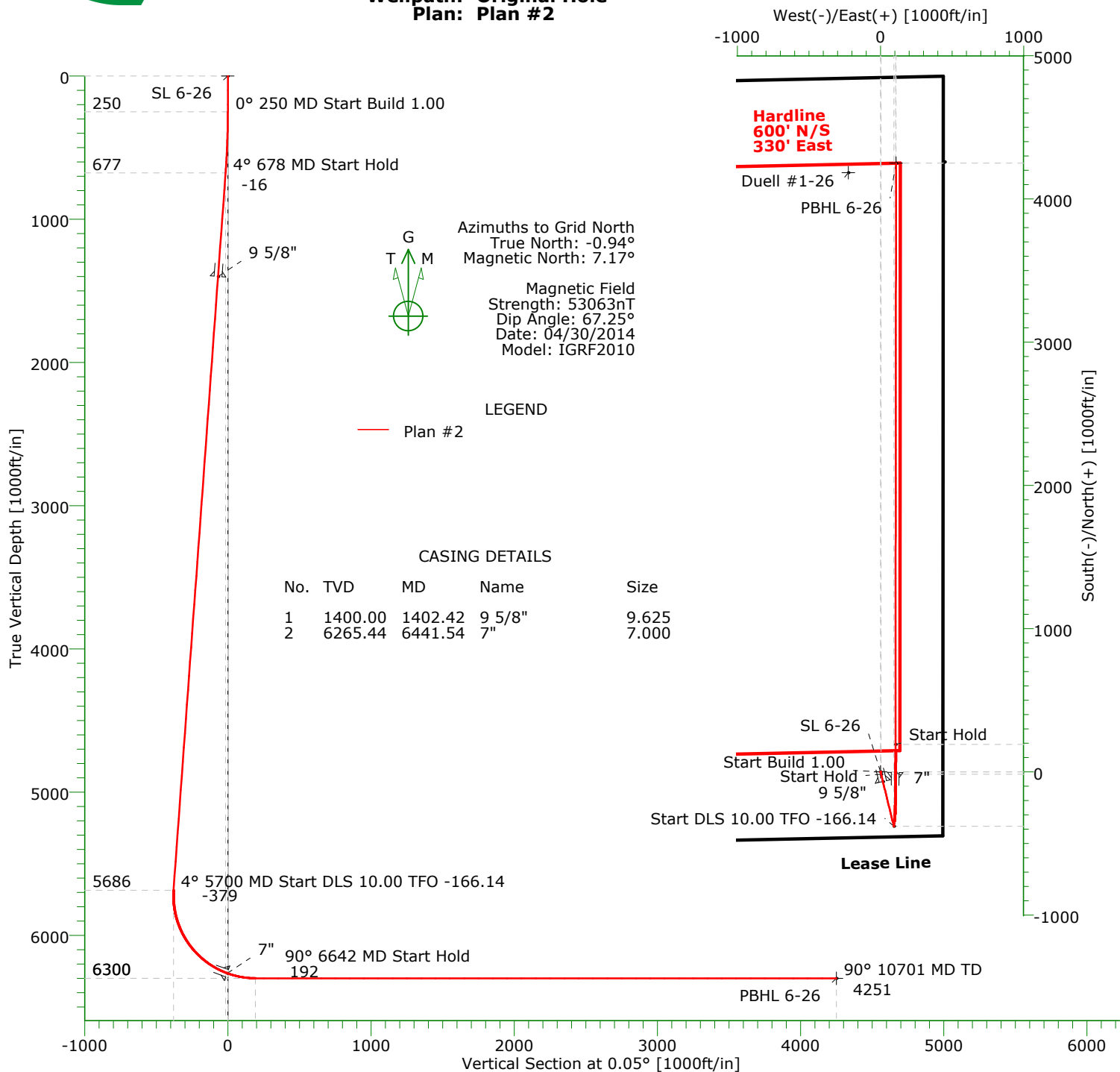




CARRIZO OIL & GAS, INC.
 Field: Niobrara CONZ'83
 Site: Hemberger 4-26-8-60 Pad
 Well: 6-26-8-60
 Wellpath: Original Hole
 Plan: Plan #2



Precision
 Directional Services



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Duell #1-26	-0.10	4183.83	-224.61	1478870.05	3401968.73	40°38'19.948N104°03'05.671W		Point
SL 6-26	0.00	0.00	0.00	1474686.22	3402193.34	40°37'38.575N104°03'03.645W		Point
PBHL 6-26	6300.00	4251.01	108.23	1478937.23	3402301.57	40°38'20.558N104°03'01.340W		Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	166.23	0.00	0.00	0.00	0.00	0.00	0.00	
2	250.00	0.00	166.23	250.00	0.00	0.00	0.00	166.23	0.00	
3	677.89	4.28	166.23	677.49	-15.51	3.80	1.00	0.00	-15.51	
4	5700.03	4.28	166.23	5685.63	-379.44	93.02	0.00	0.00	-379.36	
5	6641.57	90.00	0.05	6300.00	192.00	104.53	10.00	-166.14	192.09	
6	10700.58	90.00	0.05	6300.00	4251.01	108.23	0.00	0.00	4251.10	PBHL 6-26

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.		Date: 04/03/2014	Time: 14:51:54	Page: 1
Field: Niobrara CONZ'83		Co-ordinate(NE) Reference: Well: 6-26-8-60, Grid North		
Site: Hemberger 4-26-8-60 Pad		Vertical (TVD) Reference: 4877' GL+17'KB 4894.0		
Well: 6-26-8-60		Section (VS) Reference: Well (0.00N,0.00E,0.05Azi)		
Wellpath: Original Hole		Plan: Plan #2		

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: Hemberger 4-26-8-60 Pad Sec 26, T8N, R60W Weld County, CO	
Site Position:	Northing: 1474665.47 ft
From: Map	Easting: 3402171.67 ft
Position Uncertainty: 0.00 ft	Latitude: 40 37 38.374 N
Ground Level: 4877.00 ft	Longitude: 104 3 3.930 W
	North Reference: Grid
	Grid Convergence: 0.94 deg

Well: 6-26-8-60 centerd on 4-26		Slot Name: 6-26	
Well Position: +N/-S 20.75 ft	Northing: 1474686.22 ft	Latitude: 40 37 38.575 N	
+E/-W 21.67 ft	Easting : 3402193.34 ft	Longitude: 104 3 3.645 W	
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: 4877' GL+17'KB	Height 4894.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 04/30/2014		Above System Datum: Mean Sea Level	
Field Strength: 53063 nT		Declination: 8.11 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 67.25 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	0.05

Plan: Plan #2	Date Composed: 04/03/2014
Principal: No	Version: 1
	Tied-to: From Surface

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	166.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	166.23	250.00	0.00	0.00	0.00	0.00	0.00	166.23	
677.89	4.28	166.23	677.49	-15.51	3.80	1.00	1.00	0.00	0.00	
5700.03	4.28	166.23	5685.63	-379.44	93.02	0.00	0.00	0.00	0.00	
6641.57	90.00	0.05	6300.00	192.00	104.53	10.00	9.10	-17.65	-166.14	
10700.58	90.00	0.05	6300.00	4251.01	108.23	0.00	0.00	0.00	0.00	PBHL 6-26

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	166.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	166.23	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	166.23	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
250.00	0.00	166.23	250.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.50	166.23	300.00	-0.21	0.05	-0.21	1.00	1.00	0.00	
400.00	1.50	166.23	399.98	-1.91	0.47	-1.91	1.00	1.00	0.00	
500.00	2.50	166.23	499.92	-5.30	1.30	-5.30	1.00	1.00	0.00	
600.00	3.50	166.23	599.78	-10.38	2.54	-10.38	1.00	1.00	0.00	
677.89	4.28	166.23	677.49	-15.51	3.80	-15.51	1.00	1.00	0.00	
700.00	4.28	166.23	699.54	-17.11	4.20	-17.11	0.00	0.00	0.00	
800.00	4.28	166.23	799.26	-24.36	5.97	-24.35	0.00	0.00	0.00	
900.00	4.28	166.23	898.98	-31.61	7.75	-31.60	0.00	0.00	0.00	
1000.00	4.28	166.23	998.70	-38.85	9.53	-38.84	0.00	0.00	0.00	
1100.00	4.28	166.23	1098.43	-46.10	11.30	-46.09	0.00	0.00	0.00	
1200.00	4.28	166.23	1198.15	-53.35	13.08	-53.33	0.00	0.00	0.00	

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Hemberger 4-26-8-60 Pad
Well: 6-26-8-60
Wellpath: Original Hole

Date: 04/03/2014
Co-ordinate(NE) Reference: Well: 6-26-8-60, Grid North
Vertical (TVD) Reference: 4877' GL+17"KB 4894.0
Section (VS) Reference: Well (0.00N,0.00E,0.05Azi)
Plan: Plan #2

Page: 2

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
1300.00	4.28	166.23	1297.87	-60.59	14.85	-60.58	0.00	0.00	0.00	9 5/8"
1400.00	4.28	166.23	1397.59	-67.84	16.63	-67.82	0.00	0.00	0.00	
1402.42	4.28	166.23	1400.00	-68.01	16.67	-68.00	0.00	0.00	0.00	
1500.00	4.28	166.23	1497.31	-75.09	18.41	-75.07	0.00	0.00	0.00	
1600.00	4.28	166.23	1597.03	-82.33	20.18	-82.31	0.00	0.00	0.00	
1700.00	4.28	166.23	1696.75	-89.58	21.96	-89.56	0.00	0.00	0.00	
1800.00	4.28	166.23	1796.47	-96.82	23.74	-96.80	0.00	0.00	0.00	
1900.00	4.28	166.23	1896.20	-104.07	25.51	-104.05	0.00	0.00	0.00	
2000.00	4.28	166.23	1995.92	-111.32	27.29	-111.29	0.00	0.00	0.00	
2100.00	4.28	166.23	2095.64	-118.56	29.07	-118.54	0.00	0.00	0.00	
2200.00	4.28	166.23	2195.36	-125.81	30.84	-125.78	0.00	0.00	0.00	
2300.00	4.28	166.23	2295.08	-133.06	32.62	-133.03	0.00	0.00	0.00	
2400.00	4.28	166.23	2394.80	-140.30	34.40	-140.27	0.00	0.00	0.00	
2500.00	4.28	166.23	2494.52	-147.55	36.17	-147.52	0.00	0.00	0.00	
2600.00	4.28	166.23	2594.24	-154.80	37.95	-154.76	0.00	0.00	0.00	
2700.00	4.28	166.23	2693.97	-162.04	39.73	-162.01	0.00	0.00	0.00	
2800.00	4.28	166.23	2793.69	-169.29	41.50	-169.25	0.00	0.00	0.00	
2900.00	4.28	166.23	2893.41	-176.54	43.28	-176.50	0.00	0.00	0.00	
3000.00	4.28	166.23	2993.13	-183.78	45.06	-183.74	0.00	0.00	0.00	
3100.00	4.28	166.23	3092.85	-191.03	46.83	-190.99	0.00	0.00	0.00	
3200.00	4.28	166.23	3192.57	-198.28	48.61	-198.23	0.00	0.00	0.00	
3300.00	4.28	166.23	3292.29	-205.52	50.39	-205.48	0.00	0.00	0.00	
3400.00	4.28	166.23	3392.02	-212.77	52.16	-212.72	0.00	0.00	0.00	
3500.00	4.28	166.23	3491.74	-220.02	53.94	-219.97	0.00	0.00	0.00	
3600.00	4.28	166.23	3591.46	-227.26	55.72	-227.21	0.00	0.00	0.00	
3700.00	4.28	166.23	3691.18	-234.51	57.49	-234.46	0.00	0.00	0.00	
3800.00	4.28	166.23	3790.90	-241.76	59.27	-241.70	0.00	0.00	0.00	
3900.00	4.28	166.23	3890.62	-249.00	61.04	-248.95	0.00	0.00	0.00	
4000.00	4.28	166.23	3990.34	-256.25	62.82	-256.19	0.00	0.00	0.00	
4100.00	4.28	166.23	4090.06	-263.50	64.60	-263.44	0.00	0.00	0.00	
4200.00	4.28	166.23	4189.79	-270.74	66.37	-270.68	0.00	0.00	0.00	
4300.00	4.28	166.23	4289.51	-277.99	68.15	-277.93	0.00	0.00	0.00	
4400.00	4.28	166.23	4389.23	-285.23	69.93	-285.17	0.00	0.00	0.00	
4500.00	4.28	166.23	4488.95	-292.48	71.70	-292.42	0.00	0.00	0.00	
4600.00	4.28	166.23	4588.67	-299.73	73.48	-299.66	0.00	0.00	0.00	
4700.00	4.28	166.23	4688.39	-306.97	75.26	-306.91	0.00	0.00	0.00	
4800.00	4.28	166.23	4788.11	-314.22	77.03	-314.15	0.00	0.00	0.00	
4900.00	4.28	166.23	4887.83	-321.47	78.81	-321.40	0.00	0.00	0.00	
5000.00	4.28	166.23	4987.56	-328.71	80.59	-328.64	0.00	0.00	0.00	
5100.00	4.28	166.23	5087.28	-335.96	82.36	-335.89	0.00	0.00	0.00	
5200.00	4.28	166.23	5187.00	-343.21	84.14	-343.13	0.00	0.00	0.00	
5300.00	4.28	166.23	5286.72	-350.45	85.92	-350.38	0.00	0.00	0.00	
5400.00	4.28	166.23	5386.44	-357.70	87.69	-357.62	0.00	0.00	0.00	
5500.00	4.28	166.23	5486.16	-364.95	89.47	-364.87	0.00	0.00	0.00	
5600.00	4.28	166.23	5585.88	-372.19	91.25	-372.11	0.00	0.00	0.00	
5700.03	4.28	166.23	5685.63	-379.44	93.02	-379.36	0.00	0.00	0.00	
5750.00	1.33	50.61	5735.56	-380.89	93.91	-380.80	10.00	-5.91	-231.36	
5800.00	5.93	9.96	5785.45	-377.97	94.81	-377.89	10.00	9.21	-81.29	
5850.00	10.89	5.39	5834.90	-370.72	95.70	-370.64	10.00	9.92	-9.16	
5900.00	15.87	3.66	5883.52	-359.19	96.58	-359.10	10.00	9.97	-3.46	
5950.00	20.87	2.74	5930.96	-343.46	97.44	-343.37	10.00	9.98	-1.83	
6000.00	25.86	2.17	5976.85	-323.65	98.28	-323.57	10.00	9.99	-1.15	
6050.00	30.86	1.77	6020.83	-299.92	99.09	-299.84	10.00	9.99	-0.80	
6100.00	35.86	1.47	6062.58	-272.45	99.86	-272.36	10.00	9.99	-0.59	

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Hemberger 4-26-8-60 Pad
Well: 6-26-8-60
Wellpath: Original Hole

Date: 04/03/2014
Co-ordinate(NE) Reference: Well: 6-26-8-60, Grid North
Vertical (TVD) Reference: 4877' GL+17'KB 4894.0
Section (VS) Reference: Well (0.00N,0.00E,0.05Azi)
Plan: Plan #2

Page: 3

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
6150.00	40.85	1.24	6101.78	-241.44	100.59	-241.36	10.00	10.00	-0.47	
6200.00	45.85	1.05	6138.13	-207.14	101.27	-207.05	10.00	10.00	-0.38	
6250.00	50.85	0.89	6171.34	-169.79	101.90	-169.70	10.00	10.00	-0.32	
6300.00	55.85	0.75	6201.18	-129.69	102.47	-129.61	10.00	10.00	-0.28	
6350.00	60.85	0.62	6227.41	-87.15	102.98	-87.06	10.00	10.00	-0.25	
6400.00	65.85	0.51	6249.83	-42.48	103.42	-42.39	10.00	10.00	-0.22	
6441.54	70.00	0.43	6265.44	-3.99	103.73	-3.90	10.00	10.00	-0.21	7"
6450.00	70.85	0.41	6268.28	3.98	103.79	4.07	10.00	10.00	-0.20	
6500.00	75.85	0.31	6282.60	51.86	104.09	51.95	10.00	10.00	-0.19	
6550.00	80.84	0.22	6292.70	100.82	104.32	100.91	10.00	10.00	-0.19	
6600.00	85.84	0.13	6298.49	150.46	104.47	150.55	10.00	10.00	-0.18	
6641.57	90.00	0.05	6300.00	192.00	104.53	192.09	10.00	10.00	-0.18	
6700.00	90.00	0.05	6300.00	250.43	104.58	250.52	0.00	0.00	0.00	
6800.00	90.00	0.05	6300.00	350.43	104.67	350.52	0.00	0.00	0.00	
6900.00	90.00	0.05	6300.00	450.43	104.77	450.52	0.00	0.00	0.00	
7000.00	90.00	0.05	6300.00	550.43	104.86	550.52	0.00	0.00	0.00	
7100.00	90.00	0.05	6300.00	650.43	104.95	650.52	0.00	0.00	0.00	
7200.00	90.00	0.05	6300.00	750.43	105.04	750.52	0.00	0.00	0.00	
7300.00	90.00	0.05	6300.00	850.43	105.13	850.52	0.00	0.00	0.00	
7400.00	90.00	0.05	6300.00	950.43	105.22	950.52	0.00	0.00	0.00	
7500.00	90.00	0.05	6300.00	1050.43	105.31	1050.52	0.00	0.00	0.00	
7600.00	90.00	0.05	6300.00	1150.43	105.40	1150.52	0.00	0.00	0.00	
7700.00	90.00	0.05	6300.00	1250.43	105.49	1250.52	0.00	0.00	0.00	
7800.00	90.00	0.05	6300.00	1350.43	105.59	1350.52	0.00	0.00	0.00	
7900.00	90.00	0.05	6300.00	1450.43	105.68	1450.52	0.00	0.00	0.00	
8000.00	90.00	0.05	6300.00	1550.43	105.77	1550.52	0.00	0.00	0.00	
8100.00	90.00	0.05	6300.00	1650.43	105.86	1650.52	0.00	0.00	0.00	
8200.00	90.00	0.05	6300.00	1750.43	105.95	1750.52	0.00	0.00	0.00	
8300.00	90.00	0.05	6300.00	1850.43	106.04	1850.52	0.00	0.00	0.00	
8400.00	90.00	0.05	6300.00	1950.43	106.13	1950.52	0.00	0.00	0.00	
8500.00	90.00	0.05	6300.00	2050.43	106.22	2050.52	0.00	0.00	0.00	
8600.00	90.00	0.05	6300.00	2150.43	106.32	2150.52	0.00	0.00	0.00	
8700.00	90.00	0.05	6300.00	2250.43	106.41	2250.52	0.00	0.00	0.00	
8800.00	90.00	0.05	6300.00	2350.43	106.50	2350.52	0.00	0.00	0.00	
8900.00	90.00	0.05	6300.00	2450.43	106.59	2450.52	0.00	0.00	0.00	
9000.00	90.00	0.05	6300.00	2550.43	106.68	2550.52	0.00	0.00	0.00	
9100.00	90.00	0.05	6300.00	2650.43	106.77	2650.52	0.00	0.00	0.00	
9200.00	90.00	0.05	6300.00	2750.43	106.86	2750.52	0.00	0.00	0.00	
9300.00	90.00	0.05	6300.00	2850.43	106.95	2850.52	0.00	0.00	0.00	
9400.00	90.00	0.05	6300.00	2950.43	107.04	2950.52	0.00	0.00	0.00	
9500.00	90.00	0.05	6300.00	3050.43	107.14	3050.52	0.00	0.00	0.00	
9600.00	90.00	0.05	6300.00	3150.43	107.23	3150.52	0.00	0.00	0.00	
9700.00	90.00	0.05	6300.00	3250.43	107.32	3250.52	0.00	0.00	0.00	
9800.00	90.00	0.05	6300.00	3350.43	107.41	3350.52	0.00	0.00	0.00	
9900.00	90.00	0.05	6300.00	3450.43	107.50	3450.52	0.00	0.00	0.00	
10000.00	90.00	0.05	6300.00	3550.43	107.59	3550.52	0.00	0.00	0.00	
10100.00	90.00	0.05	6300.00	3650.43	107.68	3650.52	0.00	0.00	0.00	
10200.00	90.00	0.05	6300.00	3750.43	107.77	3750.52	0.00	0.00	0.00	
10300.00	90.00	0.05	6300.00	3850.43	107.86	3850.52	0.00	0.00	0.00	
10400.00	90.00	0.05	6300.00	3950.43	107.96	3950.52	0.00	0.00	0.00	
10500.00	90.00	0.05	6300.00	4050.43	108.05	4050.52	0.00	0.00	0.00	
10600.00	90.00	0.05	6300.00	4150.43	108.14	4150.52	0.00	0.00	0.00	
10700.58	90.00	0.05	6300.00	4251.01	108.23	4251.10	0.00	0.00	0.00	PBHL 6-26

Precision Directional Services, Inc.

Planning Report

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Hemberger 4-26-8-60 Pad
Well: 6-26-8-60
Wellpath: Original Hole

Date: 04/03/2014
Co-ordinate(NE) Reference: Well: 6-26-8-60, Grid North
Vertical (TVD) Reference: 4877' GL+17'KB 4894.0
Section (VS) Reference: Well (0.00N,0.00E,0.05Azi)
Plan: Plan #2

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Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<--- Longitude --->		
								Deg	Min	Sec	Deg	Min	Sec
Duell #1-26			-0.10	4183.83	-224.61	1478870.05	3401968.73	40	38	19.948 N	104	3	5.671 W
SL 6-26			0.00	0.00	0.00	1474686.22	3402193.34	40	37	38.575 N	104	3	3.645 W
PBHL 6-26			6300.00	4251.01	108.23	1478937.23	3402301.57	40	38	20.558 N	104	3	1.340 W

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1402.42	1400.00	9.625	12.250	9 5/8"
6441.54	6265.44	7.000	8.500	7"