



EOG Resources

Weld Co., CO

Sec 7-T11N-R63W

Critter Creek #11-07H

STK #1

Survey: Survey #1

Standard Survey Report

09 January, 2011



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

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:		Latitude:	
From:	Lat/Long	Easting:		Longitude:	
Position Uncertainty:	0.0 ft	Slot Radius:		Grid Convergence:	1.00

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:	ft	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	STK #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	6,368.0
Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	329.20	

Survey Program		Date	01/09/11	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
1,500.0	6,368.0	Survey #1 (Hz)	MWD	
6,525.0	12,114.0	Survey #1 (STK #1)	MWD	

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 into Original Surveys										
6,368.0	0.90	33.40	6,367.3	1,001.3	60.4	6.1	48.8	0.00	0.00	0.00
6,525.0	1.10	34.20	6,524.3	1,158.3	62.7	7.7	50.0	0.13	0.13	0.51
6,557.0	1.30	25.40	6,556.3	1,190.3	63.3	8.0	50.3	0.85	0.63	-27.50
6,588.0	2.40	5.90	6,587.3	1,221.3	64.3	8.2	51.0	4.04	3.55	-62.90
6,620.0	5.20	356.60	6,619.2	1,253.2	66.4	8.2	52.8	8.93	8.75	-29.06
6,652.0	6.50	356.20	6,651.1	1,285.1	69.6	8.0	55.7	4.06	4.06	-1.25
6,683.0	6.90	356.10	6,681.8	1,315.8	73.2	7.7	58.9	1.29	1.29	-0.32
6,715.0	7.10	357.70	6,713.6	1,347.6	77.1	7.5	62.4	0.87	0.63	5.00

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

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)
6,746.0	6.90	358.40	6,744.4	1,378.4	80.9	7.4	65.7	0.70	-0.65	2.26
6,778.0	6.50	357.70	6,776.2	1,410.2	84.6	7.3	69.0	1.28	-1.25	-2.19
6,810.0	6.40	356.30	6,807.9	1,441.9	88.2	7.1	72.2	0.58	-0.31	-4.38
6,841.0	6.50	357.30	6,838.8	1,472.8	91.7	6.9	75.2	0.49	0.32	3.23
6,873.0	5.80	354.60	6,870.6	1,504.6	95.1	6.7	78.3	2.37	-2.19	-8.44
6,905.0	5.40	347.80	6,902.4	1,536.4	98.2	6.2	81.2	2.42	-1.25	-21.25
6,936.0	5.40	347.50	6,933.3	1,567.3	101.1	5.6	84.0	0.09	0.00	-0.97
6,968.0	5.10	347.00	6,965.1	1,599.1	103.9	4.9	86.7	0.95	-0.94	-1.56
6,999.0	5.30	346.80	6,996.0	1,630.0	106.7	4.3	89.4	0.65	0.65	-0.65
7,031.0	5.00	344.20	7,027.9	1,661.9	109.4	3.6	92.2	1.19	-0.94	-8.13
7,063.0	5.20	345.30	7,059.8	1,693.8	112.2	2.8	94.9	0.70	0.63	3.44
7,095.0	7.80	346.20	7,091.6	1,725.6	115.7	1.9	98.4	8.13	8.13	2.81
7,126.0	11.50	347.00	7,122.1	1,756.1	120.7	0.7	103.3	11.94	11.94	2.58
7,158.0	15.40	348.00	7,153.2	1,787.2	128.0	-0.9	110.4	12.21	12.19	3.13
7,190.0	19.30	347.60	7,183.8	1,817.8	137.3	-2.9	119.4	12.19	12.19	-1.25
7,221.0	22.90	346.90	7,212.7	1,846.7	148.2	-5.4	130.1	11.64	11.61	-2.26
7,253.0	26.50	344.70	7,241.7	1,875.7	161.2	-8.7	142.9	11.61	11.25	-6.88
7,285.0	29.50	344.60	7,270.0	1,904.0	175.7	-12.6	157.4	9.38	9.38	-0.31
7,316.0	31.80	342.70	7,296.7	1,930.7	190.8	-17.1	172.7	8.05	7.42	-6.13
7,348.0	34.10	340.80	7,323.5	1,957.5	207.3	-22.5	189.6	7.88	7.19	-5.94
7,379.0	37.30	340.90	7,348.7	1,982.7	224.4	-28.5	207.4	10.32	10.32	0.32
7,411.0	40.80	341.40	7,373.5	2,007.5	243.5	-35.0	227.1	10.98	10.94	1.56
7,443.0	45.20	341.50	7,396.9	2,030.9	264.2	-41.9	248.4	13.75	13.75	0.31
7,475.0	49.50	340.80	7,418.6	2,052.6	286.5	-49.5	271.4	13.53	13.44	-2.19
7,506.0	53.80	340.30	7,437.8	2,071.8	309.4	-57.6	295.2	13.93	13.87	-1.61
7,538.0	58.30	339.60	7,455.7	2,089.7	334.3	-66.7	321.3	14.18	14.06	-2.19
7,569.0	62.40	338.20	7,471.0	2,105.0	359.4	-76.4	347.9	13.80	13.23	-4.52
7,600.0	65.10	336.80	7,484.8	2,118.8	385.1	-87.1	375.4	9.61	8.71	-4.52
7,632.0	67.10	336.00	7,497.7	2,131.7	411.9	-98.8	404.4	6.65	6.25	-2.50
7,664.0	69.80	335.00	7,509.5	2,143.5	439.0	-111.1	434.0	8.92	8.44	-3.13
7,695.0	73.50	334.10	7,519.2	2,153.2	465.6	-123.8	463.3	12.25	11.94	-2.90
7,726.0	77.80	334.10	7,526.9	2,160.9	492.6	-136.9	493.2	13.87	13.87	0.00
7,754.0	80.80	333.00	7,532.1	2,166.1	517.2	-149.1	520.6	11.39	10.71	-3.93
7,820.0	87.40	329.00	7,538.9	2,172.9	574.6	-181.0	586.2	11.67	10.00	-6.06
7,851.0	88.80	329.60	7,539.9	2,173.9	601.2	-196.8	617.2	4.91	4.52	1.94
7,883.0	90.10	329.80	7,540.2	2,174.2	628.8	-212.9	649.2	4.11	4.06	0.63
7,915.0	90.50	329.90	7,540.1	2,174.1	656.5	-229.0	681.2	1.29	1.25	0.31
7,946.0	90.50	329.80	7,539.8	2,173.8	683.3	-244.6	712.2	0.32	0.00	-0.32
7,978.0	90.60	329.90	7,539.5	2,173.5	711.0	-260.6	744.2	0.44	0.31	0.31
8,009.0	90.00	329.50	7,539.3	2,173.3	737.7	-276.3	775.2	2.33	-1.94	-1.29
8,041.0	90.10	329.60	7,539.3	2,173.3	765.3	-292.5	807.2	0.44	0.31	0.31
8,073.0	90.20	329.10	7,539.2	2,173.2	792.9	-308.8	839.2	1.59	0.31	-1.56

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

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)
8,105.0	90.50	329.20	7,539.0	2,173.0	820.3	-325.2	871.2	0.99	0.94	0.31
8,136.0	90.70	329.20	7,538.7	2,172.7	847.0	-341.1	902.2	0.65	0.65	0.00
8,168.0	90.80	328.80	7,538.3	2,172.3	874.4	-357.6	934.1	1.29	0.31	-1.25
8,199.0	89.70	328.10	7,538.1	2,172.1	900.8	-373.8	965.1	4.21	-3.55	-2.26
8,231.0	89.10	328.00	7,538.5	2,172.5	928.0	-390.7	997.1	1.90	-1.88	-0.31
8,263.0	89.50	328.40	7,538.9	2,172.9	955.1	-407.6	1,029.1	1.77	1.25	1.25
8,294.0	89.50	328.60	7,539.1	2,173.1	981.6	-423.8	1,060.1	0.65	0.00	0.65
8,326.0	89.30	329.30	7,539.5	2,173.5	1,009.0	-440.3	1,092.1	2.27	-0.63	2.19
8,357.0	89.50	329.30	7,539.8	2,173.8	1,035.6	-456.1	1,123.1	0.65	0.65	0.00
8,389.0	89.50	329.70	7,540.1	2,174.1	1,063.2	-472.4	1,155.1	1.25	0.00	1.25
8,421.0	89.70	330.00	7,540.3	2,174.3	1,090.9	-488.4	1,187.1	1.13	0.63	0.94
8,453.0	89.60	330.50	7,540.5	2,174.5	1,118.7	-504.3	1,219.1	1.59	-0.31	1.56
8,485.0	89.80	331.10	7,540.7	2,174.7	1,146.6	-519.9	1,251.1	1.98	0.63	1.88
8,516.0	89.60	331.00	7,540.8	2,174.8	1,173.7	-534.9	1,282.1	0.72	-0.65	-0.32
8,580.0	89.20	329.90	7,541.5	2,175.5	1,229.4	-566.5	1,346.1	1.83	-0.63	-1.72
8,643.0	90.00	330.70	7,541.9	2,175.9	1,284.1	-597.7	1,409.0	1.80	1.27	1.27
8,706.0	89.70	331.20	7,542.1	2,176.1	1,339.2	-628.3	1,472.0	0.93	-0.48	0.79
8,770.0	89.80	331.90	7,542.4	2,176.4	1,395.5	-658.8	1,536.0	1.10	0.16	1.09
8,833.0	89.90	332.50	7,542.5	2,176.5	1,451.2	-688.2	1,598.9	0.97	0.16	0.95
8,896.0	89.90	333.50	7,542.6	2,176.6	1,507.3	-716.8	1,661.7	1.59	0.00	1.59
8,959.0	90.20	332.80	7,542.6	2,176.6	1,563.5	-745.2	1,724.6	1.21	0.48	-1.11
9,022.0	90.20	333.70	7,542.4	2,176.4	1,619.8	-773.6	1,787.4	1.43	0.00	1.43
9,086.0	89.80	332.20	7,542.4	2,176.4	1,676.8	-802.7	1,851.3	2.43	-0.63	-2.34
9,149.0	90.10	331.40	7,542.4	2,176.4	1,732.3	-832.4	1,914.2	1.36	0.48	-1.27
9,212.0	90.00	332.40	7,542.4	2,176.4	1,787.9	-862.1	1,977.2	1.60	-0.16	1.59
9,276.0	89.90	331.80	7,542.4	2,176.4	1,844.4	-892.1	2,041.1	0.95	-0.16	-0.94
9,339.0	89.60	331.10	7,542.7	2,176.7	1,899.8	-922.2	2,104.0	1.21	-0.48	-1.11
9,402.0	90.40	330.50	7,542.7	2,176.7	1,954.8	-952.9	2,167.0	1.59	1.27	-0.95
9,466.0	89.90	329.30	7,542.5	2,176.5	2,010.1	-985.0	2,231.0	2.03	-0.78	-1.88
9,528.0	89.80	328.00	7,542.7	2,176.7	2,063.1	-1,017.3	2,293.0	2.10	-0.16	-2.10
9,592.0	89.70	327.00	7,543.0	2,177.0	2,117.1	-1,051.6	2,357.0	1.57	-0.16	-1.56
9,656.0	90.20	327.70	7,543.0	2,177.0	2,171.0	-1,086.2	2,420.9	1.34	0.78	1.09
9,720.0	89.20	326.20	7,543.4	2,177.4	2,224.6	-1,121.1	2,484.9	2.82	-1.56	-2.34
9,784.0	90.40	327.40	7,543.6	2,177.6	2,278.1	-1,156.1	2,548.8	2.65	1.88	1.88
9,847.0	89.60	324.30	7,543.6	2,177.6	2,330.3	-1,191.5	2,611.7	5.08	-1.27	-4.92
9,911.0	89.90	324.30	7,543.9	2,177.9	2,382.2	-1,228.8	2,675.5	0.47	0.47	0.00
9,974.0	90.20	324.20	7,543.8	2,177.8	2,433.4	-1,265.6	2,738.2	0.50	0.48	-0.16
10,038.0	89.80	322.50	7,543.8	2,177.8	2,484.7	-1,303.8	2,801.9	2.73	-0.63	-2.66
10,102.0	89.70	323.20	7,544.1	2,178.1	2,535.7	-1,342.5	2,865.5	1.10	-0.16	1.09
10,165.0	90.10	324.30	7,544.2	2,178.2	2,586.5	-1,379.7	2,928.2	1.86	0.63	1.75
10,228.0	89.70	322.40	7,544.3	2,178.3	2,637.1	-1,417.3	2,990.9	3.08	-0.63	-3.02
10,292.0	89.60	320.60	7,544.7	2,178.7	2,687.2	-1,457.2	3,054.3	2.82	-0.16	-2.81
10,355.0	89.70	319.90	7,545.1	2,179.1	2,735.6	-1,497.5	3,116.5	1.12	0.16	-1.11

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

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)
10,418.0	90.40	319.50	7,545.0	2,179.0	2,783.6	-1,538.2	3,178.7	1.28	1.11	-0.63
10,482.0	89.00	318.70	7,545.4	2,179.4	2,832.0	-1,580.1	3,241.7	2.52	-2.19	-1.25
10,545.0	89.40	318.50	7,546.2	2,180.2	2,879.3	-1,621.8	3,303.6	0.71	0.63	-0.32
10,609.0	90.00	320.20	7,546.6	2,180.6	2,927.8	-1,663.5	3,366.6	2.82	0.94	2.66
10,672.0	89.60	321.60	7,546.8	2,180.8	2,976.7	-1,703.2	3,429.0	2.31	-0.63	2.22
10,735.0	90.80	322.80	7,546.6	2,180.6	3,026.5	-1,741.8	3,491.5	2.69	1.90	1.90
10,798.0	89.10	322.40	7,546.6	2,180.6	3,076.5	-1,780.1	3,554.1	2.77	-2.70	-0.63
10,862.0	89.60	323.80	7,547.4	2,181.4	3,127.7	-1,818.5	3,617.7	2.32	0.78	2.19
10,926.0	89.70	323.80	7,547.8	2,181.8	3,179.4	-1,856.3	3,681.4	0.16	0.16	0.00
10,989.0	90.70	326.30	7,547.5	2,181.5	3,231.0	-1,892.4	3,744.3	4.27	1.59	3.97
11,052.0	90.20	326.00	7,547.0	2,181.0	3,283.3	-1,927.5	3,807.2	0.93	-0.79	-0.48
11,116.0	90.20	325.80	7,546.8	2,180.8	3,336.3	-1,963.3	3,871.1	0.31	0.00	-0.31
11,179.0	89.50	325.40	7,547.0	2,181.0	3,388.3	-1,998.9	3,933.9	1.28	-1.11	-0.63
11,242.0	90.50	324.70	7,547.0	2,181.0	3,439.9	-2,035.0	3,996.8	1.94	1.59	-1.11
11,306.0	90.30	324.50	7,546.5	2,180.5	3,492.1	-2,072.1	4,060.6	0.44	-0.31	-0.31
11,368.0	90.30	324.30	7,546.2	2,180.2	3,542.5	-2,108.2	4,122.4	0.32	0.00	-0.32
11,400.0	90.80	324.80	7,545.9	2,179.9	3,588.6	-2,126.7	4,154.2	2.21	1.56	1.56
11,432.0	90.70	324.30	7,545.5	2,179.5	3,594.6	-2,145.3	4,186.1	1.59	-0.31	-1.56
11,464.0	91.30	324.80	7,544.9	2,178.9	3,620.7	-2,163.9	4,218.0	2.44	1.88	1.56
11,496.0	92.00	324.70	7,544.0	2,178.0	3,646.8	-2,182.3	4,249.9	2.21	2.19	-0.31
11,528.0	92.20	324.60	7,542.8	2,176.8	3,672.9	-2,200.8	4,281.8	0.70	0.63	-0.31
11,559.0	91.70	324.20	7,541.8	2,175.8	3,698.1	-2,218.9	4,312.7	2.07	-1.61	-1.29
11,591.0	91.70	324.30	7,540.8	2,174.8	3,724.1	-2,237.5	4,344.5	0.31	0.00	0.31
11,622.0	92.60	324.60	7,539.7	2,173.7	3,749.3	-2,255.6	4,375.4	3.06	2.90	0.97
11,654.0	92.30	324.70	7,538.3	2,172.3	3,775.3	-2,274.1	4,407.3	0.99	-0.94	0.31
11,686.0	90.80	324.80	7,537.4	2,171.4	3,801.5	-2,292.5	4,439.2	4.70	-4.69	0.31
11,717.0	88.70	324.30	7,537.6	2,171.6	3,826.7	-2,310.5	4,470.1	6.96	-6.77	-1.61
11,749.0	88.70	324.60	7,538.3	2,172.3	3,852.7	-2,329.1	4,501.9	0.94	0.00	0.94
11,781.0	88.90	324.30	7,539.0	2,173.0	3,878.8	-2,347.7	4,533.8	1.13	0.63	-0.94
11,813.0	88.70	324.60	7,539.6	2,173.6	3,904.8	-2,366.3	4,565.7	1.13	-0.63	0.94
11,844.0	90.10	325.00	7,540.0	2,174.0	3,930.1	-2,384.2	4,596.6	4.70	4.52	1.29
11,876.0	89.70	324.80	7,540.0	2,174.0	3,956.3	-2,402.6	4,628.5	1.40	-1.25	-0.63
11,907.0	89.10	324.70	7,540.3	2,174.3	3,981.6	-2,420.5	4,659.4	1.96	-1.94	-0.32
11,939.0	89.90	324.60	7,540.6	2,174.6	4,007.7	-2,439.0	4,691.3	2.52	2.50	-0.31
11,970.0	90.20	325.10	7,540.6	2,174.6	4,033.1	-2,456.8	4,722.2	1.88	0.97	1.61
12,002.0	89.30	324.30	7,540.7	2,174.7	4,059.2	-2,475.3	4,754.1	3.76	-2.81	-2.50
12,033.0	89.80	325.10	7,541.0	2,175.0	4,084.5	-2,493.2	4,785.0	3.04	1.61	2.58
12,065.0	90.20	325.80	7,541.0	2,175.0	4,110.8	-2,511.4	4,817.0	2.52	1.25	2.19
Projection to Bit										
12,114.0	90.20	325.80	7,540.8	2,174.8	4,151.4	-2,538.9	4,865.9	0.00	0.00	0.00

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

Survey Annotations				
Measured Depth ()	Vertical Depth ()	Local Coordinates		Comment
		+N/-S ()	+E/-W ()	
6,368.0	6,367.3	60.4	6.1	Tie into Original Surveys
12,114.0	7,540.8	4,151.4	-2,538.9	Projection to Bit

Checked By: _____ Approved By: _____ Date: _____



WELL DETAILS: Crier Creek #11-47H

FORMATION TOP DETAILS			
Interval	Easting	Latitude	Longitude
11-47H	500858.20	40° 55' 51.500 N	104° 28' 3.610 W
11-47H	500858.20	40° 55' 51.500 N	104° 28' 3.610 W

No plan data is available

FORMATION TOP DETAILS

No formation data is available

ANNOTATIONS

TVD	MD	Annotation
5297.3	6288.0	Tie into Original Surveys
7340.6	13114.0	Proposed to BA

CASINO DETAILS

No casing data is available

WELLBORE TARGET DETAILS (DATA LONG)

Name	TVD	+N-S	+E-W	Longitude	Latitude	Shapefile wellbore target data is available.
------	-----	------	------	-----------	----------	--



Access to This Report
is Restricted to:
Phoenix Technology Services, Inc.
Survey Data, 2022
Survey Data, 2022
Survey Data, 2022
Survey Data, 2022

