

Denver Division- Colorado

DJ - Hereford Ranch

Snow Draw 11-18H

Snow Draw 11-18H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

28 March, 2011

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Snow Draw 11-18H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4964.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4964.00ft (TBD)
Site:	Snow Draw 11-18H	North Reference:	True
Well:	Snow Draw 11-18H	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	Snow Draw 11-18H		
Site Position:		Northing:	484,919.14 ft
From:	Lat/Long	Easting:	2,381,151.35 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 39' 23.101 N
		Longitude:	104° 7' 34.500 W
		Grid Convergence:	0.89 deg

Well	Snow Draw 11-18H					
Well Position	+N-S	0.00 ft	Northing:	484,919.14 ft	Latitude:	40° 39' 23.101 N
	+E-W	0.00 ft	Easting:	2,381,151.35 ft	Longitude:	104° 7' 34.500 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,942.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	3/28/2011	8.52	67.38	53,374

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	333.72	

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	
5,909.53	0.00	0.00	5,909.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,659.54	90.00	333.72	6,387.00	428.11	-211.42	12.00	12.00	0.00	333.72	
10,828.87	90.00	333.72	6,387.00	4,166.41	-2,057.61	0.00	0.00	0.00	0.00	Snow Draw 11-18H

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Site:	Snow Draw 11-18H	North Reference:	True
Well:	Snow Draw 11-18H	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

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Site:	Snow Draw 11-18H	North Reference:	True
Well:	Snow Draw 11-18H	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)
5,200.00	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
5,909.53	0.00	0.00	5,909.53	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	10.86	333.72	5,999.46	7.66	-3.78	8.54	12.00	12.00	0.00
6,100.00	22.86	333.72	6,094.99	33.61	-16.60	37.49	12.00	12.00	0.00
6,200.00	34.86	333.72	6,182.41	76.81	-37.93	85.66	12.00	12.00	0.00
6,300.00	46.86	333.72	6,257.91	135.35	-66.84	150.96	12.00	12.00	0.00
6,400.00	58.86	333.72	6,318.18	206.69	-102.08	230.52	12.00	12.00	0.00
6,500.00	70.86	333.72	6,360.59	287.71	-142.09	320.88	12.00	12.00	0.00
6,600.00	82.86	333.72	6,383.29	374.86	-185.13	418.08	12.00	12.00	0.00
6,659.54	90.00	333.72	6,387.00	428.11	-211.42	477.47	12.00	12.00	0.00
7"									
6,700.00	90.00	333.72	6,387.00	464.39	-229.34	517.93	0.00	0.00	0.00
6,800.00	90.00	333.72	6,387.00	554.05	-273.62	617.93	0.00	0.00	0.00
6,900.00	90.00	333.72	6,387.00	643.71	-317.90	717.93	0.00	0.00	0.00
7,000.00	90.00	333.72	6,387.00	733.37	-362.18	817.93	0.00	0.00	0.00
7,100.00	90.00	333.72	6,387.00	823.03	-406.46	917.93	0.00	0.00	0.00
7,200.00	90.00	333.72	6,387.00	912.70	-450.74	1,017.93	0.00	0.00	0.00
7,300.00	90.00	333.72	6,387.00	1,002.36	-495.02	1,117.93	0.00	0.00	0.00
7,400.00	90.00	333.72	6,387.00	1,092.02	-539.30	1,217.93	0.00	0.00	0.00
7,500.00	90.00	333.72	6,387.00	1,181.68	-583.58	1,317.93	0.00	0.00	0.00
7,600.00	90.00	333.72	6,387.00	1,271.34	-627.86	1,417.93	0.00	0.00	0.00
7,700.00	90.00	333.72	6,387.00	1,361.01	-672.14	1,517.93	0.00	0.00	0.00
7,800.00	90.00	333.72	6,387.00	1,450.67	-716.42	1,617.93	0.00	0.00	0.00
7,900.00	90.00	333.72	6,387.00	1,540.33	-760.70	1,717.93	0.00	0.00	0.00
8,000.00	90.00	333.72	6,387.00	1,629.99	-804.98	1,817.93	0.00	0.00	0.00
8,100.00	90.00	333.72	6,387.00	1,719.65	-849.26	1,917.93	0.00	0.00	0.00
8,200.00	90.00	333.72	6,387.00	1,809.32	-893.54	2,017.93	0.00	0.00	0.00
8,300.00	90.00	333.72	6,387.00	1,898.98	-937.82	2,117.93	0.00	0.00	0.00
8,400.00	90.00	333.72	6,387.00	1,988.64	-982.10	2,217.93	0.00	0.00	0.00
8,500.00	90.00	333.72	6,387.00	2,078.30	-1,026.38	2,317.93	0.00	0.00	0.00
8,600.00	90.00	333.72	6,387.00	2,167.96	-1,070.66	2,417.93	0.00	0.00	0.00
8,700.00	90.00	333.72	6,387.00	2,257.63	-1,114.94	2,517.93	0.00	0.00	0.00
8,800.00	90.00	333.72	6,387.00	2,347.29	-1,159.22	2,617.93	0.00	0.00	0.00
8,900.00	90.00	333.72	6,387.00	2,436.95	-1,203.50	2,717.93	0.00	0.00	0.00
9,000.00	90.00	333.72	6,387.00	2,526.61	-1,247.78	2,817.93	0.00	0.00	0.00
9,100.00	90.00	333.72	6,387.00	2,616.27	-1,292.06	2,917.93	0.00	0.00	0.00
9,200.00	90.00	333.72	6,387.00	2,705.94	-1,336.34	3,017.93	0.00	0.00	0.00
9,300.00	90.00	333.72	6,387.00	2,795.60	-1,380.62	3,117.93	0.00	0.00	0.00
9,400.00	90.00	333.72	6,387.00	2,885.26	-1,424.90	3,217.93	0.00	0.00	0.00
9,500.00	90.00	333.72	6,387.00	2,974.92	-1,469.18	3,317.93	0.00	0.00	0.00
9,600.00	90.00	333.72	6,387.00	3,064.58	-1,513.46	3,417.93	0.00	0.00	0.00
9,700.00	90.00	333.72	6,387.00	3,154.25	-1,557.75	3,517.93	0.00	0.00	0.00
9,800.00	90.00	333.72	6,387.00	3,243.91	-1,602.03	3,617.93	0.00	0.00	0.00
9,900.00	90.00	333.72	6,387.00	3,333.57	-1,646.31	3,717.93	0.00	0.00	0.00
10,000.00	90.00	333.72	6,387.00	3,423.23	-1,690.59	3,817.93	0.00	0.00	0.00
10,100.00	90.00	333.72	6,387.00	3,512.89	-1,734.87	3,917.93	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Snow Draw 11-18H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 4964.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 4964.00ft (TBD)
Site:	Snow Draw 11-18H	North Reference:	True
Well:	Snow Draw 11-18H	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)
10,200.00	90.00	333.72	6,387.00	3,602.55	-1,779.15	4,017.93	0.00	0.00	0.00
10,300.00	90.00	333.72	6,387.00	3,692.22	-1,823.43	4,117.93	0.00	0.00	0.00
10,400.00	90.00	333.72	6,387.00	3,781.88	-1,867.71	4,217.93	0.00	0.00	0.00
10,500.00	90.00	333.72	6,387.00	3,871.54	-1,911.99	4,317.93	0.00	0.00	0.00
10,600.00	90.00	333.72	6,387.00	3,961.20	-1,956.27	4,417.93	0.00	0.00	0.00
10,700.00	90.00	333.72	6,387.00	4,050.86	-2,000.55	4,517.93	0.00	0.00	0.00
10,800.00	90.00	333.72	6,387.00	4,140.53	-2,044.83	4,617.93	0.00	0.00	0.00
10,828.87	90.00	333.72	6,387.00	4,166.41	-2,057.61	4,646.80	0.00	0.00	0.00
Snow Draw 11-18H (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									
Snow Draw 11-18H (E	0.00	0.00	6,387.00	4,166.41	-2,057.61	489,053.17	2,379,029.45	40° 40' 4.271 N	104° 8' 1.201 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
6,659.54	6,387.00	7"	7	8-3/4
10,828.87	6,387.00	4 1/2"	4-1/2	6

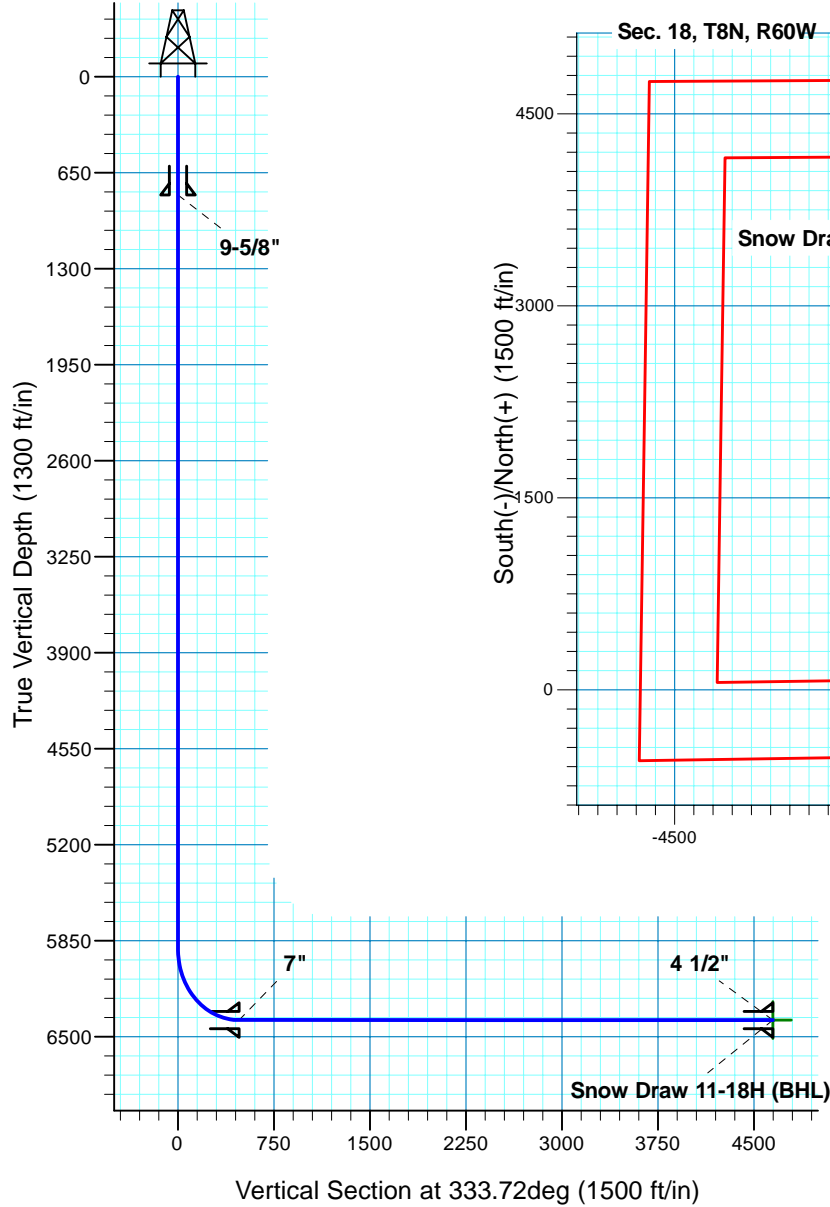
Snow Draw 11-18H

Section 18 T8N R60W

Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
Ground Elevation: 4942.00 RIG @ 4964.00ft (TBD)
Northing Easting Latitude Longitude
484919.14 2381151.35 40° 39' 23.101 N 104° 7' 34.500 W



T M
Azimuths to True North
Magnetic North: 8.52°
Magnetic Field
Strength: 53374.0snT
Dip Angle: 67.38°
Date: 3/28/2011
Model: IGRF200510

Project: DJ - Hereford Ranch
Site: Snow Draw 11-18H
Well: Snow Draw 11-18H
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	5909.53	0.00	0.00	5909.53	0.00	0.00	0.00	0.00	0.00	
3	6659.54	90.00	333.72	6387.00	428.11	-211.42	12.00	333.72	477.47	
4	10828.87	90.00	333.72	6387.00	4166.41	-2057.61	0.00	0.00	4646.80	Snow Draw 11-18H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
Snow Draw 11-18H (BHL)	6387.00	4166.41	-2057.61	489053.17	2379029.45	40° 40' 4.271 N	104° 8' 1.201 W	