



**Scientific
Drilling**

Survey Certification

7327 West Barton Road
Casper, WY 82604
(307)-472-6621 Fax (307) 472-5439

Operator	EnCana Oil & Gas (USA) Inc
Well Name & No.	Maier 4A-28H
County & State	Weld County, CO
SDI Job No.	410813HMP45856
Rig	Ensign 124
Survey Date	9-Sep-2013

I, Seth M. Burstad, having personal knowledge of all the facts, hereby
certify that the attached directional survey run from a measured depth of 218 feet to a
measured depth of 11825 feet is true and correct as determined from all available records.

Seth Burstad
Signature

12-Sep-2013
Date

Seth M. Burstad
Rockies Region Well Planner
Scientific Drilling - Rocky Mountain District



EnCana Oil & Gas (USA) Inc

**DJ Wattenberg
S28-T2N-R66W (Maier)
Maier 4A-28H**

Hz

Design: Hz

Standard Survey Report

12 September, 2013





Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Maier 4A-28H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4987.00ft (Ensign 124)
Site:	S28-T2N-R66W (Maier)	MD Reference:	WELL @ 4987.00ft (Ensign 124)
Well:	Maier 4A-28H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Project	DJ Wattenberg		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	S28-T2N-R66W (Maier)		
Site Position:		Northing:	1,281,419.45 usft
From:	Lat/Long	Easting:	3,201,127.68 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	40° 6' 13.140 N
		Longitude:	104° 46' 51.528 W
		Grid Convergence:	0.46 °

Well	Maier 4A-28H		
Well Position	+N/-S	0.00 ft	Northing: 1,281,419.45 usft
	+E/-W	0.00 ft	Easting: 3,201,127.68 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 6' 13.140 N
		Longitude:	104° 46' 51.528 W
		Ground Level:	4,974.00 ft

Wellbore	Hz				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/6/2013	8.56	66.73	52,747

Design	Hz				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00		0.00

Survey Program	Date	9/12/2013			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
218.00	1,113.00	Survey #1 - Surface MWD (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1	
1,189.00	7,585.00	Survey #2 - Vert/Curve MWD (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1	
7,678.00	11,825.00	Survey #3 - Lateral MWD (Hz)	SDI MWD	SDI MWD - Standard ver 1.0.1	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
218.00	0.65	142.34	218.00	-0.98	0.76	-0.98	0.30	0.30	0.00	
First SDI MWD Survey										
249.00	0.24	91.18	248.99	-1.12	0.93	-1.12	1.72	-1.32	-165.03	
342.00	1.10	173.04	341.99	-2.01	1.23	-2.01	1.17	0.92	88.02	
435.00	1.65	170.28	434.96	-4.22	1.56	-4.22	0.60	0.59	-2.97	
528.00	2.11	195.91	527.91	-7.18	1.32	-7.18	1.02	0.49	27.56	
621.00	2.51	194.70	620.84	-10.80	0.34	-10.80	0.43	0.43	-1.30	
714.00	3.54	199.03	713.71	-15.48	-1.12	-15.48	1.13	1.11	4.66	



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Well:	Maier 4A-28H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
807.00	3.81	202.45	806.51	-21.05	-3.23	-21.05	0.37	0.29	3.68
900.00	4.82	200.19	899.25	-27.57	-5.76	-27.57	1.10	1.09	-2.43
993.00	5.21	205.72	991.89	-35.05	-8.94	-35.05	0.67	0.42	5.95
1,086.00	6.35	201.98	1,084.42	-43.62	-12.70	-43.62	1.29	1.23	-4.02
1,113.00	6.68	202.53	1,111.25	-46.45	-13.86	-46.45	1.24	1.22	2.04
1,189.00	7.21	204.03	1,186.69	-54.89	-17.50	-54.89	0.74	0.70	1.97
1,282.00	10.11	205.96	1,278.62	-67.57	-23.45	-67.57	3.13	3.12	2.08
1,376.00	11.26	203.15	1,370.99	-83.42	-30.67	-83.42	1.34	1.22	-2.99
1,468.00	13.01	194.71	1,460.94	-101.70	-36.83	-101.70	2.70	1.90	-9.17
1,561.00	14.42	198.14	1,551.28	-122.83	-43.09	-122.83	1.75	1.52	3.69
1,654.00	15.92	196.21	1,641.04	-146.08	-50.26	-146.08	1.70	1.61	-2.08
1,747.00	17.32	195.59	1,730.15	-171.67	-57.54	-171.67	1.52	1.51	-0.67
1,840.00	15.56	192.69	1,819.35	-197.17	-64.00	-197.17	2.09	-1.89	-3.12
1,933.00	14.33	188.12	1,909.20	-220.74	-68.37	-220.74	1.83	-1.32	-4.91
2,028.00	14.16	186.27	2,001.28	-243.93	-71.30	-243.93	0.51	-0.18	-1.95
2,123.00	13.45	190.23	2,093.54	-266.35	-74.53	-266.35	1.24	-0.75	4.17
2,218.00	11.78	193.13	2,186.25	-286.67	-78.69	-286.67	1.88	-1.76	3.05
2,312.00	11.26	194.27	2,278.35	-304.91	-83.14	-304.91	0.60	-0.55	1.21
2,407.00	11.17	194.36	2,371.54	-322.81	-87.70	-322.81	0.10	-0.09	0.09
2,502.00	9.85	197.44	2,464.94	-339.48	-92.42	-339.48	1.51	-1.39	3.24
2,598.00	11.17	193.92	2,559.33	-356.34	-97.12	-356.34	1.53	1.38	-3.67
2,692.00	10.20	191.81	2,651.70	-373.32	-101.01	-373.32	1.11	-1.03	-2.24
2,787.00	10.55	193.92	2,745.15	-390.00	-104.83	-390.00	0.54	0.37	2.22
2,882.00	11.52	196.21	2,838.39	-407.55	-109.57	-407.55	1.12	1.02	2.41
2,977.00	11.78	196.12	2,931.43	-425.97	-114.91	-425.97	0.27	0.27	-0.09
3,072.00	14.07	194.18	3,024.02	-446.49	-120.43	-446.49	2.45	2.41	-2.04
3,167.00	13.45	191.11	3,116.29	-468.53	-125.39	-468.53	1.01	-0.65	-3.23
3,262.00	10.73	196.38	3,209.18	-487.86	-130.01	-487.86	3.09	-2.86	5.55
3,357.00	8.88	194.80	3,302.79	-503.43	-134.38	-503.43	1.97	-1.95	-1.66
3,452.00	9.94	192.25	3,396.51	-518.53	-137.99	-518.53	1.20	1.12	-2.68
3,547.00	8.27	194.54	3,490.31	-533.16	-141.45	-533.16	1.80	-1.76	2.41
3,642.00	8.00	195.68	3,584.35	-546.14	-144.95	-546.14	0.33	-0.28	1.20
3,737.00	6.24	194.18	3,678.62	-557.51	-148.00	-557.51	1.86	-1.85	-1.58
3,832.00	5.89	193.48	3,773.09	-567.26	-150.40	-567.26	0.38	-0.37	-0.74
3,927.00	5.19	192.34	3,867.64	-576.19	-152.46	-576.19	0.75	-0.74	-1.20
4,022.00	4.04	197.26	3,962.33	-583.59	-154.37	-583.59	1.28	-1.21	5.18
4,117.00	2.81	186.80	4,057.16	-589.10	-155.64	-589.10	1.45	-1.29	-11.01
4,211.00	3.69	193.92	4,151.01	-594.32	-156.64	-594.32	1.03	0.94	7.57
4,306.00	3.43	205.35	4,245.83	-599.86	-158.59	-599.86	0.79	-0.27	12.03
4,401.00	3.69	201.74	4,340.65	-605.26	-160.94	-605.26	0.36	0.27	-3.80
4,496.00	1.58	192.52	4,435.54	-609.38	-162.36	-609.38	2.26	-2.22	-9.71
4,591.00	1.14	188.12	4,530.51	-611.60	-162.77	-611.60	0.48	-0.46	-4.63
4,686.00	1.23	186.36	4,625.49	-613.55	-163.02	-613.55	0.10	0.09	-1.85

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Well:	Maier 4A-28H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,781.00	1.76	218.09	4,720.46	-615.71	-164.03	-615.71	1.01	0.56	33.40
4,876.00	0.35	160.79	4,815.44	-617.13	-164.84	-617.13	1.68	-1.48	-60.32
4,971.00	0.70	119.30	4,910.44	-617.69	-164.24	-617.69	0.52	0.37	-43.67
5,066.00	0.70	126.68	5,005.43	-618.32	-163.26	-618.32	0.09	0.00	7.77
5,160.00	0.70	195.15	5,099.43	-619.21	-162.95	-619.21	0.84	0.00	72.84
5,255.00	0.62	216.16	5,194.42	-620.19	-163.41	-620.19	0.27	-0.08	22.12
5,350.00	0.70	167.82	5,289.42	-621.17	-163.59	-621.17	0.57	0.08	-50.88
5,445.00	1.23	194.36	5,384.40	-622.73	-163.72	-622.73	0.72	0.56	27.94
5,540.00	0.79	222.31	5,479.39	-624.20	-164.41	-624.20	0.68	-0.46	29.42
5,634.00	1.49	211.24	5,573.37	-625.72	-165.48	-625.72	0.78	0.74	-11.78
5,729.00	1.23	323.74	5,668.35	-625.96	-166.73	-625.96	2.39	-0.27	118.42
5,824.00	1.14	319.60	5,763.33	-624.42	-167.94	-624.42	0.13	-0.09	-4.36
5,919.00	1.49	305.98	5,858.31	-622.97	-169.56	-622.97	0.49	0.37	-14.34
6,014.00	1.32	269.77	5,953.28	-622.25	-171.65	-622.25	0.93	-0.18	-38.12
6,109.00	1.14	291.74	6,048.26	-621.90	-173.62	-621.90	0.53	-0.19	23.13
6,204.00	0.53	291.48	6,143.25	-621.39	-174.91	-621.39	0.64	-0.64	-0.27
6,298.00	0.70	301.68	6,237.25	-620.93	-175.80	-620.93	0.21	0.18	10.85
6,393.00	0.88	337.89	6,332.24	-619.95	-176.57	-619.95	0.55	0.19	38.12
6,489.00	0.44	257.47	6,428.23	-619.35	-177.21	-619.35	0.95	-0.46	-83.77
6,583.00	0.44	341.05	6,522.23	-619.08	-177.68	-619.08	0.62	0.00	88.92
6,646.00	0.57	41.33	6,585.23	-618.62	-177.55	-618.62	0.82	0.21	95.68
6,678.00	0.79	18.40	6,617.23	-618.29	-177.37	-618.29	1.08	0.69	-71.66
6,710.00	1.67	358.28	6,649.22	-617.62	-177.32	-617.62	3.02	2.75	-62.88
6,741.00	4.13	13.57	6,680.18	-616.08	-177.07	-616.08	8.25	7.94	49.32
6,773.00	7.03	14.89	6,712.02	-613.07	-176.30	-613.07	9.07	9.06	4.13
6,805.00	9.67	13.83	6,743.68	-608.56	-175.15	-608.56	8.26	8.25	-3.31
6,836.00	12.49	11.81	6,774.10	-602.75	-173.84	-602.75	9.18	9.10	-6.52
6,868.00	14.51	11.20	6,805.21	-595.43	-172.35	-595.43	6.33	6.31	-1.91
6,900.00	16.97	13.57	6,836.01	-586.96	-170.48	-586.96	7.94	7.69	7.41
6,931.00	19.61	14.36	6,865.44	-577.52	-168.13	-577.52	8.55	8.52	2.55
6,963.00	21.90	14.10	6,895.36	-566.53	-165.34	-566.53	7.16	7.16	-0.81
6,995.00	23.83	12.34	6,924.85	-554.42	-162.51	-554.42	6.40	6.03	-5.50
7,026.00	26.64	10.85	6,952.89	-541.48	-159.86	-541.48	9.29	9.06	-4.81
7,058.00	30.07	9.44	6,981.04	-526.52	-157.19	-526.52	10.92	10.72	-4.41
7,090.00	33.24	6.71	7,008.28	-509.90	-154.85	-509.90	10.87	9.91	-8.53
7,121.00	36.93	4.34	7,033.64	-492.16	-153.15	-492.16	12.69	11.90	-7.65
7,153.00	40.19	1.97	7,058.67	-472.25	-152.07	-472.25	11.18	10.19	-7.41
7,185.00	44.41	1.88	7,082.33	-450.73	-151.35	-450.73	13.19	13.19	-0.28
7,217.00	47.40	2.32	7,104.59	-427.77	-150.50	-427.77	9.40	9.34	1.38
7,248.00	51.53	1.27	7,124.74	-404.23	-149.77	-404.23	13.57	13.32	-3.39
7,280.00	53.64	0.47	7,144.18	-378.82	-149.39	-378.82	6.89	6.59	-2.50
7,312.00	56.19	359.07	7,162.57	-352.63	-149.50	-352.63	8.74	7.97	-4.38
7,343.00	59.36	358.19	7,179.10	-326.42	-150.13	-326.42	10.50	10.23	-2.84
7,375.00	64.19	357.49	7,194.23	-298.25	-151.20	-298.25	15.22	15.09	-2.19

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Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,407.00	67.27	358.19	7,207.38	-269.11	-152.29	-269.11	9.83	9.63	2.19
7,438.00	69.29	358.98	7,218.85	-240.32	-153.00	-240.32	6.93	6.52	2.55
7,470.00	71.58	359.51	7,229.57	-210.17	-153.40	-210.17	7.32	7.16	1.66
7,502.00	74.83	359.07	7,238.81	-179.54	-153.78	-179.54	10.24	10.16	-1.38
7,533.00	77.91	358.89	7,246.12	-149.42	-154.32	-149.42	9.95	9.94	-0.58
7,565.00	80.55	359.16	7,252.10	-117.99	-154.85	-117.99	8.29	8.25	0.84
7,585.00	82.04	359.77	7,255.12	-98.23	-155.04	-98.23	8.04	7.45	3.05
Last Survey in 8 3/4" Hole									
7,678.00	86.79	0.65	7,264.17	-5.69	-154.69	-5.69	5.19	5.11	0.95
First Survey in 6" Hole									
7,742.00	87.42	359.66	7,267.40	58.22	-154.52	58.22	1.83	0.98	-1.55
7,805.00	89.16	358.45	7,269.28	121.18	-155.56	121.18	3.36	2.76	-1.92
7,900.00	90.48	358.54	7,269.58	216.15	-158.05	216.15	1.39	1.39	0.09
7,995.00	90.04	359.77	7,269.15	311.13	-159.46	311.13	1.38	-0.46	1.29
8,090.00	90.40	0.21	7,268.79	406.13	-159.47	406.13	0.60	0.38	0.46
8,185.00	90.57	358.45	7,267.98	501.12	-160.58	501.12	1.86	0.18	-1.85
8,279.00	90.75	358.98	7,266.90	595.09	-162.69	595.09	0.60	0.19	0.56
8,374.00	91.54	359.68	7,265.00	690.06	-163.80	690.06	1.11	0.83	0.74
8,469.00	92.33	359.24	7,261.79	785.00	-164.70	785.00	0.95	0.83	-0.46
8,564.00	92.42	0.83	7,257.86	879.92	-164.64	879.92	1.67	0.09	1.67
8,659.00	89.34	2.67	7,256.40	974.85	-161.74	974.85	3.78	-3.24	1.94
8,754.00	88.99	2.85	7,257.78	1,069.73	-157.16	1,069.73	0.41	-0.37	0.19
8,849.00	88.11	0.12	7,260.19	1,164.65	-154.70	1,164.65	3.02	-0.93	-2.87
8,944.00	89.25	358.10	7,262.38	1,259.61	-156.18	1,259.61	2.44	1.20	-2.13
9,039.00	90.40	358.54	7,262.67	1,354.57	-158.96	1,354.57	1.30	1.21	0.46
9,134.00	90.22	358.19	7,262.15	1,449.53	-161.67	1,449.53	0.41	-0.19	-0.37
9,229.00	90.84	357.66	7,261.27	1,544.46	-165.11	1,544.46	0.86	0.65	-0.56
9,323.00	91.36	359.24	7,259.47	1,638.40	-167.65	1,638.40	1.77	0.55	1.68
9,418.00	90.22	359.68	7,258.16	1,733.39	-168.55	1,733.39	1.29	-1.20	0.46
9,513.00	90.48	0.56	7,257.58	1,828.39	-168.35	1,828.39	0.97	0.27	0.93
9,608.00	91.28	0.39	7,256.12	1,923.37	-167.56	1,923.37	0.86	0.84	-0.18
9,703.00	90.04	0.12	7,255.02	2,018.36	-167.14	2,018.36	1.34	-1.31	-0.28
9,797.00	90.13	359.77	7,254.88	2,112.36	-167.23	2,112.36	0.38	0.10	-0.37
9,893.00	90.48	0.74	7,254.37	2,208.36	-166.80	2,208.36	1.07	0.36	1.01
9,987.00	88.81	1.97	7,254.96	2,302.33	-164.58	2,302.33	2.21	-1.78	1.31
10,082.00	89.08	1.18	7,256.71	2,397.27	-161.97	2,397.27	0.88	0.28	-0.83
10,177.00	89.52	0.74	7,257.87	2,492.25	-160.38	2,492.25	0.65	0.46	-0.46
10,272.00	89.34	0.03	7,258.81	2,587.24	-159.74	2,587.24	0.77	-0.19	-0.75
10,367.00	89.80	359.04	7,259.52	2,682.24	-160.51	2,682.24	1.15	0.48	-1.04
10,461.00	89.78	358.45	7,259.87	2,776.21	-162.57	2,776.21	0.63	-0.02	-0.63
10,557.00	90.22	358.45	7,259.87	2,872.18	-165.17	2,872.18	0.46	0.46	0.00
10,651.00	90.31	359.86	7,259.43	2,966.16	-166.55	2,966.16	1.50	0.10	1.50
10,746.00	91.63	359.42	7,257.83	3,061.15	-167.15	3,061.15	1.46	1.39	-0.46

Company:	EnCana Oil & Gas (USA) Inc	Local Co-ordinate Reference:	Well Maier 4A-28H
Project:	DJ Wattenberg	TVD Reference:	WELL @ 4987.00ft (Ensign 124)
Site:	S28-T2N-R66W (Maier)	MD Reference:	WELL @ 4987.00ft (Ensign 124)
Well:	Maier 4A-28H	North Reference:	True
Wellbore:	Hz	Survey Calculation Method:	Minimum Curvature
Design:	Hz	Database:	Casper District

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,841.00	90.04	359.68	7,256.44	3,156.13	-167.90	3,156.13	1.70	-1.67	0.27
10,936.00	90.04	359.42	7,256.37	3,251.13	-168.64	3,251.13	0.27	0.00	-0.27
11,031.00	89.34	359.42	7,256.89	3,346.12	-169.60	3,346.12	0.74	-0.74	0.00
11,126.00	88.02	358.63	7,259.08	3,441.08	-171.22	3,441.08	1.62	-1.39	-0.83
11,158.00	87.62	358.74	7,260.29	3,473.05	-171.95	3,473.05	1.30	-1.25	0.34
11,190.00	87.35	358.56	7,261.70	3,505.01	-172.71	3,505.01	1.01	-0.84	-0.56
11,221.00	87.32	358.54	7,263.14	3,535.96	-173.49	3,535.96	0.12	-0.10	-0.06
11,316.00	89.16	359.24	7,266.06	3,630.90	-175.33	3,630.90	2.07	1.94	0.74
11,411.00	90.75	359.60	7,266.13	3,725.89	-176.29	3,725.89	1.72	1.67	0.38
11,506.00	91.10	358.63	7,264.60	3,820.86	-177.76	3,820.86	1.09	0.37	-1.02
11,601.00	90.57	358.10	7,263.21	3,915.81	-180.47	3,915.81	0.79	-0.56	-0.56
Last SDI MWD Survey									
11,825.00	90.57	358.00	7,260.99	4,139.67	-188.09	4,139.67	0.04	0.00	-0.04
Projection to TD									

Design Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
218.00	218.00	-0.98	0.76	First SDI MWD Survey
7,585.00	7,255.12	-98.23	-155.04	Last Survey in 8 3/4" Hole
7,678.00	7,264.17	-5.69	-154.69	First Survey in 6" Hole
11,601.00	7,263.21	3,915.81	-180.47	Last SDI MWD Survey
11,825.00	7,260.99	4,139.67	-188.09	Projection to TD

Checked By: _____ Approved By: _____ Date: _____