



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL 7-26	0.00	0.00	0.00	1474491.27	3398668.88	40°37'37.216N	104°03'49.390W	Point
600' entry 7-26	6231.68	271.53	215.35	1474762.80	3398884.23	40°37'39.864N	104°03'46.540W	Point
PBHL 7-26	6235.00	4322.85	227.01	1478814.12	3398895.89	40°38'19.890N	104°03'45.538W	Point
BHL 7-26	6252.46	4322.11	224.86	1478813.38	3398893.74	40°38'19.883N	104°03'45.566W	Point

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC.	Date: 09/04/2013	Time: 10:33:53	Page: 1
Field: Niobrara CONZ'83	Co-ordinate(NE) Reference: Well: 7-26-8-60, Grid North		
Site: Bailey 2-26-8-60 Pad	Vertical (TVD) Reference: 4874'GL+17'KB 4891.0		
Well: 7-26-8-60	Section (VS) Reference: Well (0.00N,0.00E,0.26Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Adapti	

Field: Niobrara CONZ'83	
Map System: US State Plane Coordinate System 1983	Map Zone: Colorado, Northern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Bailey 2-26-8-60 Pad Centered on 5-26-8-60 Weld County, CO			
Site Position:	Northing: 1474497.30 ft	Latitude: 40 37 37.280 N	
From: Map	Easting: 3398639.49 ft	Longitude: 104 3 49.770 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 4874.00 ft		Grid Convergence: 0.93 deg	

Well: 7-26-8-60 334'FSL,1333'FWL	Slot Name: 7-26
Well Position: +N/-S -6.03 ft	Northing: 1474491.27 ft
+E/-W 29.39 ft	Easting: 3398668.88 ft
Position Uncertainty: 0.00 ft	Latitude: 40 37 37.216 N
	Longitude: 104 3 49.390 W

Wellpath: Original Hole	Drilled From: Surface
Current Datum: 4874'GL+17'KB	Tie-on Depth: 0.00 ft
Magnetic Data: 08/16/2013	Above System Datum: Mean Sea Level
Field Strength: 53133 nT	Declination: 8.21 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 67.27 deg
ft	+N/-S
	+E/-W
	Direction
	deg
0.00	0.00
	0.00
	0.26

Survey Program for Definitive Wellpath				
Date: 08/24/2013	Validated: No	Version: 1		
Actual From	To	Survey	Toolcode	Tool Name
ft	ft			
140.00	10516.00	Survey #1 (140.00-10516.00)	MWD	Std MWD
10573.00	10573.00	Survey #2 (10573.00-10573.00)	Project	Projection

Survey										
MD	Incl	Azim	TVD	+N/-S	+E/-W	VS	DLS	Build	Turn	Tool/Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	TIE LINE
140.00	0.40	10.30	140.00	0.48	0.09	0.48	0.29	0.29	0.00	MWD
236.00	0.40	25.00	236.00	1.11	0.29	1.12	0.11	0.00	15.31	MWD
330.00	1.40	168.30	329.99	0.29	0.66	0.29	1.85	1.06	152.45	MWD
424.00	2.00	170.90	423.95	-2.46	1.15	-2.45	0.64	0.64	2.77	MWD
518.00	3.30	138.40	517.85	-6.10	3.21	-6.09	2.06	1.38	-34.57	MWD
611.00	3.70	136.80	610.68	-10.29	7.04	-10.26	0.44	0.43	-1.72	MWD
705.00	3.80	140.20	704.47	-14.89	11.11	-14.84	0.26	0.11	3.62	MWD
799.00	3.70	138.20	798.27	-19.55	15.13	-19.48	0.18	-0.11	-2.13	MWD
892.00	3.30	137.00	891.10	-23.74	18.95	-23.66	0.44	-0.43	-1.29	MWD
986.00	3.60	135.80	984.93	-27.84	22.85	-27.73	0.33	0.32	-1.28	MWD
1079.00	3.70	149.70	1077.74	-32.52	26.40	-32.40	0.96	0.11	14.95	MWD
1173.00	3.90	158.50	1171.54	-38.11	29.11	-37.98	0.66	0.21	9.36	MWD
1266.00	3.80	157.90	1264.33	-43.91	31.42	-43.77	0.12	-0.11	-0.65	MWD
1360.00	3.90	154.10	1358.11	-49.67	33.99	-49.52	0.29	0.11	-4.04	MWD
1411.00	3.90	153.20	1409.00	-52.78	35.53	-52.62	0.12	0.00	-1.76	MWD
1536.00	3.60	144.70	1533.73	-59.78	39.72	-59.60	0.50	-0.24	-6.80	MWD
1621.00	4.00	147.40	1618.54	-64.45	42.86	-64.26	0.52	0.47	3.18	MWD
1706.00	3.80	149.30	1703.35	-69.37	45.89	-69.16	0.28	-0.24	2.24	MWD
1791.00	3.60	146.90	1788.17	-74.03	48.79	-73.81	0.30	-0.24	-2.82	MWD
1877.00	3.70	153.40	1873.99	-78.77	51.50	-78.54	0.49	0.12	7.56	MWD
1962.00	4.00	151.10	1958.80	-83.82	54.16	-83.58	0.40	0.35	-2.71	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC.	Date: 09/04/2013	Time: 10:33:53	Page: 2
Field: Niobrara CONZ'83	Co-ordinate(NE) Reference: Well: 7-26-8-60, Grid North		
Site: Bailey 2-26-8-60 Pad	Vertical (TVD) Reference: 4874'GL+17'KB 4891.0		
Well: 7-26-8-60	Section (VS) Reference: Well (0.00N,0.00E,0.26Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature		Db: Adapti

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
2047.00	4.20	146.90	2043.59	-89.03	57.30	-88.76	0.42	0.24	-4.94	MWD
2132.00	4.40	147.40	2128.35	-94.38	60.75	-94.10	0.24	0.24	0.59	MWD
2218.00	3.40	138.10	2214.15	-99.06	64.23	-98.76	1.37	-1.16	-10.81	MWD
2303.00	3.70	137.20	2298.98	-102.95	67.78	-102.64	0.36	0.35	-1.06	MWD
2388.00	3.60	139.50	2383.81	-106.99	71.38	-106.66	0.21	-0.12	2.71	MWD
2473.00	3.90	138.80	2468.63	-111.19	75.01	-110.85	0.36	0.35	-0.82	MWD
2559.00	3.50	133.70	2554.45	-115.21	78.84	-114.85	0.60	-0.47	-5.93	MWD
2644.00	3.40	135.10	2639.30	-118.78	82.49	-118.41	0.15	-0.12	1.65	MWD
2729.00	3.40	136.50	2724.15	-122.40	86.01	-122.01	0.10	0.00	1.65	MWD
2814.00	3.40	136.70	2809.00	-126.06	89.47	-125.65	0.01	0.00	0.24	MWD
2900.00	3.40	134.90	2894.85	-129.72	93.03	-129.29	0.12	0.00	-2.09	MWD
2985.00	3.10	124.50	2979.71	-132.80	96.71	-132.36	0.78	-0.35	-12.24	MWD
3070.00	2.70	133.70	3064.60	-135.48	100.05	-135.03	0.72	-0.47	10.82	MWD
3156.00	2.20	131.20	3150.52	-137.97	102.75	-137.50	0.59	-0.58	-2.91	MWD
3241.00	1.90	136.30	3235.47	-140.06	104.96	-139.58	0.41	-0.35	6.00	MWD
3326.00	2.00	130.50	3320.42	-142.04	107.06	-141.56	0.26	0.12	-6.82	MWD
3412.00	2.30	126.80	3406.36	-144.05	109.58	-143.55	0.38	0.35	-4.30	MWD
3497.00	2.20	142.60	3491.29	-146.37	111.94	-145.86	0.74	-0.12	18.59	MWD
3582.00	2.30	149.70	3576.23	-149.14	113.79	-148.62	0.35	0.12	8.35	MWD
3668.00	2.30	147.60	3662.16	-152.09	115.58	-151.56	0.10	0.00	-2.44	MWD
3753.00	2.40	146.90	3747.09	-155.02	117.47	-154.48	0.12	0.12	-0.82	MWD
3838.00	2.30	150.70	3832.02	-157.99	119.28	-157.45	0.22	-0.12	4.47	MWD
3924.00	3.20	148.80	3917.92	-161.55	121.36	-161.00	1.05	1.05	-2.21	MWD
4009.00	3.00	143.30	4002.79	-165.37	123.92	-164.80	0.42	-0.24	-6.47	MWD
4091.00	1.90	153.20	4084.72	-168.30	125.82	-167.73	1.43	-1.34	12.07	MWD
4176.00	3.00	153.00	4169.64	-171.54	127.46	-170.96	1.29	1.29	-0.24	MWD
4261.00	4.40	154.20	4254.46	-176.46	129.89	-175.87	1.65	1.65	1.41	MWD
4346.00	4.20	157.40	4339.22	-182.27	132.51	-181.66	0.37	-0.24	3.76	MWD
4431.00	4.00	159.20	4424.00	-187.91	134.76	-187.30	0.28	-0.24	2.12	MWD
4516.00	3.90	159.50	4508.80	-193.39	136.82	-192.77	0.12	-0.12	0.35	MWD
4601.00	4.30	150.90	4593.58	-198.88	139.38	-198.25	0.86	0.47	-10.12	MWD
4686.00	4.00	151.10	4678.36	-204.26	142.36	-203.61	0.35	-0.35	0.24	MWD
4772.00	2.60	151.90	4764.21	-208.61	144.73	-207.95	1.63	-1.63	0.93	MWD
4857.00	2.80	158.60	4849.12	-212.24	146.40	-211.58	0.44	0.24	7.88	MWD
4942.00	3.30	156.90	4934.00	-216.43	148.12	-215.75	0.60	0.59	-2.00	MWD
5027.00	4.00	157.70	5018.83	-221.42	150.20	-220.74	0.83	0.82	0.94	MWD
5113.00	3.50	156.30	5104.64	-226.60	152.39	-225.90	0.59	-0.58	-1.63	MWD
5198.00	3.60	146.70	5189.48	-231.20	154.90	-230.50	0.71	0.12	-11.29	MWD
5283.00	2.60	145.40	5274.35	-235.02	157.46	-234.30	1.18	-1.18	-1.53	MWD
5368.00	3.50	145.40	5359.23	-238.74	160.03	-238.02	1.06	1.06	0.00	MWD
5453.00	2.70	146.50	5444.11	-242.55	162.61	-241.81	0.94	-0.94	1.29	MWD
5539.00	2.70	136.80	5530.01	-245.72	165.11	-244.96	0.53	0.00	-11.28	MWD
5575.00	2.50	142.60	5565.98	-246.96	166.17	-246.20	0.92	-0.56	16.11	MWD
5618.00	1.20	83.90	5608.96	-247.65	167.19	-246.89	4.97	-3.02	-136.51	MWD
5661.00	4.70	22.00	5651.90	-245.97	168.30	-245.21	9.93	8.14	-143.95	MWD
5703.00	8.40	17.30	5693.62	-241.45	169.85	-240.67	8.89	8.81	-11.19	MWD
5746.00	11.30	17.50	5735.98	-234.43	172.06	-233.65	6.74	6.74	0.47	MWD
5788.00	13.80	18.40	5776.97	-225.75	174.87	-224.95	5.97	5.95	2.14	MWD
5831.00	17.40	15.20	5818.38	-214.67	178.18	-213.86	8.60	8.37	-7.44	MWD
5874.00	20.20	12.90	5859.08	-201.23	181.52	-200.41	6.73	6.51	-5.35	MWD
5916.00	23.90	11.10	5898.01	-185.81	184.78	-184.97	8.95	8.81	-4.29	MWD
5959.00	27.50	9.60	5936.75	-167.47	188.12	-166.61	8.51	8.37	-3.49	MWD
6002.00	28.90	8.20	5974.64	-147.39	191.25	-146.52	3.60	3.26	-3.26	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC.	Date: 09/04/2013	Time: 10:33:53	Page: 3
Field: Niobrara CONZ'83	Co-ordinate(NE) Reference: Well: 7-26-8-60, Grid North		
Site: Bailey 2-26-8-60 Pad	Vertical (TVD) Reference: 4874'GL+17'KB 4891.0		
Well: 7-26-8-60	Section (VS) Reference: Well (0.00N,0.00E,0.26Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Adapti	

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
6044.00	32.40	6.00	6010.77	-126.15	193.88	-125.27	8.75	8.33	-5.24	MWD
6087.00	36.80	4.50	6046.16	-101.84	196.09	-100.95	10.42	10.23	-3.49	MWD
6130.00	42.00	4.30	6079.37	-74.64	198.18	-73.74	12.10	12.09	-0.47	MWD
6172.00	47.30	6.40	6109.24	-45.26	200.96	-44.35	13.10	12.62	5.00	MWD
6215.00	52.80	6.60	6136.84	-12.53	204.69	-11.60	12.80	12.79	0.47	MWD
6257.00	58.00	2.20	6160.69	21.92	207.30	22.86	15.08	12.38	-10.48	MWD
6320.00	65.50	359.90	6190.49	77.36	208.28	78.31	12.33	11.90	-3.65	MWD
6340.00	67.70	0.10	6198.44	95.72	208.28	96.66	11.04	11.00	1.00	MWD
6372.00	72.10	2.00	6209.43	125.76	208.84	126.70	14.84	13.75	5.94	MWD
6403.00	77.50	2.70	6217.56	155.63	210.06	156.59	17.55	17.42	2.26	MWD
6434.00	81.20	3.40	6223.28	186.05	211.69	187.01	12.14	11.94	2.26	MWD
6465.00	84.20	2.90	6227.22	216.75	213.38	217.72	9.81	9.68	-1.61	MWD
6496.00	85.30	2.20	6230.06	247.59	214.75	248.56	4.20	3.55	-2.26	MWD
6520.00	86.95	0.70	6231.68	271.53	215.35	272.50	9.28	6.87	-6.25	600' entry
6528.00	87.50	0.20	6232.07	279.52	215.42	280.49	9.28	6.88	-6.24	MWD
6559.00	89.30	359.50	6232.93	310.50	215.34	311.48	6.23	5.81	-2.26	MWD
6601.00	89.30	359.40	6233.45	352.50	214.93	353.47	0.24	0.00	-0.24	MWD
6644.00	89.50	359.40	6233.90	395.49	214.48	396.46	0.47	0.47	0.00	MWD
6687.00	89.50	359.00	6234.27	438.49	213.88	439.45	0.93	0.00	-0.93	MWD
6729.00	91.20	359.20	6234.02	480.48	213.22	481.44	4.08	4.05	0.48	MWD
6772.00	91.10	359.00	6233.15	523.46	212.55	524.42	0.52	-0.23	-0.47	MWD
6814.00	90.70	358.50	6232.49	565.45	211.63	566.40	1.52	-0.95	-1.19	MWD
6857.00	91.30	359.40	6231.74	608.43	210.84	609.39	2.52	1.40	2.09	MWD
6900.00	90.30	1.30	6231.14	651.43	211.11	652.38	4.99	-2.33	4.42	MWD
6942.00	90.20	1.00	6230.96	693.42	211.95	694.37	0.75	-0.24	-0.71	MWD
6985.00	90.60	0.80	6230.66	736.41	212.62	737.37	1.04	0.93	-0.47	MWD
7027.00	90.70	1.10	6230.18	778.40	213.32	779.36	0.75	0.24	0.71	MWD
7070.00	90.50	0.60	6229.73	821.40	213.96	822.36	1.25	-0.47	-1.16	MWD
7112.00	89.30	359.70	6229.81	863.39	214.07	864.36	3.57	-2.86	-2.14	MWD
7154.00	88.90	0.10	6230.47	905.39	213.99	906.35	1.35	-0.95	0.95	MWD
7197.00	88.10	359.90	6231.59	948.37	213.99	949.34	1.92	-1.86	-0.47	MWD
7240.00	87.80	359.70	6233.13	991.35	213.84	992.31	0.84	-0.70	-0.47	MWD
7282.00	90.00	359.50	6233.94	1033.33	213.55	1034.29	5.26	5.24	-0.48	MWD
7325.00	89.60	359.20	6234.09	1076.33	213.06	1077.29	1.16	-0.93	-0.70	MWD
7367.00	90.70	359.90	6233.98	1118.33	212.73	1119.28	3.10	2.62	1.67	MWD
7410.00	90.50	359.20	6233.53	1161.33	212.40	1162.28	1.69	-0.47	-1.63	MWD
7452.00	90.20	359.00	6233.27	1203.32	211.74	1204.27	0.86	-0.71	-0.48	MWD
7495.00	90.00	358.70	6233.19	1246.31	210.87	1247.25	0.84	-0.47	-0.70	MWD
7537.00	90.20	358.70	6233.12	1288.30	209.92	1289.24	0.48	0.48	0.00	MWD
7579.00	90.70	1.00	6232.79	1330.30	209.81	1331.23	5.60	1.19	5.48	MWD
7622.00	90.60	0.60	6232.30	1373.29	210.41	1374.23	0.96	-0.23	-0.93	MWD
7665.00	90.60	0.20	6231.85	1416.28	210.71	1417.23	0.93	0.00	-0.93	MWD
7707.00	90.50	0.10	6231.45	1458.28	210.82	1459.22	0.34	-0.24	-0.24	MWD
7750.00	90.60	0.10	6231.04	1501.28	210.90	1502.22	0.23	0.23	0.00	MWD
7793.00	91.00	0.10	6230.44	1544.28	210.97	1545.22	0.93	0.93	0.00	MWD
7835.00	90.70	359.90	6229.81	1586.27	210.97	1587.21	0.86	-0.71	-0.48	MWD
7878.00	88.40	0.80	6230.15	1629.27	211.23	1630.21	5.74	-5.35	2.09	MWD
7920.00	90.40	2.20	6230.59	1671.25	212.33	1672.19	5.81	4.76	3.33	MWD
7963.00	90.80	2.40	6230.14	1714.21	214.06	1715.16	1.04	0.93	0.47	MWD
8006.00	90.70	2.20	6229.58	1757.17	215.78	1758.13	0.52	-0.23	-0.47	MWD
8048.00	90.80	2.20	6229.03	1799.14	217.40	1800.10	0.24	0.24	0.00	MWD
8091.00	90.40	1.50	6228.58	1842.11	218.78	1843.08	1.87	-0.93	-1.63	MWD
8134.00	89.80	0.40	6228.50	1885.10	219.50	1886.08	2.91	-1.40	-2.56	MWD
8176.00	90.50	0.10	6228.39	1927.10	219.68	1928.08	1.81	1.67	-0.71	MWD

Precision Directional Services, Inc.

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Well: 7-26-8-60	Section (VS) Reference: Well (0.00N,0.00E,0.26Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Adapti	

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
8219.00	92.20	0.10	6227.38	1970.09	219.76	1971.07	3.95	3.95	0.00	MWD
8261.00	92.20	359.70	6225.77	2012.06	219.68	2013.03	0.95	0.00	-0.95	MWD
8304.00	92.20	359.20	6224.12	2055.02	219.27	2056.00	1.16	0.00	-1.16	MWD
8347.00	92.30	358.80	6222.43	2097.99	218.52	2098.96	0.96	0.23	-0.93	MWD
8389.00	92.50	358.80	6220.67	2139.94	217.64	2140.90	0.48	0.48	0.00	MWD
8432.00	92.60	358.30	6218.76	2182.88	216.55	2183.84	1.18	0.23	-1.16	MWD
8474.00	92.90	358.10	6216.74	2224.81	215.24	2225.77	0.86	0.71	-0.48	MWD
8517.00	92.20	0.40	6214.83	2267.76	214.67	2268.71	5.59	-1.63	5.35	MWD
8559.00	90.80	359.70	6213.73	2309.75	214.71	2310.70	3.73	-3.33	-1.67	MWD
8602.00	90.90	359.20	6213.09	2352.74	214.30	2353.69	1.19	0.23	-1.16	MWD
8645.00	90.20	1.00	6212.68	2395.74	214.37	2396.69	4.49	-1.63	4.19	MWD
8687.00	90.60	0.60	6212.38	2437.73	214.96	2438.68	1.35	0.95	-0.95	MWD
8730.00	90.20	359.90	6212.08	2480.73	215.15	2481.68	1.87	-0.93	-1.63	MWD
8773.00	89.40	0.80	6212.23	2523.73	215.41	2524.68	2.80	-1.86	2.09	MWD
8815.00	89.50	0.10	6212.64	2565.72	215.74	2566.68	1.68	0.24	-1.67	MWD
8858.00	90.10	0.80	6212.79	2608.72	216.08	2609.68	2.14	1.40	1.63	MWD
8901.00	90.80	2.00	6212.45	2651.71	217.13	2652.67	3.23	1.63	2.79	MWD
8943.00	91.10	2.50	6211.75	2693.67	218.78	2694.63	1.39	0.71	1.19	MWD
8986.00	88.90	0.60	6211.75	2736.65	219.94	2737.62	6.76	-5.12	-4.42	MWD
9029.00	88.40	0.10	6212.77	2779.64	220.20	2780.61	1.64	-1.16	-1.16	MWD
9071.00	88.40	359.90	6213.94	2821.62	220.20	2822.59	0.48	0.00	-0.48	MWD
9114.00	89.50	0.40	6214.73	2864.61	220.32	2865.58	2.81	2.56	1.16	MWD
9156.00	89.30	0.60	6215.17	2906.61	220.68	2907.58	0.67	-0.48	0.48	MWD
9199.00	89.20	0.20	6215.73	2949.60	220.98	2950.58	0.96	-0.23	-0.93	MWD
9242.00	89.50	0.10	6216.22	2992.60	221.09	2993.57	0.74	0.70	-0.23	MWD
9284.00	89.50	359.40	6216.58	3034.60	220.91	3035.57	1.67	0.00	-1.67	MWD
9327.00	89.50	359.00	6216.96	3077.59	220.31	3078.56	0.93	0.00	-0.93	MWD
9370.00	89.40	358.80	6217.37	3120.58	219.49	3121.55	0.52	-0.23	-0.47	MWD
9412.00	88.70	0.10	6218.07	3162.57	219.08	3163.53	3.52	-1.67	3.10	MWD
9454.00	87.70	0.10	6219.39	3204.55	219.16	3205.51	2.38	-2.38	0.00	MWD
9497.00	87.50	359.50	6221.19	3247.51	219.01	3248.47	1.47	-0.47	-1.40	MWD
9540.00	87.20	359.20	6223.18	3290.46	218.52	3291.42	0.99	-0.70	-0.70	MWD
9582.00	87.10	359.00	6225.27	3332.41	217.86	3333.36	0.53	-0.24	-0.48	MWD
9625.00	87.70	1.10	6227.22	3375.36	217.90	3376.31	5.07	1.40	4.88	MWD
9667.00	89.00	1.30	6228.43	3417.33	218.78	3418.29	3.13	3.10	0.48	MWD
9710.00	88.70	1.00	6229.29	3460.32	219.64	3461.28	0.99	-0.70	-0.70	MWD
9752.00	88.60	1.00	6230.28	3502.30	220.37	3503.26	0.24	-0.24	0.00	MWD
9795.00	88.70	0.10	6231.29	3545.28	220.78	3546.25	2.11	0.23	-2.09	MWD
9838.00	88.40	1.30	6232.38	3588.27	221.31	3589.23	2.88	-0.70	2.79	MWD
9880.00	87.70	2.40	6233.81	3630.22	222.66	3631.19	3.10	-1.67	2.62	MWD
9923.00	86.70	3.10	6235.91	3673.12	224.73	3674.10	2.84	-2.33	1.63	MWD
9965.00	86.30	2.00	6238.47	3715.00	226.59	3715.99	2.78	-0.95	-2.62	MWD
10008.00	85.50	1.80	6241.55	3757.86	228.01	3758.86	1.92	-1.86	-0.47	MWD
10051.00	84.90	1.50	6245.15	3800.69	229.25	3801.69	1.56	-1.40	-0.70	MWD
10093.00	87.70	1.50	6247.86	3842.59	230.34	3843.59	6.67	6.67	0.00	MWD
10136.00	87.20	1.50	6249.77	3885.53	231.47	3886.54	1.16	-1.16	0.00	MWD
10179.00	86.70	1.10	6252.06	3928.46	232.44	3929.47	1.49	-1.16	-0.93	MWD
10221.00	85.80	0.40	6254.80	3970.36	232.99	3971.38	2.71	-2.14	-1.67	MWD
10264.00	88.30	358.70	6257.02	4013.30	232.65	4014.31	7.03	5.81	-3.95	MWD
10306.00	89.90	358.30	6257.68	4055.28	231.55	4056.29	3.93	3.81	-0.95	MWD
10349.00	90.70	358.80	6257.45	4098.26	230.47	4099.27	2.19	1.86	1.16	MWD
10392.00	90.30	358.50	6257.08	4141.25	229.45	4142.25	1.16	-0.93	-0.70	MWD
10434.00	90.00	358.50	6256.97	4183.24	228.35	4184.23	0.71	-0.71	0.00	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC.	Date: 09/04/2013	Time: 10:33:53	Page: 5
Field: Niobrara CONZ'83	Co-ordinate(NE) Reference: Well: 7-26-8-60, Grid North		
Site: Bailey 2-26-8-60 Pad	Vertical (TVD) Reference: 4874'GL+17'KB 4891.0		
Well: 7-26-8-60	Section (VS) Reference: Well (0.00N,0.00E,0.26Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature	Db: Adapti	

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
10477.00	92.20	358.70	6256.14	4226.21	227.30	4227.20	5.14	5.12	0.47	MWD
10516.00	92.20	358.50	6254.64	4265.17	226.35	4266.15	0.51	0.00	-0.51	MWD
10573.00	92.20	358.50	6252.46	4322.11	224.86	4323.09	0.00	0.00	0.00	Project

Annotation

MD ft	TVD ft	
6520.00	6231.68	600' entry