



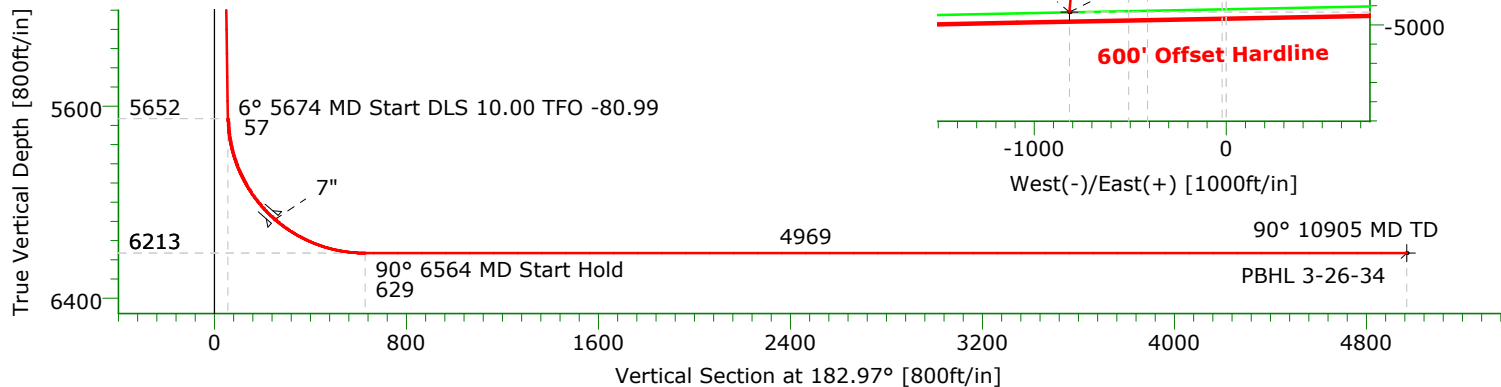
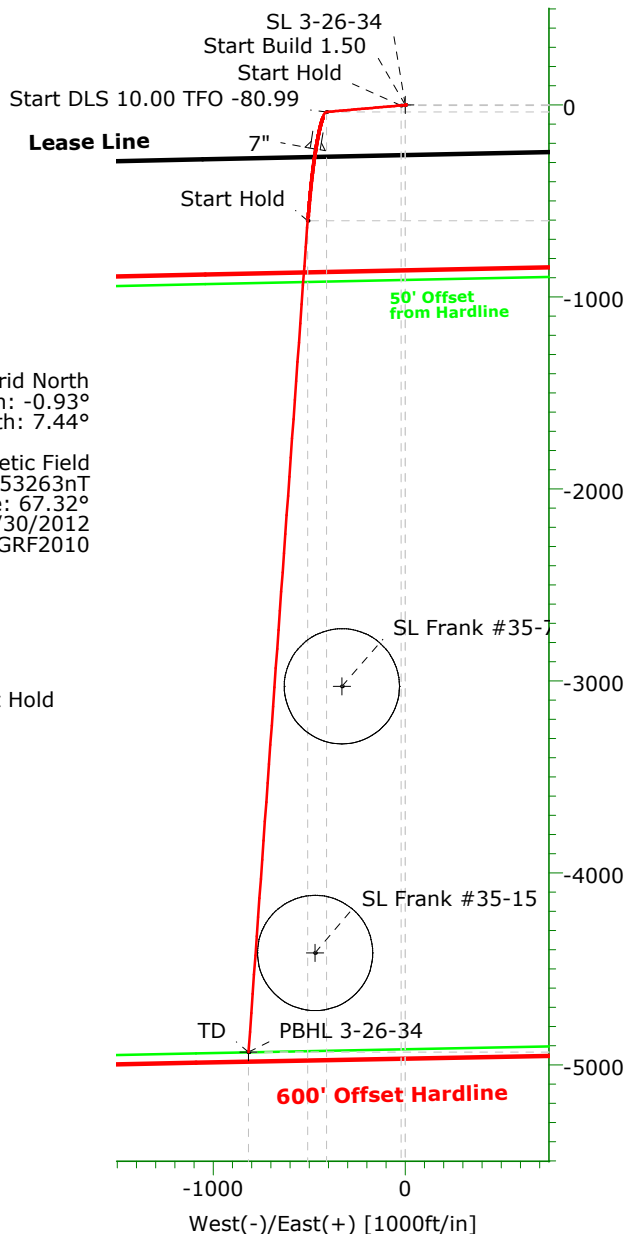
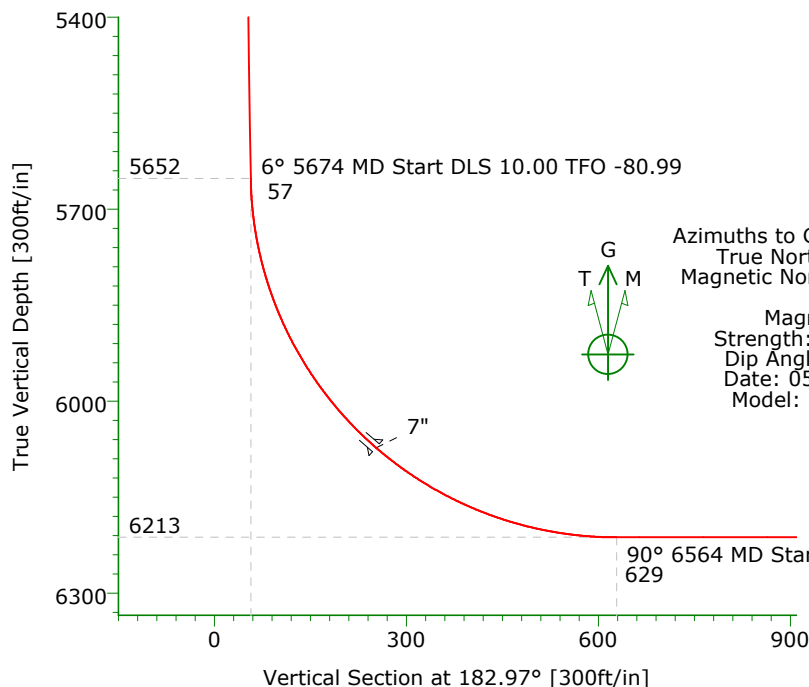
CARRIZO OIL & GAS, INC.

Field: Niobrara CONZ'83
Site: Hemberger Pad
Well: 3-26-34-8-60
Wellpath: Original Hole
Plan: Plan #1



CASING DETAILS

No.	TVD	MD	Name	Size
1	6073.00	6153.92	7"	7.000



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL Frank #35-7	0.00	-3027.24	-329.31	1471441.43	3400712.37	40°37'06.755N104°03'23.535W		Circle (Radius: 300)
SL 3-26-34	0.00	0.00	0.00	1474468.67	3401041.68	40°37'36.612N104°03'18.625W		Point
SL Frank #35-15	0.00	-4416.20	-468.45	1470052.47	3400573.23	40°36'53.054N104°03'25.632W		Circle (Radius: 300)
PBHL 3-26-34	6213.00	-4933.02	-815.49	1469535.65	3400226.19	40°36'48.004N104°03'30.240W		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	1540.00	0.00	0.00	1540.00	0.00	0.00	0.00	0.00	0.00	
3	1940.00	6.00	265.00	1939.27	-1.82	-20.85	1.50	265.00	2.90	
4	5673.66	6.00	265.00	5652.48	-35.84	-409.63	0.00	0.00	57.01	
5	6564.23	90.00	184.06	6213.00	-603.16	-508.22	10.00	-80.99	628.68	
6	10904.98	90.00	184.06	6213.00	-4933.02	-815.49	0.00	0.00	4968.65	PBHL 3-26-34

Plan: Plan #1 (3-26-34-8-60/Original Hole)

Created By: Shane Nelson

Date: 05/17/2012

PRECISION DIRECTIONAL SERVICES, INC.

713.435.6250

Company: CARRIZO OIL & GAS, INC. Field: Niobrara CONZ'83 Site: Hemberger Pad Well: 3-26-34-8-60 Wellpath: Original Hole	Date: 05/17/2012 Co-ordinate(NE) Reference: Well: 3-26-34-8-60, Grid North Vertical (TVD) Reference: 4874'GL+17"KB 4891.0 Section (VS) Reference: Well (0.00N,0.00E,182.97Azi) Plan: Plan #1
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Field: Niobrara CONZ'83
Weld County, CO

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

Site: Hemberger Pad

Weld County, CO

Site Position:	Northing: 1474476.56 ft	Latitude: 40 37 36.689 N
From: Map	Easting: 3401047.83 ft	Longitude: 104 3 18.544 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 4874.00 ft		Grid Convergence: 0.93 deg

Well: 3-26-34-8-60 Centered on 1-26-34-8-60 Well Position: +N/-S -7.89 ft +E/-W -6.15 ft Position Uncertainty: 0.00 ft	Slot Name: 3-26-3 Latitude: 40 37 36.612 N Longitude: 104 3 18.625 W
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Wellpath: Original Hole Current Datum: 4874'GL+17"KB Magnetic Data: 05/30/2012 Field Strength: 53263 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: 8.37 deg Mag Dip Angle: 67.32 deg +E/-W ft Direction deg
0.00	0.00	0.00 182.97

Plan: Plan #1 Principal: No	Date Composed: 05/17/2012 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	
1540.00	0.00	0.00	1540.00	0.00	0.00	0.00	0.00	0.00	0.00	
1940.00	6.00	265.00	1939.27	-1.82	-20.85	1.50	1.50	0.00	265.00	
5673.66	6.00	265.00	5652.48	-35.84	-409.63	0.00	0.00	0.00	0.00	
6564.23	90.00	184.06	6213.00	-603.16	-508.22	10.00	9.43	-9.09	-80.99	
10904.98	90.00	184.06	6213.00	-4933.02	-815.49	0.00	0.00	0.00	0.00	PBHL 3-26-34

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
1540.00	0.00	0.00	1540.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.90	265.00	1600.00	-0.04	-0.47	0.07	1.50	1.50	0.00	
1700.00	2.40	265.00	1699.95	-0.29	-3.34	0.46	1.50	1.50	0.00	
1800.00	3.90	265.00	1799.80	-0.77	-8.81	1.23	1.50	1.50	0.00	
1900.00	5.40	265.00	1899.47	-1.48	-16.89	2.35	1.50	1.50	0.00	
1940.00	6.00	265.00	1939.27	-1.82	-20.85	2.90	1.50	1.50	0.00	
2000.00	6.00	265.00	1998.94	-2.37	-27.09	3.77	0.00	0.00	0.00	
2100.00	6.00	265.00	2098.39	-3.28	-37.51	5.22	0.00	0.00	0.00	
2200.00	6.00	265.00	2197.85	-4.19	-47.92	6.67	0.00	0.00	0.00	
2300.00	6.00	265.00	2297.30	-5.10	-58.33	8.12	0.00	0.00	0.00	
2400.00	6.00	265.00	2396.75	-6.01	-68.75	9.57	0.00	0.00	0.00	
2500.00	6.00	265.00	2496.20	-6.93	-79.16	11.02	0.00	0.00	0.00	
2600.00	6.00	265.00	2595.65	-7.84	-89.57	12.47	0.00	0.00	0.00	
2700.00	6.00	265.00	2695.11	-8.75	-99.98	13.92	0.00	0.00	0.00	
2800.00	6.00	265.00	2794.56	-9.66	-110.40	15.37	0.00	0.00	0.00	

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Hemberger Pad
Well: 3-26-34-8-60
Wellpath: Original Hole

Date: 05/17/2012
Co-ordinate(NE) Reference: Well: 3-26-34-8-60, Grid North
Vertical (TVD) Reference: 4874'GL+17'KB 4891.0
Section (VS) Reference: Well (0.00N,0.00E,182.97Azi)
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
2900.00	6.00	265.00	2894.01	-10.57	-120.81	16.81	0.00	0.00	0.00	
3000.00	6.00	265.00	2993.46	-11.48	-131.22	18.26	0.00	0.00	0.00	
3100.00	6.00	265.00	3092.91	-12.39	-141.64	19.71	0.00	0.00	0.00	
3200.00	6.00	265.00	3192.37	-13.30	-152.05	21.16	0.00	0.00	0.00	
3300.00	6.00	265.00	3291.82	-14.21	-162.46	22.61	0.00	0.00	0.00	
3400.00	6.00	265.00	3391.27	-15.12	-172.88	24.06	0.00	0.00	0.00	
3500.00	6.00	265.00	3490.72	-16.04	-183.29	25.51	0.00	0.00	0.00	
3600.00	6.00	265.00	3590.18	-16.95	-193.70	26.96	0.00	0.00	0.00	
3700.00	6.00	265.00	3689.63	-17.86	-204.12	28.41	0.00	0.00	0.00	
3800.00	6.00	265.00	3789.08	-18.77	-214.53	29.86	0.00	0.00	0.00	
3900.00	6.00	265.00	3888.53	-19.68	-224.94	31.31	0.00	0.00	0.00	
4000.00	6.00	265.00	3987.98	-20.59	-235.35	32.76	0.00	0.00	0.00	
4100.00	6.00	265.00	4087.44	-21.50	-245.77	34.21	0.00	0.00	0.00	
4200.00	6.00	265.00	4186.89	-22.41	-256.18	35.66	0.00	0.00	0.00	
4300.00	6.00	265.00	4286.34	-23.32	-266.59	37.11	0.00	0.00	0.00	
4400.00	6.00	265.00	4385.79	-24.23	-277.01	38.55	0.00	0.00	0.00	
4500.00	6.00	265.00	4485.25	-25.15	-287.42	40.00	0.00	0.00	0.00	
4600.00	6.00	265.00	4584.70	-26.06	-297.83	41.45	0.00	0.00	0.00	
4700.00	6.00	265.00	4684.15	-26.97	-308.25	42.90	0.00	0.00	0.00	
4800.00	6.00	265.00	4783.60	-27.88	-318.66	44.35	0.00	0.00	0.00	
4900.00	6.00	265.00	4883.05	-28.79	-329.07	45.80	0.00	0.00	0.00	
5000.00	6.00	265.00	4982.51	-29.70	-339.49	47.25	0.00	0.00	0.00	
5100.00	6.00	265.00	5081.96	-30.61	-349.90	48.70	0.00	0.00	0.00	
5200.00	6.00	265.00	5181.41	-31.52	-360.31	50.15	0.00	0.00	0.00	
5300.00	6.00	265.00	5280.86	-32.43	-370.72	51.60	0.00	0.00	0.00	
5400.00	6.00	265.00	5380.32	-33.35	-381.14	53.05	0.00	0.00	0.00	
5500.00	6.00	265.00	5479.77	-34.26	-391.55	54.50	0.00	0.00	0.00	
5600.00	6.00	265.00	5579.22	-35.17	-401.96	55.95	0.00	0.00	0.00	
5673.66	6.00	265.00	5652.48	-35.84	-409.63	57.01	0.00	0.00	0.00	
5700.00	6.92	242.87	5678.65	-36.68	-412.42	58.00	10.00	3.49	-84.04	
5750.00	10.41	218.45	5728.09	-41.60	-417.91	63.19	10.00	6.99	-48.83	
5800.00	14.79	207.21	5776.88	-50.82	-423.64	72.70	10.00	8.76	-22.49	
5850.00	19.47	201.14	5824.65	-64.27	-429.57	86.44	10.00	9.35	-12.14	
5900.00	24.27	197.37	5871.04	-81.86	-435.64	104.32	10.00	9.60	-7.53	
5950.00	29.13	194.79	5915.70	-103.45	-441.82	126.20	10.00	9.73	-5.15	
6000.00	34.04	192.90	5958.28	-128.87	-448.06	151.92	10.00	9.80	-3.78	
6050.00	38.96	191.43	5998.47	-157.94	-454.30	181.27	10.00	9.85	-2.93	
6100.00	43.90	190.25	6035.94	-190.42	-460.51	214.03	10.00	9.88	-2.37	
6150.00	48.85	189.26	6070.43	-226.08	-466.62	249.96	10.00	9.90	-1.98	
6153.92	49.23	189.19	6073.00	-229.00	-467.10	252.90	10.00	9.91	-1.81	7"
6200.00	53.80	188.42	6101.67	-264.64	-472.61	288.77	10.00	9.91	-1.69	
6250.00	58.76	187.67	6129.41	-305.81	-478.42	330.19	10.00	9.92	-1.49	
6300.00	63.73	187.00	6153.46	-349.27	-484.01	373.88	10.00	9.93	-1.34	
6350.00	68.70	186.38	6173.62	-394.70	-489.33	419.52	10.00	9.94	-1.23	
6400.00	73.67	185.80	6189.74	-441.75	-494.34	466.77	10.00	9.94	-1.15	
6450.00	78.64	185.25	6201.71	-490.05	-499.02	515.25	10.00	9.94	-1.10	
6500.00	83.61	184.73	6209.42	-539.25	-503.31	564.60	10.00	9.95	-1.06	
6550.00	88.58	184.21	6212.82	-588.97	-507.19	614.46	10.00	9.95	-1.04	
6564.23	90.00	184.06	6213.00	-603.16	-508.22	628.68	10.00	9.95	-1.03	
6600.00	90.00	184.06	6213.00	-638.84	-510.75	664.45	0.00	0.00	0.00	
6700.00	90.00	184.06	6213.00	-738.59	-517.83	764.43	0.00	0.00	0.00	
6800.00	90.00	184.06	6213.00	-838.34	-524.91	864.41	0.00	0.00	0.00	
6900.00	90.00	184.06	6213.00	-938.09	-531.99	964.39	0.00	0.00	0.00	
7000.00	90.00	184.06	6213.00	-1037.84	-539.07	1064.37	0.00	0.00	0.00	

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Hemberger Pad
Well: 3-26-34-8-60
Wellpath: Original Hole

Date: 05/17/2012
Co-ordinate(NE) Reference: Well: 3-26-34-8-60, Grid North
Vertical (TVD) Reference: 4874'GL+17'KB 4891.0
Section (VS) Reference: Well (0.00N,0.00E,182.97Azi)
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
7100.00	90.00	184.06	6213.00	-1137.59	-546.14	1164.35	0.00	0.00	0.00	
7200.00	90.00	184.06	6213.00	-1237.33	-553.22	1264.34	0.00	0.00	0.00	
7300.00	90.00	184.06	6213.00	-1337.08	-560.30	1364.32	0.00	0.00	0.00	
7400.00	90.00	184.06	6213.00	-1436.83	-567.38	1464.30	0.00	0.00	0.00	
7500.00	90.00	184.06	6213.00	-1536.58	-574.46	1564.28	0.00	0.00	0.00	
7600.00	90.00	184.06	6213.00	-1636.33	-581.54	1664.26	0.00	0.00	0.00	
7700.00	90.00	184.06	6213.00	-1736.08	-588.62	1764.25	0.00	0.00	0.00	
7800.00	90.00	184.06	6213.00	-1835.83	-595.70	1864.23	0.00	0.00	0.00	
7900.00	90.00	184.06	6213.00	-1935.58	-602.77	1964.21	0.00	0.00	0.00	
8000.00	90.00	184.06	6213.00	-2035.33	-609.85	2064.19	0.00	0.00	0.00	
8100.00	90.00	184.06	6213.00	-2135.08	-616.93	2164.17	0.00	0.00	0.00	
8200.00	90.00	184.06	6213.00	-2234.83	-624.01	2264.16	0.00	0.00	0.00	
8300.00	90.00	184.06	6213.00	-2334.58	-631.09	2364.14	0.00	0.00	0.00	
8400.00	90.00	184.06	6213.00	-2434.32	-638.17	2464.12	0.00	0.00	0.00	
8500.00	90.00	184.06	6213.00	-2534.07	-645.25	2564.10	0.00	0.00	0.00	
8600.00	90.00	184.06	6213.00	-2633.82	-652.33	2664.08	0.00	0.00	0.00	
8700.00	90.00	184.06	6213.00	-2733.57	-659.40	2764.07	0.00	0.00	0.00	
8800.00	90.00	184.06	6213.00	-2833.32	-666.48	2864.05	0.00	0.00	0.00	
8900.00	90.00	184.06	6213.00	-2933.07	-673.56	2964.03	0.00	0.00	0.00	
9000.00	90.00	184.06	6213.00	-3032.82	-680.64	3064.01	0.00	0.00	0.00	
9100.00	90.00	184.06	6213.00	-3132.57	-687.72	3163.99	0.00	0.00	0.00	
9200.00	90.00	184.06	6213.00	-3232.32	-694.80	3263.98	0.00	0.00	0.00	
9300.00	90.00	184.06	6213.00	-3332.07	-701.88	3363.96	0.00	0.00	0.00	
9400.00	90.00	184.06	6213.00	-3431.82	-708.96	3463.94	0.00	0.00	0.00	
9500.00	90.00	184.06	6213.00	-3531.56	-716.03	3563.92	0.00	0.00	0.00	
9600.00	90.00	184.06	6213.00	-3631.31	-723.11	3663.90	0.00	0.00	0.00	
9700.00	90.00	184.06	6213.00	-3731.06	-730.19	3763.89	0.00	0.00	0.00	
9800.00	90.00	184.06	6213.00	-3830.81	-737.27	3863.87	0.00	0.00	0.00	
9900.00	90.00	184.06	6213.00	-3930.56	-744.35	3963.85	0.00	0.00	0.00	
10000.00	90.00	184.06	6213.00	-4030.31	-751.43	4063.83	0.00	0.00	0.00	
10100.00	90.00	184.06	6213.00	-4130.06	-758.51	4163.81	0.00	0.00	0.00	
10200.00	90.00	184.06	6213.00	-4229.81	-765.59	4263.79	0.00	0.00	0.00	
10300.00	90.00	184.06	6213.00	-4329.56	-772.66	4363.78	0.00	0.00	0.00	
10400.00	90.00	184.06	6213.00	-4429.31	-779.74	4463.76	0.00	0.00	0.00	
10500.00	90.00	184.06	6213.00	-4529.06	-786.82	4563.74	0.00	0.00	0.00	
10600.00	90.00	184.06	6213.00	-4628.81	-793.90	4663.72	0.00	0.00	0.00	
10700.00	90.00	184.06	6213.00	-4728.55	-800.98	4763.70	0.00	0.00	0.00	
10800.00	90.00	184.06	6213.00	-4828.30	-808.06	4863.69	0.00	0.00	0.00	
10904.98	90.00	184.06	6213.00	-4933.02	-815.49	4968.65	0.00	0.00	0.00	PBHL 3-26-34

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec			<--- Longitude ---> Deg Min Sec		
SL Frank #35-7 -Circle (Radius: 300)			0.00	-3027.24	-329.31	1471441.43	3400712.37	40	37	6.755 N	104	3	23.535 W
SL 3-26-34			0.00	0.00	0.00	1474468.67	3401041.68	40	37	36.612 N	104	3	18.625 W
SL Frank #35-15 -Circle (Radius: 300)			0.00	-4416.20	-468.45	1470052.47	3400573.23	40	36	53.054 N	104	3	25.632 W
PBHL 3-26-34			6213.00	-4933.02	-815.49	1469535.65	3400226.19	40	36	48.004 N	104	3	30.240 W

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Hemberger Pad
Well: 3-26-34-8-60
Wellpath: Original Hole

Date: 05/17/2012
Co-ordinate(NE) Reference: Well: 3-26-34-8-60, Grid North
Vertical (TVD) Reference: 4874'GL+17'KB 4891.0
Section (VS) Reference: Well (0.00N,0.00E,182.97Azi)
Plan: Plan #1

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Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
6153.92	6073.00	7.000	8.750	7"