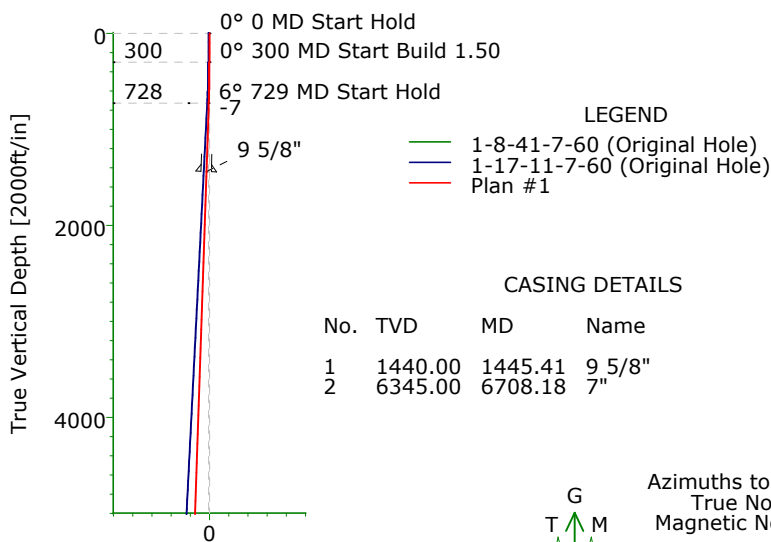
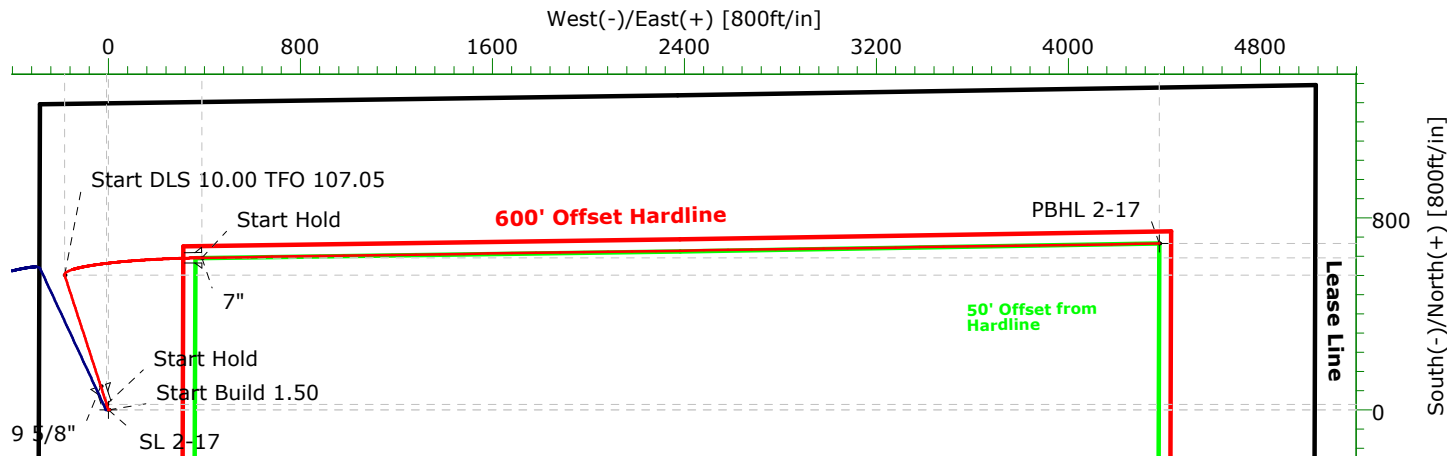




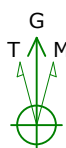
**CARRIZO OIL & GAS, INC.**  
 Field: Niobrara CONZ'83  
 Site: Slick Rock 17-11-7-60 Pad  
 Well: 2-17-11-7-60  
 Wellpath: Original Hole  
 Plan: Plan #1



**Precision**  
 Directional Services



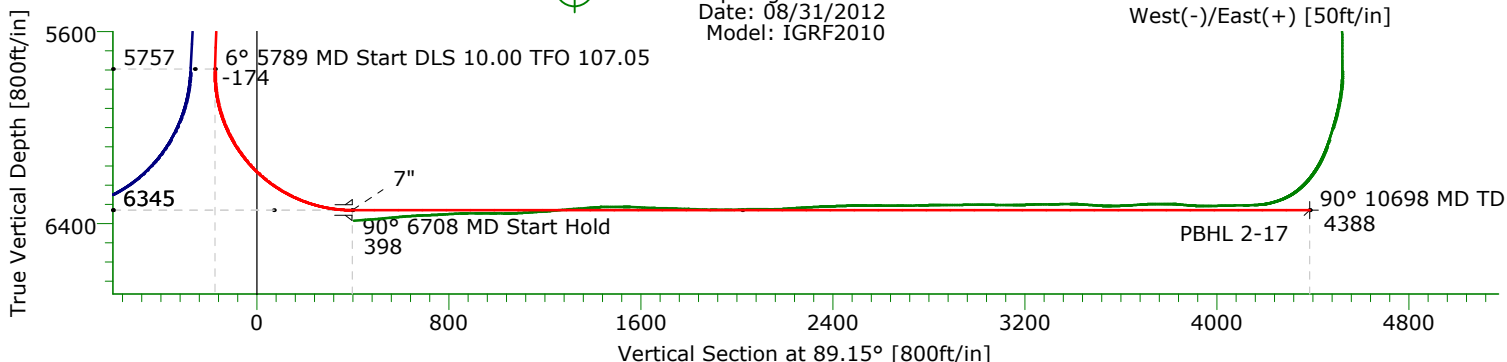
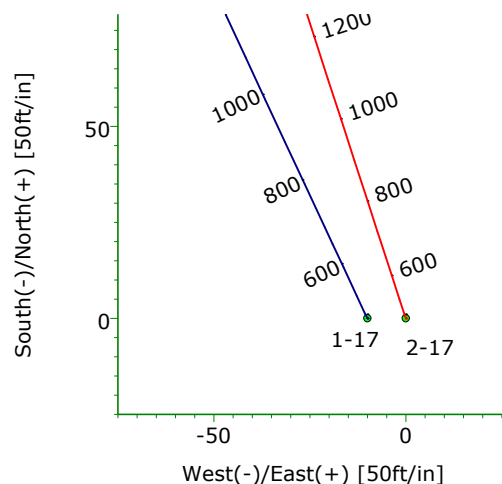
CASING DETAILS				
No.	TVD	MD	Name	Size
1	1440.00	1445.41	9 5/8"	9.625
2	6345.00	6708.18	7"	7.000



Azimuths to Grid North  
 True North: -0.89°  
 Magnetic North: 7.48°

Magnetic Field  
 Strength: 53205nT  
 Dip Angle: 67.26°  
 Date: 08/31/2012  
 Model: IGRF2010

SLOTS			
No.	+N/-S	+E/-W	Name
1	0.00	-10.00	1-17
2	0.00	0.00	2-17



TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL 2-17	-9.00	0.00	0.00	1456703.66	3381692.98	40°34'44.127N	104°07'33.104W	Point
PBHL 2-17	6336.00	692.84	4378.20	1457396.50	3386071.18	40°34'50.298N	104°06'36.228W	Point

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	0.00	0.00	342.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	300.00	0.00	342.00	300.00	0.00	0.00	0.00	342.00	0.00		
3	728.67	6.43	342.00	727.77	22.85	-7.43	1.50	342.00	-7.09		
4	5789.25	6.43	342.00	5756.52	561.85	-182.55	0.00	0.00	-174.20		
5	6708.18	90.00	89.15	6345.00	633.70	389.09	10.00	107.05	398.45		
6	10697.73	90.00	89.15	6345.00	692.84	4378.20	0.00	0.00	4388.00	PBHL 2-17	

**Company:** CARRIZO OIL & GAS, INC.  
**Field:** Niobrara CONZ'83  
**Site:** Slick Rock 17-11-7-60 Pad  
**Well:** 2-17-11-7-60  
**Wellpath:** Original Hole

**Date:** 07/24/2012  
**Co-ordinate(NE) Reference:** Well: 2-17-11-7-60, Grid North  
**Vertical (TVD) Reference:** 4935'GL+17"KB 4952.0  
**Section (VS) Reference:** Well (0.00N,0.00E,89.15Azi)  
**Plan:** Plan #1

**Page:** 1

**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

**Site:** Slick Rock 17-11-7-60 Pad  
Sec 17 T7N R60W  
Weld County, CO

<b>Site Position:</b>	<b>Northing:</b> 1457755.49 ft	<b>Latitude:</b> 40 34 54.361 N
<b>From:</b> Map	<b>Easting:</b> 3382730.70 ft	<b>Longitude:</b> 104 7 19.445 W
<b>Position Uncertainty:</b> 0.00 ft		<b>North Reference:</b> Grid
<b>Ground Level:</b> 4935.00 ft		<b>Grid Convergence:</b> 0.89 deg

<b>Well:</b> 2-17-11-7-60 offset from site	<b>Slot Name:</b> 2-17
<b>Well Position:</b> +N/-S -1051.83 ft	<b>Latitude:</b> 40 34 44.127 N
+E/-W -1037.72 ft	<b>Longitude:</b> 104 7 33.104 W
<b>Position Uncertainty:</b> 0.00 ft	

<b>Wellpath:</b> Original Hole	<b>Drilled From:</b> Surface
<b>Current Datum:</b> 4935'GL+17"KB	<b>Tie-on Depth:</b> 0.00 ft
<b>Magnetic Data:</b> 08/31/2012	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 53205 nT	<b>Declination:</b> 8.37 deg
<b>Vertical Section:</b> Depth From (TVD)	<b>Mag Dip Angle:</b> 67.26 deg
ft	<b>+E/-W</b>
	<b>Direction</b>
	deg
0.00	0.00
0.00	89.15

<b>Plan:</b> Plan #1	<b>Date Composed:</b> 07/24/2012
<b>Principal:</b> No	<b>Version:</b> 1
	<b>Tied-to:</b> 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	342.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	342.00	300.00	0.00	0.00	0.00	0.00	0.00	342.00	
728.67	6.43	342.00	727.77	22.85	-7.43	1.50	1.50	0.00	342.00	
5789.25	6.43	342.00	5756.52	561.85	-182.55	0.00	0.00	0.00	0.00	
6708.18	90.00	89.15	6345.00	633.70	389.09	10.00	9.09	11.66	107.05	
10697.73	90.00	89.15	6345.00	692.84	4378.20	0.00	0.00	0.00	0.00	PBHL 2-17

#### 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
300.00	0.00	342.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	1.50	342.00	399.99	1.24	-0.40	-0.39	1.50	1.50	0.00	
500.00	3.00	342.00	499.91	4.98	-1.62	-1.54	1.50	1.50	0.00	
600.00	4.50	342.00	599.69	11.20	-3.64	-3.47	1.50	1.50	0.00	
700.00	6.00	342.00	699.27	19.90	-6.47	-6.17	1.50	1.50	0.00	
728.67	6.43	342.00	727.77	22.85	-7.43	-7.09	1.50	1.50	0.00	
800.00	6.43	342.00	798.65	30.45	-9.89	-9.44	0.00	0.00	0.00	
900.00	6.43	342.00	898.02	41.10	-13.35	-12.74	0.00	0.00	0.00	
1000.00	6.43	342.00	997.39	51.75	-16.82	-16.05	0.00	0.00	0.00	
1100.00	6.43	342.00	1096.76	62.40	-20.28	-19.35	0.00	0.00	0.00	
1200.00	6.43	342.00	1196.14	73.05	-23.74	-22.65	0.00	0.00	0.00	
1300.00	6.43	342.00	1295.51	83.70	-27.20	-25.95	0.00	0.00	0.00	
1400.00	6.43	342.00	1394.88	94.35	-30.66	-29.25	0.00	0.00	0.00	
1445.41	6.43	342.00	1440.00	99.19	-32.23	-30.75	0.00	0.00	0.00	9 5/8"
1500.00	6.43	342.00	1494.25	105.01	-34.12	-32.56	0.00	0.00	0.00	

**Company:** CARRIZO OIL & GAS, INC.  
**Field:** Niobrara CONZ'83  
**Site:** Slick Rock 17-11-7-60 Pad  
**Well:** 2-17-11-7-60  
**Wellpath:** Original Hole

**Date:** 07/24/2012  
**Co-ordinate(NE) Reference:** Well: 2-17-11-7-60, Grid North  
**Vertical (TVD) Reference:** 4935'GL+17'KB 4952.0  
**Section (VS) Reference:** Well (0.00N,0.00E,89.15Azi)  
**Plan:** Plan #1

**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
1600.00	6.43	342.00	1593.62	115.66	-37.58	-35.86	0.00	0.00	0.00	
1700.00	6.43	342.00	1692.99	126.31	-41.04	-39.16	0.00	0.00	0.00	
1800.00	6.43	342.00	1792.36	136.96	-44.50	-42.46	0.00	0.00	0.00	
1900.00	6.43	342.00	1891.73	147.61	-47.96	-45.77	0.00	0.00	0.00	
2000.00	6.43	342.00	1991.10	158.26	-51.42	-49.07	0.00	0.00	0.00	
2100.00	6.43	342.00	2090.47	168.91	-54.88	-52.37	0.00	0.00	0.00	
2200.00	6.43	342.00	2189.85	179.56	-58.34	-55.67	0.00	0.00	0.00	
2300.00	6.43	342.00	2289.22	190.21	-61.80	-58.98	0.00	0.00	0.00	
2400.00	6.43	342.00	2388.59	200.86	-65.26	-62.28	0.00	0.00	0.00	
2500.00	6.43	342.00	2487.96	211.51	-68.72	-65.58	0.00	0.00	0.00	
2600.00	6.43	342.00	2587.33	222.16	-72.19	-68.88	0.00	0.00	0.00	
2700.00	6.43	342.00	2686.70	232.82	-75.65	-72.18	0.00	0.00	0.00	
2800.00	6.43	342.00	2786.07	243.47	-79.11	-75.49	0.00	0.00	0.00	
2900.00	6.43	342.00	2885.44	254.12	-82.57	-78.79	0.00	0.00	0.00	
3000.00	6.43	342.00	2984.81	264.77	-86.03	-82.09	0.00	0.00	0.00	
3100.00	6.43	342.00	3084.18	275.42	-89.49	-85.39	0.00	0.00	0.00	
3200.00	6.43	342.00	3183.55	286.07	-92.95	-88.70	0.00	0.00	0.00	
3300.00	6.43	342.00	3282.93	296.72	-96.41	-92.00	0.00	0.00	0.00	
3400.00	6.43	342.00	3382.30	307.37	-99.87	-95.30	0.00	0.00	0.00	
3500.00	6.43	342.00	3481.67	318.02	-103.33	-98.60	0.00	0.00	0.00	
3600.00	6.43	342.00	3581.04	328.67	-106.79	-101.90	0.00	0.00	0.00	
3700.00	6.43	342.00	3680.41	339.32	-110.25	-105.21	0.00	0.00	0.00	
3800.00	6.43	342.00	3779.78	349.97	-113.71	-108.51	0.00	0.00	0.00	
3900.00	6.43	342.00	3879.15	360.62	-117.17	-111.81	0.00	0.00	0.00	
4000.00	6.43	342.00	3978.52	371.28	-120.63	-115.11	0.00	0.00	0.00	
4100.00	6.43	342.00	4077.89	381.93	-124.10	-118.42	0.00	0.00	0.00	
4200.00	6.43	342.00	4177.26	392.58	-127.56	-121.72	0.00	0.00	0.00	
4300.00	6.43	342.00	4276.64	403.23	-131.02	-125.02	0.00	0.00	0.00	
4400.00	6.43	342.00	4376.01	413.88	-134.48	-128.32	0.00	0.00	0.00	
4500.00	6.43	342.00	4475.38	424.53	-137.94	-131.63	0.00	0.00	0.00	
4600.00	6.43	342.00	4574.75	435.18	-141.40	-134.93	0.00	0.00	0.00	
4700.00	6.43	342.00	4674.12	445.83	-144.86	-138.23	0.00	0.00	0.00	
4800.00	6.43	342.00	4773.49	456.48	-148.32	-141.53	0.00	0.00	0.00	
4900.00	6.43	342.00	4872.86	467.13	-151.78	-144.83	0.00	0.00	0.00	
5000.00	6.43	342.00	4972.23	477.78	-155.24	-148.14	0.00	0.00	0.00	
5100.00	6.43	342.00	5071.60	488.43	-158.70	-151.44	0.00	0.00	0.00	
5200.00	6.43	342.00	5170.97	499.09	-162.16	-154.74	0.00	0.00	0.00	
5300.00	6.43	342.00	5270.34	509.74	-165.62	-158.04	0.00	0.00	0.00	
5400.00	6.43	342.00	5369.72	520.39	-169.08	-161.35	0.00	0.00	0.00	
5500.00	6.43	342.00	5469.09	531.04	-172.54	-164.65	0.00	0.00	0.00	
5600.00	6.43	342.00	5568.46	541.69	-176.01	-167.95	0.00	0.00	0.00	
5700.00	6.43	342.00	5667.83	552.34	-179.47	-171.25	0.00	0.00	0.00	
5789.25	6.43	342.00	5756.52	561.85	-182.55	-174.20	0.00	0.00	0.00	
5800.00	6.20	351.56	5767.20	562.99	-182.83	-174.45	10.00	-2.14	88.93	
5850.00	7.43	33.48	5816.88	568.36	-181.44	-172.99	10.00	2.46	83.85	
5900.00	11.03	55.63	5866.24	573.76	-175.70	-167.17	10.00	7.21	44.30	
5950.00	15.43	66.19	5914.90	579.15	-165.66	-157.05	10.00	8.79	21.11	
6000.00	20.11	72.04	5962.51	584.49	-151.39	-142.70	10.00	9.35	11.71	
6050.00	24.91	75.74	6008.69	589.74	-133.00	-124.23	10.00	9.60	7.39	
6100.00	29.77	78.30	6053.09	594.85	-110.63	-101.79	10.00	9.72	5.12	
6150.00	34.66	80.19	6095.38	599.80	-84.44	-75.54	10.00	9.80	3.79	
6200.00	39.58	81.67	6135.24	604.53	-54.65	-45.68	10.00	9.84	2.95	
6250.00	44.52	82.86	6172.36	609.02	-21.47	-12.44	10.00	9.87	2.39	
6300.00	49.47	83.87	6206.45	613.23	14.83	23.93	10.00	9.89	2.01	

**Company:** CARRIZO OIL & GAS, INC.  
**Field:** Niobrara CONZ'83  
**Site:** Slick Rock 17-11-7-60 Pad  
**Well:** 2-17-11-7-60  
**Wellpath:** Original Hole

**Date:** 07/24/2012  
**Co-ordinate(NE) Reference:** Well: 2-17-11-7-60, Grid North  
**Vertical (TVD) Reference:** 4935'GL+17'KB 4952.0  
**Section (VS) Reference:** Well (0.00N,0.00E,89.15Azi)  
**Plan:** Plan #1

**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
6350.00	54.42	84.73	6237.26	617.13	54.00	63.15	10.00	9.91	1.73	
6400.00	59.38	85.50	6264.56	620.69	95.72	104.91	10.00	9.92	1.53	
6450.00	64.34	86.19	6288.13	623.88	139.68	148.92	10.00	9.93	1.38	
6500.00	69.31	86.82	6307.81	626.68	185.54	194.82	10.00	9.93	1.27	
6550.00	74.28	87.41	6323.43	629.06	232.96	242.27	10.00	9.94	1.19	
6600.00	79.25	87.98	6334.87	631.01	281.58	290.91	10.00	9.94	1.13	
6650.00	84.22	88.53	6342.06	632.52	331.02	340.37	10.00	9.94	1.09	
6700.00	89.19	89.06	6344.94	633.57	380.91	390.27	10.00	9.94	1.07	
6708.18	90.00	89.15	6345.00	633.70	389.09	398.45	10.00	9.94	1.07	7"
6800.00	90.00	89.15	6345.00	635.06	480.90	490.27	0.00	0.00	0.00	
6900.00	90.00	89.15	6345.00	636.54	580.89	590.27	0.00	0.00	0.00	
7000.00	90.00	89.15	6345.00	638.02	680.88	690.27	0.00	0.00	0.00	
7100.00	90.00	89.15	6345.00	639.51	780.87	790.27	0.00	0.00	0.00	
7200.00	90.00	89.15	6345.00	640.99	880.86	890.27	0.00	0.00	0.00	
7300.00	90.00	89.15	6345.00	642.47	980.85	990.27	0.00	0.00	0.00	
7400.00	90.00	89.15	6345.00	643.95	1080.83	1090.27	0.00	0.00	0.00	
7500.00	90.00	89.15	6345.00	645.44	1180.82	1190.27	0.00	0.00	0.00	
7600.00	90.00	89.15	6345.00	646.92	1280.81	1290.27	0.00	0.00	0.00	
7700.00	90.00	89.15	6345.00	648.40	1380.80	1390.27	0.00	0.00	0.00	
7800.00	90.00	89.15	6345.00	649.88	1480.79	1490.27	0.00	0.00	0.00	
7900.00	90.00	89.15	6345.00	651.37	1580.78	1590.27	0.00	0.00	0.00	
8000.00	90.00	89.15	6345.00	652.85	1680.77	1690.27	0.00	0.00	0.00	
8100.00	90.00	89.15	6345.00	654.33	1780.76	1790.27	0.00	0.00	0.00	
8200.00	90.00	89.15	6345.00	655.81	1880.75	1890.27	0.00	0.00	0.00	
8300.00	90.00	89.15	6345.00	657.30	1980.74	1990.27	0.00	0.00	0.00	
8400.00	90.00	89.15	6345.00	658.78	2080.72	2090.27	0.00	0.00	0.00	
8500.00	90.00	89.15	6345.00	660.26	2180.71	2190.27	0.00	0.00	0.00	
8600.00	90.00	89.15	6345.00	661.74	2280.70	2290.27	0.00	0.00	0.00	
8700.00	90.00	89.15	6345.00	663.23	2380.69	2390.27	0.00	0.00	0.00	
8800.00	90.00	89.15	6345.00	664.71	2480.68	2490.27	0.00	0.00	0.00	
8900.00	90.00	89.15	6345.00	666.19	2580.67	2590.27	0.00	0.00	0.00	
9000.00	90.00	89.15	6345.00	667.67	2680.66	2690.27	0.00	0.00	0.00	
9100.00	90.00	89.15	6345.00	669.16	2780.65	2790.27	0.00	0.00	0.00	
9200.00	90.00	89.15	6345.00	670.64	2880.64	2890.27	0.00	0.00	0.00	
9300.00	90.00	89.15	6345.00	672.12	2980.63	2990.27	0.00	0.00	0.00	
9400.00	90.00	89.15	6345.00	673.60	3080.61	3090.27	0.00	0.00	0.00	
9500.00	90.00	89.15	6345.00	675.08	3180.60	3190.27	0.00	0.00	0.00	
9600.00	90.00	89.15	6345.00	676.57	3280.59	3290.27	0.00	0.00	0.00	
9700.00	90.00	89.15	6345.00	678.05	3380.58	3390.27	0.00	0.00	0.00	
9800.00	90.00	89.15	6345.00	679.53	3480.57	3490.27	0.00	0.00	0.00	
9900.00	90.00	89.15	6345.00	681.01	3580.56	3590.27	0.00	0.00	0.00	
10000.00	90.00	89.15	6345.00	682.50	3680.55	3690.27	0.00	0.00	0.00	
10100.00	90.00	89.15	6345.00	683.98	3780.54	3790.27	0.00	0.00	0.00	
10200.00	90.00	89.15	6345.00	685.46	3880.53	3890.27	0.00	0.00	0.00	
10300.00	90.00	89.15	6345.00	686.94	3980.52	3990.27	0.00	0.00	0.00	
10400.00	90.00	89.15	6345.00	688.43	4080.50	4090.27	0.00	0.00	0.00	
10500.00	90.00	89.15	6345.00	689.91	4180.49	4190.27	0.00	0.00	0.00	
10600.00	90.00	89.15	6345.00	691.39	4280.48	4290.27	0.00	0.00	0.00	
10697.73	90.00	89.15	6345.00	692.84	4378.20	4388.00	0.00	0.00	0.00	PBHL 2-17

**Company:** CARRIZO OIL & GAS, INC.  
**Field:** Niobrara CONZ'83  
**Site:** Slick Rock 17-11-7-60 Pad  
**Well:** 2-17-11-7-60  
**Wellpath:** Original Hole

**Date:** 07/24/2012  
**Co-ordinate(NE) Reference:** Well: 2-17-11-7-60, Grid North  
**Vertical (TVD) Reference:** 4935'GL+17'KB 4952.0  
**Section (VS) Reference:** Well (0.00N,0.00E,89.15Azi)  
**Plan:** Plan #1

**Page:** 4

#### 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		
SL 2-17			0.00	0.00	0.00	1456703.66	3381692.98	40	34	44.127	N	104	7	33.104	W
PBHL 2-17			6345.00	692.84	4378.20	1457396.50	3386071.18	40	34	50.298	N	104	6	36.228	W

#### Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
1445.41	1440.00	9.625	12.250	9 5/8"
6708.18	6345.00	7.000	8.750	7"

**Company:** CARRIZO OIL & GAS, INC. **Date:** 07/24/2012 **Time:** 10:24:24 **Page:** 1  
**Field:** Niobrara CONZ'83  
**Reference Site:** Slick Rock 17-11-7-60 Pad **Co-ordinate(NE) Reference:** Well: 2-17-11-7-60, Grid North  
**Reference Well:** 2-17-11-7-60 **Vertical (TVD) Reference:** 4935'GL+17'KB 4952.0  
**Reference Wellpath:** Original Hole **Db:** Adapti

**NO GLOBAL SCAN: Using user defined selection & scan criteria**  
**Interpolation Method:** MD **Interval:** 100.00 ft  
**Depth Range:** 0.00 to 10697.73 ft  
**Maximum Radius:** 100.00 ft

**Reference:** Plan: Plan #1  
**Error Model:** Systematic Ellipse  
**Scan Method:** Closest Approach 3D  
**Error Surface:** Ellipse

**Plan:** Plan #1 **Date Composed:** 07/24/2012  
**Principal:** No **Version:** 1  
**Tied-to:** From Surface

#### Summary

<----- Offset Wellpath ----->			Reference	Offset	Ctr-Ctr	Edge	Separation	Warning
Site	Well	Wellpath	MD ft	MD ft	Distance ft	Distance ft	Factor	
Slick Rock 17-11-7-61-17-11-7-60		Original Hole V0 Plan:	5500.00	5498.52	98.71	69.41	3.37	

**Site:** Slick Rock 17-11-7-60 Pad  
**Well:** 1-17-11-7-60  
**Wellpath:** Original Hole V0 Plan: Plan #1 V1

**Inter-Site Error:** 0.00 ft

Reference MD ft	TVD ft	Offset MD ft	TVD ft	Semi-Major Axis Ref ft	Offset ft	TFO-HS deg	Offset Location North ft	East ft	Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	270.00	0.00	-10.00	10.00			No Data
100.00	100.00	100.00	100.00	0.22	0.22	270.00	0.00	-10.00	10.00	9.57	23.01	
200.00	200.00	200.00	200.00	0.48	0.48	270.00	0.00	-10.00	10.00	9.04	10.44	
300.00	300.00	300.00	300.00	0.74	0.74	270.00	0.00	-10.00	10.00	8.52	6.75	
400.00	399.99	399.87	399.85	1.00	1.00	288.36	1.31	-10.61	10.21	8.20	5.09	
500.00	499.91	499.69	499.55	1.27	1.26	292.05	5.75	-12.68	11.10	8.57	4.39	
600.00	599.69	599.45	598.95	1.53	1.53	297.79	13.33	-16.22	12.78	9.73	4.18	
700.00	699.27	699.25	698.08	1.79	1.79	303.17	23.80	-21.10	15.19	11.61	4.24	
800.00	798.65	799.23	797.31	2.06	2.06	303.29	34.84	-26.25	16.99	12.87	4.13	
900.00	898.02	899.21	896.55	2.33	2.33	303.11	45.89	-31.40	18.72	14.08	4.03	
1000.00	997.39	999.20	995.79	2.59	2.60	302.96	56.93	-36.55	20.46	15.28	3.95	
1100.00	1096.76	1099.18	1095.03	2.86	2.86	302.83	67.97	-41.70	22.20	16.48	3.88	
1200.00	1196.14	1199.17	1194.27	3.13	3.13	302.73	79.02	-46.85	23.94	17.69	3.83	
1300.00	1295.51	1299.15	1293.51	3.39	3.40	302.63	90.06	-52.00	25.68	18.89	3.78	
1400.00	1394.88	1399.14	1392.75	3.66	3.67	302.55	101.10	-57.14	27.42	20.10	3.75	
1500.00	1494.25	1499.12	1491.99	3.93	3.94	302.48	112.15	-62.29	29.15	21.30	3.71	
1600.00	1593.62	1599.11	1591.23	4.20	4.21	302.41	123.19	-67.44	30.89	22.50	3.68	
1700.00	1692.99	1699.09	1690.47	4.47	4.48	302.36	134.23	-72.59	32.63	23.70	3.66	
1800.00	1792.36	1799.08	1789.71	4.73	4.75	302.31	145.28	-77.74	34.37	24.91	3.63	
1900.00	1891.73	1899.06	1888.95	5.00	5.02	302.26	156.32	-82.89	36.11	26.11	3.61	
2000.00	1991.10	1999.05	1988.19	5.27	5.28	302.22	167.36	-88.04	37.85	27.31	3.59	
2100.00	2090.47	2099.03	2087.43	5.54	5.55	302.18	178.41	-93.19	39.59	28.52	3.58	
2200.00	2189.85	2199.02	2186.67	5.81	5.82	302.14	189.45	-98.34	41.33	29.72	3.56	
2300.00	2289.22	2299.00	2285.91	6.07	6.09	302.11	200.49	-103.49	43.06	30.92	3.55	
2400.00	2388.59	2398.99	2385.15	6.34	6.36	302.08	211.54	-108.64	44.80	32.13	3.53	
2500.00	2487.96	2498.97	2484.39	6.61	6.63	302.05	222.58	-113.79	46.54	33.33	3.52	
2600.00	2587.33	2598.96	2583.63	6.88	6.90	302.03	233.62	-118.94	48.28	34.53	3.51	
2700.00	2686.70	2698.94	2682.87	7.15	7.17	302.00	244.67	-124.09	50.02	35.73	3.50	
2800.00	2786.07	2798.93	2782.11	7.41	7.44	301.98	255.71	-129.24	51.76	36.94	3.49	
2900.00	2885.44	2898.91	2881.35	7.68	7.71	301.96	266.75	-134.39	53.50	38.14	3.48	
3000.00	2984.81	2998.90	2980.59	7.95	7.98	301.94	277.80	-139.54	55.24	39.34	3.48	
3100.00	3084.18	3098.88	3079.83	8.22	8.25	301.92	288.84	-144.69	56.98	40.55	3.47	
3200.00	3183.55	3198.87	3179.07	8.49	8.52	301.91	299.88	-149.84	58.71	41.75	3.46	
3300.00	3282.93	3298.85	3278.30	8.75	8.78	301.89	310.93	-154.99	60.45	42.95	3.45	
3400.00	3382.30	3398.84	3377.54	9.02	9.05	301.88	321.97	-160.14	62.19	44.15	3.45	
3500.00	3481.67	3498.82	3476.78	9.29	9.32	301.86	333.01	-165.29	63.93	45.36	3.44	

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**Reference Wellpath:** Original Hole

**Date:** 07/24/2012

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**Page:** 2

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**Vertical (TVD) Reference:** 4935'GL+17'KB 4952.0

**Db:** Adapti

**Site:** Slick Rock 17-11-7-60 Pad

**Well:** 1-17-11-7-60

**Wellpath:** Original Hole V0 Plan: Plan #1 V1

**Inter-Site Error:** 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Distance ft	Edge Distance ft	Separation Factor	Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft				
3600.00	3581.04	3598.81	3576.02	9.56	9.59	301.85	344.06	-170.44	65.67	46.56	3.44	
3700.00	3680.41	3698.79	3675.26	9.83	9.86	301.83	355.10	-175.59	67.41	47.76	3.43	
3800.00	3779.78	3798.78	3774.50	10.10	10.13	301.82	366.14	-180.74	69.15	48.96	3.43	
3900.00	3879.15	3898.76	3873.74	10.36	10.40	301.81	377.19	-185.89	70.89	50.17	3.42	
4000.00	3978.52	3998.75	3972.98	10.63	10.67	301.80	388.23	-191.04	72.63	51.37	3.42	
4100.00	4077.89	4098.73	4072.22	10.90	10.94	301.79	399.28	-196.19	74.36	52.57	3.41	
4200.00	4177.26	4198.72	4171.46	11.17	11.21	301.78	410.32	-201.33	76.10	53.78	3.41	
4300.00	4276.64	4298.70	4270.70	11.44	11.48	301.77	421.36	-206.48	77.84	54.98	3.40	
4400.00	4376.01	4398.69	4369.94	11.70	11.75	301.76	432.41	-211.63	79.58	56.18	3.40	
4500.00	4475.38	4498.67	4469.18	11.97	12.02	301.75	443.45	-216.78	81.32	57.38	3.40	
4600.00	4574.75	4598.66	4568.42	12.24	12.29	301.74	454.49	-221.93	83.06	58.59	3.39	
4700.00	4674.12	4698.64	4667.66	12.51	12.56	301.73	465.54	-227.08	84.80	59.79	3.39	
4800.00	4773.49	4798.63	4766.90	12.78	12.83	301.73	476.58	-232.23	86.54	60.99	3.39	
4900.00	4872.86	4898.61	4866.14	13.05	13.10	301.72	487.62	-237.38	88.28	62.19	3.38	
5000.00	4972.23	4998.59	4965.38	13.31	13.36	301.71	498.67	-242.53	90.01	63.40	3.38	
5100.00	5071.60	5098.58	5064.62	13.58	13.63	301.70	509.71	-247.68	91.75	64.60	3.38	
5200.00	5170.97	5198.56	5163.86	13.85	13.90	301.70	520.75	-252.83	93.49	65.80	3.38	
5300.00	5270.34	5298.55	5263.10	14.12	14.17	301.69	531.80	-257.98	95.23	67.01	3.37	
5400.00	5369.72	5398.53	5362.34	14.39	14.44	301.68	542.84	-263.13	96.97	68.21	3.37	
5500.00	5469.09	5498.52	5461.58	14.66	14.71	301.68	553.88	-268.28	98.71	69.41	3.37	