



Denver Division- Colorado

DJ - Hereford Ranch

Fox Creek 02-25H

Fox Creek 2-25H

Original Wellbore

Plan: APD

Standard Planning Report

29 January, 2010

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site Fox Creek 02-25H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 5417.0ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5417.0ft (TBD)
Site:	Fox Creek 02-25H	North Reference:	True
Well:	Fox Creek 2-25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

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		Fox Creek 02-25H			
Site Position:		Northing:	599,921.97 ft	Latitude:	40° 58' 29.078 N
From:	Lat/Long	Easting:	2,311,230.67 ft	Longitude:	104° 22' 22.660 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.73 °

Well	Fox Creek 2-25H					
Well Position	+N/-S	0.0 ft	Northing:	599,921.97 ft	Latitude:	40° 58' 29.078 N
	+E/-W	0.0 ft	Easting:	2,311,230.67 ft	Longitude:	104° 22' 22.660 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,392.0 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/29/2010	8.85	67.63	53,631

Design	APD				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	291.84	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,892.5	0.00	0.00	6,892.5	0.0	0.0	0.00	0.00	0.00	0.00	
7,642.5	90.00	291.84	7,370.0	177.6	-443.2	12.00	12.00	0.00	291.84	
11,659.4	90.00	291.84	7,370.0	1,671.7	-4,171.9	0.00	0.00	0.00	0.00	Fox Creek 2-25H (BH)

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site Fox Creek 02-25H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 5417.0ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5417.0ft (TBD)
Site:	Fox Creek 02-25H	North Reference:	True
Well:	Fox Creek 2-25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9 5/8"									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site Fox Creek 02-25H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 5417.0ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5417.0ft (TBD)
Site:	Fox Creek 02-25H	North Reference:	True
Well:	Fox Creek 2-25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,892.5	0.00	0.00	6,892.5	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.90	291.84	6,900.0	0.0	-0.1	0.1	12.00	12.00	0.00
7,000.0	12.90	291.84	6,999.1	4.5	-11.2	12.0	12.00	12.00	0.00
7,100.0	24.90	291.84	7,093.5	16.5	-41.2	44.4	12.00	12.00	0.00
7,200.0	36.90	291.84	7,179.2	35.6	-88.8	95.6	12.00	12.00	0.00
7,300.0	48.90	291.84	7,252.3	60.8	-151.8	163.6	12.00	12.00	0.00
7,400.0	60.90	291.84	7,309.7	91.2	-227.6	245.2	12.00	12.00	0.00
7,500.0	72.90	291.84	7,348.9	125.4	-312.9	337.0	12.00	12.00	0.00
7,600.0	84.90	291.84	7,368.1	161.8	-403.8	435.0	12.00	12.00	0.00
7,642.5	90.00	291.84	7,370.0	177.6	-443.2	477.4	12.00	12.00	0.00
7"									
7,700.0	90.00	291.84	7,370.0	199.0	-496.6	534.9	0.01	0.01	0.00
7,800.0	90.00	291.84	7,370.0	236.2	-589.4	634.9	0.00	0.00	0.00
7,900.0	90.00	291.84	7,370.0	273.4	-682.2	734.9	0.00	0.00	0.00
8,000.0	90.00	291.84	7,370.0	310.5	-775.0	834.9	0.00	0.00	0.00
8,100.0	90.00	291.84	7,370.0	347.7	-867.9	934.9	0.00	0.00	0.00
8,200.0	90.00	291.84	7,370.0	384.9	-960.7	1,034.9	0.00	0.00	0.00
8,300.0	90.00	291.84	7,370.0	422.1	-1,053.5	1,134.9	0.00	0.00	0.00
8,400.0	90.00	291.84	7,370.0	459.3	-1,146.3	1,234.9	0.00	0.00	0.00
8,500.0	90.00	291.84	7,370.0	496.5	-1,239.2	1,334.9	0.00	0.00	0.00
8,600.0	90.00	291.84	7,370.0	533.7	-1,332.0	1,434.9	0.00	0.00	0.00
8,700.0	90.00	291.84	7,370.0	570.9	-1,424.8	1,534.9	0.00	0.00	0.00
8,800.0	90.00	291.84	7,370.0	608.1	-1,517.6	1,634.9	0.00	0.00	0.00
8,900.0	90.00	291.84	7,370.0	645.3	-1,610.5	1,734.9	0.00	0.00	0.00
9,000.0	90.00	291.84	7,370.0	682.5	-1,703.3	1,834.9	0.00	0.00	0.00
9,100.0	90.00	291.84	7,370.0	719.7	-1,796.1	1,934.9	0.00	0.00	0.00
9,200.0	90.00	291.84	7,370.0	756.9	-1,888.9	2,034.9	0.00	0.00	0.00
9,300.0	90.00	291.84	7,370.0	794.1	-1,981.8	2,134.9	0.00	0.00	0.00
9,400.0	90.00	291.84	7,370.0	831.3	-2,074.6	2,234.9	0.00	0.00	0.00
9,500.0	90.00	291.84	7,370.0	868.5	-2,167.4	2,334.9	0.00	0.00	0.00
9,600.0	90.00	291.84	7,370.0	905.7	-2,260.2	2,434.9	0.00	0.00	0.00
9,700.0	90.00	291.84	7,370.0	942.9	-2,353.1	2,534.9	0.00	0.00	0.00
9,800.0	90.00	291.84	7,370.0	980.1	-2,445.9	2,634.9	0.00	0.00	0.00
9,900.0	90.00	291.84	7,370.0	1,017.2	-2,538.7	2,734.9	0.00	0.00	0.00
10,000.0	90.00	291.84	7,370.0	1,054.4	-2,631.5	2,834.9	0.00	0.00	0.00
10,100.0	90.00	291.84	7,370.0	1,091.6	-2,724.4	2,934.9	0.00	0.00	0.00
10,200.0	90.00	291.84	7,370.0	1,128.8	-2,817.2	3,034.9	0.00	0.00	0.00

Database:	EDM 2003.21 Single User Db	Local Co-ordinate Reference:	Site Fox Creek 02-25H
Company:	Denver Division- Colorado	TVD Reference:	RIG @ 5417.0ft (TBD)
Project:	DJ - Hereford Ranch	MD Reference:	RIG @ 5417.0ft (TBD)
Site:	Fox Creek 02-25H	North Reference:	True
Well:	Fox Creek 2-25H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	APD		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,300.0	90.00	291.84	7,370.0	1,166.0	-2,910.0	3,134.9	0.00	0.00	0.00
10,400.0	90.00	291.84	7,370.0	1,203.2	-3,002.8	3,234.9	0.00	0.00	0.00
10,500.0	90.00	291.84	7,370.0	1,240.4	-3,095.7	3,334.9	0.00	0.00	0.00
10,600.0	90.00	291.84	7,370.0	1,277.6	-3,188.5	3,434.9	0.00	0.00	0.00
10,700.0	90.00	291.84	7,370.0	1,314.8	-3,281.3	3,534.9	0.00	0.00	0.00
10,800.0	90.00	291.84	7,370.0	1,352.0	-3,374.1	3,634.9	0.00	0.00	0.00
10,900.0	90.00	291.84	7,370.0	1,389.2	-3,467.0	3,734.9	0.00	0.00	0.00
11,000.0	90.00	291.84	7,370.0	1,426.4	-3,559.8	3,834.9	0.00	0.00	0.00
11,100.0	90.00	291.84	7,370.0	1,463.6	-3,652.6	3,934.9	0.00	0.00	0.00
11,200.0	90.00	291.84	7,370.0	1,500.8	-3,745.4	4,034.9	0.00	0.00	0.00
11,300.0	90.00	291.84	7,370.0	1,538.0	-3,838.3	4,134.9	0.00	0.00	0.00
11,400.0	90.00	291.84	7,370.0	1,575.2	-3,931.1	4,234.9	0.00	0.00	0.00
11,500.0	90.00	291.84	7,370.0	1,612.4	-4,023.9	4,334.9	0.00	0.00	0.00
11,600.0	90.00	291.84	7,370.0	1,649.6	-4,116.7	4,434.9	0.00	0.00	0.00
11,659.4	90.00	291.84	7,370.0	1,671.7	-4,171.9	4,494.3	0.00	0.00	0.00
4 1/2" - Fox Creek 2-25H (BHL)									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,500.0	1,500.0	9 5/8"	9-5/8	12-1/4	
7,642.5	7,370.0	7"	7	8-3/4	
11,659.4	7,370.0	4 1/2"	4-1/2	6-1/4	