



## **EOG Resources**

**Weld Co., CO**

**Sec 27-T12N-R62W**

**Randall Creek #13-27H**

**Hz**

**Survey: Survey #1**

## **Standard Survey Report**

**01 September, 2011**



<b>Company:</b>	EOG Resources	<b>Local Co-ordinate Reference:</b>	Well Randall Creek #13-27H
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Site:</b>	Sec 27-T12N-R62W	<b>MD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Well:</b>	Randall Creek #13-27H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Hz	<b>Database:</b>	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 27-T12N-R62W			
Site Position:		Northing:		Latitude:	
From:	Lat/Long	Easting:		Longitude:	
Position Uncertainty:	0.0 ft	Slot Radius:		Grid Convergence:	1.00

Well	Randall Creek #13-27H					
Well Position	+N/-S	0.0 ft	Northing:	604,789.21 ft	Latitude:	40° 59' 14.740 N
	+E/-W	0.0 ft	Easting:	2,329,973.76 ft	Longitude:	104° 18' 17.490 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,315.0 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010-14	08/15/11	8.64	67.59	53,462

Design	Hz				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	157.50	

Survey Program		Date	09/01/11	
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
1,422.0	11,800.0	Survey #1 (Hz)	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)	
0.0	0.00	0.00	0.0	-5,340.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,422.0	0.00	0.00	1,422.0	-3,918.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,460.0	0.84	267.92	1,460.0	-3,880.0	0.0	-0.3	-0.1	2.21	2.21	0.00	
1,735.0	0.62	251.31	1,735.0	-3,605.0	-0.6	-3.7	-0.9	0.11	-0.08	-6.04	
2,014.0	0.62	217.73	2,014.0	-3,326.0	-2.2	-6.1	-0.3	0.13	0.00	-12.04	
2,305.0	0.97	208.68	2,304.9	-3,035.1	-5.6	-8.2	2.1	0.13	0.12	-3.11	
2,595.0	0.79	225.64	2,594.9	-2,745.1	-9.2	-10.8	4.4	0.11	-0.06	5.85	
2,882.0	0.88	194.18	2,881.9	-2,458.1	-12.7	-12.8	6.9	0.16	0.03	-10.96	
3,169.0	1.01	203.14	3,168.8	-2,171.2	-17.2	-14.3	10.4	0.07	0.05	3.12	
3,458.0	1.01	209.12	3,457.8	-1,882.2	-21.7	-16.5	13.8	0.04	0.00	2.07	

<b>Company:</b>	EOG Resources	<b>Local Co-ordinate Reference:</b>	Well Randall Creek #13-27H
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Site:</b>	Sec 27-T12N-R62W	<b>MD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Well:</b>	Randall Creek #13-27H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Hz	<b>Database:</b>	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)
3,747.0	1.32	218.00	3,746.7	-1,593.3	-26.6	-19.8	17.0	0.12	0.11	3.07
4,033.0	1.05	222.92	4,032.7	-1,307.3	-31.1	-23.6	19.7	0.10	-0.09	1.72
4,320.0	1.05	229.86	4,319.6	-1,020.4	-34.7	-27.4	21.6	0.04	0.00	2.42
4,609.0	0.84	224.32	4,608.6	-731.4	-38.0	-30.9	23.2	0.08	-0.07	-1.92
4,898.0	0.79	188.29	4,897.5	-442.5	-41.4	-32.7	25.8	0.18	-0.02	-12.47
5,186.0	0.66	200.68	5,185.5	-154.5	-45.0	-33.6	28.7	0.07	-0.05	4.30
5,477.0	0.48	142.32	5,476.5	136.5	-47.5	-33.4	31.1	0.20	-0.06	-20.06
5,765.0	0.31	354.84	5,764.5	424.5	-47.7	-32.8	31.5	0.26	-0.06	-51.21
6,055.0	0.70	41.77	6,054.5	714.5	-45.6	-31.7	30.0	0.19	0.13	16.18
6,344.0	0.79	27.18	6,343.5	1,003.5	-42.5	-29.6	27.9	0.07	0.03	-5.05
6,632.0	0.75	20.42	6,631.5	1,291.5	-38.9	-28.0	25.3	0.03	-0.01	-2.35
6,646.0	0.75	20.68	6,645.4	1,305.4	-38.8	-27.9	25.1	0.02	0.00	1.86
6,695.0	0.53	69.46	6,694.4	1,354.4	-38.4	-27.6	24.9	1.15	-0.45	99.55
6,727.0	1.54	137.66	6,726.4	1,386.4	-38.7	-27.2	25.3	4.47	3.16	213.13
6,760.0	3.52	149.00	6,759.4	1,419.4	-39.9	-26.4	26.7	6.16	6.00	34.36
6,791.0	5.27	152.96	6,790.3	1,450.3	-41.9	-25.2	29.1	5.73	5.65	12.77
6,822.0	7.30	155.07	6,821.1	1,481.1	-45.0	-23.7	32.5	6.59	6.55	6.81
6,854.0	10.02	156.30	6,852.8	1,512.8	-49.4	-21.8	37.3	8.52	8.50	3.84
6,885.0	13.05	156.47	6,883.1	1,543.1	-55.1	-19.3	43.5	9.77	9.77	0.55
6,917.0	16.70	156.38	6,914.1	1,574.1	-62.6	-16.0	51.7	11.41	11.41	-0.28
6,948.0	21.10	155.51	6,943.4	1,603.4	-71.8	-11.9	61.7	14.22	14.19	-2.81
6,981.0	25.76	155.33	6,973.6	1,633.6	-83.7	-6.4	74.8	14.12	14.12	-0.55
7,012.0	29.32	155.51	7,001.1	1,661.1	-96.7	-0.5	89.2	11.49	11.48	0.58
7,044.0	31.82	156.21	7,028.7	1,688.7	-111.6	6.2	105.4	7.89	7.81	2.19
7,075.0	34.24	157.44	7,054.7	1,714.7	-127.1	12.8	122.3	8.10	7.81	3.97
7,107.0	37.19	158.76	7,080.6	1,740.6	-144.4	19.8	141.0	9.53	9.22	4.13
7,139.0	40.57	159.20	7,105.6	1,765.6	-163.2	27.0	161.1	10.60	10.56	1.38
7,170.0	43.30	159.37	7,128.6	1,788.6	-182.6	34.3	181.8	8.81	8.81	0.55
7,201.0	46.29	157.70	7,150.6	1,810.6	-202.9	42.3	203.6	10.36	9.65	-5.39
7,233.0	49.32	156.38	7,172.1	1,832.1	-224.7	51.5	227.3	9.95	9.47	-4.13
7,264.0	52.79	155.77	7,191.6	1,851.6	-246.7	61.3	251.4	11.30	11.19	-1.97
7,297.0	56.70	155.59	7,210.6	1,870.6	-271.3	72.4	278.4	11.86	11.85	-0.55
7,329.0	60.66	156.12	7,227.3	1,887.3	-296.2	83.6	305.7	12.46	12.38	1.66
7,361.0	64.84	156.47	7,241.9	1,901.9	-322.3	95.0	334.1	13.10	13.06	1.09
7,392.0	67.96	156.82	7,254.3	1,914.3	-348.3	106.3	362.5	10.12	10.06	1.13
7,424.0	70.95	157.35	7,265.5	1,925.5	-375.9	118.0	392.5	9.47	9.34	1.66
7,456.0	74.33	157.79	7,275.1	1,935.1	-404.2	129.6	423.0	10.64	10.56	1.38
7,488.0	77.80	157.79	7,282.8	1,942.8	-432.9	141.3	454.1	10.84	10.84	0.00
7,520.0	80.57	157.79	7,288.8	1,948.8	-462.0	153.2	485.5	8.66	8.66	0.00
7,552.0	83.74	157.35	7,293.2	1,953.2	-491.3	165.3	517.2	10.00	9.91	-1.38
7,583.0	85.36	157.00	7,296.1	1,956.1	-519.8	177.3	548.0	5.35	5.23	-1.13
7,616.0	86.37	156.65	7,298.5	1,958.5	-550.0	190.2	581.0	3.24	3.06	-1.06
7,673.0	88.66	157.38	7,301.0	1,961.0	-602.4	212.5	637.9	4.22	4.02	1.28

<b>Company:</b>	EOG Resources	<b>Local Co-ordinate Reference:</b>	Well Randall Creek #13-27H
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Site:</b>	Sec 27-T12N-R62W	<b>MD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Well:</b>	Randall Creek #13-27H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Hz	<b>Database:</b>	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)
7,705.0	88.53	157.79	7,301.7	1,961.7	-632.0	224.7	669.9	1.34	-0.41	1.28
7,737.0	88.18	156.82	7,302.7	1,962.7	-661.5	237.0	701.9	3.22	-1.09	-3.03
7,768.0	87.78	156.47	7,303.8	1,963.8	-690.0	249.3	732.8	1.71	-1.29	-1.13
7,800.0	87.25	156.74	7,305.1	1,965.1	-719.3	262.0	764.8	1.86	-1.66	0.84
7,833.0	87.03	156.91	7,306.8	1,966.8	-749.6	275.0	797.8	0.84	-0.67	0.52
7,865.0	87.65	157.53	7,308.3	1,968.3	-779.1	287.3	829.7	2.74	1.94	1.94
7,897.0	88.75	157.35	7,309.3	1,969.3	-808.6	299.6	861.7	3.48	3.44	-0.56
7,930.0	88.79	156.91	7,310.0	1,970.0	-839.0	312.4	894.7	1.34	0.12	-1.33
7,962.0	89.27	157.18	7,310.5	1,970.5	-868.5	324.9	926.7	1.72	1.50	0.84
8,026.0	89.71	157.70	7,311.1	1,971.1	-927.6	349.5	990.7	1.06	0.69	0.81
8,057.0	89.54	157.79	7,311.3	1,971.3	-956.3	361.2	1,021.7	0.62	-0.55	0.29
8,122.0	90.42	158.58	7,311.3	1,971.3	-1,016.6	385.4	1,086.7	1.82	1.35	1.22
8,153.0	90.55	159.02	7,311.1	1,971.1	-1,045.5	396.6	1,117.7	1.48	0.42	1.42
8,185.0	90.37	158.93	7,310.8	1,970.8	-1,075.4	408.0	1,149.7	0.63	-0.56	-0.28
8,218.0	90.20	158.32	7,310.6	1,970.6	-1,106.1	420.1	1,182.7	1.92	-0.52	-1.85
8,250.0	90.11	158.05	7,310.6	1,970.6	-1,135.8	432.0	1,214.7	0.89	-0.28	-0.84
8,282.0	89.89	157.61	7,310.6	1,970.6	-1,165.5	444.0	1,246.7	1.54	-0.69	-1.38
8,315.0	90.33	157.35	7,310.5	1,970.5	-1,195.9	456.7	1,279.7	1.55	1.33	-0.79
8,347.0	90.11	157.09	7,310.4	1,970.4	-1,225.4	469.1	1,311.7	1.06	-0.69	-0.81
8,412.0	89.98	156.65	7,310.3	1,970.3	-1,285.2	494.6	1,376.7	0.71	-0.20	-0.68
8,444.0	90.11	158.05	7,310.3	1,970.3	-1,314.7	506.9	1,408.7	4.39	0.41	4.38
8,507.0	90.68	158.14	7,309.9	1,969.9	-1,373.2	530.4	1,471.7	0.92	0.90	0.14
8,538.0	90.64	157.97	7,309.5	1,969.5	-1,401.9	542.0	1,502.6	0.56	-0.13	-0.55
8,569.0	90.59	157.97	7,309.2	1,969.2	-1,430.7	553.6	1,533.6	0.16	-0.16	0.00
8,601.0	90.46	157.97	7,308.9	1,968.9	-1,460.3	565.6	1,565.6	0.41	-0.41	0.00
8,634.0	90.24	158.32	7,308.7	1,968.7	-1,491.0	577.9	1,598.6	1.25	-0.67	1.06
8,665.0	90.07	158.14	7,308.6	1,968.6	-1,519.8	589.4	1,629.6	0.80	-0.55	-0.58
8,698.0	90.81	158.05	7,308.3	1,968.3	-1,550.4	601.7	1,662.6	2.26	2.24	-0.27
8,729.0	90.99	158.14	7,307.9	1,967.9	-1,579.1	613.3	1,693.6	0.65	0.58	0.29
8,761.0	90.77	158.23	7,307.4	1,967.4	-1,608.8	625.2	1,725.6	0.74	-0.69	0.28
8,792.0	90.46	157.70	7,307.0	1,967.0	-1,637.6	636.8	1,756.6	1.98	-1.00	-1.71
8,824.0	90.33	157.09	7,306.8	1,966.8	-1,667.1	649.1	1,788.6	1.95	-0.41	-1.91
8,857.0	89.93	156.56	7,306.7	1,966.7	-1,697.5	662.1	1,821.6	2.01	-1.21	-1.61
8,889.0	90.77	155.94	7,306.5	1,966.5	-1,726.7	675.0	1,853.6	3.26	2.63	-1.94
8,921.0	90.68	155.68	7,306.1	1,966.1	-1,755.9	688.1	1,885.6	0.86	-0.28	-0.81
8,954.0	90.73	155.77	7,305.7	1,965.7	-1,786.0	701.7	1,918.6	0.31	0.15	0.27
8,986.0	90.51	155.24	7,305.4	1,965.4	-1,815.1	714.9	1,950.6	1.79	-0.69	-1.66
9,019.0	90.07	154.01	7,305.2	1,965.2	-1,844.9	729.1	1,983.5	3.96	-1.33	-3.73
9,051.0	89.54	153.57	7,305.3	1,965.3	-1,873.7	743.2	2,015.4	2.15	-1.66	-1.38
9,082.0	90.51	153.13	7,305.3	1,965.3	-1,901.4	757.1	2,046.4	3.44	3.13	-1.42
9,115.0	90.64	152.98	7,305.0	1,965.0	-1,930.8	772.1	2,079.3	0.65	0.39	-0.52
9,147.0	91.16	152.87	7,304.5	1,964.5	-1,959.3	786.6	2,111.2	1.65	1.63	-0.28



<b>Company:</b>	EOG Resources	<b>Local Co-ordinate Reference:</b>	Well Randall Creek #13-27H
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Site:</b>	Sec 27-T12N-R62W	<b>MD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Well:</b>	Randall Creek #13-27H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Hz	<b>Database:</b>	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)
9,179.0	91.21	152.60	7,303.8	1,963.8	-1,987.7	801.3	2,143.0	0.86	0.16	-0.84
9,211.0	90.90	152.17	7,303.2	1,963.2	-2,016.0	816.1	2,174.9	1.66	-0.97	-1.34
9,244.0	90.73	151.81	7,302.8	1,962.8	-2,045.2	831.6	2,207.7	1.21	-0.52	-1.09
9,276.0	91.03	153.04	7,302.3	1,962.3	-2,073.5	846.4	2,239.6	3.96	0.94	3.84
9,309.0	91.65	154.80	7,301.5	1,961.5	-2,103.2	860.9	2,272.5	5.65	1.88	5.33
9,341.0	91.38	155.33	7,300.6	1,960.6	-2,132.2	874.4	2,304.5	1.86	-0.84	1.66
9,373.0	91.34	154.36	7,299.9	1,959.9	-2,161.1	888.0	2,336.5	3.03	-0.13	-3.03
9,405.0	91.43	155.33	7,299.1	1,959.1	-2,190.1	901.6	2,368.4	3.04	0.28	3.03
9,437.0	91.34	155.51	7,298.3	1,958.3	-2,219.2	914.9	2,400.4	0.63	-0.28	0.56
9,468.0	90.64	155.68	7,297.8	1,957.8	-2,247.4	927.7	2,431.4	2.32	-2.26	0.55
9,500.0	89.76	156.74	7,297.7	1,957.7	-2,276.7	940.6	2,463.4	4.31	-2.75	3.31
9,532.0	89.67	157.61	7,297.9	1,957.9	-2,306.2	953.1	2,495.4	2.73	-0.28	2.72
9,564.0	89.45	157.35	7,298.1	1,958.1	-2,335.7	965.3	2,527.4	1.06	-0.69	-0.81
9,597.0	89.76	157.53	7,298.3	1,958.3	-2,366.2	978.0	2,560.3	1.09	0.94	0.55
9,629.0	90.24	158.32	7,298.3	1,958.3	-2,395.9	990.0	2,592.3	2.89	1.50	2.47
9,661.0	90.90	158.85	7,298.0	1,958.0	-2,425.7	1,001.7	2,624.3	2.65	2.06	1.66
9,693.0	90.77	158.85	7,297.5	1,957.5	-2,455.5	1,013.2	2,656.3	0.41	-0.41	0.00
9,726.0	90.68	158.58	7,297.1	1,957.1	-2,486.2	1,025.2	2,689.3	0.86	-0.27	-0.82
9,758.0	91.03	158.49	7,296.6	1,956.6	-2,516.0	1,036.9	2,721.3	1.13	1.09	-0.28
9,789.0	90.86	158.32	7,296.1	1,956.1	-2,544.8	1,048.3	2,752.3	0.78	-0.55	-0.55
9,822.0	90.64	157.53	7,295.7	1,955.7	-2,575.4	1,060.7	2,785.3	2.48	-0.67	-2.39
9,855.0	90.59	157.44	7,295.3	1,955.3	-2,605.9	1,073.4	2,818.3	0.31	-0.15	-0.27
9,886.0	90.33	157.00	7,295.1	1,955.1	-2,634.5	1,085.4	2,849.3	1.65	-0.84	-1.42
9,919.0	89.89	156.91	7,295.0	1,955.0	-2,664.8	1,098.3	2,882.3	1.36	-1.33	-0.27
9,951.0	90.07	157.18	7,295.0	1,955.0	-2,694.3	1,110.8	2,914.3	1.01	0.56	0.84
9,983.0	90.86	157.35	7,294.8	1,954.8	-2,723.8	1,123.1	2,946.3	2.53	2.47	0.53
10,015.0	90.99	157.53	7,294.3	1,954.3	-2,753.4	1,135.4	2,978.3	0.69	0.41	0.56
10,047.0	90.51	156.91	7,293.9	1,953.9	-2,782.9	1,147.8	3,010.3	2.45	-1.50	-1.94
10,078.0	90.11	155.68	7,293.7	1,953.7	-2,811.3	1,160.3	3,041.3	4.17	-1.29	-3.97
10,109.0	89.89	155.15	7,293.7	1,953.7	-2,839.4	1,173.2	3,072.3	1.85	-0.71	-1.71
10,141.0	89.89	156.30	7,293.7	1,953.7	-2,868.6	1,186.3	3,104.2	3.59	0.00	3.59
10,173.0	89.80	157.53	7,293.8	1,953.8	-2,898.1	1,198.9	3,136.2	3.85	-0.28	3.84
10,205.0	89.89	157.61	7,293.9	1,953.9	-2,927.6	1,211.1	3,168.2	0.38	0.28	0.25
10,238.0	89.98	157.79	7,294.0	1,954.0	-2,958.2	1,223.6	3,201.2	0.61	0.27	0.55
10,270.0	89.41	157.26	7,294.1	1,954.1	-2,987.7	1,235.8	3,233.2	2.43	-1.78	-1.66
10,302.0	88.92	157.18	7,294.6	1,954.6	-3,017.2	1,248.2	3,265.2	1.55	-1.53	-0.25
10,333.0	88.57	156.38	7,295.3	1,955.3	-3,045.7	1,260.4	3,296.2	2.82	-1.13	-2.58
10,366.0	89.19	157.26	7,295.9	1,955.9	-3,076.0	1,273.4	3,329.2	3.26	1.88	2.67
10,398.0	89.76	157.26	7,296.2	1,956.2	-3,105.6	1,285.8	3,361.2	1.78	1.78	0.00
10,430.0	89.58	156.82	7,296.4	1,956.4	-3,135.0	1,298.3	3,393.2	1.49	-0.56	-1.38
10,462.0	90.51	157.00	7,296.4	1,956.4	-3,164.5	1,310.8	3,425.2	2.96	2.91	0.56
10,494.0	90.73	156.91	7,296.0	1,956.0	-3,193.9	1,323.3	3,457.2	0.74	0.69	-0.28
10,526.0	90.73	156.38	7,295.6	1,955.6	-3,223.3	1,336.0	3,489.2	1.66	0.00	-1.66

<b>Company:</b>	EOG Resources	<b>Local Co-ordinate Reference:</b>	Well Randall Creek #13-27H
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Site:</b>	Sec 27-T12N-R62W	<b>MD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Well:</b>	Randall Creek #13-27H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Hz	<b>Database:</b>	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)
10,559.0	90.77	156.82	7,295.2	1,955.2	-3,253.6	1,349.1	3,522.2	1.34	0.12	1.33
10,591.0	90.99	157.97	7,294.7	1,954.7	-3,283.1	1,361.4	3,554.2	3.66	0.69	3.59
10,622.0	90.99	157.88	7,294.2	1,954.2	-3,311.8	1,373.1	3,585.2	0.29	0.00	-0.29
10,655.0	90.95	157.61	7,293.6	1,953.6	-3,342.4	1,385.6	3,618.2	0.83	-0.12	-0.82
10,687.0	89.63	157.70	7,293.4	1,953.4	-3,372.0	1,397.7	3,650.2	4.13	-4.13	0.28
10,719.0	89.58	157.79	7,293.7	1,953.7	-3,401.6	1,409.9	3,682.2	0.32	-0.16	0.28
10,749.0	90.29	158.49	7,293.7	1,953.7	-3,429.4	1,421.0	3,712.2	3.32	2.37	2.33
10,782.0	90.55	158.41	7,293.4	1,953.4	-3,460.1	1,433.1	3,745.2	0.82	0.79	-0.24
10,813.0	90.29	158.05	7,293.2	1,953.2	-3,488.9	1,444.6	3,776.2	1.43	-0.84	-1.16
10,845.0	89.58	157.26	7,293.3	1,953.3	-3,518.5	1,456.8	3,808.2	3.32	-2.22	-2.47
10,877.0	89.49	156.74	7,293.5	1,953.5	-3,547.9	1,469.3	3,840.2	1.65	-0.28	-1.63
10,910.0	89.93	156.21	7,293.7	1,953.7	-3,578.2	1,482.5	3,873.2	2.09	1.33	-1.61
10,942.0	89.67	157.09	7,293.8	1,953.8	-3,607.6	1,495.2	3,905.1	2.87	-0.81	2.75
10,974.0	89.63	157.00	7,294.0	1,954.0	-3,637.0	1,507.6	3,937.1	0.31	-0.13	-0.28
11,007.0	90.11	156.38	7,294.1	1,954.1	-3,667.4	1,520.7	3,970.1	2.38	1.45	-1.88
11,038.0	90.55	155.59	7,293.9	1,953.9	-3,695.7	1,533.3	4,001.1	2.92	1.42	-2.55
11,070.0	90.29	154.71	7,293.7	1,953.7	-3,724.7	1,546.8	4,033.1	2.87	-0.81	-2.75
11,103.0	90.73	155.51	7,293.4	1,953.4	-3,754.6	1,560.7	4,066.1	2.77	1.33	2.42
11,136.0	90.99	154.80	7,292.9	1,952.9	-3,784.6	1,574.5	4,099.0	2.29	0.79	-2.15
11,168.0	90.81	154.36	7,292.4	1,952.4	-3,813.5	1,588.3	4,131.0	1.49	-0.56	-1.38
11,199.0	90.86	154.98	7,291.9	1,951.9	-3,841.5	1,601.5	4,162.0	2.01	0.16	2.00
11,230.0	91.12	156.03	7,291.4	1,951.4	-3,869.7	1,614.4	4,192.9	3.49	0.84	3.39
11,261.0	91.08	157.00	7,290.8	1,950.8	-3,898.1	1,626.7	4,223.9	3.13	-0.13	3.13
11,293.0	91.38	158.05	7,290.1	1,950.1	-3,927.7	1,638.9	4,255.9	3.41	0.94	3.28
11,325.0	91.12	159.02	7,289.4	1,949.4	-3,957.5	1,650.7	4,287.9	3.14	-0.81	3.03
11,358.0	90.73	159.55	7,288.9	1,948.9	-3,988.3	1,662.3	4,320.9	1.99	-1.18	1.61
11,390.0	90.46	159.90	7,288.5	1,948.5	-4,018.3	1,673.4	4,352.9	1.38	-0.84	1.09
11,422.0	90.42	160.34	7,288.3	1,948.3	-4,048.4	1,684.3	4,384.8	1.38	-0.13	1.38
11,453.0	90.20	160.34	7,288.1	1,948.1	-4,077.6	1,694.7	4,415.8	0.71	-0.71	0.00
11,485.0	90.33	159.99	7,288.0	1,948.0	-4,107.7	1,705.6	4,447.7	1.17	0.41	-1.09
11,517.0	90.37	159.81	7,287.8	1,947.8	-4,137.8	1,716.6	4,479.7	0.58	0.13	-0.56
11,549.0	90.37	159.11	7,287.6	1,947.6	-4,167.7	1,727.8	4,511.7	2.19	0.00	-2.19
11,581.0	90.37	158.49	7,287.4	1,947.4	-4,197.6	1,739.4	4,543.7	1.94	0.00	-1.94
11,613.0	90.59	159.11	7,287.1	1,947.1	-4,227.4	1,751.0	4,575.7	2.08	0.69	1.94
11,645.0	90.37	159.37	7,286.8	1,946.8	-4,257.3	1,762.3	4,607.7	1.06	-0.69	0.81
11,678.0	90.33	159.28	7,286.6	1,946.6	-4,288.2	1,773.9	4,640.6	0.30	-0.12	-0.27
11,710.0	90.24	158.85	7,286.5	1,946.5	-4,318.1	1,785.4	4,672.6	1.37	-0.28	-1.34
11,743.0	90.20	158.32	7,286.3	1,946.3	-4,348.8	1,797.4	4,705.6	1.61	-0.12	-1.61
<b>Projection to Bit</b>										
11,800.0	90.20	158.32	7,286.1	1,946.1	-4,401.8	1,818.5	4,762.6	0.00	0.00	0.00

<b>Company:</b>	EOG Resources	<b>Local Co-ordinate Reference:</b>	Well Randall Creek #13-27H
<b>Project:</b>	Weld Co., CO	<b>TVD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Site:</b>	Sec 27-T12N-R62W	<b>MD Reference:</b>	RC 13-27H KBE @ 5340.0ft (True 30)
<b>Well:</b>	Randall Creek #13-27H	<b>North Reference:</b>	True
<b>Wellbore:</b>	Hz	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Hz	<b>Database:</b>	Local

Survey Annotations				
Measured Depth ( )	Vertical Depth ( )	Local Coordinates		Comment
		+N/-S ( )	+E/-W ( )	
11,800.0	7,286.1	-4,401.8	1,818.5	Projection to Bit

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

