



CARRIZO

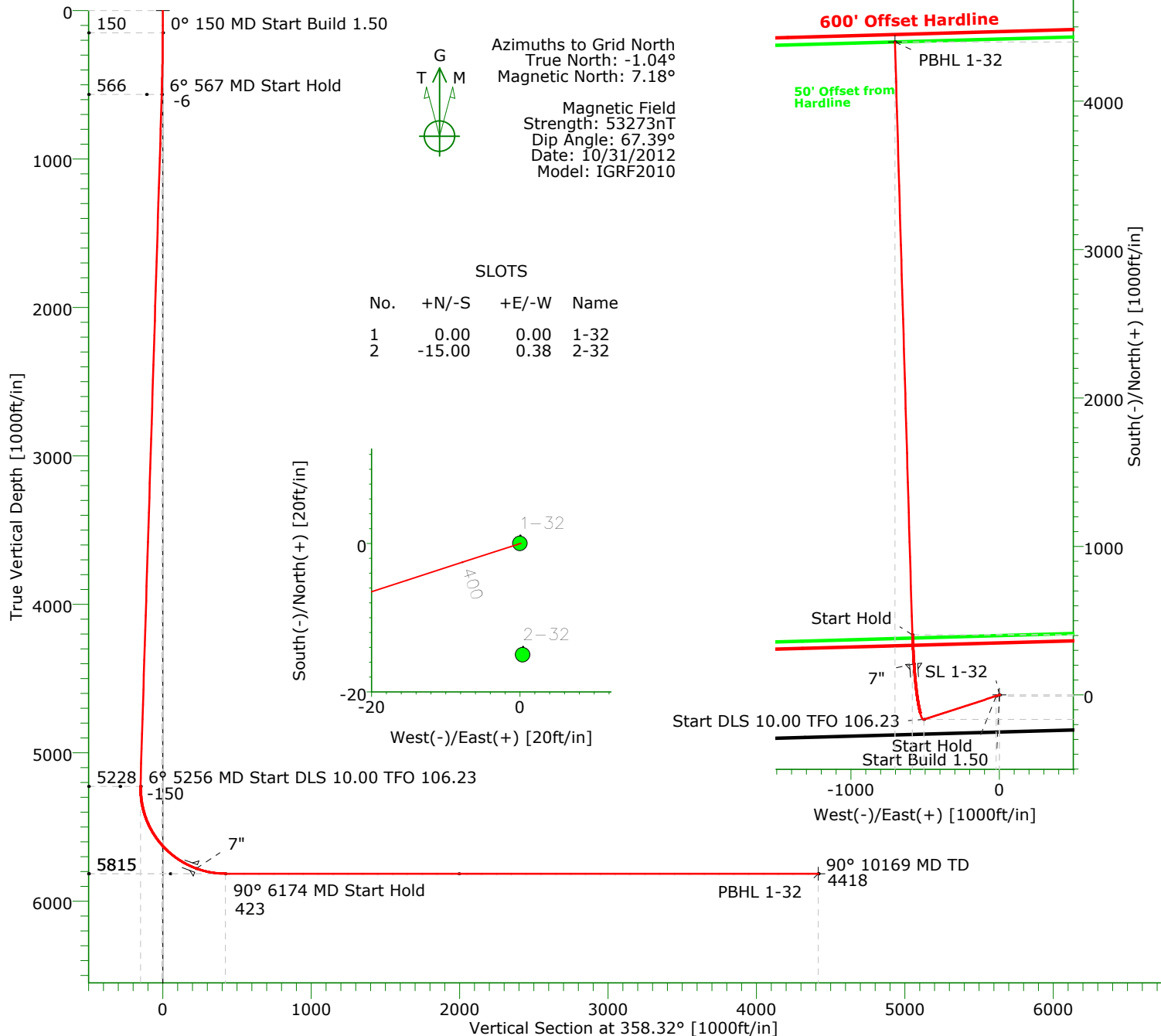
CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Bringelson 1-32-9-58 Pad
Well: 1-32-9-58
Wellpath: Original Hole
Plan: Plan #1



Precision
 Directional Services

CASING DETAILS

No.	TVD	MD	Name	Size
1	5780.25	5972.83	7"	7.000



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL 1-32	0.00	0.00	0.00	1502242.15	3448322.07	40°42'02.945N	103°52'58.966W	Point
PBHL 1-32	5815.00	4399.18	-702.66	1506641.33	3447619.41	40°42'46.534N	103°53'07.048W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	
3	566.67	6.25	252.00	565.84	-7.02	-21.59	1.50	252.00	-6.38	
4	5256.45	6.25	252.00	5227.75	-164.79	-507.17	0.00	0.00	-149.85	
5	6173.98	90.00	358.32	5815.00	405.85	-585.64	10.00	106.23	422.84	
6	10169.03	90.00	358.32	5815.00	4399.18	-702.66	0.00	0.00	4417.89	PBHL 1-32

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC. Field: Niobrara CONZ'83 Site: Bringelson 1-32-9-58 Pad Well: 1-32-9-58 Wellpath: Original Hole	Date: 09/26/2012 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Plan:	Time: 14:11:53 Well: 1-32-9-58, Grid North 4782'GL+17"KB 4799.0 Well (0.00N,0.00E,358.32Azi) Plan #1	Page: 1
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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: Bringelson 1-32-9-58 Pad Weld County, CO Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 4782.00 ft	Northing: 1502242.15 ft Easting: 3448322.07 ft Latitude: 40 42 2.945 N Longitude: 103 52 58.966 W North Reference: Grid Grid Convergence: 1.04 deg
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Well: 1-32-9-58 Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft	Slot Name: 1-32 Latitude: 40 42 2.945 N Longitude: 103 52 58.966 W
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Wellpath: Original Hole Current Datum: 4782'GL+17"KB Magnetic Data: 10/31/2012 Field Strength: 53273 nT Vertical Section: Depth From (TVD) ft	Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 8.22 deg Mag Dip Angle: 67.39 deg +N/-S ft +E/-W ft Direction deg
0.00	0.00

Plan: Plan #1 Principal: No	Date Composed: 09/26/2012 Version: 1 Tied-to: From Surface
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Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
566.67	6.25	252.00	565.84	-7.02	-21.59	1.50	1.50	0.00	252.00	
5256.45	6.25	252.00	5227.75	-164.79	-507.17	0.00	0.00	0.00	0.00	
6173.98	90.00	358.32	5815.00	405.85	-585.64	10.00	9.13	11.59	106.23	
10169.03	90.00	358.32	5815.00	4399.18	-702.66	0.00	0.00	0.00	0.00	PBHL 1-32

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
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.75	252.00	200.00	-0.10	-0.31	-0.09	1.50	1.50	0.00	
250.00	1.50	252.00	249.99	-0.40	-1.24	-0.37	1.50	1.50	0.00	
300.00	2.25	252.00	299.96	-0.91	-2.80	-0.83	1.50	1.50	0.00	
350.00	3.00	252.00	349.91	-1.62	-4.98	-1.47	1.50	1.50	0.00	
400.00	3.75	252.00	399.82	-2.53	-7.78	-2.30	1.50	1.50	0.00	
450.00	4.50	252.00	449.69	-3.64	-11.20	-3.31	1.50	1.50	0.00	
500.00	5.25	252.00	499.51	-4.95	-15.24	-4.50	1.50	1.50	0.00	
550.00	6.00	252.00	549.27	-6.47	-19.90	-5.88	1.50	1.50	0.00	
566.67	6.25	252.00	565.84	-7.02	-21.59	-6.38	1.50	1.50	0.00	
600.00	6.25	252.00	598.98	-8.14	-25.04	-7.40	0.00	0.00	0.00	
650.00	6.25	252.00	648.68	-9.82	-30.22	-8.93	0.00	0.00	0.00	
700.00	6.25	252.00	698.38	-11.50	-35.40	-10.46	0.00	0.00	0.00	
750.00	6.25	252.00	748.08	-13.18	-40.57	-11.99	0.00	0.00	0.00	
800.00	6.25	252.00	797.79	-14.87	-45.75	-13.52	0.00	0.00	0.00	

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Bringelson 1-32-9-58 Pad
Well: 1-32-9-58
Wellpath: Original Hole

Date: 09/26/2012
Co-ordinate(NE) Reference: Well: 1-32-9-58, Grid North
Vertical (TVD) Reference: 4782'GL+17"KB 4799.0
Section (VS) Reference: Well (0.00N,0.00E,358.32Azi)
Plan: Plan #1

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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
850.00	6.25	252.00	847.49	-16.55	-50.93	-15.05	0.00	0.00	0.00	
900.00	6.25	252.00	897.19	-18.23	-56.10	-16.58	0.00	0.00	0.00	
950.00	6.25	252.00	946.90	-19.91	-61.28	-18.11	0.00	0.00	0.00	
1000.00	6.25	252.00	996.60	-21.59	-66.46	-19.64	0.00	0.00	0.00	
1050.00	6.25	252.00	1046.30	-23.28	-71.64	-21.17	0.00	0.00	0.00	
1100.00	6.25	252.00	1096.00	-24.96	-76.81	-22.70	0.00	0.00	0.00	
1150.00	6.25	252.00	1145.71	-26.64	-81.99	-24.22	0.00	0.00	0.00	
1200.00	6.25	252.00	1195.41	-28.32	-87.17	-25.75	0.00	0.00	0.00	
1250.00	6.25	252.00	1245.11	-30.00	-92.34	-27.28	0.00	0.00	0.00	
1300.00	6.25	252.00	1294.82	-31.69	-97.52	-28.81	0.00	0.00	0.00	
1350.00	6.25	252.00	1344.52	-33.37	-102.70	-30.34	0.00	0.00	0.00	
1400.00	6.25	252.00	1394.22	-35.05	-107.87	-31.87	0.00	0.00	0.00	
1450.00	6.25	252.00	1443.92	-36.73	-113.05	-33.40	0.00	0.00	0.00	
1500.00	6.25	252.00	1493.63	-38.41	-118.23	-34.93	0.00	0.00	0.00	
1550.00	6.25	252.00	1543.33	-40.10	-123.40	-36.46	0.00	0.00	0.00	
1600.00	6.25	252.00	1593.03	-41.78	-128.58	-37.99	0.00	0.00	0.00	
1650.00	6.25	252.00	1642.74	-43.46	-133.76	-39.52	0.00	0.00	0.00	
1700.00	6.25	252.00	1692.44	-45.14	-138.94	-41.05	0.00	0.00	0.00	
1750.00	6.25	252.00	1742.14	-46.83	-144.11	-42.58	0.00	0.00	0.00	
1800.00	6.25	252.00	1791.84	-48.51	-149.29	-44.11	0.00	0.00	0.00	
1850.00	6.25	252.00	1841.55	-50.19	-154.47	-45.64	0.00	0.00	0.00	
1900.00	6.25	252.00	1891.25	-51.87	-159.64	-47.17	0.00	0.00	0.00	
1950.00	6.25	252.00	1940.95	-53.55	-164.82	-48.70	0.00	0.00	0.00	
2000.00	6.25	252.00	1990.65	-55.24	-170.00	-50.23	0.00	0.00	0.00	
2050.00	6.25	252.00	2040.36	-56.92	-175.17	-51.76	0.00	0.00	0.00	
2100.00	6.25	252.00	2090.06	-58.60	-180.35	-53.29	0.00	0.00	0.00	
2150.00	6.25	252.00	2139.76	-60.28	-185.53	-54.82	0.00	0.00	0.00	
2200.00	6.25	252.00	2189.47	-61.96	-190.70	-56.35	0.00	0.00	0.00	
2250.00	6.25	252.00	2239.17	-63.65	-195.88	-57.88	0.00	0.00	0.00	
2300.00	6.25	252.00	2288.87	-65.33	-201.06	-59.41	0.00	0.00	0.00	
2350.00	6.25	252.00	2338.57	-67.01	-206.24	-60.93	0.00	0.00	0.00	
2400.00	6.25	252.00	2388.28	-68.69	-211.41	-62.46	0.00	0.00	0.00	
2450.00	6.25	252.00	2437.98	-70.37	-216.59	-63.99	0.00	0.00	0.00	
2500.00	6.25	252.00	2487.68	-72.06	-221.77	-65.52	0.00	0.00	0.00	
2550.00	6.25	252.00	2537.39	-73.74	-226.94	-67.05	0.00	0.00	0.00	
2600.00	6.25	252.00	2587.09	-75.42	-232.12	-68.58	0.00	0.00	0.00	
2650.00	6.25	252.00	2636.79	-77.10	-237.30	-70.11	0.00	0.00	0.00	
2700.00	6.25	252.00	2686.49	-78.78	-242.47	-71.64	0.00	0.00	0.00	
2750.00	6.25	252.00	2736.20	-80.47	-247.65	-73.17	0.00	0.00	0.00	
2800.00	6.25	252.00	2785.90	-82.15	-252.83	-74.70	0.00	0.00	0.00	
2850.00	6.25	252.00	2835.60	-83.83	-258.00	-76.23	0.00	0.00	0.00	
2900.00	6.25	252.00	2885.31	-85.51	-263.18	-77.76	0.00	0.00	0.00	
2950.00	6.25	252.00	2935.01	-87.20	-268.36	-79.29	0.00	0.00	0.00	
3000.00	6.25	252.00	2984.71	-88.88	-273.54	-80.82	0.00	0.00	0.00	
3050.00	6.25	252.00	3034.41	-90.56	-278.71	-82.35	0.00	0.00	0.00	
3100.00	6.25	252.00	3084.12	-92.24	-283.89	-83.88	0.00	0.00	0.00	
3150.00	6.25	252.00	3133.82	-93.92	-289.07	-85.41	0.00	0.00	0.00	
3200.00	6.25	252.00	3183.52	-95.61	-294.24	-86.94	0.00	0.00	0.00	
3250.00	6.25	252.00	3233.23	-97.29	-299.42	-88.47	0.00	0.00	0.00	
3300.00	6.25	252.00	3282.93	-98.97	-304.60	-90.00	0.00	0.00	0.00	
3350.00	6.25	252.00	3332.63	-100.65	-309.77	-91.53	0.00	0.00	0.00	
3400.00	6.25	252.00	3382.33	-102.33	-314.95	-93.06	0.00	0.00	0.00	
3450.00	6.25	252.00	3432.04	-104.02	-320.13	-94.59	0.00	0.00	0.00	
3500.00	6.25	252.00	3481.74	-105.70	-325.31	-96.12	0.00	0.00	0.00	

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Bringelson 1-32-9-58 Pad
Well: 1-32-9-58
Wellpath: Original Hole

Date: 09/26/2012
Co-ordinate(NE) Reference: Well: 1-32-9-58, Grid North
Vertical (TVD) Reference: 4782'GL+17"KB 4799.0
Section (VS) Reference: Well (0.00N,0.00E,358.32Azi)
Plan: Plan #1

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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
3550.00	6.25	252.00	3531.44	-107.38	-330.48	-97.65	0.00	0.00	0.00	
3600.00	6.25	252.00	3581.15	-109.06	-335.66	-99.17	0.00	0.00	0.00	
3650.00	6.25	252.00	3630.85	-110.74	-340.84	-100.70	0.00	0.00	0.00	
3700.00	6.25	252.00	3680.55	-112.43	-346.01	-102.23	0.00	0.00	0.00	
3750.00	6.25	252.00	3730.25	-114.11	-351.19	-103.76	0.00	0.00	0.00	
3800.00	6.25	252.00	3779.96	-115.79	-356.37	-105.29	0.00	0.00	0.00	
3850.00	6.25	252.00	3829.66	-117.47	-361.54	-106.82	0.00	0.00	0.00	
3900.00	6.25	252.00	3879.36	-119.15	-366.72	-108.35	0.00	0.00	0.00	
3950.00	6.25	252.00	3929.06	-120.84	-371.90	-109.88	0.00	0.00	0.00	
4000.00	6.25	252.00	3978.77	-122.52	-377.07	-111.41	0.00	0.00	0.00	
4050.00	6.25	252.00	4028.47	-124.20	-382.25	-112.94	0.00	0.00	0.00	
4100.00	6.25	252.00	4078.17	-125.88	-387.43	-114.47	0.00	0.00	0.00	
4150.00	6.25	252.00	4127.88	-127.57	-392.61	-116.00	0.00	0.00	0.00	
4200.00	6.25	252.00	4177.58	-129.25	-397.78	-117.53	0.00	0.00	0.00	
4250.00	6.25	252.00	4227.28	-130.93	-402.96	-119.06	0.00	0.00	0.00	
4300.00	6.25	252.00	4276.98	-132.61	-408.14	-120.59	0.00	0.00	0.00	
4350.00	6.25	252.00	4326.69	-134.29	-413.31	-122.12	0.00	0.00	0.00	
4400.00	6.25	252.00	4376.39	-135.98	-418.49	-123.65	0.00	0.00	0.00	
4450.00	6.25	252.00	4426.09	-137.66	-423.67	-125.18	0.00	0.00	0.00	
4500.00	6.25	252.00	4475.80	-139.34	-428.84	-126.71	0.00	0.00	0.00	
4550.00	6.25	252.00	4525.50	-141.02	-434.02	-128.24	0.00	0.00	0.00	
4600.00	6.25	252.00	4575.20	-142.70	-439.20	-129.77	0.00	0.00	0.00	
4650.00	6.25	252.00	4624.90	-144.39	-444.37	-131.30	0.00	0.00	0.00	
4700.00	6.25	252.00	4674.61	-146.07	-449.55	-132.83	0.00	0.00	0.00	
4750.00	6.25	252.00	4724.31	-147.75	-454.73	-134.36	0.00	0.00	0.00	
4800.00	6.25	252.00	4774.01	-149.43	-459.91	-135.88	0.00	0.00	0.00	
4850.00	6.25	252.00	4823.72	-151.11	-465.08	-137.41	0.00	0.00	0.00	
4900.00	6.25	252.00	4873.42	-152.80	-470.26	-138.94	0.00	0.00	0.00	
4950.00	6.25	252.00	4923.12	-154.48	-475.44	-140.47	0.00	0.00	0.00	
5000.00	6.25	252.00	4972.82	-156.16	-480.61	-142.00	0.00	0.00	0.00	
5050.00	6.25	252.00	5022.53	-157.84	-485.79	-143.53	0.00	0.00	0.00	
5100.00	6.25	252.00	5072.23	-159.52	-490.97	-145.06	0.00	0.00	0.00	
5150.00	6.25	252.00	5121.93	-161.21	-496.14	-146.59	0.00	0.00	0.00	
5200.00	6.25	252.00	5171.64	-162.89	-501.32	-148.12	0.00	0.00	0.00	
5250.00	6.25	252.00	5221.34	-164.57	-506.50	-149.65	0.00	0.00	0.00	
5256.45	6.25	252.00	5227.75	-164.79	-507.17	-149.85	0.00	0.00	0.00	
5300.00	6.54	291.82	5271.05	-164.60	-511.72	-149.53	10.00	0.66	91.43	
5350.00	9.67	320.25	5320.56	-160.31	-517.06	-145.08	10.00	6.27	56.87	
5400.00	13.94	333.26	5369.50	-151.70	-522.45	-136.31	10.00	8.53	26.02	
5450.00	18.57	340.09	5417.50	-138.83	-527.88	-123.29	10.00	9.26	13.65	
5500.00	23.34	344.23	5464.18	-121.80	-533.29	-106.11	10.00	9.56	8.28	
5550.00	28.20	347.02	5509.19	-100.74	-538.64	-84.91	10.00	9.70	5.58	
5600.00	33.09	349.04	5552.20	-75.82	-543.89	-59.84	10.00	9.79	4.05	
5650.00	38.01	350.59	5592.87	-47.21	-549.00	-31.10	10.00	9.84	3.11	
5700.00	42.94	351.84	5630.89	-15.15	-553.94	1.10	10.00	9.87	2.49	
5750.00	47.89	352.87	5665.98	20.14	-558.66	36.51	10.00	9.89	2.07	
5800.00	52.84	353.75	5697.87	58.37	-563.14	74.86	10.00	9.91	1.77	
5850.00	57.80	354.53	5726.31	99.26	-567.33	115.85	10.00	9.92	1.55	
5900.00	62.76	355.22	5751.09	142.50	-571.20	159.18	10.00	9.93	1.39	
5950.00	67.73	355.85	5772.01	187.75	-574.73	204.52	10.00	9.93	1.27	
5972.83	70.00	356.13	5780.25	208.99	-576.21	225.80	10.00	9.94	1.20	7"
6000.00	72.70	356.45	5788.93	234.68	-577.88	251.52	10.00	9.94	1.16	
6050.00	77.67	357.01	5801.71	282.92	-580.64	299.83	10.00	9.94	1.12	

Precision Directional Services, Inc.

Planning Report

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Field: Niobrara CONZ'83
Site: Bringelson 1-32-9-58 Pad
Well: 1-32-9-58
Wellpath: Original Hole

Date: 09/26/2012
Co-ordinate(NE) Reference: Well: 1-32-9-58, Grid North
Vertical (TVD) Reference: 4782'GL+17"KB 4799.0
Section (VS) Reference: Well (0.00N,0.00E,358.32Azi)
Plan: Plan #1

Page: 4

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
6100.00	82.64	357.54	5810.26	332.12	-582.98	349.07	10.00	9.94	1.08	
6150.00	87.61	358.07	5814.50	381.88	-584.88	398.87	10.00	9.94	1.05	
6173.98	90.00	358.32	5815.00	405.85	-585.64	422.84	10.00	9.95	1.05	
6200.00	90.00	358.32	5815.00	431.85	-586.40	448.86	0.00	0.00	0.00	
6250.00	90.00	358.32	5815.00	481.83	-587.86	498.86	0.00	0.00	0.00	
6300.00	90.00	358.32	5815.00	531.81	-589.33	548.86	0.00	0.00	0.00	
6350.00	90.00	358.32	5815.00	581.79	-590.79	598.86	0.00	0.00	0.00	
6400.00	90.00	358.32	5815.00	631.77	-592.26	648.86	0.00	0.00	0.00	
6450.00	90.00	358.32	5815.00	681.75	-593.72	698.86	0.00	0.00	0.00	
6500.00	90.00	358.32	5815.00	731.73	-595.19	748.86	0.00	0.00	0.00	
6550.00	90.00	358.32	5815.00	781.70	-596.65	798.86	0.00	0.00	0.00	
6600.00	90.00	358.32	5815.00	831.68	-598.12	848.86	0.00	0.00	0.00	
6650.00	90.00	358.32	5815.00	881.66	-599.58	898.86	0.00	0.00	0.00	
6700.00	90.00	358.32	5815.00	931.64	-601.05	948.86	0.00	0.00	0.00	
6750.00	90.00	358.32	5815.00	981.62	-602.51	998.86	0.00	0.00	0.00	
6800.00	90.00	358.32	5815.00	1031.60	-603.97	1048.86	0.00	0.00	0.00	
6850.00	90.00	358.32	5815.00	1081.58	-605.44	1098.86	0.00	0.00	0.00	
6900.00	90.00	358.32	5815.00	1131.55	-606.90	1148.86	0.00	0.00	0.00	
6950.00	90.00	358.32	5815.00	1181.53	-608.37	1198.86	0.00	0.00	0.00	
7000.00	90.00	358.32	5815.00	1231.51	-609.83	1248.86	0.00	0.00	0.00	
7050.00	90.00	358.32	5815.00	1281.49	-611.30	1298.86	0.00	0.00	0.00	
7100.00	90.00	358.32	5815.00	1331.47	-612.76	1348.86	0.00	0.00	0.00	
7150.00	90.00	358.32	5815.00	1381.45	-614.23	1398.86	0.00	0.00	0.00	
7200.00	90.00	358.32	5815.00	1431.43	-615.69	1448.86	0.00	0.00	0.00	
7250.00	90.00	358.32	5815.00	1481.40	-617.16	1498.86	0.00	0.00	0.00	
7300.00	90.00	358.32	5815.00	1531.38	-618.62	1548.86	0.00	0.00	0.00	
7350.00	90.00	358.32	5815.00	1581.36	-620.08	1598.86	0.00	0.00	0.00	
7400.00	90.00	358.32	5815.00	1631.34	-621.55	1648.86	0.00	0.00	0.00	
7450.00	90.00	358.32	5815.00	1681.32	-623.01	1698.86	0.00	0.00	0.00	
7500.00	90.00	358.32	5815.00	1731.30	-624.48	1748.86	0.00	0.00	0.00	
7550.00	90.00	358.32	5815.00	1781.27	-625.94	1798.86	0.00	0.00	0.00	
7600.00	90.00	358.32	5815.00	1831.25	-627.41	1848.86	0.00	0.00	0.00	
7650.00	90.00	358.32	5815.00	1881.23	-628.87	1898.86	0.00	0.00	0.00	
7700.00	90.00	358.32	5815.00	1931.21	-630.34	1948.86	0.00	0.00	0.00	
7750.00	90.00	358.32	5815.00	1981.19	-631.80	1998.86	0.00	0.00	0.00	
7800.00	90.00	358.32	5815.00	2031.17	-633.27	2048.86	0.00	0.00	0.00	
7850.00	90.00	358.32	5815.00	2081.15	-634.73	2098.86	0.00	0.00	0.00	
7900.00	90.00	358.32	5815.00	2131.12	-636.20	2148.86	0.00	0.00	0.00	
7950.00	90.00	358.32	5815.00	2181.10	-637.66	2198.86	0.00	0.00	0.00	
8000.00	90.00	358.32	5815.00	2231.08	-639.12	2248.86	0.00	0.00	0.00	
8050.00	90.00	358.32	5815.00	2281.06	-640.59	2298.86	0.00	0.00	0.00	
8100.00	90.00	358.32	5815.00	2331.04	-642.05	2348.86	0.00	0.00	0.00	
8150.00	90.00	358.32	5815.00	2381.02	-643.52	2398.86	0.00	0.00	0.00	
8200.00	90.00	358.32	5815.00	2431.00	-644.98	2448.86	0.00	0.00	0.00	
8250.00	90.00	358.32	5815.00	2480.97	-646.45	2498.86	0.00	0.00	0.00	
8300.00	90.00	358.32	5815.00	2530.95	-647.91	2548.86	0.00	0.00	0.00	
8350.00	90.00	358.32	5815.00	2580.93	-649.38	2598.86	0.00	0.00	0.00	
8400.00	90.00	358.32	5815.00	2630.91	-650.84	2648.86	0.00	0.00	0.00	
8450.00	90.00	358.32	5815.00	2680.89	-652.31	2698.86	0.00	0.00	0.00	
8500.00	90.00	358.32	5815.00	2730.87	-653.77	2748.86	0.00	0.00	0.00	
8550.00	90.00	358.32	5815.00	2780.85	-655.24	2798.86	0.00	0.00	0.00	
8600.00	90.00	358.32	5815.00	2830.82	-656.70	2848.86	0.00	0.00	0.00	
8650.00	90.00	358.32	5815.00	2880.80	-658.16	2898.86	0.00	0.00	0.00	

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Bringelson 1-32-9-58 Pad
Well: 1-32-9-58
Wellpath: Original Hole

Date: 09/26/2012
Co-ordinate(NE) Reference: Well: 1-32-9-58, Grid North
Vertical (TVD) Reference: 4782'GL+17"KB 4799.0
Section (VS) Reference: Well (0.00N,0.00E,358.32Azi)
Plan: Plan #1

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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
8700.00	90.00	358.32	5815.00	2930.78	-659.63	2948.86	0.00	0.00	0.00	
8750.00	90.00	358.32	5815.00	2980.76	-661.09	2998.86	0.00	0.00	0.00	
8800.00	90.00	358.32	5815.00	3030.74	-662.56	3048.86	0.00	0.00	0.00	
8850.00	90.00	358.32	5815.00	3080.72	-664.02	3098.86	0.00	0.00	0.00	
8900.00	90.00	358.32	5815.00	3130.70	-665.49	3148.86	0.00	0.00	0.00	
8950.00	90.00	358.32	5815.00	3180.67	-666.95	3198.86	0.00	0.00	0.00	
9000.00	90.00	358.32	5815.00	3230.65	-668.42	3248.86	0.00	0.00	0.00	
9050.00	90.00	358.32	5815.00	3280.63	-669.88	3298.86	0.00	0.00	0.00	
9100.00	90.00	358.32	5815.00	3330.61	-671.35	3348.86	0.00	0.00	0.00	
9150.00	90.00	358.32	5815.00	3380.59	-672.81	3398.86	0.00	0.00	0.00	
9200.00	90.00	358.32	5815.00	3430.57	-674.28	3448.86	0.00	0.00	0.00	
9250.00	90.00	358.32	5815.00	3480.55	-675.74	3498.86	0.00	0.00	0.00	
9300.00	90.00	358.32	5815.00	3530.52	-677.20	3548.86	0.00	0.00	0.00	
9350.00	90.00	358.32	5815.00	3580.50	-678.67	3598.86	0.00	0.00	0.00	
9400.00	90.00	358.32	5815.00	3630.48	-680.13	3648.86	0.00	0.00	0.00	
9450.00	90.00	358.32	5815.00	3680.46	-681.60	3698.86	0.00	0.00	0.00	
9500.00	90.00	358.32	5815.00	3730.44	-683.06	3748.86	0.00	0.00	0.00	
9550.00	90.00	358.32	5815.00	3780.42	-684.53	3798.86	0.00	0.00	0.00	
9600.00	90.00	358.32	5815.00	3830.40	-685.99	3848.86	0.00	0.00	0.00	
9650.00	90.00	358.32	5815.00	3880.37	-687.46	3898.86	0.00	0.00	0.00	
9700.00	90.00	358.32	5815.00	3930.35	-688.92	3948.86	0.00	0.00	0.00	
9750.00	90.00	358.32	5815.00	3980.33	-690.39	3998.86	0.00	0.00	0.00	
9800.00	90.00	358.32	5815.00	4030.31	-691.85	4048.86	0.00	0.00	0.00	
9850.00	90.00	358.32	5815.00	4080.29	-693.31	4098.86	0.00	0.00	0.00	
9900.00	90.00	358.32	5815.00	4130.27	-694.78	4148.86	0.00	0.00	0.00	
9950.00	90.00	358.32	5815.00	4180.25	-696.24	4198.86	0.00	0.00	0.00	
10000.00	90.00	358.32	5815.00	4230.22	-697.71	4248.86	0.00	0.00	0.00	
10050.00	90.00	358.32	5815.00	4280.20	-699.17	4298.86	0.00	0.00	0.00	
10100.00	90.00	358.32	5815.00	4330.18	-700.64	4348.86	0.00	0.00	0.00	
10150.00	90.00	358.32	5815.00	4380.16	-702.10	4398.86	0.00	0.00	0.00	
10169.03	90.00	358.32	5815.00	4399.18	-702.66	4417.89	0.00	0.00	0.00	PBHL 1-32

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
SL 1-32			0.00	0.00	0.00	1502242.15	3448322.07	40	42	2.945 N	103	52	58.966 W
PBHL 1-32			5815.00	4399.18	-702.66	1506641.33	3447619.41	40	42	46.534 N	103	53	7.048 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
5972.83	5780.25	7.000	8.500	7"