

EOG Resources, Inc.

DJ-Hereford Ranch

Tree Creek 5-12H

Tree Creek 5-12H

Original Wellbore

Plan: Tree Creek 5-12H

Standard Planning Report

05 November, 2010

Halliburton Company

Planning Report

Database:	EOG Database	Local Co-ordinate Reference:	Well Tree Creek 5-12H
Company:	EOG Resources, Inc.	TVD Reference:	Rig @ 5509.00ft (TBD)
Project:	DJ-Hereford Ranch	MD Reference:	Rig @ 5509.00ft (TBD)
Site:	Tree Creek 5-12H	North Reference:	True
Well:	Tree Creek 5-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Tree Creek 5-12H		

Project	DJ-Hereford Ranch		
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		Tree Creek 5-12H, Section 12 T10N R65W			
Site Position:		Northing:	551,001.48 usft	Latitude:	40° 50' 32.837 N
From:	Map	Easting:	2,248,309.67 usft	Longitude:	104° 36' 9.316 W
Position Uncertainty:	0.00 ft	Slot Radius:	0.000 in	Grid Convergence:	0.58 °

Well	Tree Creek 5-12H					
Well Position	+N/-S	0.00 ft	Northing:	551,001.48 usft	Latitude:	40° 50' 32.837 N
	+E/-W	0.00 ft	Easting:	2,248,309.67 usft	Longitude:	104° 36' 9.316 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	5,487.00 ft

Wellbore	Original Wellbore				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/4/2010	8.86	67.46	53,458

Design	Tree Creek 5-12H			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	333.91

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,442.54	0.00	0.00	7,442.54	0.00	0.00	0.00	0.00	0.00	0.00	
8,192.54	90.00	333.91	7,920.00	428.80	-210.02	12.00	12.00	0.00	333.91	
12,182.25	90.00	333.91	7,920.00	4,011.83	-1,964.91	0.00	0.00	0.00	0.00	Tree Creek 5-12H (Bl

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Project:	DJ-Hereford Ranch	MD Reference:	Rig @ 5509.00ft (TBD)
Site:	Tree Creek 5-12H	North Reference:	True
Well:	Tree Creek 5-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Tree Creek 5-12H		

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)
0.00	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
1,300.00	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
1,590.00	0.00	0.00	1,590.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
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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Wellbore:	Original Wellbore		
Design:	Tree Creek 5-12H		

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)
5,200.00	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
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,442.54	0.00	0.00	7,442.54	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	6.90	333.91	7,499.86	3.10	-1.52	3.45	12.00	12.00	0.00
7,600.00	18.90	333.91	7,597.16	23.11	-11.32	25.73	12.00	12.00	0.00
7,700.00	30.90	333.91	7,687.70	60.84	-29.80	67.75	12.00	12.00	0.00
7,800.00	42.90	333.91	7,767.53	114.66	-56.16	127.68	12.00	12.00	0.00
7,900.00	54.90	333.91	7,833.15	182.21	-89.24	202.89	12.00	12.00	0.00
8,000.00	66.90	333.91	7,881.70	260.53	-127.60	290.11	12.00	12.00	0.00
8,100.00	78.90	333.91	7,911.06	346.21	-169.57	385.51	12.00	12.00	0.00
8,192.54	90.00	333.91	7,920.00	428.80	-210.02	477.46	12.00	12.00	0.00
7"									
8,200.00	90.00	333.91	7,920.00	435.50	-213.30	484.93	0.00	0.00	0.00
8,300.00	90.00	333.91	7,920.00	525.31	-257.28	584.93	0.00	0.00	0.00
8,400.00	90.00	333.91	7,920.00	615.11	-301.27	684.93	0.00	0.00	0.00
8,500.00	90.00	333.91	7,920.00	704.92	-345.26	784.93	0.00	0.00	0.00
8,600.00	90.00	333.91	7,920.00	794.73	-389.24	884.93	0.00	0.00	0.00
8,700.00	90.00	333.91	7,920.00	884.53	-433.23	984.93	0.00	0.00	0.00
8,800.00	90.00	333.91	7,920.00	974.34	-477.21	1,084.93	0.00	0.00	0.00
8,900.00	90.00	333.91	7,920.00	1,064.15	-521.20	1,184.93	0.00	0.00	0.00
9,000.00	90.00	333.91	7,920.00	1,153.95	-565.18	1,284.93	0.00	0.00	0.00
9,100.00	90.00	333.91	7,920.00	1,243.76	-609.17	1,384.93	0.00	0.00	0.00
9,200.00	90.00	333.91	7,920.00	1,333.57	-653.16	1,484.93	0.00	0.00	0.00
9,300.00	90.00	333.91	7,920.00	1,423.38	-697.14	1,584.93	0.00	0.00	0.00
9,400.00	90.00	333.91	7,920.00	1,513.18	-741.13	1,684.93	0.00	0.00	0.00
9,500.00	90.00	333.91	7,920.00	1,602.99	-785.11	1,784.93	0.00	0.00	0.00
9,600.00	90.00	333.91	7,920.00	1,692.80	-829.10	1,884.93	0.00	0.00	0.00
9,700.00	90.00	333.91	7,920.00	1,782.60	-873.08	1,984.93	0.00	0.00	0.00
9,800.00	90.00	333.91	7,920.00	1,872.41	-917.07	2,084.93	0.00	0.00	0.00
9,900.00	90.00	333.91	7,920.00	1,962.22	-961.05	2,184.93	0.00	0.00	0.00
10,000.00	90.00	333.91	7,920.00	2,052.02	-1,005.04	2,284.93	0.00	0.00	0.00
10,100.00	90.00	333.91	7,920.00	2,141.83	-1,049.03	2,384.93	0.00	0.00	0.00

Halliburton Company

Planning Report

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Company:	EOG Resources, Inc.	TVD Reference:	Rig @ 5509.00ft (TBD)
Project:	DJ-Hereford Ranch	MD Reference:	Rig @ 5509.00ft (TBD)
Site:	Tree Creek 5-12H	North Reference:	True
Well:	Tree Creek 5-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Tree Creek 5-12H		

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)
10,200.00	90.00	333.91	7,920.00	2,231.64	-1,093.01	2,484.93	0.00	0.00	0.00
10,300.00	90.00	333.91	7,920.00	2,321.44	-1,137.00	2,584.93	0.00	0.00	0.00
10,400.00	90.00	333.91	7,920.00	2,411.25	-1,180.98	2,684.93	0.00	0.00	0.00
10,500.00	90.00	333.91	7,920.00	2,501.06	-1,224.97	2,784.93	0.00	0.00	0.00
10,600.00	90.00	333.91	7,920.00	2,590.86	-1,268.95	2,884.93	0.00	0.00	0.00
10,700.00	90.00	333.91	7,920.00	2,680.67	-1,312.94	2,984.93	0.00	0.00	0.00
10,800.00	90.00	333.91	7,920.00	2,770.48	-1,356.93	3,084.93	0.00	0.00	0.00
10,900.00	90.00	333.91	7,920.00	2,860.28	-1,400.91	3,184.93	0.00	0.00	0.00
11,000.00	90.00	333.91	7,920.00	2,950.09	-1,444.90	3,284.93	0.00	0.00	0.00
11,100.00	90.00	333.91	7,920.00	3,039.90	-1,488.88	3,384.93	0.00	0.00	0.00
11,200.00	90.00	333.91	7,920.00	3,129.70	-1,532.87	3,484.93	0.00	0.00	0.00
11,300.00	90.00	333.91	7,920.00	3,219.51	-1,576.85	3,584.93	0.00	0.00	0.00
11,400.00	90.00	333.91	7,920.00	3,309.32	-1,620.84	3,684.93	0.00	0.00	0.00
11,500.00	90.00	333.91	7,920.00	3,399.13	-1,664.82	3,784.93	0.00	0.00	0.00
11,600.00	90.00	333.91	7,920.00	3,488.93	-1,708.81	3,884.93	0.00	0.00	0.00
11,700.00	90.00	333.91	7,920.00	3,578.74	-1,752.80	3,984.93	0.00	0.00	0.00
11,800.00	90.00	333.91	7,920.00	3,668.55	-1,796.78	4,084.93	0.00	0.00	0.00
11,900.00	90.00	333.91	7,920.00	3,758.35	-1,840.77	4,184.93	0.00	0.00	0.00
12,000.00	90.00	333.91	7,920.00	3,848.16	-1,884.75	4,284.93	0.00	0.00	0.00
12,100.00	90.00	333.91	7,920.00	3,937.97	-1,928.74	4,384.93	0.00	0.00	0.00
12,182.25	90.00	333.91	7,920.00	4,011.83	-1,964.91	4,467.18	0.00	0.00	0.00
Tree Creek 5-12H (BHL)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Tree Creek 5-12H (BHL)	0.00	0.00	7,920.00	4,011.83	-1,964.91	554,993.21	2,246,304.26	40° 51' 12.476 N	104° 36' 34.885 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
1,590.00	1,590.00	9 5/8"	9.625	13.500	
8,192.54	7,920.00	7"	7.000	8.750	
12,182.25	7,920.00	4 1/2"	4.500	6.000	

Halliburton Company

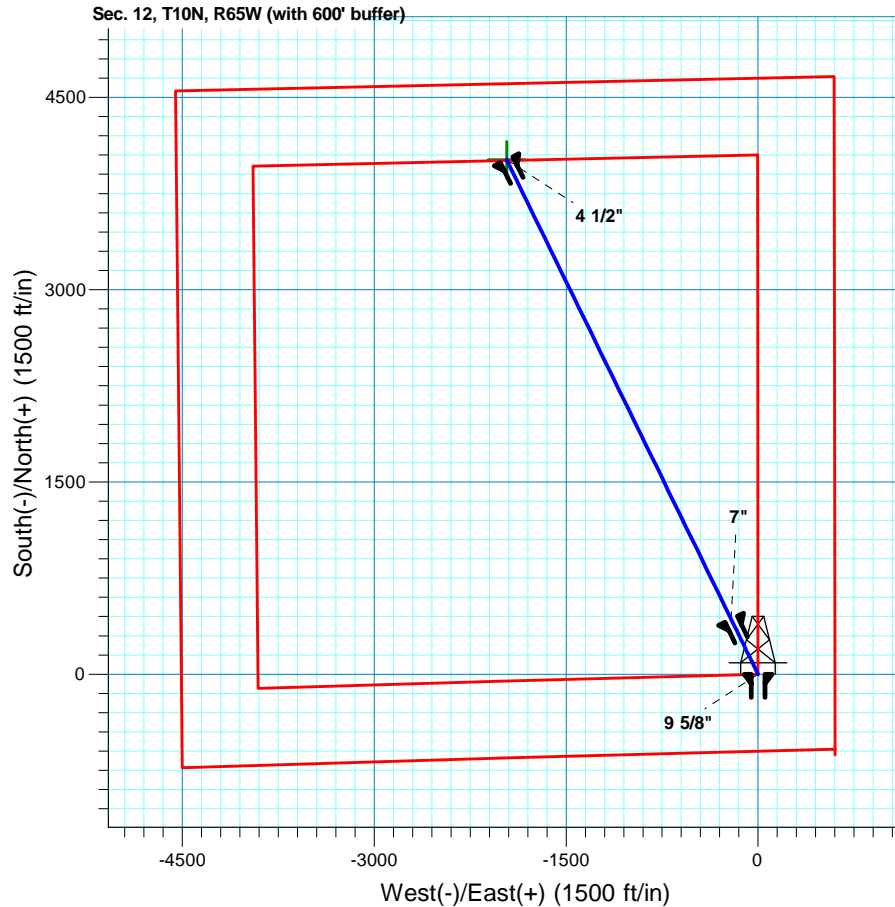
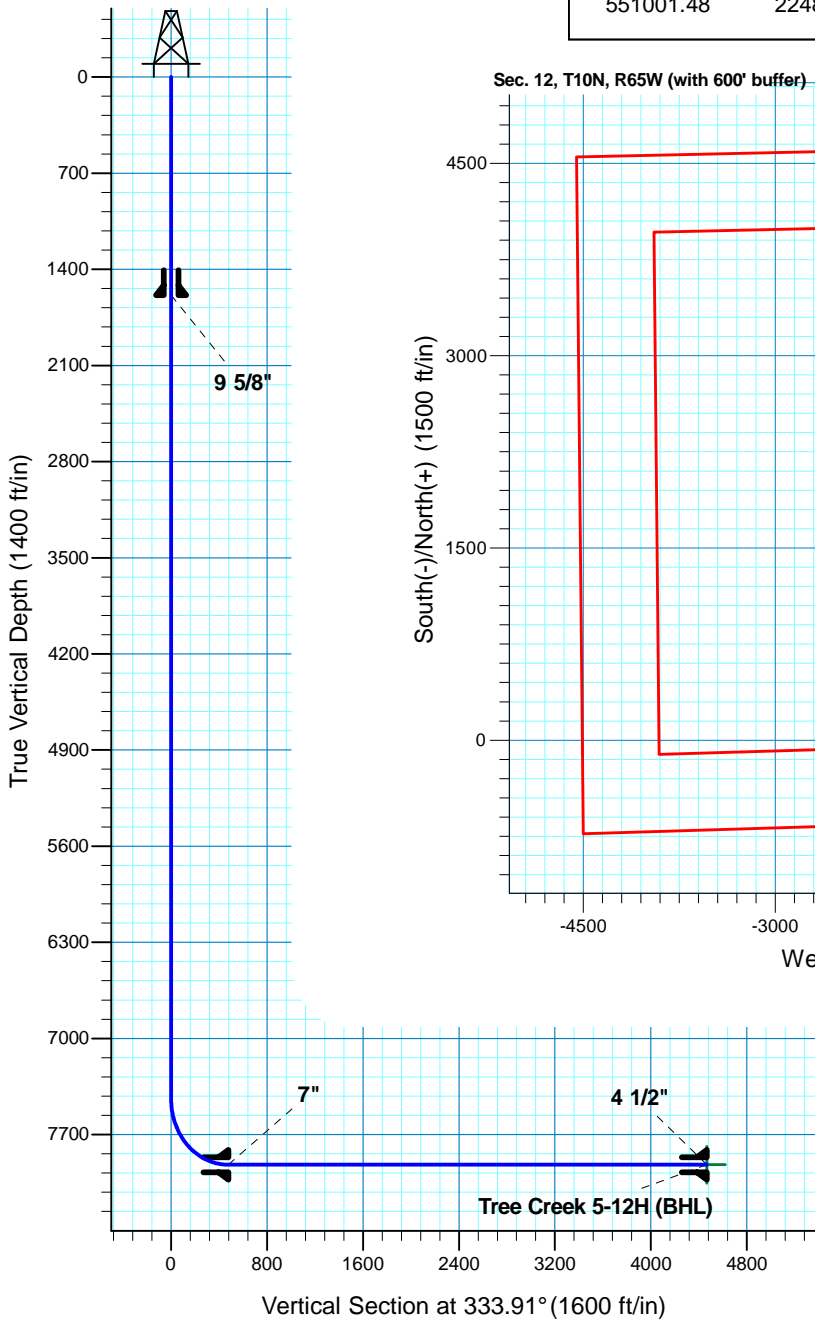
Planning Report

Database:	EOG Database	Local Co-ordinate Reference:	Well Tree Creek 5-12H
Company:	EOG Resources, Inc.	TVD Reference:	Rig @ 5509.00ft (TBD)
Project:	DJ-Hereford Ranch	MD Reference:	Rig @ 5509.00ft (TBD)
Site:	Tree Creek 5-12H	North Reference:	True
Well:	Tree Creek 5-12H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Wellbore		
Design:	Tree Creek 5-12H		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
0.00	0.00	White River		0.00		
1,135.00	1,135.00	Fox Hills	Sandstone	0.00		
1,510.00	1,510.00	Pierre Shale	Shale	0.00		
4,485.00	4,485.00	Richard Sand	Sandstone	0.00		
4,660.00	4,660.00	Hygiene	Sandstone	0.00		
7,831.68	7,790.01	Sharon Springs		0.00		
7,912.13	7,840.00	Niobrara	Shale	0.00		
7,950.59	7,860.00	B1 Chalk	Chalk	0.00		
8,072.54	7,905.00	B Chalk	Chalk	0.00		
8,192.54	7,920.00	Targe Zone	Chalk	0.00		

Tree Creek 5-12H Section 12 T10N R65W Weld County, CO

Surface Location			
NAD 1927 (NADCON CONUS)	Colorado North 501		
Ground Elevation: 5487.00	Rig @ 5509.00ft (TBD)		
Northing	Easting	Latitude	Longitude
551001.48	2248309.67	40°50' 32.837 N	104°36' 9.316 W



7" Casing Shoe
1034' FSL
810' FEL

Project: DJ-Hereford Ranch
Site: Tree Creek 5-12H
Well: Tree Creek 5-12H
Plan: Tree Creek 5-12H

T M
Azimuths to True North
Magnetic North: 8.86°
Magnetic Field
Strength: 53458.4snT
Dip Angle: 67.46°
Date: 11/4/2010
Model: IGRF200510

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	7442.54	0.00	0.00	7442.54	0.00	0.00	0.00	0.00	0.00	
3	8192.54	90.00	333.91	7920.00	428.80	-210.02	12.00	333.91	477.46	
4	12182.25	90.00	333.91	7920.00	4011.83	-1964.91	0.00	0.00	4467.18	Tree Creek 5-12H (BHL)
TARGET DETAILS										
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape		
Tree Creek 5-12H (BHL)	7920.00	4011.83	-1964.91	554993.21	2246304.26	40°51' 12.476 N	104°36' 34.885 W	Point		