

Denver Division- Colorado

DJ - Hereford Ranch

Igo Creek 04-07H

Igo Creek 04-07H

Original Wellbore

Plan: APD Directional Plan

Standard Planning Report

13 January, 2011

EOG Resources Inc

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Site Igo Creek 04-07H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 5055.00ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5055.00ft (TBD)
Site:	Igo Creek 04-07H	North Reference:	True
Well:	Igo Creek 04-07H	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	Igo Creek 04-07H		
Site Position:		Northing:	522,845.69 ft
From:	Lat/Long	Easting:	2,411,949.46 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	40° 45' 32.911 N
		Longitude:	104° 0' 46.710 W
		Grid Convergence:	0.96 deg

Well	Igo Creek 04-07H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 45' 32.911 N
		Longitude:	104° 0' 46.710 W
		Ground Level:	5,033.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (deg)	Dip Angle (deg)	Field Strength (nT)
	IGRF200510	1/13/2011	8.50	67.49	53,459

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	333.82

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	
5,808.53	0.00	0.00	5,808.53	0.00	0.00	0.00	0.00	0.00	0.00	
6,558.54	90.00	333.82	6,286.00	428.48	-210.65	12.00	12.00	0.00	333.82	
10,831.90	90.00	333.82	6,286.00	4,263.46	-2,096.02	0.00	0.00	0.00	0.00	Igo Creek 04-07H (I

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Well:	Igo Creek 04-07H	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
835.00	0.00	0.00	835.00	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

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Well:	Igo Creek 04-07H	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
5,808.53	0.00	0.00	5,808.53	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	10.98	333.82	5,899.44	7.84	-3.85	8.73	12.00	12.00	0.00
6,000.00	22.98	333.82	5,994.91	33.99	-16.71	37.88	12.00	12.00	0.00
6,100.00	34.98	333.82	6,082.23	77.39	-38.05	86.23	12.00	12.00	0.00
6,200.00	46.98	333.82	6,157.59	136.13	-66.92	151.69	12.00	12.00	0.00
6,300.00	58.98	333.82	6,217.70	207.64	-102.08	231.38	12.00	12.00	0.00
6,400.00	70.98	333.82	6,259.92	288.81	-141.99	321.83	12.00	12.00	0.00
6,500.00	82.98	333.82	6,282.42	376.09	-184.89	419.08	12.00	12.00	0.00
6,558.54	90.00	333.82	6,286.00	428.49	-210.66	477.47	12.00	12.00	0.00
7"									
6,600.00	90.00	333.82	6,286.00	465.69	-228.95	518.93	0.00	0.00	0.00
6,700.00	90.00	333.82	6,286.00	555.44	-273.07	618.93	0.00	0.00	0.00
6,800.00	90.00	333.82	6,286.00	645.18	-317.18	718.93	0.00	0.00	0.00
6,900.00	90.00	333.82	6,286.00	734.92	-361.30	818.93	0.00	0.00	0.00
7,000.00	90.00	333.82	6,286.00	824.66	-405.42	918.93	0.00	0.00	0.00
7,100.00	90.00	333.82	6,286.00	914.40	-449.54	1,018.93	0.00	0.00	0.00
7,200.00	90.00	333.82	6,286.00	1,004.14	-493.66	1,118.93	0.00	0.00	0.00
7,300.00	90.00	333.82	6,286.00	1,093.88	-537.78	1,218.93	0.00	0.00	0.00
7,400.00	90.00	333.82	6,286.00	1,183.63	-581.90	1,318.93	0.00	0.00	0.00
7,500.00	90.00	333.82	6,286.00	1,273.37	-626.02	1,418.93	0.00	0.00	0.00
7,600.00	90.00	333.82	6,286.00	1,363.11	-670.14	1,518.93	0.00	0.00	0.00
7,700.00	90.00	333.82	6,286.00	1,452.85	-714.26	1,618.93	0.00	0.00	0.00
7,800.00	90.00	333.82	6,286.00	1,542.59	-758.38	1,718.93	0.00	0.00	0.00
7,900.00	90.00	333.82	6,286.00	1,632.33	-802.49	1,818.93	0.00	0.00	0.00
8,000.00	90.00	333.82	6,286.00	1,722.07	-846.61	1,918.93	0.00	0.00	0.00
8,100.00	90.00	333.82	6,286.00	1,811.82	-890.73	2,018.93	0.00	0.00	0.00
8,200.00	90.00	333.82	6,286.00	1,901.56	-934.85	2,118.93	0.00	0.00	0.00
8,300.00	90.00	333.82	6,286.00	1,991.30	-978.97	2,218.93	0.00	0.00	0.00
8,400.00	90.00	333.82	6,286.00	2,081.04	-1,023.09	2,318.93	0.00	0.00	0.00
8,500.00	90.00	333.82	6,286.00	2,170.78	-1,067.21	2,418.93	0.00	0.00	0.00
8,600.00	90.00	333.82	6,286.00	2,260.52	-1,111.33	2,518.93	0.00	0.00	0.00
8,700.00	90.00	333.82	6,286.00	2,350.26	-1,155.45	2,618.93	0.00	0.00	0.00
8,800.00	90.00	333.82	6,286.00	2,440.00	-1,199.57	2,718.93	0.00	0.00	0.00
8,900.00	90.00	333.82	6,286.00	2,529.75	-1,243.68	2,818.93	0.00	0.00	0.00
9,000.00	90.00	333.82	6,286.00	2,619.49	-1,287.80	2,918.93	0.00	0.00	0.00
9,100.00	90.00	333.82	6,286.00	2,709.23	-1,331.92	3,018.93	0.00	0.00	0.00
9,200.00	90.00	333.82	6,286.00	2,798.97	-1,376.04	3,118.93	0.00	0.00	0.00
9,300.00	90.00	333.82	6,286.00	2,888.71	-1,420.16	3,218.93	0.00	0.00	0.00
9,400.00	90.00	333.82	6,286.00	2,978.45	-1,464.28	3,318.93	0.00	0.00	0.00
9,500.00	90.00	333.82	6,286.00	3,068.19	-1,508.40	3,418.93	0.00	0.00	0.00
9,600.00	90.00	333.82	6,286.00	3,157.94	-1,552.52	3,518.93	0.00	0.00	0.00
9,700.00	90.00	333.82	6,286.00	3,247.68	-1,596.64	3,618.93	0.00	0.00	0.00
9,800.00	90.00	333.82	6,286.00	3,337.42	-1,640.76	3,718.93	0.00	0.00	0.00
9,900.00	90.00	333.82	6,286.00	3,427.16	-1,684.87	3,818.93	0.00	0.00	0.00
10,000.00	90.00	333.82	6,286.00	3,516.90	-1,728.99	3,918.93	0.00	0.00	0.00

EOG Resources Inc

Planning Report

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Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5055.00ft (TBD)
Site:	Igo Creek 04-07H	North Reference:	True
Well:	Igo Creek 04-07H	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	333.82	6,286.00	3,606.64	-1,773.11	4,018.93	0.00	0.00	0.00
10,200.00	90.00	333.82	6,286.00	3,696.38	-1,817.23	4,118.93	0.00	0.00	0.00
10,300.00	90.00	333.82	6,286.00	3,786.13	-1,861.35	4,218.93	0.00	0.00	0.00
10,400.00	90.00	333.82	6,286.00	3,875.87	-1,905.47	4,318.93	0.00	0.00	0.00
10,500.00	90.00	333.82	6,286.00	3,965.61	-1,949.59	4,418.93	0.00	0.00	0.00
10,600.00	90.00	333.82	6,286.00	4,055.35	-1,993.71	4,518.93	0.00	0.00	0.00
10,700.00	90.00	333.82	6,286.00	4,145.09	-2,037.83	4,618.93	0.00	0.00	0.00
10,800.00	90.00	333.82	6,286.00	4,234.83	-2,081.95	4,718.93	0.00	0.00	0.00
10,831.90	90.00	333.82	6,286.00	4,263.46	-2,096.02	4,750.83	0.00	0.00	0.00
Igo Creek 04-07H (BHL)									

Targets									
Target Name	Dip Angle (deg)	Dip Dir. (deg)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Igo Creek 04-07H (BHL) - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	6,286.00	4,263.46	-2,096.02	527,073.40	2,409,782.25	40° 46' 15.038 N	104° 1' 13.951 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
835.00	835.00	9-5/8"	9-5/8	13-1/2	
6,558.54	6,286.00	7"	7	8-3/4	
10,831.90	6,286.00	4 1/2"	4-1/2	6-1/4	

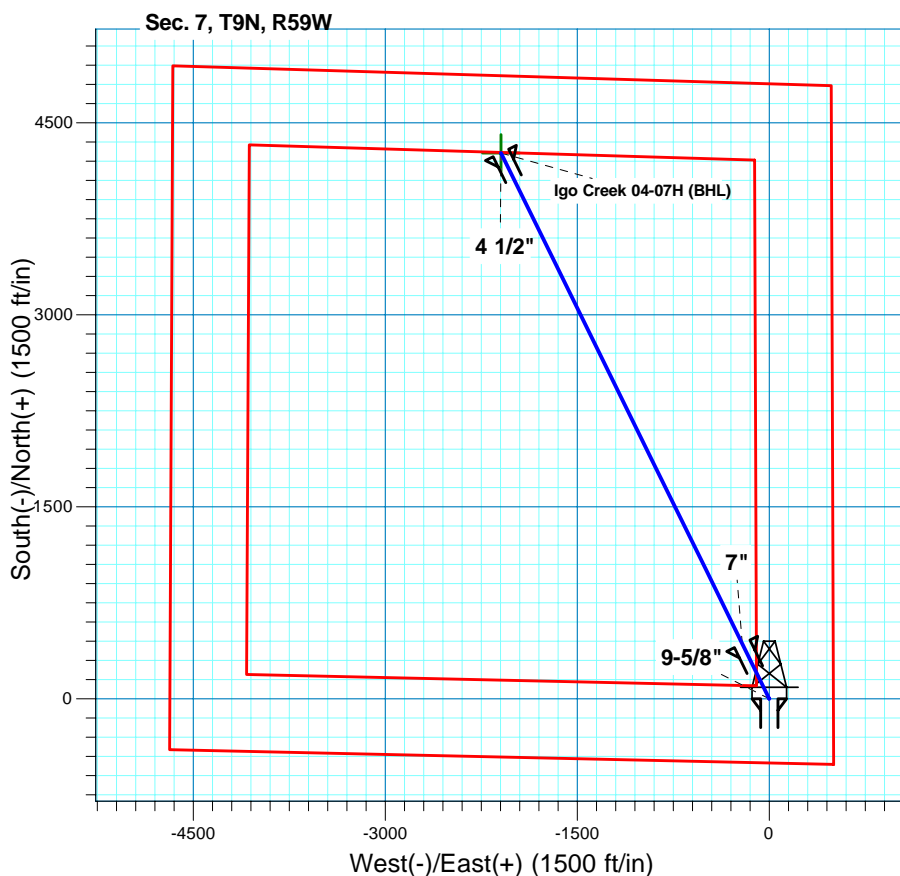
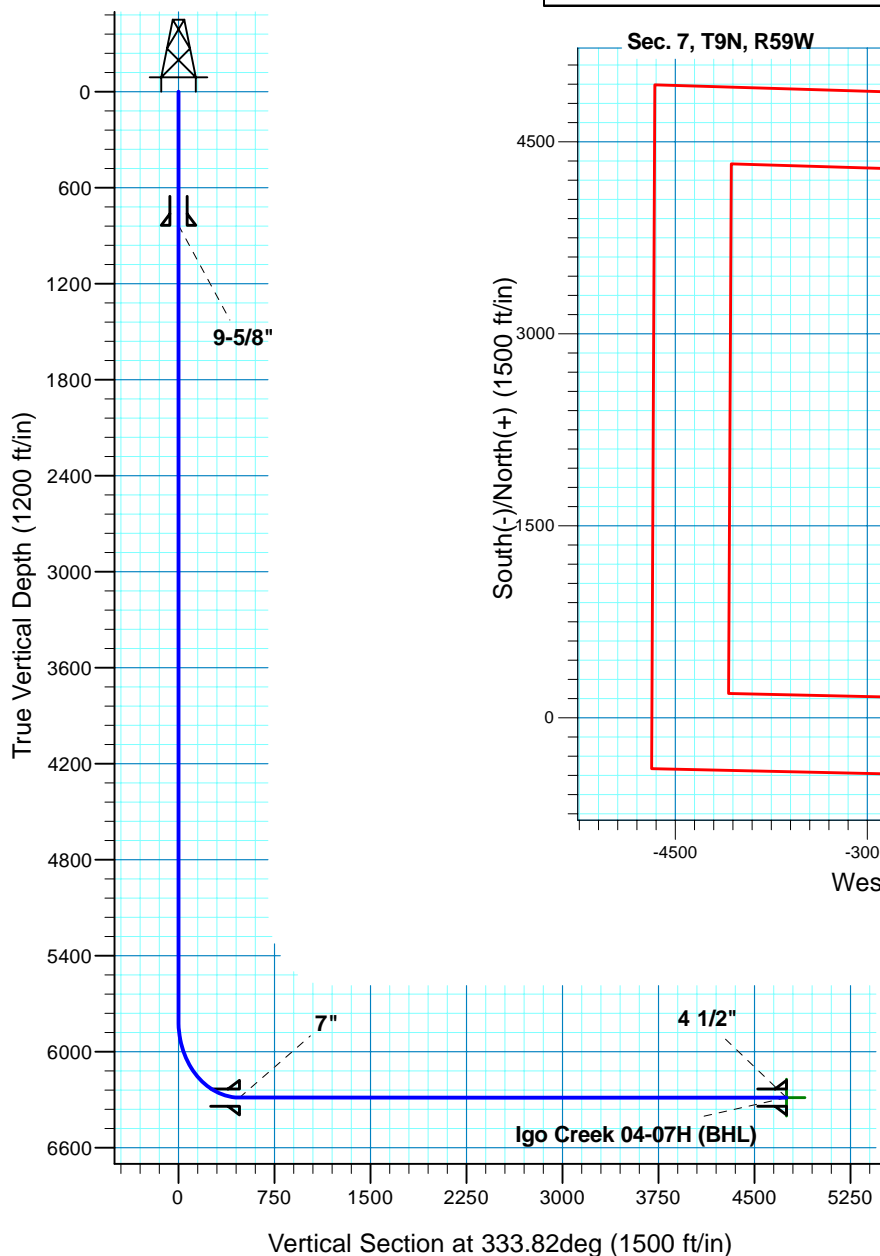
Igo Creek 04-07H

Section 7 T9N R59W

Weld County, CO

Surface Location

NAD 1927 (NADCON CONUS) Colorado North 501
 Ground Elevation: 5033.00 RIG @ 5055.00ft (TBD)
 Northing Easting Latitude Longitude
 522845.69 2411949.46 40° 45' 32.911 N 104° 0' 46.710 W



T M
 Azimuths to True North
 Magnetic North: 8.49°
 Magnetic Field
 Strength: 53458.9nT
 Dip Angle: 67.49°
 Date: 1/13/2011
 Model: IGRF200510

Project: DJ - Hereford Ranch
 Site: Igo Creek 04-07H
 Well: Igo Creek 04-07H
 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	5808.53	0.00	0.00	5808.53	0.00	0.00	0.00	0.00	0.00	
3	6558.54	90.00	333.82	6286.00	428.48	-210.65	12.00	333.82	477.47	
4	10831.90	90.00	333.82	6286.00	4263.46	-2096.02	0.00	0.00	4750.83	Igo Creek 04-07H (BHL)

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Igo Creek 04-07H (BHL)	6286.00	4263.46	-2096.02	527073.40	2409782.25	40° 46' 15.038 N	104° 1' 13.951 W	Point