



EOG Resources

Weld Co., CO

Sec 7-T11N-R63W

Critter Creek #11-07H

STK #1

Plan: Plan #4

Standard Planning Report (Field)

22 December, 2010



Database:	Local	Local Co-ordinate Reference:	Well Critter Creek #11-07H
Company:	EOG Resources	TVD Reference:	CC 11-07H KBE @ 5366.0ft (SST #56)
Project:	Weld Co., CO	MD Reference:	CC 11-07H KBE @ 5366.0ft (SST #56)
Site:	Sec 7-T11N-R63W	North Reference:	True
Well:	Critter Creek #11-07H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK #1		
Design:	Plan #4		

Project	Weld Co., CO		
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	Sec 7-T11N-R63W				
Site Position:		Northing:	583,656.27 ft	Latitude:	40° 55' 51.500 N
From:	Lat/Long	Easting:	2,285,263.93 ft	Longitude:	104° 28' 3.610 W
Position Uncertainty:	0.0 ft	Slot Radius:		Grid Convergence:	0.67 °

Well	Critter Creek #11-07H					
Well Position	+N/-S	0.0 ft	Northing:	583,656.26 ft	Latitude:	40° 55' 51.500 N
	+E/-W	0.0 ft	Easting:	2,285,263.93 ft	Longitude:	104° 28' 3.610 W
Position Uncertainty		0.0 ft	Wellhead Elevation:		Ground Level:	5,345.0 ft

Wellbore	STK #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010-14	12/22/10	8.81	67.54	53,485

Design	Plan #4			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	6,653.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	329.20

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
6,653.0	0.70	22.90	6,652.3	63.9	8.0	0.00	0.00	0.00	0.00	
6,720.0	5.00	0.00	6,719.2	67.2	8.2	6.51	6.42	-34.18	-26.47	
7,000.0	5.00	0.00	6,998.1	91.6	8.2	0.00	0.00	0.00	0.00	
7,090.6	5.00	0.00	7,088.4	99.5	8.2	0.00	0.00	0.00	0.00	
7,774.6	88.00	338.43	7,519.0	524.0	-145.2	12.19	12.13	-3.15	-21.71	
7,775.6	88.00	338.43	7,519.0	524.9	-145.6	0.00	0.00	0.00	0.00	CC 11-07H Landing F
7,875.6	88.00	338.43	7,522.5	617.9	-182.3	0.00	0.00	0.00	-90.00	
8,075.6	90.00	338.43	7,526.0	803.8	-255.8	1.00	1.00	0.00	0.00	
8,724.5	90.00	325.45	7,526.0	1,375.3	-560.4	2.00	0.00	-2.00	-90.00	
12,136.0	90.00	325.45	7,526.0	4,185.1	-2,495.0	0.00	0.00	0.00	0.00	CC 11-07H PBHL

Database:	Local	Local Co-ordinate Reference:	Well Critter Creek #11-07H
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Project:	Weld Co., CO	MD Reference:	CC 11-07H KBE @ 5366.0ft (SST #56)
Site:	Sec 7-T11N-R63W	North Reference:	True
Well:	Critter Creek #11-07H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK #1		
Design:	Plan #4		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Tie In @ 6653' MD; Side Track										
6,653.0	0.70	22.90	6,652.3	1,286.3	63.9	8.0	50.8	0.00	0.00	0.00
6,700.0	3.70	1.26	6,699.3	1,333.3	65.7	8.2	52.2	6.51	6.38	-46.04
End Side Track; Hold 5° Inc										
6,720.0	5.00	0.00	6,719.2	1,353.2	67.2	8.2	53.5	6.51	6.50	-6.30
6,800.0	5.00	0.00	6,798.9	1,432.9	74.2	8.2	59.5	0.00	0.00	0.00
6,900.0	5.00	0.00	6,898.5	1,532.5	82.9	8.2	67.0	0.00	0.00	0.00
7,000.0	5.00	0.00	6,998.1	1,632.1	91.6	8.2	74.5	0.00	0.00	0.00
KOP @ 7080.9' MD; Build 12°/100'										
7,090.6	5.00	0.00	7,088.4	1,722.4	99.5	8.2	81.3	0.00	0.00	0.00
7,100.0	6.08	355.99	7,097.8	1,731.8	100.4	8.2	82.1	12.19	11.48	-42.61
7,200.0	18.07	344.04	7,195.4	1,829.4	120.7	3.5	101.9	12.19	11.99	-11.95
7,300.0	30.21	341.54	7,286.5	1,920.5	159.6	-8.8	141.6	12.19	12.15	-2.50
7,400.0	42.38	340.39	7,366.9	2,000.9	215.4	-28.1	199.4	12.19	12.17	-1.15
7,500.0	54.56	339.68	7,433.1	2,067.1	285.7	-53.7	272.8	12.19	12.17	-0.71
7,600.0	66.73	339.16	7,482.0	2,116.0	367.1	-84.3	358.5	12.19	12.18	-0.52
7,700.0	78.91	338.73	7,511.5	2,145.5	456.1	-118.5	452.4	12.19	12.18	-0.43
Land @ 88° Inc; Hold - 7" Casing Point										
7,774.6	88.00	338.43	7,520.0	2,154.0	525.0	-145.6	525.5	12.19	12.18	-0.40
CC 11-07H Landing Point										
7,775.6	88.00	338.43	7,519.0	2,153.0	524.9	-145.6	525.4	0.33	0.33	-0.01
7,800.0	88.00	338.43	7,519.9	2,153.9	547.6	-154.5	549.5	0.00	0.00	0.00
CC 11-07H Landing Point 10°										
7,852.2	88.00	338.43	7,521.7	2,155.7	596.1	-173.7	600.9	0.00	0.00	0.00
End Hold; Build 1°/100'										
7,875.6	88.00	338.43	7,522.5	2,156.5	617.9	-182.3	624.1	0.00	0.00	0.00
7,900.0	88.24	338.43	7,523.3	2,157.3	640.5	-191.3	648.1	1.00	1.00	0.00
8,000.0	89.24	338.43	7,525.5	2,159.5	733.5	-228.0	746.8	1.00	1.00	0.00
Land @ 90° Inc; Start Turn 2°/100'										
8,075.6	90.00	338.43	7,526.0	2,160.0	803.8	-255.8	821.4	1.00	1.00	0.00
8,100.0	90.00	337.94	7,526.0	2,160.0	826.5	-264.9	845.5	2.00	0.00	-2.00
8,200.0	90.00	335.94	7,526.0	2,160.0	918.5	-304.1	944.6	2.00	0.00	-2.00
8,300.0	90.00	333.94	7,526.0	2,160.0	1,009.1	-346.4	1,044.1	2.00	0.00	-2.00
8,400.0	90.00	331.94	7,526.0	2,160.0	1,098.1	-391.9	1,143.9	2.00	0.00	-2.00
8,500.0	90.00	329.94	7,526.0	2,160.0	1,185.5	-440.5	1,243.8	2.00	0.00	-2.00
8,600.0	90.00	327.94	7,526.0	2,160.0	1,271.2	-492.0	1,343.8	2.00	0.00	-2.00
8,700.0	90.00	325.94	7,526.0	2,160.0	1,355.0	-546.6	1,443.7	2.00	0.00	-2.00
8,724.5	90.00	325.45	7,526.0	2,160.0	1,375.3	-560.4	1,468.2	2.00	0.00	-2.00
8,800.0	90.00	325.45	7,526.0	2,160.0	1,437.4	-603.2	1,543.5	0.00	0.00	0.00
8,900.0	90.00	325.45	7,526.0	2,160.0	1,519.8	-659.9	1,643.3	0.00	0.00	0.00
9,000.0	90.00	325.45	7,526.0	2,160.0	1,602.1	-716.6	1,743.1	0.00	0.00	0.00
9,100.0	90.00	325.45	7,526.0	2,160.0	1,684.5	-773.3	1,842.9	0.00	0.00	0.00
9,200.0	90.00	325.45	7,526.0	2,160.0	1,766.9	-830.0	1,942.7	0.00	0.00	0.00
9,300.0	90.00	325.45	7,526.0	2,160.0	1,849.2	-886.8	2,042.5	0.00	0.00	0.00
9,400.0	90.00	325.45	7,526.0	2,160.0	1,931.6	-943.5	2,142.3	0.00	0.00	0.00
9,500.0	90.00	325.45	7,526.0	2,160.0	2,014.0	-1,000.2	2,242.0	0.00	0.00	0.00
9,600.0	90.00	325.45	7,526.0	2,160.0	2,096.3	-1,056.9	2,341.8	0.00	0.00	0.00
9,700.0	90.00	325.45	7,526.0	2,160.0	2,178.7	-1,113.6	2,441.6	0.00	0.00	0.00
9,800.0	90.00	325.45	7,526.0	2,160.0	2,261.1	-1,170.3	2,541.4	0.00	0.00	0.00
9,900.0	90.00	325.45	7,526.0	2,160.0	2,343.4	-1,227.0	2,641.2	0.00	0.00	0.00
10,000.0	90.00	325.45	7,526.0	2,160.0	2,425.8	-1,283.7	2,741.0	0.00	0.00	0.00
10,100.0	90.00	325.45	7,526.0	2,160.0	2,508.2	-1,340.4	2,840.8	0.00	0.00	0.00
10,200.0	90.00	325.45	7,526.0	2,160.0	2,590.5	-1,397.1	2,940.5	0.00	0.00	0.00

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Site:	Sec 7-T11N-R63W	North Reference:	True
Well:	Critter Creek #11-07H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK #1		
Design:	Plan #4		

Planned Survey											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	Subsea 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	325.45	7,526.0	2,160.0	2,672.9	-1,453.9	3,040.3	0.00	0.00	0.00	
10,400.0	90.00	325.45	7,526.0	2,160.0	2,755.3	-1,510.6	3,140.1	0.00	0.00	0.00	
10,500.0	90.00	325.45	7,526.0	2,160.0	2,837.6	-1,567.3	3,239.9	0.00	0.00	0.00	
10,600.0	90.00	325.45	7,526.0	2,160.0	2,920.0	-1,624.0	3,339.7	0.00	0.00	0.00	
10,700.0	90.00	325.45	7,526.0	2,160.0	3,002.3	-1,680.7	3,439.5	0.00	0.00	0.00	
10,800.0	90.00	325.45	7,526.0	2,160.0	3,084.7	-1,737.4	3,539.3	0.00	0.00	0.00	
10,900.0	90.00	325.45	7,526.0	2,160.0	3,167.1	-1,794.1	3,639.1	0.00	0.00	0.00	
11,000.0	90.00	325.45	7,526.0	2,160.0	3,249.4	-1,850.8	3,738.8	0.00	0.00	0.00	
11,100.0	90.00	325.45	7,526.0	2,160.0	3,331.8	-1,907.5	3,838.6	0.00	0.00	0.00	
11,200.0	90.00	325.45	7,526.0	2,160.0	3,414.2	-1,964.2	3,938.4	0.00	0.00	0.00	
11,300.0	90.00	325.45	7,526.0	2,160.0	3,496.5	-2,021.0	4,038.2	0.00	0.00	0.00	
11,400.0	90.00	325.45	7,526.0	2,160.0	3,578.9	-2,077.7	4,138.0	0.00	0.00	0.00	
11,500.0	90.00	325.45	7,526.0	2,160.0	3,661.3	-2,134.4	4,237.8	0.00	0.00	0.00	
11,600.0	90.00	325.45	7,526.0	2,160.0	3,743.6	-2,191.1	4,337.6	0.00	0.00	0.00	
11,700.0	90.00	325.45	7,526.0	2,160.0	3,826.0	-2,247.8	4,437.3	0.00	0.00	0.00	
11,800.0	90.00	325.45	7,526.0	2,160.0	3,908.4	-2,304.5	4,537.1	0.00	0.00	0.00	
11,900.0	90.00	325.45	7,526.0	2,160.0	3,990.7	-2,361.2	4,636.9	0.00	0.00	0.00	
12,000.0	90.00	325.45	7,526.0	2,160.0	4,073.1	-2,417.9	4,736.7	0.00	0.00	0.00	
12,100.0	90.00	325.45	7,526.0	2,160.0	4,155.5	-2,474.6	4,836.5	0.00	0.00	0.00	
CC 11-07H PBHL											
12,136.0	90.00	325.45	7,526.0	2,160.0	4,185.1	-2,495.0	4,872.4	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
CC 11-07H Landing Poir		0.00	7,519.0	524.9	-145.6	584,179.48	2,285,112.25	40° 55' 56.687 N	104° 28' 5.507 W
- plan hits target center									
- Point									
CC 11-07H PBHL	0.00	0.00	7,526.0	4,185.1	-2,495.0	587,812.03	2,282,720.33	40° 56' 32.850 N	104° 28' 36.120 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
7,774.6	7,520.0	7" Casing Point	7	8-3/4	

Database:	Local	Local Co-ordinate Reference:	Well Critter Creek #11-07H
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Site:	Sec 7-T11N-R63W	North Reference:	True
Well:	Critter Creek #11-07H	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK #1		
Design:	Plan #4		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
6,653.0	6,652.3	63.9	8.0	Tie In @ 6653' MD; Side Track	
6,720.0	6,719.2	67.2	8.2	End Side Track; Hold 5° Inc	
7,090.6	7,088.4	99.5	8.2	KOP @ 7080.9' MD; Build 12°/100'	
7,774.6	7,520.0	525.0	-145.6	Land @ 88° Inc; Hold	
7,875.6	7,522.5	617.9	-182.3	End Hold; Build 1°/100'	
8,075.6	7,526.0	803.8	-255.8	Land @ 90° Inc; Start Turn 2°/100'	
12,136.0	7,526.0	4,185.1	-2,495.1	TD = 12136' MD	



WELL DETAILS: Critter Creek #11-07H



Azimuths to True North
Magnetic North: 8.81°
Magnetic Field
Strength: 53484.7nT
Dip Angle: 67.54°
Date: 12/22/2010
Model: IGRF2010-14

Ground Level: 5345.0										
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
	0.0	0.0	583656.26	2285263.93	40° 55' 51.500 N	104° 28' 3.610 W				
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	D/Leg	T/Face	V/Sec	Target
1	6653.0	0.70	22.90	6652.3	63.9	8.0	0.00	0.00	50.8	
2	6720.0	5.00	0.00	6719.2	67.2	8.2	6.51	-26.47	53.5	
3	7000.0	5.00	0.00	6998.1	91.6	8.2	0.00	0.00	74.5	
4	7090.6	5.00	0.00	7088.4	99.5	8.2	0.00	0.00	81.3	
5	7774.6	88.00	338.43	7519.0	524.0	-145.2	12.19	-21.71	524.5	
6	7775.6	88.00	338.43	7519.0	524.9	-145.6	0.00	0.00	525.4	CC 11-07H Landing Point
7	7875.6	88.00	338.43	7522.5	617.9	-182.3	0.00	-90.00	624.1	
8	8075.6	90.00	338.43	7526.0	803.8	-255.8	1.00	0.00	821.5	
9	8724.5	90.00	325.45	7526.0	1375.3	-560.4	2.00	-90.00	1468.2	
10	12136.0	90.00	325.45	7526.0	4185.1	-2495.0	0.00	0.00	4872.4	CC 11-07H PBHL
FORMATION TOP DETAILS										
ANNOTATIONS										

No formation data is available

FORMATION TOP DETAILS			ANNOTATIONS		
TVD	MD	Annotation	TVD	MD	Annotation
6652.3	6653.0	Tie In @ 6653' MD; Side Track	6652.3	6653.0	Tie In @ 6653' MD; Side Track
6719.2	6720.0	End Side Track; Hold 5" Inc	6719.2	6720.0	End Side Track; Hold 5" Inc
7088.4	7090.6	KOP @ 7080.9' MD; Build 12"/100'	7088.4	7090.6	KOP @ 7080.9' MD; Build 12"/100'
7520.0	7774.6	Land @ 88° Inc; Hold	7520.0	7774.6	Land @ 88° Inc; Hold
7522.5	7875.6	End Hold; Build 1"/100'	7522.5	7875.6	End Hold; Build 1"/100'
7526.0	8075.6	Land @ 90° Inc; Start Turn 2"/100'	7526.0	8075.6	Land @ 90° Inc; Start Turn 2"/100'
7526.0	12136.0	TD = 12136' MD	7526.0	12136.0	TD = 12136' MD

CASING DETAILS				
TVD	MD	Name	Size	
7520.0	7774.6	7" Casing Point	7"	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
CC 11-07H PBHL	7526.0	4185.1	-2495.0	40° 56' 32.850 N	104° 28' 36.120 W	Point

