



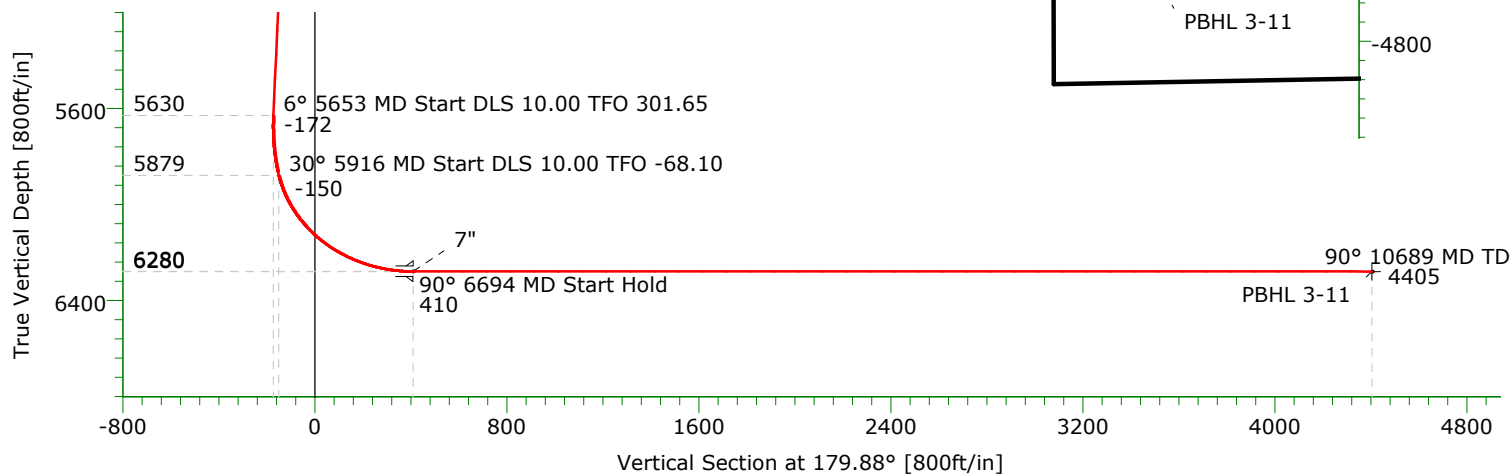
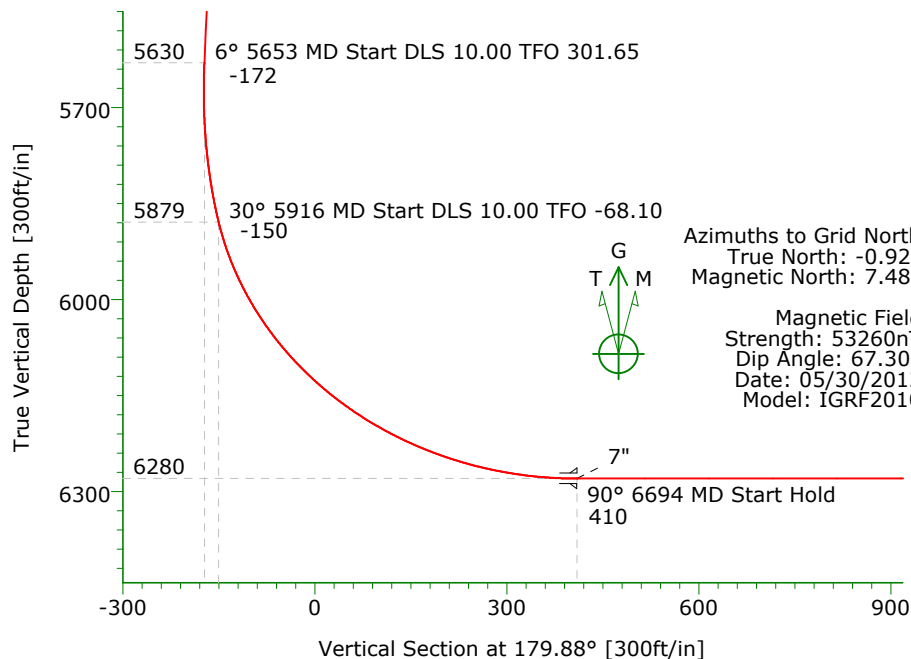
CARRIZO OIL & GAS, INC.

Field: Niobrara CONZ'83
Site: Peragamos 3-11-7-60
Well: 3-11-7-60
Wellpath: Original Hole
Plan: Plan #1a

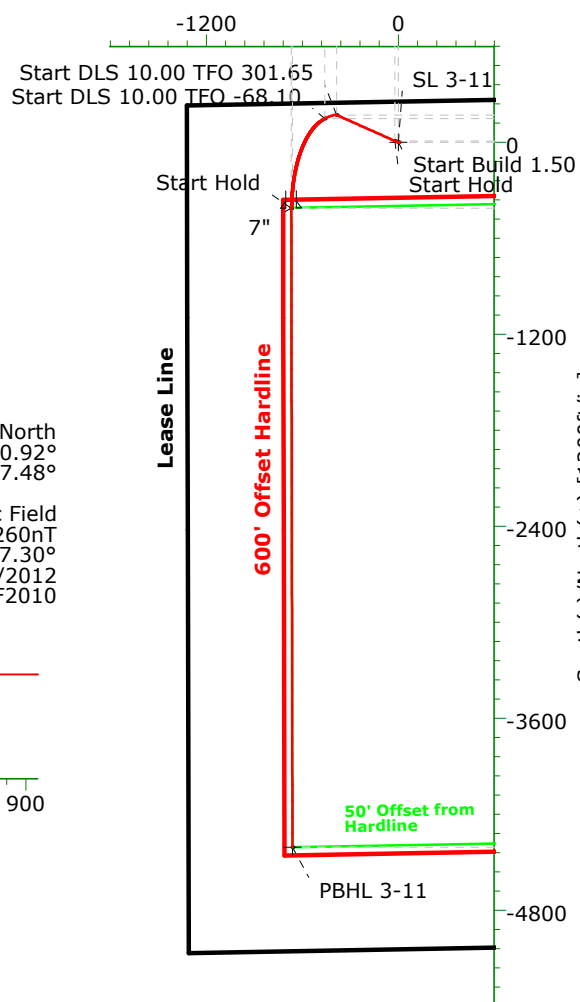


CASING DETAILS

No.	TVD	MD	Name	Size
1	6280.00	6694.20	7"	7.000



West(-)/East(+) [1200ft/in]



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SL 3-11	0.00	0.00	0.00	1468498.96	3393332.50	40°36'38.859N	104°04'59.832W	Point
PBHL 3-11	6280.00	-4405.92	-661.33	1464093.04	3392671.17	40°35'55.431N	104°05'09.317W	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	1953.33	6.20	294.00	1952.53	9.09	-20.41	1.50	294.00	-9.13	
4	5652.60	6.20	294.00	5630.16	171.59	-385.39	0.00	0.00	-172.39	
5	5915.73	30.00	245.00	5879.29	149.17	-459.29	10.00	301.65	-150.13	
6	6694.20	90.00	179.90	6280.00	-411.31	-668.17	10.00	-68.10	409.90	
7	10688.82	90.00	179.90	6280.00	-4405.92	-661.33	0.00	0.00	4404.53	PBHL 3-11

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Peragamos 3-11-7-60
Well: 3-11-7-60
Wellpath: Original Hole

Date: 04/27/2012
Co-ordinate(NE) Reference: Well: 3-11-7-60, Grid North
Vertical (TVD) Reference: 4922'GL+17'KB 4939.0
Section (VS) Reference: Well (0.00N,0.00E,179.88Azi)
Plan: Plan #1a

Page: 1

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: Peragamos 3-11-7-60
Lot 4 S:3, T:7N,R60W
Weld County, Co

Site Position:
From: Map
Position Uncertainty: 0.00 ft
Ground Level: 4922.00 ft

Northing: 1468498.96 ft
Easting: 3393332.50 ft

Latitude: 40 36 38.859 N
Longitude: 104 4 59.832 W
North Reference: Grid
Grid Convergence: 0.92 deg

Well: 3-11-7-60

Slot Name:

Well Position: +N/-S 0.00 ft
+E/-W 0.00 ft
Position Uncertainty: 0.00 ft

Northing: 1468498.96 ft
Easting: 3393332.50 ft

Latitude: 40 36 38.859 N
Longitude: 104 4 59.832 W

Wellpath: Original Hole

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.39 deg
Mag Dip Angle: 67.30 deg
+E/-W **Direction**
ft deg

Current Datum: 4922'GL+17'KB
Magnetic Data: 05/30/2012
Field Strength: 53260 nT
Vertical Section: Depth From (TVD)
ft

Height 4939.00 ft

+N/-S
ft

0.00 0.00 0.00 179.88

Plan: Plan #1a

Date Composed: 04/27/2012
Version: 1
Tied-to: From Surface

Principal: No

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	
1953.33	6.20	294.00	1952.53	9.09	-20.41	1.50	1.50	0.00	294.00	
5652.60	6.20	294.00	5630.16	171.59	-385.39	0.00	0.00	0.00	0.00	
5915.73	30.00	245.00	5879.29	149.17	-459.29	10.00	9.05	-18.62	301.65	
6694.20	90.00	179.90	6280.00	-411.31	-668.17	10.00	7.71	-8.36	-68.10	
10688.82	90.00	179.90	6280.00	-4405.92	-661.33	0.00	0.00	0.00	0.00	PBHL 3-11

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	294.00	1600.00	0.19	-0.43	-0.19	1.50	1.50	0.00	
1700.00	2.40	294.00	1699.95	1.36	-3.06	-1.37	1.50	1.50	0.00	
1800.00	3.90	294.00	1799.80	3.60	-8.08	-3.61	1.50	1.50	0.00	
1900.00	5.40	294.00	1899.47	6.90	-15.49	-6.93	1.50	1.50	0.00	
1953.33	6.20	294.00	1952.53	9.09	-20.41	-9.13	1.50	1.50	0.00	
2000.00	6.20	294.00	1998.92	11.14	-25.01	-11.19	0.00	0.00	0.00	
2100.00	6.20	294.00	2098.34	15.53	-34.88	-15.60	0.00	0.00	0.00	
2200.00	6.20	294.00	2197.75	19.92	-44.75	-20.02	0.00	0.00	0.00	
2300.00	6.20	294.00	2297.17	24.32	-54.61	-24.43	0.00	0.00	0.00	
2400.00	6.20	294.00	2396.58	28.71	-64.48	-28.84	0.00	0.00	0.00	
2500.00	6.20	294.00	2496.00	33.10	-74.35	-33.26	0.00	0.00	0.00	
2600.00	6.20	294.00	2595.41	37.49	-84.21	-37.67	0.00	0.00	0.00	
2700.00	6.20	294.00	2694.83	41.89	-94.08	-42.08	0.00	0.00	0.00	
2800.00	6.20	294.00	2794.24	46.28	-103.94	-46.50	0.00	0.00	0.00	

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Peragamos 3-11-7-60
Well: 3-11-7-60
Wellpath: Original Hole

Date: 04/27/2012
Co-ordinate(NE) Reference: Well: 3-11-7-60, Grid North
Vertical (TVD) Reference: 4922'GL+17'KB 4939.0
Section (VS) Reference: Well (0.00N,0.00E,179.88Azi)
Plan: Plan #1a

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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	6.20	294.00	2893.66	50.67	-113.81	-50.91	0.00	0.00	0.00	
3000.00	6.20	294.00	2993.07	55.06	-123.68	-55.32	0.00	0.00	0.00	
3100.00	6.20	294.00	3092.49	59.46	-133.54	-59.74	0.00	0.00	0.00	
3200.00	6.20	294.00	3191.90	63.85	-143.41	-64.15	0.00	0.00	0.00	
3300.00	6.20	294.00	3291.32	68.24	-153.28	-68.56	0.00	0.00	0.00	
3400.00	6.20	294.00	3390.73	72.64	-163.14	-72.98	0.00	0.00	0.00	
3500.00	6.20	294.00	3490.15	77.03	-173.01	-77.39	0.00	0.00	0.00	
3600.00	6.20	294.00	3589.56	81.42	-182.87	-81.80	0.00	0.00	0.00	
3700.00	6.20	294.00	3688.98	85.81	-192.74	-86.22	0.00	0.00	0.00	
3800.00	6.20	294.00	3788.39	90.21	-202.61	-90.63	0.00	0.00	0.00	
3900.00	6.20	294.00	3887.81	94.60	-212.47	-95.04	0.00	0.00	0.00	
4000.00	6.20	294.00	3987.22	98.99	-222.34	-99.46	0.00	0.00	0.00	
4100.00	6.20	294.00	4086.64	103.38	-232.21	-103.87	0.00	0.00	0.00	
4200.00	6.20	294.00	4186.05	107.78	-242.07	-108.28	0.00	0.00	0.00	
4300.00	6.20	294.00	4285.47	112.17	-251.94	-112.70	0.00	0.00	0.00	
4400.00	6.20	294.00	4384.88	116.56	-261.80	-117.11	0.00	0.00	0.00	
4500.00	6.20	294.00	4484.30	120.96	-271.67	-121.52	0.00	0.00	0.00	
4600.00	6.20	294.00	4583.71	125.35	-281.54	-125.94	0.00	0.00	0.00	
4700.00	6.20	294.00	4683.13	129.74	-291.40	-130.35	0.00	0.00	0.00	
4800.00	6.20	294.00	4782.54	134.13	-301.27	-134.76	0.00	0.00	0.00	
4900.00	6.20	294.00	4881.96	138.53	-311.14	-139.18	0.00	0.00	0.00	
5000.00	6.20	294.00	4981.37	142.92	-321.00	-143.59	0.00	0.00	0.00	
5100.00	6.20	294.00	5080.79	147.31	-330.87	-148.00	0.00	0.00	0.00	
5200.00	6.20	294.00	5180.20	151.70	-340.73	-152.42	0.00	0.00	0.00	
5300.00	6.20	294.00	5279.62	156.10	-350.60	-156.83	0.00	0.00	0.00	
5400.00	6.20	294.00	5379.03	160.49	-360.47	-161.24	0.00	0.00	0.00	
5500.00	6.20	294.00	5478.45	164.88	-370.33	-165.66	0.00	0.00	0.00	
5600.00	6.20	294.00	5577.86	169.28	-380.20	-170.07	0.00	0.00	0.00	
5652.60	6.20	294.00	5630.16	171.59	-385.39	-172.39	0.00	0.00	0.00	
5700.00	9.57	268.98	5677.11	172.56	-391.67	-173.38	10.00	7.12	-52.78	
5750.00	14.01	257.51	5726.05	171.17	-401.75	-172.01	10.00	8.88	-22.95	
5800.00	18.73	251.60	5774.02	167.33	-415.28	-168.20	10.00	9.44	-11.83	
5850.00	23.57	248.02	5820.63	161.05	-432.18	-161.95	10.00	9.67	-7.16	
5900.00	28.45	245.61	5865.56	152.38	-452.31	-153.33	10.00	9.78	-4.82	
5915.73	30.00	245.00	5879.29	149.17	-459.29	-150.13	10.00	9.82	-3.86	
5950.00	31.42	238.89	5908.76	140.93	-474.71	-141.92	10.00	4.16	-17.82	
6000.00	33.97	230.92	5950.85	125.38	-496.73	-126.42	10.00	5.09	-15.96	
6050.00	36.96	224.00	5991.58	105.75	-518.02	-106.83	10.00	5.98	-13.82	
6100.00	40.30	218.04	6030.65	82.19	-538.44	-83.31	10.00	6.68	-11.94	
6150.00	43.91	212.86	6067.75	54.87	-557.83	-56.04	10.00	7.21	-10.34	
6200.00	47.71	208.34	6102.61	24.01	-576.03	-25.22	10.00	7.62	-9.04	
6250.00	51.68	204.35	6134.95	-10.16	-592.90	8.92	10.00	7.93	-7.99	
6300.00	55.77	200.78	6164.53	-47.38	-608.33	46.10	10.00	8.18	-7.15	
6350.00	59.95	197.54	6191.13	-87.36	-622.19	86.06	10.00	8.36	-6.48	
6400.00	64.21	194.56	6214.54	-129.81	-634.38	128.48	10.00	8.51	-5.95	
6450.00	68.52	191.80	6234.59	-174.39	-644.80	173.04	10.00	8.62	-5.53	
6500.00	72.87	189.19	6251.12	-220.78	-653.38	219.41	10.00	8.71	-5.21	
6550.00	77.26	186.70	6264.01	-268.61	-660.05	267.23	10.00	8.77	-4.97	
6600.00	81.66	184.30	6273.15	-317.53	-664.75	316.13	10.00	8.82	-4.80	
6650.00	86.09	181.96	6278.49	-367.15	-667.46	365.75	10.00	8.84	-4.69	
6694.20	90.00	179.90	6280.00	-411.31	-668.17	409.90	10.00	8.86	-4.65	7"
6700.00	90.00	179.90	6280.00	-417.11	-668.16	415.71	0.00	0.00	0.00	
6800.00	90.00	179.90	6280.00	-517.11	-667.99	515.71	0.00	0.00	0.00	

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Peragamos 3-11-7-60
Well: 3-11-7-60
Wellpath: Original Hole

Date: 04/27/2012
Co-ordinate(NE) Reference: Well: 3-11-7-60, Grid North
Vertical (TVD) Reference: 4922'GL+17'KB 4939.0
Section (VS) Reference: Well (0.00N,0.00E,179.88Azi)
Plan: Plan #1a

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
6900.00	90.00	179.90	6280.00	-617.11	-667.82	615.71	0.00	0.00	0.00	
7000.00	90.00	179.90	6280.00	-717.11	-667.65	715.71	0.00	0.00	0.00	
7100.00	90.00	179.90	6280.00	-817.11	-667.48	815.71	0.00	0.00	0.00	
7200.00	90.00	179.90	6280.00	-917.11	-667.31	915.71	0.00	0.00	0.00	
7300.00	90.00	179.90	6280.00	-1017.11	-667.14	1015.71	0.00	0.00	0.00	
7400.00	90.00	179.90	6280.00	-1117.11	-666.96	1115.71	0.00	0.00	0.00	
7500.00	90.00	179.90	6280.00	-1217.11	-666.79	1215.71	0.00	0.00	0.00	
7600.00	90.00	179.90	6280.00	-1317.11	-666.62	1315.71	0.00	0.00	0.00	
7700.00	90.00	179.90	6280.00	-1417.11	-666.45	1415.71	0.00	0.00	0.00	
7800.00	90.00	179.90	6280.00	-1517.11	-666.28	1515.71	0.00	0.00	0.00	
7900.00	90.00	179.90	6280.00	-1617.11	-666.11	1615.71	0.00	0.00	0.00	
8000.00	90.00	179.90	6280.00	-1717.11	-665.94	1715.71	0.00	0.00	0.00	
8100.00	90.00	179.90	6280.00	-1817.11	-665.77	1815.71	0.00	0.00	0.00	
8200.00	90.00	179.90	6280.00	-1917.11	-665.59	1915.71	0.00	0.00	0.00	
8300.00	90.00	179.90	6280.00	-2017.11	-665.42	2015.71	0.00	0.00	0.00	
8400.00	90.00	179.90	6280.00	-2117.11	-665.25	2115.71	0.00	0.00	0.00	
8500.00	90.00	179.90	6280.00	-2217.11	-665.08	2215.71	0.00	0.00	0.00	
8600.00	90.00	179.90	6280.00	-2317.11	-664.91	2315.71	0.00	0.00	0.00	
8700.00	90.00	179.90	6280.00	-2417.11	-664.74	2415.71	0.00	0.00	0.00	
8800.00	90.00	179.90	6280.00	-2517.11	-664.57	2515.71	0.00	0.00	0.00	
8900.00	90.00	179.90	6280.00	-2617.11	-664.39	2615.71	0.00	0.00	0.00	
9000.00	90.00	179.90	6280.00	-2717.11	-664.22	2715.71	0.00	0.00	0.00	
9100.00	90.00	179.90	6280.00	-2817.11	-664.05	2815.71	0.00	0.00	0.00	
9200.00	90.00	179.90	6280.00	-2917.11	-663.88	2915.71	0.00	0.00	0.00	
9300.00	90.00	179.90	6280.00	-3017.11	-663.71	3015.71	0.00	0.00	0.00	
9400.00	90.00	179.90	6280.00	-3117.11	-663.54	3115.71	0.00	0.00	0.00	
9500.00	90.00	179.90	6280.00	-3217.11	-663.37	3215.71	0.00	0.00	0.00	
9600.00	90.00	179.90	6280.00	-3317.10	-663.20	3315.71	0.00	0.00	0.00	
9700.00	90.00	179.90	6280.00	-3417.10	-663.02	3415.71	0.00	0.00	0.00	
9800.00	90.00	179.90	6280.00	-3517.10	-662.85	3515.71	0.00	0.00	0.00	
9900.00	90.00	179.90	6280.00	-3617.10	-662.68	3615.71	0.00	0.00	0.00	
10000.00	90.00	179.90	6280.00	-3717.10	-662.51	3715.71	0.00	0.00	0.00	
10100.00	90.00	179.90	6280.00	-3817.10	-662.34	3815.71	0.00	0.00	0.00	
10200.00	90.00	179.90	6280.00	-3917.10	-662.17	3915.71	0.00	0.00	0.00	
10300.00	90.00	179.90	6280.00	-4017.10	-662.00	4015.71	0.00	0.00	0.00	
10400.00	90.00	179.90	6280.00	-4117.10	-661.82	4115.71	0.00	0.00	0.00	
10500.00	90.00	179.90	6280.00	-4217.10	-661.65	4215.71	0.00	0.00	0.00	
10600.00	90.00	179.90	6280.00	-4317.10	-661.48	4315.71	0.00	0.00	0.00	
10688.82	90.00	179.90	6280.00	-4405.92	-661.33	4404.53	0.00	0.00	0.00	PBHL 3-11

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 3-11			0.00	0.00	0.00	1468498.96	3393332.50	40	36	38.859 N	104	4	59.832 W
PBHL 3-11			6280.00	-4405.92	-661.33	1464093.04	3392671.17	40	35	55.431 N	104	5	9.317 W

Company: CARRIZO OIL & GAS, INC.

Field: Niobrara CONZ'83

Site: Peragamos 3-11-7-60

Well: 3-11-7-60

Wellpath: Original Hole

Date: 04/27/2012

Time: 13:51:07

Page: 4

Co-ordinate(NE) Reference: Well: 3-11-7-60, Grid North

Vertical (TVD) Reference: 4922'GL+17'KB 4939.0

Section (VS) Reference: Well (0.00N,0.00E,179.88Azi)

Plan: Plan #1a

Casing Points

MD ft	TVD ft	Diameter in	Hole Size in	Name
6694.20	6280.00	7.000	8.750	7"