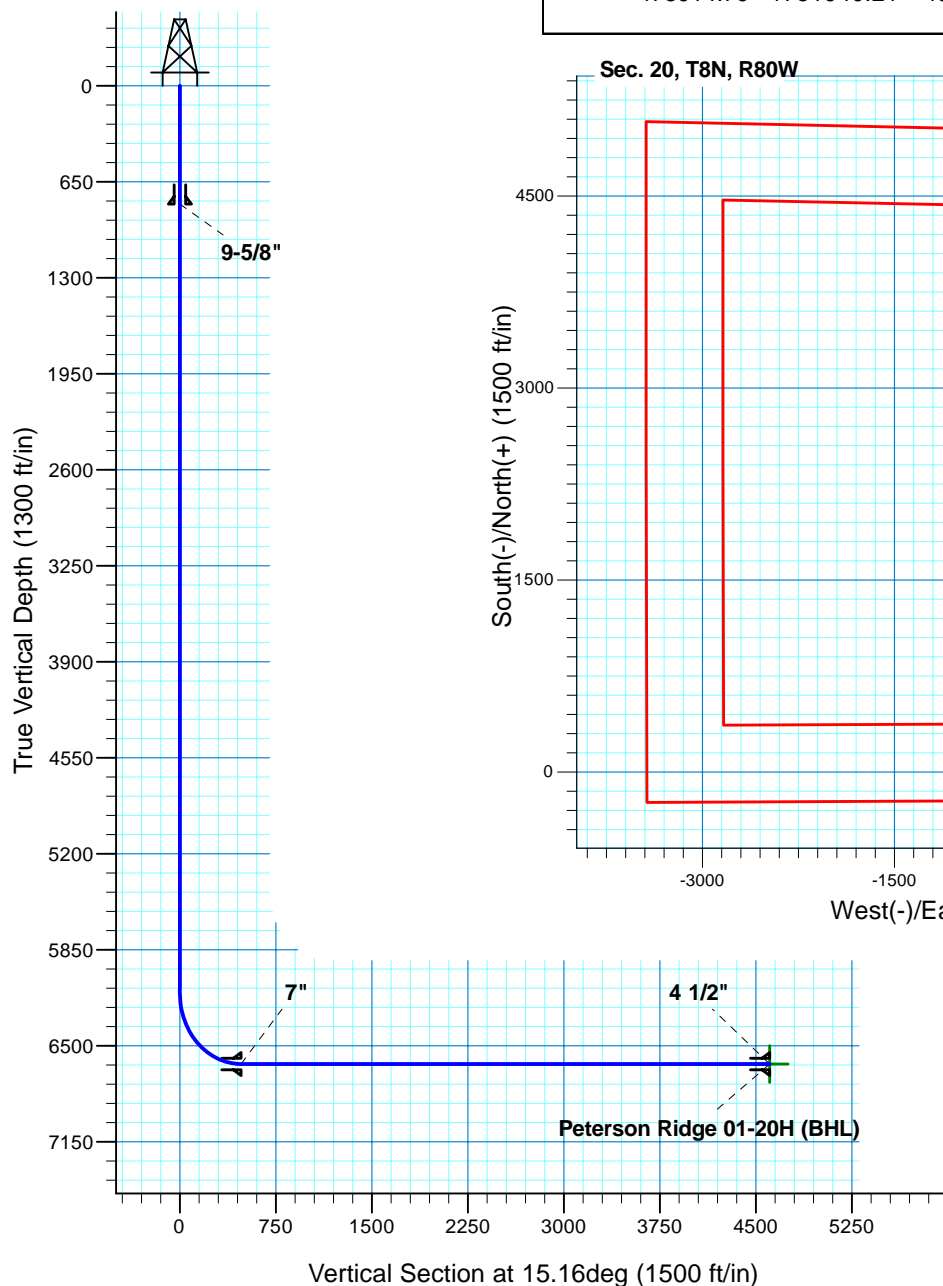
Peterson Ridge 01-20H

Section 20 T8N R80W

Jackson County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 8115.00 RIG @ 8137.00ft
Northing Easting Latitude Longitude
478914.79 1751940.21 40° 38' 40.589 N 106° 23' 37.979 W



T M
Azimuths to True North
Magnetic North: 9.67°
Magnetic Field
Strength: 53056.1nT
Dip Angle: 66.97°
Date: 8/24/2011
Model: IGRF200510

Project: Northpark
Site: Peterson Ridge 01-20H
Well: Peterson Ridge 01-20H
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	6145.53	0.00	0.00	6145.53	0.00	0.00	0.00	0.00	0.00	
3	6895.54	90.00	15.16	6623.00	460.86	124.83	12.00	15.16	477.47	
4	11025.16	90.00	15.16	6623.00	4446.86	1204.47	0.00	0.00	4607.09	Peterson Ridge 01-20H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Peterson Ridge 01-20H (BHL)	6623.00	4446.86	1204.47	483349.27	1753189.44	40° 39' 24.530 N	106° 23' 22.351 W	

Denver Division- Colorado

Northpark

Peterson Ridge 01-20H

Peterson Ridge 01-20H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

24 August, 2011

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Peterson Ridge 01-20H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 8137.00ft
Project:	Northpark	MD Reference:	RIG @ 8137.00ft
Site:	Peterson Ridge 01-20H	North Reference:	True
Well:	Peterson Ridge 01-20H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD Directional Plan		

Project	Northpark, Jackson 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		Peterson Ridge 01-20H			
Site Position:		Northing:	478,914.79 ft	Latitude:	40° 38' 40.589 N
From:	Lat/Long	Easting:	1,751,940.21 ft	Longitude:	106° 23' 37.979 W
Position Uncertainty:	0.00 ft	Slot Radius:	"	Grid Convergence:	-0.58 deg

Well	Peterson Ridge 01-20H					
Well Position	+N-S	0.00 ft	Northing:	478,914.79 ft	Latitude:	40° 38' 40.589 N
	+E-W	0.00 ft	Easting:	1,751,940.21 ft	Longitude:	106° 23' 37.979 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	8,115.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	8/24/2011	9.67	66.97	53,056

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	15.16

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	
6,145.53	0.00	0.00	6,145.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,895.54	90.00	15.16	6,623.00	460.86	124.83	12.00	12.00	0.00	15.16	
11,025.16	90.00	15.16	6,623.00	4,446.86	1,204.47	0.00	0.00	0.00	0.00	Peterson Ridge 01-

EOG Resources Inc

Planning Report

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Company:	Denver Division- Colorado	TVD Reference:	RIG @ 8137.00ft
Project:	Northpark	MD Reference:	RIG @ 8137.00ft
Site:	Peterson Ridge 01-20H	North Reference:	True
Well:	Peterson Ridge 01-20H	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
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

Database:	EDM	Local Co-ordinate Reference:	Well Peterson Ridge 01-20H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 8137.00ft
Project:	Northpark	MD Reference:	RIG @ 8137.00ft
Site:	Peterson Ridge 01-20H	North Reference:	True
Well:	Peterson Ridge 01-20H	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)
5,300.00	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
6,145.53	0.00	0.00	6,145.53	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	6.54	15.16	6,199.88	3.00	0.81	3.10	12.00	12.00	0.00
6,300.00	18.54	15.16	6,297.32	23.91	6.48	24.77	12.00	12.00	0.00
6,400.00	30.54	15.16	6,388.12	63.92	17.31	66.22	12.00	12.00	0.00
6,500.00	42.54	15.16	6,468.33	121.27	32.85	125.64	12.00	12.00	0.00
6,600.00	54.54	15.16	6,534.42	193.47	52.40	200.44	12.00	12.00	0.00
6,700.00	66.54	15.16	6,583.52	277.36	75.12	287.35	12.00	12.00	0.00
6,800.00	78.54	15.16	6,613.47	369.26	100.02	382.57	12.00	12.00	0.00
6,895.54	90.00	15.16	6,623.00	460.86	124.83	477.47	12.00	12.00	0.00
7"									
6,900.00	90.00	15.16	6,623.00	465.17	125.99	481.93	0.00	0.00	0.00
7,000.00	90.00	15.16	6,623.00	561.69	152.14	581.93	0.00	0.00	0.00
7,100.00	90.00	15.16	6,623.00	658.21	178.28	681.93	0.00	0.00	0.00
7,200.00	90.00	15.16	6,623.00	754.73	204.43	781.93	0.00	0.00	0.00
7,300.00	90.00	15.16	6,623.00	851.26	230.57	881.93	0.00	0.00	0.00
7,400.00	90.00	15.16	6,623.00	947.78	256.71	981.93	0.00	0.00	0.00
7,500.00	90.00	15.16	6,623.00	1,044.30	282.86	1,081.93	0.00	0.00	0.00
7,600.00	90.00	15.16	6,623.00	1,140.82	309.00	1,181.93	0.00	0.00	0.00
7,700.00	90.00	15.16	6,623.00	1,237.34	335.14	1,281.93	0.00	0.00	0.00
7,800.00	90.00	15.16	6,623.00	1,333.87	361.29	1,381.93	0.00	0.00	0.00
7,900.00	90.00	15.16	6,623.00	1,430.39	387.43	1,481.93	0.00	0.00	0.00
8,000.00	90.00	15.16	6,623.00	1,526.91	413.58	1,581.93	0.00	0.00	0.00
8,100.00	90.00	15.16	6,623.00	1,623.43	439.72	1,681.93	0.00	0.00	0.00
8,200.00	90.00	15.16	6,623.00	1,719.96	465.86	1,781.93	0.00	0.00	0.00
8,300.00	90.00	15.16	6,623.00	1,816.48	492.01	1,881.93	0.00	0.00	0.00
8,400.00	90.00	15.16	6,623.00	1,913.00	518.15	1,981.93	0.00	0.00	0.00
8,500.00	90.00	15.16	6,623.00	2,009.52	544.30	2,081.93	0.00	0.00	0.00
8,600.00	90.00	15.16	6,623.00	2,106.04	570.44	2,181.93	0.00	0.00	0.00
8,700.00	90.00	15.16	6,623.00	2,202.57	596.58	2,281.93	0.00	0.00	0.00
8,800.00	90.00	15.16	6,623.00	2,299.09	622.73	2,381.93	0.00	0.00	0.00
8,900.00	90.00	15.16	6,623.00	2,395.61	648.87	2,481.93	0.00	0.00	0.00
9,000.00	90.00	15.16	6,623.00	2,492.13	675.01	2,581.93	0.00	0.00	0.00
9,100.00	90.00	15.16	6,623.00	2,588.65	701.16	2,681.93	0.00	0.00	0.00
9,200.00	90.00	15.16	6,623.00	2,685.18	727.30	2,781.93	0.00	0.00	0.00
9,300.00	90.00	15.16	6,623.00	2,781.70	753.45	2,881.93	0.00	0.00	0.00
9,400.00	90.00	15.16	6,623.00	2,878.22	779.59	2,981.93	0.00	0.00	0.00
9,500.00	90.00	15.16	6,623.00	2,974.74	805.73	3,081.93	0.00	0.00	0.00
9,600.00	90.00	15.16	6,623.00	3,071.26	831.88	3,181.93	0.00	0.00	0.00
9,700.00	90.00	15.16	6,623.00	3,167.79	858.02	3,281.93	0.00	0.00	0.00
9,800.00	90.00	15.16	6,623.00	3,264.31	884.16	3,381.93	0.00	0.00	0.00
9,900.00	90.00	15.16	6,623.00	3,360.83	910.31	3,481.93	0.00	0.00	0.00
10,000.00	90.00	15.16	6,623.00	3,457.35	936.45	3,581.93	0.00	0.00	0.00
10,100.00	90.00	15.16	6,623.00	3,553.87	962.60	3,681.93	0.00	0.00	0.00
10,200.00	90.00	15.16	6,623.00	3,650.40	988.74	3,781.93	0.00	0.00	0.00

EOG Resources Inc

Planning Report

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Company:	Denver Division- Colorado	TVD Reference:	RIG @ 8137.00ft
Project:	Northpark	MD Reference:	RIG @ 8137.00ft
Site:	Peterson Ridge 01-20H	North Reference:	True
Well:	Peterson Ridge 01-20H	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)
10,300.00	90.00	15.16	6,623.00	3,746.92	1,014.88	3,881.93	0.00	0.00	0.00
10,400.00	90.00	15.16	6,623.00	3,843.44	1,041.03	3,981.93	0.00	0.00	0.00
10,500.00	90.00	15.16	6,623.00	3,939.96	1,067.17	4,081.93	0.00	0.00	0.00
10,600.00	90.00	15.16	6,623.00	4,036.48	1,093.31	4,181.93	0.00	0.00	0.00
10,700.00	90.00	15.16	6,623.00	4,133.01	1,119.46	4,281.93	0.00	0.00	0.00
10,800.00	90.00	15.16	6,623.00	4,229.53	1,145.60	4,381.93	0.00	0.00	0.00
10,900.00	90.00	15.16	6,623.00	4,326.05	1,171.75	4,481.93	0.00	0.00	0.00
11,000.00	90.00	15.16	6,623.00	4,422.57	1,197.89	4,581.93	0.00	0.00	0.00
11,025.16	90.00	15.16	6,623.00	4,446.86	1,204.47	4,607.09	0.00	0.00	0.00
4 1/2" - Peterson Ridge 01-20H (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									
Peterson Ridge 01-20	0.00	0.00	6,623.00	4,446.86	1,204.47	483,349.27	1,753,189.44	40° 39' 24.530 N	106° 23' 22.351 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	
6,895.54	6,623.00	7"	7	8-3/4	
11,025.16	6,623.00	4 1/2"	4-1/2	6	