



Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC. Field: Niobrara CONZ'83 Site: Bailey 2-26-8-60 Pad Well: 5-26-8-60 Wellpath: Original Hole	Date: 09/17/2013 Co-ordinate(NE) Reference: Well: 5-26-8-60, Grid North Vertical (TVD) Reference: 4874'GL+17"KB 4891.0 Section (VS) Reference: Well (0.00N,0.00E,0.26Azi) Survey Calculation Method: Minimum Curvature	Time: 14:50:11 Page: 1 Db: Adapti
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Field: Niobrara CONZ'83 Map System: US State Plane Coordinate System 1983 Geo Datum: GRS 1980 Sys Datum: Mean Sea Level	Map Zone: Colorado, Northern Zone Coordinate System: Well Centre Geomagnetic Model: IGRF2010
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Site: Bailey 2-26-8-60 Pad Centered on 5-26-8-60 Weld County, CO Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 4874.00 ft	Northing: 1474497.30 ft Easting: 3398639.49 ft Latitude: 40 37 37.280 N Longitude: 104 3 49.770 W North Reference: Grid Grid Convergence: 0.93 deg
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Well: 5-26-8-60 340' FSL 1304' FWL Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: Latitude: 40 37 37.280 N Longitude: 104 3 49.770 W
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Wellpath: Original Hole Current Datum: 4874'GL+17"KB Magnetic Data: 09/06/2013 Field Strength: 53126 nT Vertical Section: Depth From (TVD) ft	Height 4891.00 ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8.20 deg Mag Dip Angle: 67.27 deg +E/-W ft Direction deg
0.00	0.00	0.00

Survey Program for Definitive Wellpath					
Date: 09/17/2013 Actual From ft To ft	Validated: No Survey	Version: 2 Toolcode	Tool Name		
141.00	10587.00	Survey #1 (141.00-10587.00)	MWD	Std MWD	
10645.00	10645.00	Survey #2 (10645.00-10645.00)	Project	Projection	

Survey										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
141.00	0.70	343.40	141.00	0.83	-0.25	0.82	0.50	0.50	0.00	MWD
237.00	1.90	273.20	236.97	1.48	-2.00	1.47	1.86	1.25	-73.12	MWD
331.00	4.00	256.00	330.85	0.77	-6.74	0.74	2.40	2.23	-18.30	MWD
424.00	6.90	244.80	423.42	-2.39	-14.94	-2.46	3.31	3.12	-12.04	MWD
518.00	7.90	244.60	516.63	-7.57	-25.89	-7.69	1.06	1.06	-0.21	MWD
612.00	8.00	246.70	609.73	-12.93	-37.73	-13.10	0.33	0.11	2.23	MWD
705.00	7.80	244.90	701.85	-18.16	-49.39	-18.39	0.34	-0.22	-1.94	MWD
799.00	8.10	244.60	794.94	-23.71	-61.15	-23.99	0.32	0.32	-0.32	MWD
892.00	8.20	244.80	887.01	-29.34	-73.07	-29.68	0.11	0.11	0.22	MWD
986.00	8.10	245.10	980.06	-34.99	-85.14	-35.37	0.12	-0.11	0.32	MWD
1079.00	8.10	246.00	1072.13	-40.41	-97.07	-40.85	0.14	0.00	0.97	MWD
1173.00	8.40	246.30	1165.16	-45.86	-109.41	-46.36	0.32	0.32	0.32	MWD
1266.00	8.40	246.20	1257.16	-51.34	-121.84	-51.89	0.02	0.00	-0.11	MWD
1373.00	8.30	248.30	1363.02	-57.35	-136.17	-57.96	0.30	-0.09	1.96	MWD
1449.00	8.30	250.20	1438.23	-61.23	-146.43	-61.90	0.36	0.00	2.50	MWD
1535.00	8.20	250.70	1523.34	-65.36	-158.05	-66.08	0.14	-0.12	0.58	MWD
1620.00	7.90	251.30	1607.50	-69.24	-169.31	-70.01	0.37	-0.35	0.71	MWD
1705.00	7.70	248.60	1691.71	-73.19	-180.14	-74.00	0.49	-0.24	-3.18	MWD
1790.00	7.00	246.30	1776.02	-77.35	-190.19	-78.21	0.89	-0.82	-2.71	MWD
1875.00	6.40	244.90	1860.43	-81.44	-199.22	-82.34	0.73	-0.71	-1.65	MWD
1961.00	6.30	243.00	1945.91	-85.61	-207.77	-86.56	0.27	-0.12	-2.21	MWD

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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
2046.00	6.30	240.50	2030.39	-90.03	-215.98	-91.01	0.32	0.00	-2.94	MWD
2131.00	5.80	239.30	2114.92	-94.52	-223.73	-95.53	0.61	-0.59	-1.41	MWD
2216.00	5.80	239.80	2199.49	-98.87	-231.14	-99.92	0.06	0.00	0.59	MWD
2301.00	5.80	236.80	2284.05	-103.38	-238.44	-104.46	0.36	0.00	-3.53	MWD
2387.00	5.60	234.00	2369.63	-108.23	-245.47	-109.34	0.40	-0.23	-3.26	MWD
2472.00	6.10	247.70	2454.19	-112.38	-253.01	-113.53	1.74	0.59	16.12	MWD
2557.00	6.70	245.30	2538.66	-116.17	-261.69	-117.35	0.77	0.71	-2.82	MWD
2642.00	6.30	242.80	2623.11	-120.37	-270.34	-121.60	0.58	-0.47	-2.94	MWD
2727.00	6.30	243.70	2707.60	-124.57	-278.67	-125.83	0.12	0.00	1.06	MWD
2813.00	6.70	241.20	2793.04	-129.08	-287.30	-130.38	0.57	0.47	-2.91	MWD
2898.00	6.40	241.90	2877.49	-133.70	-295.82	-135.04	0.37	-0.35	0.82	MWD
2983.00	6.20	240.40	2961.98	-138.19	-303.99	-139.57	0.30	-0.24	-1.76	MWD
3068.00	5.80	234.00	3046.51	-142.99	-311.46	-144.40	0.92	-0.47	-7.53	MWD
3153.00	6.90	240.50	3130.99	-148.03	-319.38	-149.47	1.54	1.29	7.65	MWD
3238.00	5.90	234.40	3215.46	-153.08	-327.38	-154.57	1.42	-1.18	-7.18	MWD
3324.00	7.70	242.50	3300.85	-158.32	-336.08	-159.84	2.37	2.09	9.42	MWD
3409.00	8.80	242.80	3384.97	-163.92	-346.91	-165.49	1.30	1.29	0.35	MWD
3494.00	9.50	243.30	3468.89	-170.04	-358.96	-171.67	0.83	0.82	0.59	MWD
3579.00	10.50	242.80	3552.60	-176.73	-372.12	-178.42	1.18	1.18	-0.59	MWD
3664.00	9.20	242.10	3636.34	-183.45	-385.01	-185.20	1.54	-1.53	-0.82	MWD
3750.00	9.10	240.70	3721.25	-190.00	-397.02	-191.80	0.28	-0.12	-1.63	MWD
3835.00	7.60	239.70	3805.34	-196.13	-407.74	-197.97	1.77	-1.76	-1.18	MWD
3920.00	7.50	239.10	3889.61	-201.81	-417.35	-203.70	0.15	-0.12	-0.71	MWD
4006.00	7.10	238.40	3974.91	-207.48	-426.69	-209.41	0.48	-0.47	-0.81	MWD
4091.00	6.50	242.80	4059.31	-212.43	-435.45	-214.40	0.93	-0.71	5.18	MWD
4176.00	5.60	245.80	4143.84	-216.33	-443.51	-218.34	1.12	-1.06	3.53	MWD
4261.00	6.20	253.50	4228.39	-219.33	-451.69	-221.38	1.17	0.71	9.06	MWD
4346.00	5.80	258.60	4312.92	-221.48	-460.30	-223.57	0.78	-0.47	6.00	MWD
4431.00	6.90	252.50	4397.40	-223.87	-469.38	-226.00	1.52	1.29	-7.18	MWD
4517.00	6.50	253.70	4482.82	-226.79	-478.98	-228.96	0.49	-0.47	1.40	MWD
4602.00	5.60	253.90	4567.34	-229.29	-487.58	-231.50	1.06	-1.06	0.24	MWD
4687.00	6.90	250.40	4651.83	-232.15	-496.38	-234.40	1.59	1.53	-4.12	MWD
4772.00	6.40	249.80	4736.26	-235.50	-505.64	-237.79	0.59	-0.59	-0.71	MWD
4857.00	5.20	250.60	4820.83	-238.42	-513.71	-240.74	1.41	-1.41	0.94	MWD
4943.00	6.40	241.60	4906.39	-241.99	-521.61	-244.36	1.75	1.40	-10.47	MWD
5028.00	6.20	239.70	4990.87	-246.56	-529.74	-248.96	0.34	-0.24	-2.24	MWD
5113.00	5.60	239.10	5075.42	-251.01	-537.26	-253.44	0.71	-0.71	-0.71	MWD
5198.00	7.20	249.50	5159.89	-255.00	-545.81	-257.47	2.32	1.88	12.24	MWD
5283.00	6.90	250.70	5244.25	-258.55	-555.62	-261.07	0.39	-0.35	1.41	MWD
5369.00	5.60	251.40	5329.74	-261.60	-564.47	-264.16	1.51	-1.51	0.81	MWD
5454.00	5.00	247.90	5414.37	-264.32	-571.83	-266.91	0.80	-0.71	-4.12	MWD
5539.00	4.00	245.30	5499.11	-266.95	-577.96	-269.57	1.20	-1.18	-3.06	MWD
5574.00	4.00	244.00	5534.02	-267.99	-580.16	-270.62	0.26	0.00	-3.71	MWD
5616.00	3.60	248.10	5575.93	-269.13	-582.70	-271.77	1.15	-0.95	9.76	MWD
5659.00	4.60	301.40	5618.84	-268.73	-585.43	-271.39	8.80	2.33	123.95	MWD
5702.00	7.70	313.10	5661.58	-265.87	-589.01	-268.54	7.74	7.21	27.21	MWD
5744.00	10.50	320.50	5703.05	-260.99	-593.50	-263.68	7.21	6.67	17.62	MWD
5787.00	12.50	324.60	5745.19	-254.17	-598.68	-256.89	5.02	4.65	9.53	MWD
5829.00	14.90	332.60	5785.99	-245.67	-603.80	-248.41	7.27	5.71	19.05	MWD
5872.00	15.90	336.20	5827.45	-235.37	-608.72	-238.13	3.22	2.33	8.37	MWD
5914.00	16.20	337.70	5867.81	-224.69	-613.27	-227.47	1.22	0.71	3.57	MWD
5957.00	19.00	339.30	5908.80	-212.59	-618.02	-215.39	6.61	6.51	3.72	MWD
6000.00	20.50	343.70	5949.27	-198.81	-622.61	-201.64	4.91	3.49	10.23	MWD

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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
6042.00	20.40	348.60	5988.63	-184.58	-626.12	-187.42	4.08	-0.24	11.67	MWD
6085.00	25.00	354.80	6028.29	-168.17	-628.43	-171.02	12.04	10.70	14.42	MWD
6127.00	30.20	352.70	6065.50	-148.84	-630.57	-151.70	12.59	12.38	-5.00	MWD
6157.00	34.60	350.70	6090.82	-132.94	-632.91	-135.81	15.09	14.67	-6.67	MWD
6172.00	36.80	349.70	6103.00	-124.32	-634.40	-127.20	15.17	14.67	-6.67	MWD
6187.00	39.10	349.00	6114.83	-115.25	-636.11	-118.14	15.60	15.33	-4.67	MWD
6217.00	43.40	348.50	6137.38	-95.86	-639.97	-98.76	14.38	14.33	-1.67	MWD
6247.00	48.30	349.30	6158.27	-74.74	-644.11	-77.66	16.44	16.33	2.67	MWD
6277.00	53.20	350.00	6177.25	-51.89	-648.27	-54.83	16.43	16.33	2.33	MWD
6340.00	62.30	353.20	6210.83	0.76	-655.97	-2.22	15.07	14.44	5.08	MWD
6370.00	67.20	355.30	6223.63	27.75	-658.68	24.76	17.52	16.33	7.00	MWD
6400.00	73.20	356.20	6233.79	55.88	-660.77	52.89	20.20	20.00	3.00	MWD
6430.00	78.90	357.40	6241.02	84.94	-662.39	81.94	19.39	19.00	4.00	MWD
6463.00	84.80	358.30	6245.69	117.57	-663.61	114.56	18.08	17.88	2.73	MWD
6511.00	91.60	1.80	6247.20	165.51	-663.57	162.50	15.93	14.17	7.29	MWD
6558.00	92.10	2.00	6245.68	212.46	-662.01	209.45	1.15	1.06	0.43	MWD
6591.00	93.79	1.62	6243.99	245.40	-660.97	242.40	5.25	5.12	-1.16	600' entry
6601.00	94.30	1.50	6243.28	255.37	-660.70	252.37	5.25	5.12	-1.16	MWD
6643.00	94.40	1.50	6240.10	297.24	-659.60	294.24	0.24	0.24	0.00	MWD
6686.00	94.70	0.90	6236.69	340.09	-658.70	337.10	1.56	0.70	-1.40	MWD
6729.00	93.50	1.30	6233.61	382.97	-657.88	379.98	2.94	-2.79	0.93	MWD
6771.00	93.80	0.90	6230.94	424.88	-657.08	421.89	1.19	0.71	-0.95	MWD
6814.00	93.90	0.80	6228.05	467.78	-656.44	464.79	0.33	0.23	-0.23	MWD
6856.00	93.60	0.40	6225.30	509.68	-656.00	506.70	1.19	-0.71	-0.95	MWD
6899.00	92.20	0.10	6223.13	552.63	-655.81	549.65	3.33	-3.26	-0.70	MWD
6942.00	91.30	359.70	6221.81	595.61	-655.89	592.63	2.29	-2.09	-0.93	MWD
6984.00	91.70	359.50	6220.71	637.59	-656.18	634.61	1.06	0.95	-0.48	MWD
7027.00	91.90	359.50	6219.36	680.57	-656.56	677.58	0.47	0.47	0.00	MWD
7069.00	91.90	359.40	6217.97	722.54	-656.96	719.56	0.24	0.00	-0.24	MWD
7112.00	90.30	0.10	6217.15	765.53	-657.15	762.54	4.06	-3.72	1.63	MWD
7155.00	89.70	0.40	6217.15	808.53	-656.96	805.54	1.56	-1.40	0.70	MWD
7197.00	89.60	0.10	6217.40	850.53	-656.78	847.54	0.75	-0.24	-0.71	MWD
7240.00	90.80	0.90	6217.25	893.53	-656.40	890.54	3.35	2.79	1.86	MWD
7282.00	90.60	0.80	6216.74	935.52	-655.78	932.54	0.53	-0.48	-0.24	MWD
7325.00	90.70	0.90	6216.25	978.51	-655.14	975.53	0.33	0.23	0.23	MWD
7368.00	91.50	1.60	6215.43	1021.50	-654.20	1018.52	2.47	1.86	1.63	MWD
7410.00	90.70	1.50	6214.62	1063.47	-653.07	1060.50	1.92	-1.90	-0.24	MWD
7453.00	90.70	1.30	6214.09	1106.46	-652.02	1103.49	0.47	0.00	-0.47	MWD
7495.00	90.70	0.90	6213.58	1148.44	-651.21	1145.48	0.95	0.00	-0.95	MWD
7538.00	90.00	1.50	6213.32	1191.43	-650.31	1188.47	2.14	-1.63	1.40	MWD
7581.00	89.60	1.30	6213.47	1234.42	-649.26	1231.46	1.04	-0.93	-0.47	MWD
7623.00	90.80	1.30	6213.32	1276.41	-648.31	1273.45	2.86	2.86	0.00	MWD
7666.00	90.00	1.10	6213.02	1319.40	-647.41	1316.45	1.92	-1.86	-0.47	MWD
7708.00	92.20	1.30	6212.22	1361.38	-646.53	1358.43	5.26	5.24	0.48	MWD
7751.00	94.40	1.60	6209.74	1404.29	-645.44	1401.35	5.16	5.12	0.70	MWD
7794.00	92.50	0.90	6207.15	1447.20	-644.50	1444.26	4.71	-4.42	-1.63	MWD
7836.00	92.50	1.10	6205.32	1489.15	-643.77	1486.22	0.48	0.00	0.48	MWD
7879.00	92.30	0.90	6203.52	1532.11	-643.02	1529.18	0.66	-0.47	-0.47	MWD
7921.00	90.80	0.90	6202.38	1574.09	-642.36	1571.16	3.57	-3.57	0.00	MWD
7964.00	90.90	0.40	6201.75	1617.08	-641.88	1614.15	1.19	0.23	-1.16	MWD
8007.00	90.20	0.10	6201.33	1660.08	-641.69	1657.15	1.77	-1.63	-0.70	MWD
8049.00	89.60	0.10	6201.41	1702.08	-641.61	1699.15	1.43	-1.43	0.00	MWD
8092.00	89.10	359.40	6201.90	1745.07	-641.80	1742.14	2.00	-1.16	-1.63	MWD
8134.00	90.30	359.50	6202.12	1787.07	-642.20	1784.14	2.87	2.86	0.24	MWD

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MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
8177.00	90.00	359.50	6202.00	1830.07	-642.58	1827.13	0.70	-0.70	0.00	MWD
8219.00	90.30	1.10	6201.89	1872.07	-642.36	1869.13	3.88	0.71	3.81	MWD
8262.00	90.70	1.10	6201.52	1915.06	-641.53	1912.13	0.93	0.93	0.00	MWD
8305.00	93.40	1.50	6199.98	1958.01	-640.56	1955.09	6.35	6.28	0.93	MWD
8347.00	93.40	1.50	6197.49	1999.93	-639.46	1997.00	0.00	0.00	0.00	MWD
8390.00	91.50	0.20	6195.65	2042.88	-638.83	2039.96	5.35	-4.42	-3.02	MWD
8432.00	91.00	359.90	6194.73	2084.87	-638.79	2081.95	1.39	-1.19	-0.71	MWD
8475.00	90.20	0.80	6194.28	2127.86	-638.53	2124.95	2.80	-1.86	2.09	MWD
8518.00	90.20	0.20	6194.13	2170.86	-638.15	2167.94	1.40	0.00	-1.40	MWD
8560.00	87.80	359.50	6194.87	2212.85	-638.26	2209.93	5.95	-5.71	-1.67	MWD
8603.00	87.50	359.40	6196.63	2255.81	-638.67	2252.89	0.74	-0.70	-0.23	MWD
8645.00	86.60	359.00	6198.79	2297.75	-639.26	2294.83	2.34	-2.14	-0.95	MWD
8688.00	86.30	358.80	6201.45	2340.66	-640.08	2337.74	0.84	-0.70	-0.47	MWD
8731.00	88.20	0.20	6203.52	2383.61	-640.46	2380.68	5.49	4.42	3.26	MWD
8773.00	88.20	359.90	6204.84	2425.59	-640.42	2422.66	0.71	0.00	-0.71	MWD
8816.00	91.20	1.30	6205.06	2468.58	-639.97	2465.65	7.70	6.98	3.26	MWD
8859.00	90.90	1.10	6204.27	2511.56	-639.07	2508.64	0.84	-0.70	-0.47	MWD
8901.00	90.80	0.80	6203.65	2553.55	-638.37	2550.63	0.75	-0.24	-0.71	MWD
8944.00	90.80	0.80	6203.05	2596.54	-637.77	2593.62	0.00	0.00	0.00	MWD
8986.00	91.00	0.60	6202.39	2638.54	-637.26	2635.62	0.67	0.48	-0.48	MWD
9029.00	90.80	0.20	6201.71	2681.53	-636.96	2678.61	1.04	-0.47	-0.93	MWD
9072.00	90.80	0.20	6201.11	2724.53	-636.81	2721.61	0.00	0.00	0.00	MWD
9114.00	90.70	359.90	6200.56	2766.52	-636.77	2763.60	0.75	-0.24	-0.71	MWD
9157.00	90.90	359.90	6199.96	2809.52	-636.85	2806.60	0.47	0.47	0.00	MWD
9200.00	91.30	359.40	6199.14	2852.51	-637.11	2849.59	1.49	0.93	-1.16	MWD
9242.00	91.40	359.00	6198.15	2894.49	-637.70	2891.57	0.98	0.24	-0.95	MWD
9285.00	91.10	359.00	6197.21	2937.48	-638.45	2934.55	0.70	-0.70	0.00	MWD
9327.00	89.40	359.00	6197.03	2979.47	-639.18	2976.54	4.05	-4.05	0.00	MWD
9370.00	89.50	358.70	6197.44	3022.46	-640.04	3019.52	0.74	0.23	-0.70	MWD
9412.00	89.50	358.50	6197.81	3064.44	-641.07	3061.50	0.48	0.00	-0.48	MWD
9455.00	89.60	358.00	6198.14	3107.42	-642.38	3104.47	1.19	0.23	-1.16	MWD
9498.00	89.50	357.80	6198.48	3150.39	-643.96	3147.44	0.52	-0.23	-0.47	MWD
9540.00	90.10	357.40	6198.63	3192.35	-645.72	3189.39	1.72	1.43	-0.95	MWD
9583.00	91.10	358.30	6198.18	3235.32	-647.33	3232.35	3.13	2.33	2.09	MWD
9625.00	91.40	358.50	6197.26	3277.29	-648.50	3274.32	0.86	0.71	0.48	MWD
9668.00	90.50	0.60	6196.55	3320.28	-648.84	3317.30	5.31	-2.09	4.88	MWD
9711.00	90.70	0.40	6196.10	3363.28	-648.47	3360.30	0.66	0.47	-0.47	MWD
9753.00	90.60	0.20	6195.62	3405.28	-648.25	3402.30	0.53	-0.24	-0.48	MWD
9796.00	90.30	359.70	6195.29	3448.27	-648.28	3445.30	1.36	-0.70	-1.16	MWD
9838.00	90.40	359.50	6195.03	3490.27	-648.58	3487.29	0.53	0.24	-0.48	MWD
9881.00	90.20	359.20	6194.80	3533.27	-649.06	3530.29	0.84	-0.47	-0.70	MWD
9924.00	90.50	358.80	6194.54	3576.26	-649.81	3573.28	1.16	0.70	-0.93	MWD
9966.00	91.20	1.60	6193.92	3618.25	-649.67	3615.27	6.87	1.67	6.67	MWD
10009.00	91.00	1.10	6193.09	3661.23	-648.65	3658.25	1.25	-0.47	-1.16	MWD
10051.00	90.90	0.80	6192.40	3703.22	-647.96	3700.24	0.75	-0.24	-0.71	MWD
10094.00	90.70	0.10	6191.80	3746.21	-647.62	3743.24	1.69	-0.47	-1.63	MWD
10137.00	90.50	359.50	6191.35	3789.21	-647.77	3786.23	1.47	-0.47	-1.40	MWD
10179.00	90.10	359.20	6191.13	3831.21	-648.25	3828.23	1.19	-0.95	-0.71	MWD
10222.00	90.40	358.80	6190.94	3874.20	-649.00	3871.22	1.16	0.70	-0.93	MWD
10264.00	90.20	358.70	6190.72	3916.19	-649.91	3913.20	0.53	-0.48	-0.24	MWD
10307.00	90.00	358.50	6190.64	3959.18	-650.96	3956.18	0.66	-0.47	-0.47	MWD
10350.00	90.90	2.00	6190.30	4002.17	-650.78	3999.17	8.40	2.09	8.14	MWD
10392.00	90.90	1.60	6189.65	4044.14	-649.46	4041.15	0.95	0.00	-0.95	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC. Field: Niobrara CONZ'83 Site: Bailey 2-26-8-60 Pad Well: 5-26-8-60 Wellpath: Original Hole	Date: 09/17/2013 Time: 14:50:11 Page: 5 Co-ordinate(NE) Reference: Well: 5-26-8-60, Grid North Vertical (TVD) Reference: 4874'GL+17'KB 4891.0 Section (VS) Reference: Well (0.00N,0.00E,0.26Azi) Survey Calculation Method: Minimum Curvature Db: Adapti
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Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10435.00	91.10	1.60	6188.89	4087.12	-648.26	4084.14	0.47	0.47	0.00	MWD
10477.00	90.90	1.30	6188.16	4129.10	-647.19	4126.12	0.86	-0.48	-0.71	MWD
10520.00	90.40	0.90	6187.67	4172.09	-646.37	4169.11	1.49	-1.16	-0.93	MWD
10563.00	90.60	0.90	6187.30	4215.08	-645.69	4212.11	0.47	0.47	0.00	MWD
10587.00	90.70	0.60	6187.03	4239.08	-645.38	4236.11	1.32	0.42	-1.25	MWD
10645.00	90.70	0.60	6186.32	4297.07	-644.77	4294.10	0.00	0.00	0.00	PROJECTED to TD

Annotation

MD ft	TVD ft	
6591.00	6243.99	600' entry