



Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL 3-25	0.00	0.00	0.00	1506559.14	3406059.43	40°42'52.852N	104°02'06.683W	Point
600' entry 3-25	6174.06	323.63	-618.61	1506882.77	3405440.82	40°42'56.150N	104°02'14.646W	Point
PBHL 3-25	6180.00	4420.08	-681.14	1510979.22	3405378.29	40°43'36.633N	104°02'14.580W	Point
BHL 3-25	6232.02	4417.00	-701.93	1510976.14	3405357.50	40°43'36.606N	104°02'14.851W	Point

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC.		Date: 07/09/2013	Time: 14:42:22	Page: 1
Field: Niobrara CONZ'83		Co-ordinate(NE) Reference: Well: 3-25-9-60, Grid North		
Site: Shull 1-25-9-60 Pad		Vertical (TVD) Reference: 4943'GL+17"KB 4960.0		
Well: 3-25-9-60		Section (VS) Reference: Well (0.00N,0.00E,359.09Azi)		
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: Shull 1-25-9-60 Pad				
Weld County, CO				
Site Position:	Northing: 1511404.05 ft	Latitude: 40 43 40.724 N		
From: Map	Easting: 3406027.06 ft	Longitude: 104 2 6.064 W		
Position Uncertainty: 0.00 ft		North Reference: Grid		
Ground Level: 4943.00 ft		Grid Convergence: 0.95 deg		

Well: 3-25-9-60		Slot Name: 3-25		
265 FSL 1339 FEL				
Well Position: +N/-S -4844.91 ft	Northing: 1506559.14 ft	Latitude: 40 42 52.852 N		
+E/-W 32.37 ft	Easting : 3406059.43 ft	Longitude: 104 2 6.683 W		
Position Uncertainty: 0.00 ft				

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: 4943'GL+17"KB		Tie-on Depth: 0.00 ft	
Magnetic Data: 06/29/2013		Above System Datum: Mean Sea Level	
Field Strength: 53202 nT		Declination: 8.22 deg	
Vertical Section: Depth From (TVD)		Mag Dip Angle: 67.36 deg	
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	359.09

Survey Program for Definitive Wellpath				
Date: 07/08/2013		Validated: No	Version: 2	
Actual From ft	To ft	Survey	Toolcode	Tool Name
108.00	10507.00	Survey #1 (108.00-10507.00)	MWD	Std MWD
10565.00	10565.00	Survey #2 (10565.00-10565.00)	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
108.00	0.60	182.90	108.00	-0.56	-0.03	-0.56	0.56	0.56	0.00	MWD
139.00	1.10	179.70	138.99	-1.02	-0.04	-1.02	1.62	1.61	-10.32	MWD
231.00	1.10	187.50	230.98	-2.78	-0.15	-2.78	0.16	0.00	8.48	MWD
324.00	1.20	174.10	323.96	-4.64	-0.16	-4.63	0.31	0.11	-14.41	MWD
418.00	2.50	213.30	417.91	-7.33	-1.19	-7.31	1.85	1.38	41.70	MWD
510.00	3.80	209.40	509.77	-11.66	-3.79	-11.60	1.43	1.41	-4.24	MWD
602.00	4.50	209.60	601.53	-17.46	-7.06	-17.34	0.76	0.76	0.22	MWD
694.00	4.50	210.70	693.24	-23.70	-10.69	-23.53	0.09	0.00	1.20	MWD
786.00	4.70	234.70	784.96	-28.98	-15.61	-28.73	2.09	0.22	26.09	MWD
878.00	5.80	245.50	876.57	-33.09	-22.92	-32.72	1.60	1.20	11.74	MWD
970.00	5.80	243.50	968.10	-37.09	-31.31	-36.59	0.22	0.00	-2.17	MWD
1062.00	6.70	245.10	1059.55	-41.42	-40.33	-40.78	1.00	0.98	1.74	MWD
1154.00	6.70	246.50	1150.93	-45.82	-50.12	-45.02	0.18	0.00	1.52	MWD
1246.00	6.40	253.00	1242.33	-49.46	-59.95	-48.50	0.87	-0.33	7.07	MWD
1338.00	6.20	253.90	1333.77	-52.34	-69.63	-51.23	0.24	-0.22	0.98	MWD
1397.00	6.00	253.40	1392.44	-54.10	-75.64	-52.89	0.35	-0.34	-0.85	MWD
1495.00	6.20	252.10	1489.88	-57.19	-85.59	-55.83	0.25	0.20	-1.33	MWD
1580.00	5.80	255.10	1574.42	-59.71	-94.10	-58.21	0.60	-0.47	3.53	MWD
1665.00	5.90	251.80	1658.97	-62.18	-102.41	-60.54	0.41	0.12	-3.88	MWD
1750.00	6.20	252.50	1743.50	-64.92	-110.93	-63.15	0.36	0.35	0.82	MWD
1777.00	6.10	247.90	1770.34	-65.90	-113.65	-64.09	1.86	-0.37	-17.04	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC.	Date: 07/09/2013	Time: 14:42:22	Page: 2
Field: Niobrara CONZ'83	Co-ordinate(NE) Reference: Well: 3-25-9-60, Grid North		
Site: Shull 1-25-9-60 Pad	Vertical (TVD) Reference: 4943'GL+17"KB 4960.0		
Well: 3-25-9-60	Section (VS) Reference: Well (0.00N,0.00E,359.09Azi)		
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
1861.00	6.30	243.90	1853.85	-69.61	-121.93	-67.66	0.57	0.24	-4.76	MWD
1946.00	7.10	243.70	1938.27	-73.98	-130.82	-71.90	0.94	0.94	-0.24	MWD
2031.00	7.00	253.70	2022.63	-77.77	-140.51	-75.53	1.45	-0.12	11.76	MWD
2116.00	6.30	252.30	2107.06	-80.64	-149.92	-78.25	0.85	-0.82	-1.65	MWD
2201.00	6.50	257.20	2191.53	-83.12	-159.05	-80.59	0.68	0.24	5.76	MWD
2286.00	6.40	258.30	2275.99	-85.15	-168.38	-82.46	0.19	-0.12	1.29	MWD
2372.00	5.80	253.70	2361.51	-87.34	-177.25	-84.51	0.90	-0.70	-5.35	MWD
2457.00	6.90	257.10	2445.98	-89.69	-186.35	-86.71	1.37	1.29	4.00	MWD
2542.00	6.00	259.50	2530.45	-91.63	-195.69	-88.52	1.11	-1.06	2.82	MWD
2627.00	7.40	256.50	2614.86	-93.72	-205.39	-90.45	1.70	1.65	-3.53	MWD
2712.00	7.30	253.70	2699.16	-96.52	-215.89	-93.08	0.44	-0.12	-3.29	MWD
2797.00	7.30	255.80	2783.48	-99.36	-226.31	-95.75	0.31	0.00	2.47	MWD
2883.00	7.20	251.30	2868.79	-102.42	-236.71	-98.65	0.67	-0.12	-5.23	MWD
2967.00	7.20	253.20	2952.13	-105.63	-246.74	-101.70	0.28	0.00	2.26	MWD
3053.00	6.90	251.80	3037.48	-108.80	-256.80	-104.71	0.40	-0.35	-1.63	MWD
3138.00	6.20	249.80	3121.92	-111.98	-265.96	-107.75	0.87	-0.82	-2.35	MWD
3223.00	4.90	249.30	3206.52	-114.85	-273.67	-110.49	1.53	-1.53	-0.59	MWD
3308.00	5.70	250.60	3291.16	-117.54	-281.04	-113.06	0.95	0.94	1.53	MWD
3394.00	6.90	256.00	3376.64	-120.21	-290.08	-115.58	1.55	1.40	6.28	MWD
3479.00	7.60	252.80	3460.96	-123.10	-300.41	-118.32	0.95	0.82	-3.76	MWD
3564.00	7.90	253.20	3545.18	-126.45	-311.37	-121.49	0.36	0.35	0.47	MWD
3649.00	8.40	255.50	3629.32	-129.70	-322.97	-124.55	0.70	0.59	2.71	MWD
3734.00	7.10	251.10	3713.54	-132.95	-333.95	-127.63	1.68	-1.53	-5.18	MWD
3819.00	7.10	252.00	3797.89	-136.28	-343.92	-130.80	0.13	0.00	1.06	MWD
3904.00	6.80	246.50	3882.27	-139.91	-353.53	-134.28	0.86	-0.35	-6.47	MWD
3990.00	6.00	248.30	3967.73	-143.60	-362.38	-137.83	0.96	-0.93	2.09	MWD
4075.00	5.70	249.70	4052.29	-146.71	-370.46	-140.81	0.39	-0.35	1.65	MWD
4160.00	5.90	253.90	4136.86	-149.38	-378.62	-143.35	0.55	0.24	4.94	MWD
4245.00	6.30	252.30	4221.37	-152.01	-387.26	-145.84	0.51	0.47	-1.88	MWD
4331.00	5.70	252.00	4306.90	-154.77	-395.82	-148.46	0.70	-0.70	-0.35	MWD
4416.00	6.60	250.20	4391.41	-157.73	-404.43	-151.28	1.08	1.06	-2.12	MWD
4501.00	5.40	246.70	4475.95	-160.96	-412.70	-154.39	1.48	-1.41	-4.12	MWD
4586.00	6.10	251.10	4560.52	-164.01	-420.64	-157.31	0.97	0.82	5.18	MWD
4671.00	7.10	256.70	4644.95	-166.68	-430.03	-159.83	1.40	1.18	6.59	MWD
4757.00	6.20	256.20	4730.37	-169.01	-439.71	-162.01	1.05	-1.05	-0.58	MWD
4842.00	4.80	252.70	4814.98	-171.16	-447.56	-164.03	1.69	-1.65	-4.12	MWD
4927.00	6.00	253.90	4899.60	-173.45	-455.23	-166.20	1.42	1.41	1.41	MWD
5012.00	6.90	250.40	4984.06	-176.40	-464.31	-169.00	1.15	1.06	-4.12	MWD
5097.00	6.00	248.10	5068.53	-179.77	-473.24	-172.23	1.10	-1.06	-2.71	MWD
5183.00	6.20	249.00	5154.04	-183.11	-481.74	-175.43	0.26	0.23	1.05	MWD
5267.00	7.20	246.00	5237.46	-186.87	-490.79	-179.06	1.26	1.19	-3.57	MWD
5352.00	5.50	245.80	5321.94	-190.71	-499.37	-182.76	2.00	-2.00	-0.24	MWD
5437.00	6.00	252.70	5406.51	-193.70	-507.33	-185.62	1.00	0.59	8.12	MWD
5522.00	6.00	262.00	5491.05	-195.64	-515.97	-187.42	1.14	0.00	10.94	MWD
5538.00	6.00	262.30	5506.96	-195.87	-517.62	-187.62	0.20	0.00	1.87	MWD
5581.00	6.90	277.30	5549.69	-195.84	-522.41	-187.52	4.42	2.09	34.88	MWD
5623.00	10.30	294.00	5591.22	-193.99	-528.35	-185.58	9.96	8.10	39.76	MWD
5666.00	13.60	303.30	5633.29	-189.65	-536.09	-181.12	8.86	7.67	21.63	MWD
5709.00	16.50	314.20	5674.81	-182.62	-544.70	-173.94	9.40	6.74	25.35	MWD
5751.00	19.00	324.60	5714.82	-172.88	-552.94	-164.08	9.59	5.95	24.76	MWD
5794.00	21.50	333.90	5755.17	-160.10	-560.46	-151.17	9.46	5.81	21.63	MWD
5836.00	23.60	342.80	5793.97	-145.15	-566.34	-136.13	9.53	5.00	21.19	MWD
5879.00	26.70	347.80	5832.89	-127.47	-570.92	-118.39	8.73	7.21	11.63	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC. Field: Niobrara CONZ'83 Site: Shull 1-25-9-60 Pad Well: 3-25-9-60 Wellpath: Original Hole	Date: 07/09/2013 Time: 14:42:22 Co-ordinate(NE) Reference: Well: 3-25-9-60, Grid North Vertical (TVD) Reference: 4943'GL+17"KB 4960.0 Section (VS) Reference: Well (0.00N,0.00E,359.09Azi) 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
5921.00	30.20	350.60	5869.82	-107.82	-574.64	-98.68	8.92	8.33	6.67	MWD
5964.00	34.30	353.60	5906.18	-85.10	-577.76	-75.92	10.23	9.53	6.98	MWD
6007.00	38.50	354.40	5940.78	-59.73	-580.42	-50.50	9.83	9.77	1.86	MWD
6049.00	43.70	354.30	5972.42	-32.26	-583.14	-23.00	12.38	12.38	-0.24	MWD
6092.00	47.90	353.90	6002.39	-1.61	-586.31	7.70	9.79	9.77	-0.93	MWD
6134.00	50.90	353.60	6029.72	30.09	-589.78	39.45	7.16	7.14	-0.71	MWD
6177.00	53.60	353.20	6056.04	63.86	-593.69	73.28	6.32	6.28	-0.93	MWD
6219.00	56.70	353.40	6080.04	98.09	-597.71	107.57	7.39	7.38	0.48	MWD
6239.00	58.10	353.60	6090.82	114.83	-599.62	124.34	7.05	7.00	1.00	MWD
6314.00	63.90	353.40	6127.16	179.97	-607.05	189.59	7.74	7.73	-0.27	MWD
6356.00	69.00	355.10	6143.94	218.27	-610.89	227.94	12.70	12.14	4.05	MWD
6399.00	73.30	355.50	6157.83	258.82	-614.22	268.54	10.04	10.00	0.93	MWD
6442.00	76.30	356.20	6169.10	300.20	-617.22	309.96	7.15	6.98	1.63	MWD
6466.00	79.84	357.01	6174.06	323.63	-618.61	333.42	15.12	14.76	3.36	600' entry
6484.00	82.50	357.60	6176.82	341.40	-619.45	351.19	15.12	14.77	3.30	MWD
6526.00	88.20	0.10	6180.23	383.23	-620.29	393.04	14.81	13.57	5.95	MWD
6569.00	88.30	359.40	6181.54	426.21	-620.47	436.01	1.64	0.23	-1.63	MWD
6601.00	88.00	359.50	6182.57	458.19	-620.78	468.00	0.99	-0.94	0.31	MWD
6643.00	90.20	0.20	6183.23	500.19	-620.89	509.98	5.50	5.24	1.67	MWD
6686.00	90.00	358.80	6183.16	543.18	-621.27	552.98	3.29	-0.47	-3.26	MWD
6729.00	90.40	358.70	6183.01	586.17	-622.20	595.98	0.96	0.93	-0.23	MWD
6771.00	90.10	357.10	6182.82	628.14	-623.74	637.97	3.88	-0.71	-3.81	MWD
6814.00	90.10	357.30	6182.75	671.09	-625.84	680.95	0.47	0.00	0.47	MWD
6857.00	90.10	357.30	6182.67	714.04	-627.87	723.92	0.00	0.00	0.00	MWD
6899.00	91.50	357.30	6182.09	755.99	-629.85	765.90	3.33	3.33	0.00	MWD
6941.00	93.10	357.60	6180.40	797.91	-631.71	807.85	3.88	3.81	0.71	MWD
6984.00	92.90	359.90	6178.15	840.84	-632.65	850.78	5.36	-0.47	5.35	MWD
7027.00	92.60	1.60	6176.09	883.79	-632.09	893.71	4.01	-0.70	3.95	MWD
7069.00	92.20	1.10	6174.33	925.74	-631.10	935.65	1.52	-0.95	-1.19	MWD
7112.00	91.80	0.80	6172.83	968.71	-630.39	978.60	1.16	-0.93	-0.70	MWD
7154.00	89.20	0.40	6172.46	1010.70	-629.95	1020.58	6.26	-6.19	-0.95	MWD
7197.00	89.70	0.10	6172.88	1053.70	-629.76	1063.57	1.36	1.16	-0.70	MWD
7240.00	89.70	0.20	6173.10	1096.70	-629.65	1106.56	0.23	0.00	0.23	MWD
7282.00	87.80	359.90	6174.02	1138.68	-629.61	1148.54	4.58	-4.52	-0.71	MWD
7325.00	87.50	359.70	6175.78	1181.65	-629.76	1191.50	0.84	-0.70	-0.47	MWD
7368.00	88.80	0.60	6177.17	1224.62	-629.65	1234.47	3.68	3.02	2.09	MWD
7410.00	89.30	359.70	6177.86	1266.62	-629.54	1276.46	2.45	1.19	-2.14	MWD
7453.00	89.40	359.50	6178.35	1309.61	-629.84	1319.45	0.52	0.23	-0.47	MWD
7495.00	90.00	359.50	6178.57	1351.61	-630.21	1361.45	1.43	1.43	0.00	MWD
7538.00	90.20	0.60	6178.50	1394.61	-630.17	1404.44	2.60	0.47	2.56	MWD
7580.00	90.40	2.90	6178.28	1436.59	-628.89	1446.39	5.50	0.48	5.48	MWD
7623.00	90.70	2.90	6177.86	1479.53	-626.71	1489.30	0.70	0.70	0.00	MWD
7665.00	89.60	1.30	6177.75	1521.50	-625.17	1531.24	4.62	-2.62	-3.81	MWD
7708.00	90.80	0.60	6177.60	1564.49	-624.46	1574.21	3.23	2.79	-1.63	MWD
7750.00	90.10	359.90	6177.27	1606.49	-624.27	1616.20	2.36	-1.67	-1.67	MWD
7793.00	90.80	1.30	6176.94	1649.48	-623.82	1659.18	3.64	1.63	3.26	MWD
7836.00	90.40	0.60	6176.49	1692.48	-623.11	1702.16	1.87	-0.93	-1.63	MWD
7878.00	90.40	0.40	6176.19	1734.47	-622.75	1744.15	0.48	0.00	-0.48	MWD
7921.00	89.20	356.70	6176.34	1777.45	-623.83	1787.13	9.05	-2.79	-8.60	MWD
7964.00	88.60	354.40	6177.17	1820.31	-627.17	1830.04	5.53	-1.40	-5.35	MWD
8006.00	88.40	353.60	6178.27	1862.07	-631.56	1871.86	1.96	-0.48	-1.90	MWD
8049.00	91.10	355.10	6178.46	1904.85	-635.79	1914.71	7.18	6.28	3.49	MWD
8092.00	92.70	357.60	6177.03	1947.74	-638.53	1957.63	6.90	3.72	5.81	MWD
8134.00	92.20	356.40	6175.23	1989.64	-640.72	1999.56	3.09	-1.19	-2.86	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC. Field: Niobrara CONZ'83 Site: Shull 1-25-9-60 Pad Well: 3-25-9-60 Wellpath: Original Hole	Date: 07/09/2013 Time: 14:42:22 Page: 4 Co-ordinate(NE) Reference: Well: 3-25-9-60, Grid North Vertical (TVD) Reference: 4943'GL+17'KB 4960.0 Section (VS) Reference: Well (0.00N,0.00E,359.09Azi) 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
8177.00	90.30	357.40	6174.30	2032.56	-643.05	2042.52	4.99	-4.42	2.33	MWD
8219.00	90.00	356.20	6174.19	2074.50	-645.39	2084.49	2.95	-0.71	-2.86	MWD
8262.00	90.60	358.00	6173.96	2117.44	-647.57	2127.46	4.41	1.40	4.19	MWD
8304.00	89.60	356.70	6173.89	2159.39	-649.51	2169.44	3.91	-2.38	-3.10	MWD
8347.00	89.00	358.30	6174.41	2202.35	-651.38	2212.41	3.97	-1.40	3.72	MWD
8390.00	89.50	358.70	6174.98	2245.33	-652.51	2255.41	1.49	1.16	0.93	MWD
8432.00	90.70	359.70	6174.90	2287.32	-653.10	2297.41	3.72	2.86	2.38	MWD
8475.00	90.90	359.70	6174.30	2330.32	-653.32	2340.40	0.47	0.47	0.00	MWD
8517.00	90.70	359.90	6173.72	2372.31	-653.47	2382.39	0.67	-0.48	0.48	MWD
8560.00	90.10	359.00	6173.42	2415.31	-653.88	2425.39	2.52	-1.40	-2.09	MWD
8603.00	90.00	358.70	6173.38	2458.30	-654.74	2468.39	0.74	-0.23	-0.70	MWD
8645.00	90.40	359.00	6173.23	2500.29	-655.59	2510.39	1.19	0.95	0.71	MWD
8688.00	91.60	0.20	6172.48	2543.28	-655.89	2553.38	3.95	2.79	2.79	MWD
8730.00	91.70	0.20	6171.27	2585.27	-655.74	2595.35	0.24	0.24	0.00	MWD
8773.00	91.70	359.20	6170.00	2628.25	-655.96	2638.33	2.32	0.00	-2.33	MWD
8816.00	90.10	359.20	6169.32	2671.23	-656.56	2681.33	3.72	-3.72	0.00	MWD
8858.00	88.90	358.50	6169.69	2713.22	-657.41	2723.32	3.31	-2.86	-1.67	MWD
8901.00	88.70	358.00	6170.59	2756.19	-658.72	2766.31	1.25	-0.47	-1.16	MWD
8943.00	88.20	358.70	6171.72	2798.16	-659.93	2808.29	2.05	-1.19	1.67	MWD
8986.00	89.00	357.60	6172.77	2841.12	-661.32	2851.27	3.16	1.86	-2.56	MWD
9029.00	92.00	358.00	6172.40	2884.09	-662.97	2894.25	7.04	6.98	0.93	MWD
9071.00	92.30	358.30	6170.82	2926.03	-664.32	2936.22	1.01	0.71	0.71	MWD
9114.00	92.30	356.70	6169.10	2968.96	-666.20	2979.16	3.72	0.00	-3.72	MWD
9157.00	92.20	357.10	6167.41	3011.86	-668.52	3022.10	0.96	-0.23	0.93	MWD
9199.00	90.80	359.40	6166.31	3053.82	-669.80	3064.08	6.41	-3.33	5.48	MWD
9241.00	90.60	1.10	6165.80	3095.82	-669.62	3106.06	4.08	-0.48	4.05	MWD
9283.00	88.50	1.30	6166.13	3137.81	-668.74	3148.03	5.02	-5.00	0.48	MWD
9326.00	87.30	0.40	6167.70	3180.77	-668.10	3190.98	3.49	-2.79	-2.09	MWD
9369.00	87.70	1.30	6169.58	3223.72	-667.46	3233.92	2.29	0.93	2.09	MWD
9411.00	88.50	1.10	6170.97	3265.69	-666.59	3275.87	1.96	1.90	-0.48	MWD
9454.00	87.10	0.40	6172.62	3308.66	-666.02	3318.82	3.64	-3.26	-1.63	MWD
9496.00	86.30	359.90	6175.04	3350.59	-665.91	3360.74	2.25	-1.90	-1.19	MWD
9539.00	86.30	359.40	6177.81	3393.49	-666.18	3403.65	1.16	0.00	-1.16	MWD
9581.00	87.90	359.50	6179.94	3435.44	-666.58	3445.59	3.82	3.81	0.24	MWD
9624.00	87.70	359.70	6181.59	3478.40	-666.88	3488.56	0.66	-0.47	0.47	MWD
9667.00	87.00	358.30	6183.58	3521.35	-667.63	3531.51	3.64	-1.63	-3.26	MWD
9708.00	86.30	358.10	6185.97	3562.26	-668.91	3572.43	1.78	-1.71	-0.49	MWD
9751.00	86.10	359.40	6188.82	3605.15	-669.85	3615.34	3.05	-0.47	3.02	MWD
9793.00	85.40	358.00	6191.94	3647.03	-670.80	3657.22	3.72	-1.67	-3.33	MWD
9836.00	87.10	358.30	6194.75	3689.91	-672.18	3700.12	4.01	3.95	0.70	MWD
9878.00	88.70	359.20	6196.29	3731.87	-673.10	3742.09	4.37	3.81	2.14	MWD
9921.00	88.80	358.70	6197.23	3774.85	-673.89	3785.08	1.19	0.23	-1.16	MWD
9964.00	88.80	358.10	6198.13	3817.83	-675.09	3828.07	1.40	0.00	-1.40	MWD
10006.00	88.70	357.30	6199.04	3859.78	-676.77	3870.04	1.92	-0.24	-1.90	MWD
10049.00	88.60	357.30	6200.06	3902.72	-678.80	3913.01	0.23	-0.23	0.00	MWD
10091.00	88.50	357.10	6201.12	3944.66	-680.85	3954.98	0.53	-0.24	-0.48	MWD
10134.00	88.70	356.50	6202.17	3987.58	-683.25	3997.93	1.47	0.47	-1.40	MWD
10176.00	88.70	355.70	6203.12	4029.47	-686.10	4039.86	1.90	0.00	-1.90	MWD
10219.00	86.20	356.90	6205.03	4072.33	-688.88	4082.76	6.45	-5.81	2.79	MWD
10262.00	84.90	358.30	6208.37	4115.17	-690.67	4125.62	4.44	-3.02	3.26	MWD
10304.00	84.70	358.30	6212.18	4156.97	-691.91	4167.44	0.48	-0.48	0.00	MWD
10347.00	85.90	359.00	6215.70	4199.82	-692.92	4210.29	3.23	2.79	1.63	MWD
10389.00	86.00	358.50	6218.67	4241.70	-693.84	4252.19	1.21	0.24	-1.19	MWD

Precision Directional Services, Inc.

Survey Report

Company: CARRIZO OIL & GAS, INC. Field: Niobrara CONZ'83 Site: Shull 1-25-9-60 Pad Well: 3-25-9-60 Wellpath: Original Hole	Date: 07/09/2013 Time: 14:42:22 Page: 5 Co-ordinate(NE) Reference: Well: 3-25-9-60, Grid North Vertical (TVD) Reference: 4943'GL+17'KB 4960.0 Section (VS) Reference: Well (0.00N,0.00E,359.09Azi) 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
10432.00	85.60	357.10	6221.82	4284.55	-695.48	4295.06	3.38	-0.93	-3.26	MWD
10474.00	85.40	356.90	6225.11	4326.37	-697.67	4336.90	0.67	-0.48	-0.48	MWD
10507.00	85.70	357.40	6227.67	4359.23	-699.31	4369.78	1.76	0.91	1.52	MWD
10565.00	85.70	357.40	6232.02	4417.00	-701.93	4427.59	0.00	0.00	0.00	Project

Annotation

MD ft	TVD ft	
6466.00	6174.06	600' entry