

Denver Division- Colorado

DJ - Hereford Ranch

Sligo Ridge 12-13H

Sligo Ridge 12-13H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

10 February, 2011

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Sligo Ridge 12-13H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 5480.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5480.00ft (TBD)
Site:	Sligo Ridge 12-13H	North Reference:	True
Well:	Sligo Ridge 12-13H	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	Sligo Ridge 12-13H		
Site Position:		Northing:	548,515.08 ft
From:	Lat/Long	Easting:	2,403,889.51 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 49' 47.842 N
		Longitude:	104° 2' 25.940 W
		Grid Convergence:	0.94 deg

Well	Sligo Ridge 12-13H		
Well Position	+N/-S	0.00 ft	Northing: 548,515.08 ft
	+E/-W	0.00 ft	Easting: 2,403,889.51 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 49' 47.842 N
		Longitude:	104° 2' 25.940 W
		Ground Level:	5,458.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	2/10/2011	8.50	67.54	53,481

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	337.37

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	
6,272.53	0.00	0.00	6,272.53	0.00	0.00	0.00	0.00	0.00	0.00	
7,022.54	90.00	337.37	6,750.00	440.72	-183.69	12.00	12.00	0.00	337.37	
10,848.33	90.00	337.37	6,750.00	3,972.06	-1,655.54	0.00	0.00	0.00	0.00	Sligo Ridge 12-13H

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Site:	Sligo Ridge 12-13H	North Reference:	True
Well:	Sligo Ridge 12-13H	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
1,285.00	0.00	0.00	1,285.00	0.00	0.00	0.00	0.00	0.00	0.00
9-5/8"									
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

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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
6,272.53	0.00	0.00	6,272.53	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	3.30	337.37	6,299.98	0.73	-0.30	0.79	12.00	12.00	0.00
6,400.00	15.30	337.37	6,398.49	15.61	-6.51	16.91	12.00	12.00	0.00
6,500.00	27.30	337.37	6,491.49	49.07	-20.45	53.17	12.00	12.00	0.00
6,600.00	39.30	337.37	6,574.92	99.65	-41.53	107.96	12.00	12.00	0.00
6,700.00	51.30	337.37	6,645.14	165.14	-68.83	178.91	12.00	12.00	0.00
6,800.00	63.30	337.37	6,699.07	242.67	-101.14	262.90	12.00	12.00	0.00
6,900.00	75.30	337.37	6,734.36	328.85	-137.06	356.27	12.00	12.00	0.00
7,000.00	87.30	337.37	6,749.47	419.92	-175.02	454.94	12.00	12.00	0.00
7,022.54	90.00	337.37	6,750.00	440.72	-183.69	477.47	12.00	12.00	0.00
7"									
7,100.00	90.00	337.37	6,750.00	512.22	-213.49	554.93	0.00	0.00	0.00
7,200.00	90.00	337.37	6,750.00	604.52	-251.96	654.93	0.00	0.00	0.00
7,300.00	90.00	337.37	6,750.00	696.83	-290.43	754.93	0.00	0.00	0.00
7,400.00	90.00	337.37	6,750.00	789.13	-328.91	854.93	0.00	0.00	0.00
7,500.00	90.00	337.37	6,750.00	881.43	-367.38	954.93	0.00	0.00	0.00
7,600.00	90.00	337.37	6,750.00	973.74	-405.85	1,054.93	0.00	0.00	0.00
7,700.00	90.00	337.37	6,750.00	1,066.04	-444.32	1,154.93	0.00	0.00	0.00
7,800.00	90.00	337.37	6,750.00	1,158.34	-482.79	1,254.93	0.00	0.00	0.00
7,900.00	90.00	337.37	6,750.00	1,250.65	-521.26	1,354.93	0.00	0.00	0.00
8,000.00	90.00	337.37	6,750.00	1,342.95	-559.74	1,454.93	0.00	0.00	0.00
8,100.00	90.00	337.37	6,750.00	1,435.25	-598.21	1,554.93	0.00	0.00	0.00
8,200.00	90.00	337.37	6,750.00	1,527.56	-636.68	1,654.93	0.00	0.00	0.00
8,300.00	90.00	337.37	6,750.00	1,619.86	-675.15	1,754.93	0.00	0.00	0.00
8,400.00	90.00	337.37	6,750.00	1,712.16	-713.62	1,854.93	0.00	0.00	0.00
8,500.00	90.00	337.37	6,750.00	1,804.47	-752.10	1,954.93	0.00	0.00	0.00
8,600.00	90.00	337.37	6,750.00	1,896.77	-790.57	2,054.93	0.00	0.00	0.00
8,700.00	90.00	337.37	6,750.00	1,989.07	-829.04	2,154.93	0.00	0.00	0.00
8,800.00	90.00	337.37	6,750.00	2,081.38	-867.51	2,254.93	0.00	0.00	0.00
8,900.00	90.00	337.37	6,750.00	2,173.68	-905.98	2,354.93	0.00	0.00	0.00
9,000.00	90.00	337.37	6,750.00	2,265.99	-944.45	2,454.93	0.00	0.00	0.00
9,100.00	90.00	337.37	6,750.00	2,358.29	-982.93	2,554.93	0.00	0.00	0.00
9,200.00	90.00	337.37	6,750.00	2,450.59	-1,021.40	2,654.93	0.00	0.00	0.00
9,300.00	90.00	337.37	6,750.00	2,542.90	-1,059.87	2,754.93	0.00	0.00	0.00
9,400.00	90.00	337.37	6,750.00	2,635.20	-1,098.34	2,854.93	0.00	0.00	0.00
9,500.00	90.00	337.37	6,750.00	2,727.50	-1,136.81	2,954.93	0.00	0.00	0.00
9,600.00	90.00	337.37	6,750.00	2,819.81	-1,175.28	3,054.93	0.00	0.00	0.00
9,700.00	90.00	337.37	6,750.00	2,912.11	-1,213.76	3,154.93	0.00	0.00	0.00
9,800.00	90.00	337.37	6,750.00	3,004.41	-1,252.23	3,254.93	0.00	0.00	0.00
9,900.00	90.00	337.37	6,750.00	3,096.72	-1,290.70	3,354.93	0.00	0.00	0.00
10,000.00	90.00	337.37	6,750.00	3,189.02	-1,329.17	3,454.93	0.00	0.00	0.00

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Sligo Ridge 12-13H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 5480.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5480.00ft (TBD)
Site:	Sligo Ridge 12-13H	North Reference:	True
Well:	Sligo Ridge 12-13H	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	337.37	6,750.00	3,281.32	-1,367.64	3,554.93	0.00	0.00	0.00
10,200.00	90.00	337.37	6,750.00	3,373.63	-1,406.11	3,654.93	0.00	0.00	0.00
10,300.00	90.00	337.37	6,750.00	3,465.93	-1,444.59	3,754.93	0.00	0.00	0.00
10,400.00	90.00	337.37	6,750.00	3,558.23	-1,483.06	3,854.93	0.00	0.00	0.00
10,500.00	90.00	337.37	6,750.00	3,650.54	-1,521.53	3,954.93	0.00	0.00	0.00
10,600.00	90.00	337.37	6,750.00	3,742.84	-1,560.00	4,054.93	0.00	0.00	0.00
10,700.00	90.00	337.37	6,750.00	3,835.14	-1,598.47	4,154.93	0.00	0.00	0.00
10,800.00	90.00	337.37	6,750.00	3,927.45	-1,636.94	4,254.93	0.00	0.00	0.00
10,848.33	90.00	337.37	6,750.00	3,972.06	-1,655.54	4,303.26	0.00	0.00	0.00
4 1/2" - Sligo Ridge 12-13H (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									
Sligo Ridge 12-13H (E	0.00	0.00	6,750.00	3,972.06	-1,655.54	552,459.34	2,402,168.83	40° 50' 27.089 N	104° 2' 47.479 W
- plan hits target center									
- Point									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
1,285.00	1,285.00	9-5/8"	9-5/8	13-1/2
7,022.54	6,750.00	7"	7	8-3/4
10,848.33	6,750.00	4 1/2"	4-1/2	6

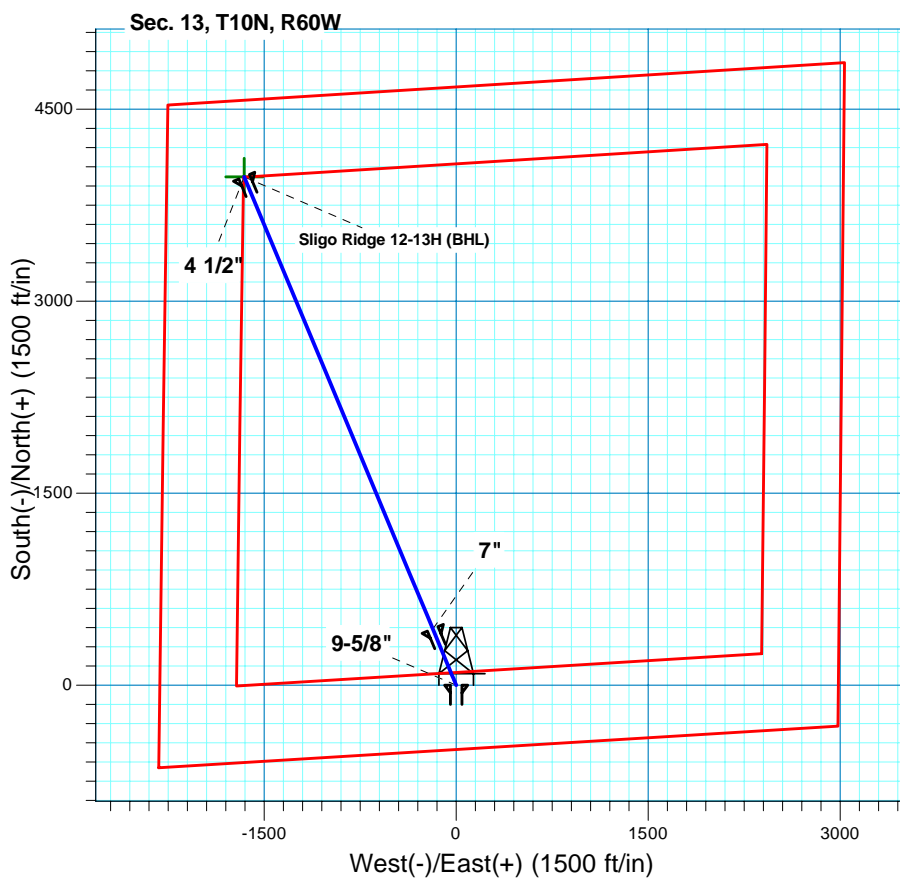
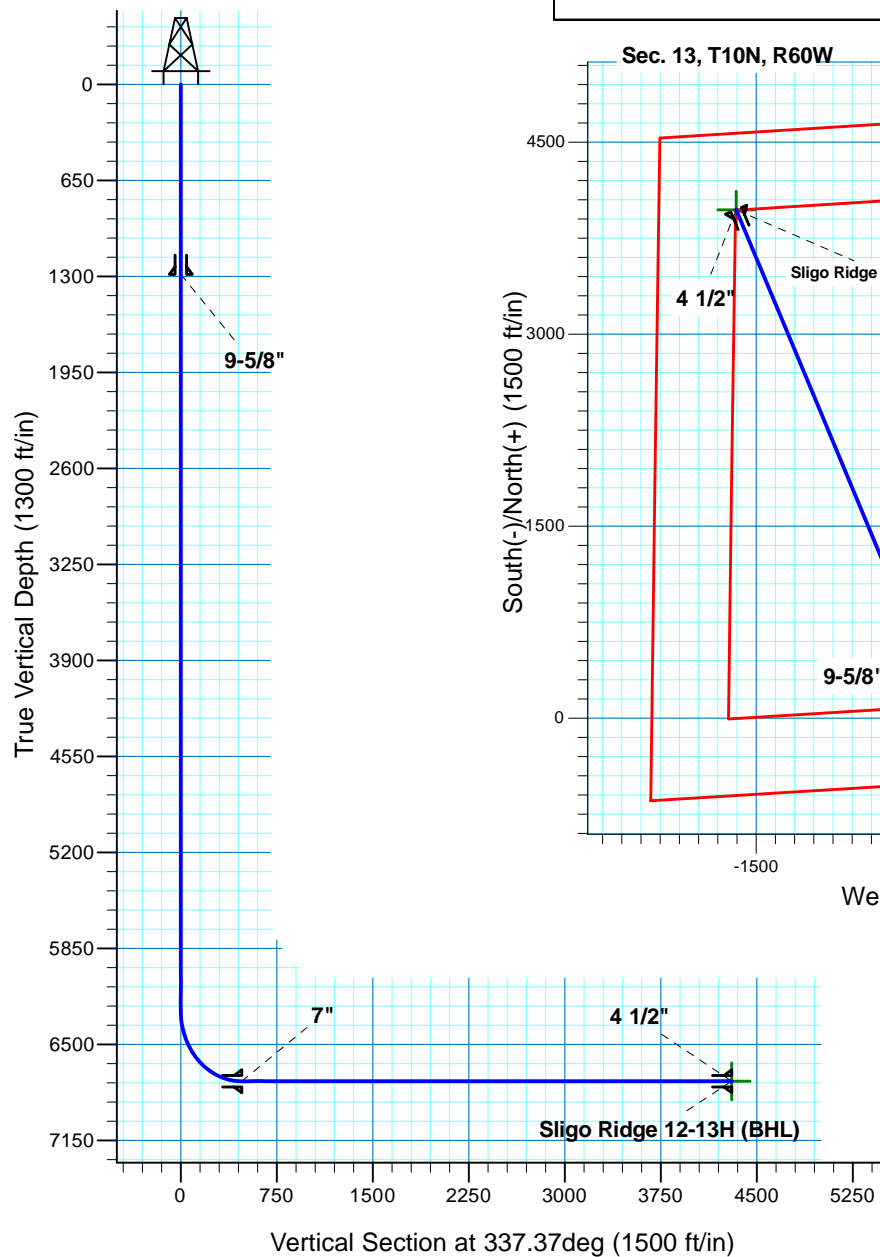
Sligo Ridge 12-13H

Section 13 T10N R60W

Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
 Ground Elevation: 5458.00 RIG @ 5480.00ft (TBD)
 Northing Easting Latitude Longitude
 548515.08 2403889.51 40° 49' 47.842 N 104° 2' 25.940 W



T M
 Azimuths to True North
 Magnetic North: 8.50°
 Magnetic Field
 Strength: 53481.1snT
 Dip Angle: 67.54°
 Date: 2/10/2011
 Model: IGRF200510

Project: DJ - Hereford Ranch
 Site: Sligo Ridge 12-13H
 Well: Sligo Ridge 12-13H
 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	6272.53	0.00	0.00	6272.53	0.00	0.00	0.00	0.00	0.00	
3	7022.54	90.00	337.37	6750.00	440.72	-183.69	12.00	337.37	477.47	
4	10848.33	90.00	337.37	6750.00	3972.06	-1655.54	0.00	0.00	4303.26	Sligo Ridge 12-13H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Sligo Ridge 12-13H (BHL)	6750.00	3972.06	-1655.54	552459.34	2402168.83	40° 50' 27.089 N	104° 2' 47.479 W	Point