



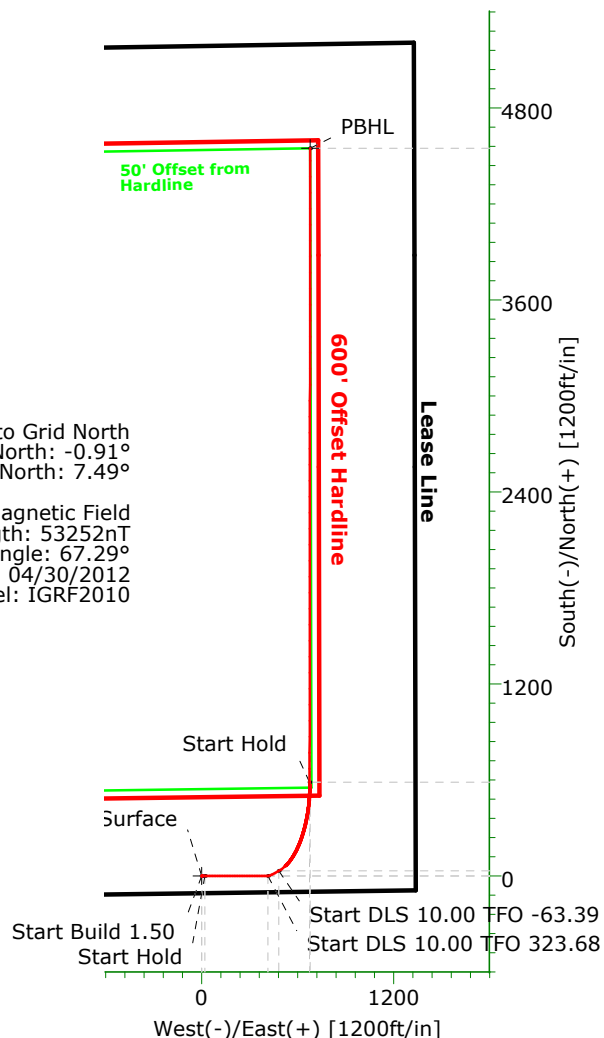
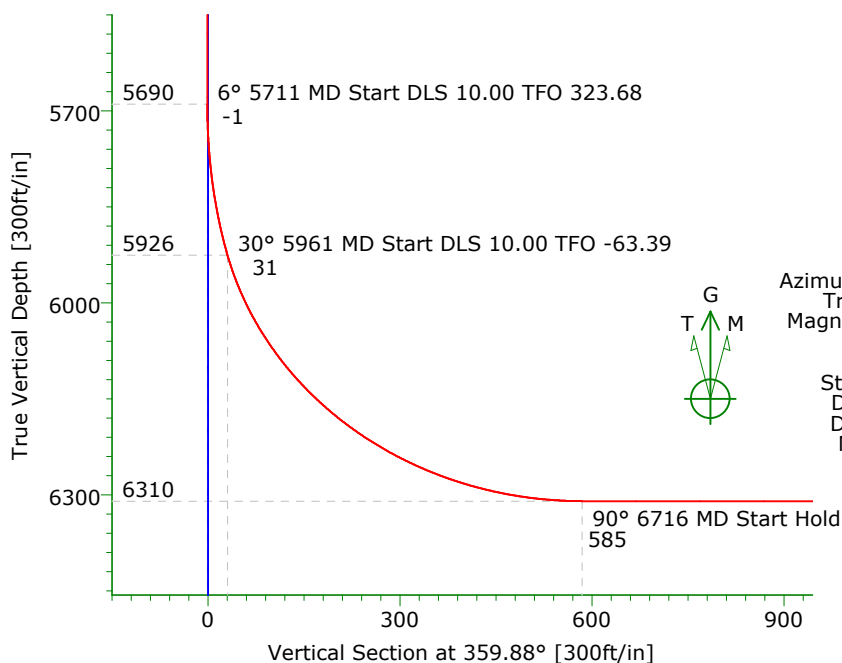
CARRIZO OIL & GAS, INC.

Field: Niobrara CONZ'83
Site: Peragamos 4-44-7-60
Well: 1-4-44-7-60
Wellpath: Original Hole
Plan: Plan #1b

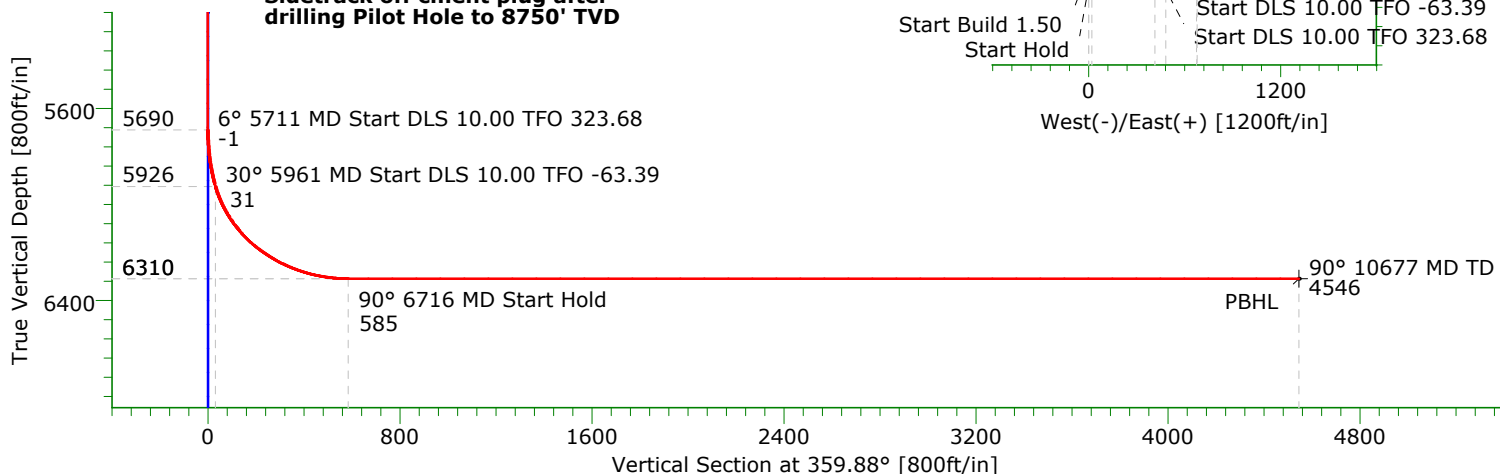


LEGEND

1-4-44-7-60 (Pilot Hole)
Plan #1b



Sidetrack off cement plug after drilling Pilot Hole to 8750' TVD



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Surface	0.00	0.00	0.00	1463521.27	3390683.38	40°35'50.095N104°05'35.201W		Point
PBHL	6310.00	4547.48	679.32	1468068.75	3391362.70	40°36'34.918N104°05'25.458W		Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1540.00	0.00	90.00	1540.00	0.00	0.00	0.00	90.00	0.00	
3	1940.00	6.00	90.00	1939.27	0.00	20.92	1.50	90.00	-0.04	
4	5711.18	6.00	90.00	5689.79	0.00	415.12	0.00	0.00	-0.87	
5	5960.86	30.00	60.00	5925.81	31.71	483.31	10.00	323.68	30.70	
6	6715.86	90.00	0.05	6310.00	586.25	675.80	10.00	-63.39	584.83	
7	10677.09	90.00	0.05	6310.00	4547.48	679.32	0.00	0.00	4546.05	PBHL

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Peragamos 4-44-7-60
Well: 1-4-44-7-60
Wellpath: Original Hole

Date: 03/30/2012
Co-ordinate(NE) Reference: Well: 1-4-44-7-60, Grid North
Vertical (TVD) Reference: 4910'GL+17'KB 4927.0
Section (VS) Reference: Well (0.00N,0.00E,359.88Azi)
Plan: Plan #1b

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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: Peragamos 4-44-7-60
S:4,T:7N,R:60W
Weld County, CO

Site Position:
From: Map
Position Uncertainty: 0.00 ft
Ground Level: 4910.00 ft

Northing: 1463521.27 ft
Easting: 3390683.38 ft

Latitude: 40 35 50.095 N
Longitude: 104 5 35.201 W
North Reference: Grid
Grid Convergence: 0.91 deg

Well: 1-4-44-7-60

Slot Name:

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

Northing: 1463521.27 ft
Easting: 3390683.38 ft

Latitude: 40 35 50.095 N
Longitude: 104 5 35.201 W

Wellpath: Original Hole

Current Datum: 4910'GL+17'KB
Magnetic Data: 04/30/2012
Field Strength: 53252 nT
Vertical Section: Depth From (TVD)
ft

Height 4927.00 ft

+N/-S
ft

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 8.40 deg
Mag Dip Angle: 67.29 deg
+E/-W ft
Direction deg

0.00

0.00

0.00

359.88

Plan: Plan #1b
Add Pilot hole
Principal: No

Date Composed: 03/30/2012
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	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1540.00	0.00	90.00	1540.00	0.00	0.00	0.00	0.00	0.00	90.00	
1940.00	6.00	90.00	1939.27	0.00	20.92	1.50	1.50	0.00	90.00	
5711.18	6.00	90.00	5689.79	0.00	415.12	0.00	0.00	0.00	0.00	
5960.86	30.00	60.00	5925.81	31.71	483.31	10.00	9.61	-12.02	323.68	
6715.86	90.00	0.05	6310.00	586.25	675.80	10.00	7.95	-7.94	-63.39	
10677.09	90.00	0.05	6310.00	4547.48	679.32	0.00	0.00	0.00	0.00	PBHL

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	90.00	1540.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.90	90.00	1600.00	0.00	0.47	0.00	1.50	1.50	0.00	
1700.00	2.40	90.00	1699.95	0.00	3.35	-0.01	1.50	1.50	0.00	
1800.00	3.90	90.00	1799.80	0.00	8.85	-0.02	1.50	1.50	0.00	
1900.00	5.40	90.00	1899.47	0.00	16.95	-0.04	1.50	1.50	0.00	
1940.00	6.00	90.00	1939.27	0.00	20.92	-0.04	1.50	1.50	0.00	
2000.00	6.00	90.00	1998.94	0.00	27.20	-0.06	0.00	0.00	0.00	
2100.00	6.00	90.00	2098.39	0.00	37.65	-0.08	0.00	0.00	0.00	
2200.00	6.00	90.00	2197.85	0.00	48.10	-0.10	0.00	0.00	0.00	
2300.00	6.00	90.00	2297.30	0.00	58.56	-0.12	0.00	0.00	0.00	
2400.00	6.00	90.00	2396.75	0.00	69.01	-0.14	0.00	0.00	0.00	
2500.00	6.00	90.00	2496.20	0.00	79.46	-0.17	0.00	0.00	0.00	
2600.00	6.00	90.00	2595.65	0.00	89.91	-0.19	0.00	0.00	0.00	
2700.00	6.00	90.00	2695.11	0.00	100.37	-0.21	0.00	0.00	0.00	
2800.00	6.00	90.00	2794.56	0.00	110.82	-0.23	0.00	0.00	0.00	

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Peragamos 4-44-7-60
Well: 1-4-44-7-60
Wellpath: Original Hole

Date: 03/30/2012
Co-ordinate(NE) Reference: Well: 1-4-44-7-60, Grid North
Vertical (TVD) Reference: 4910'GL+17'KB 4927.0
Section (VS) Reference: Well (0.00N,0.00E,359.88Azi)
Plan: Plan #1b

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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	90.00	2894.01	0.00	121.27	-0.25	0.00	0.00	0.00	
3000.00	6.00	90.00	2993.46	0.00	131.72	-0.28	0.00	0.00	0.00	
3100.00	6.00	90.00	3092.91	0.00	142.18	-0.30	0.00	0.00	0.00	
3200.00	6.00	90.00	3192.37	0.00	152.63	-0.32	0.00	0.00	0.00	
3300.00	6.00	90.00	3291.82	0.00	163.08	-0.34	0.00	0.00	0.00	
3400.00	6.00	90.00	3391.27	0.00	173.54	-0.36	0.00	0.00	0.00	
3500.00	6.00	90.00	3490.72	0.00	183.99	-0.39	0.00	0.00	0.00	
3600.00	6.00	90.00	3590.18	0.00	194.44	-0.41	0.00	0.00	0.00	
3700.00	6.00	90.00	3689.63	0.00	204.89	-0.43	0.00	0.00	0.00	
3800.00	6.00	90.00	3789.08	0.00	215.35	-0.45	0.00	0.00	0.00	
3900.00	6.00	90.00	3888.53	0.00	225.80	-0.47	0.00	0.00	0.00	
4000.00	6.00	90.00	3987.98	0.00	236.25	-0.49	0.00	0.00	0.00	
4100.00	6.00	90.00	4087.44	0.00	246.71	-0.52	0.00	0.00	0.00	
4200.00	6.00	90.00	4186.89	0.00	257.16	-0.54	0.00	0.00	0.00	
4300.00	6.00	90.00	4286.34	0.00	267.61	-0.56	0.00	0.00	0.00	
4400.00	6.00	90.00	4385.79	0.00	278.06	-0.58	0.00	0.00	0.00	
4500.00	6.00	90.00	4485.25	0.00	288.52	-0.60	0.00	0.00	0.00	
4600.00	6.00	90.00	4584.70	0.00	298.97	-0.63	0.00	0.00	0.00	
4700.00	6.00	90.00	4684.15	0.00	309.42	-0.65	0.00	0.00	0.00	
4800.00	6.00	90.00	4783.60	0.00	319.88	-0.67	0.00	0.00	0.00	
4900.00	6.00	90.00	4883.05	0.00	330.33	-0.69	0.00	0.00	0.00	
5000.00	6.00	90.00	4982.51	0.00	340.78	-0.71	0.00	0.00	0.00	
5100.00	6.00	90.00	5081.96	0.00	351.23	-0.74	0.00	0.00	0.00	
5200.00	6.00	90.00	5181.41	0.00	361.69	-0.76	0.00	0.00	0.00	
5300.00	6.00	90.00	5280.86	0.00	372.14	-0.78	0.00	0.00	0.00	
5400.00	6.00	90.00	5380.32	0.00	382.59	-0.80	0.00	0.00	0.00	
5500.00	6.00	90.00	5479.77	0.00	393.05	-0.82	0.00	0.00	0.00	
5600.00	6.00	90.00	5579.22	0.00	403.50	-0.85	0.00	0.00	0.00	
5700.00	6.00	90.00	5678.67	0.00	413.95	-0.87	0.00	0.00	0.00	
5711.18	6.00	90.00	5689.79	0.00	415.12	-0.87	0.00	0.00	0.00	
5750.00	9.41	75.81	5728.26	0.78	420.23	-0.10	10.00	8.79	-36.56	
5800.00	14.17	68.06	5777.19	4.07	429.87	3.17	10.00	9.51	-15.50	
5850.00	19.04	64.18	5825.09	9.91	442.90	8.98	10.00	9.76	-7.75	
5900.00	23.97	61.85	5871.60	18.26	459.21	17.30	10.00	9.85	-4.67	
5950.00	28.92	60.28	5916.35	29.05	478.68	28.05	10.00	9.90	-3.15	
5960.86	30.00	60.00	5925.81	31.71	483.31	30.70	10.00	9.92	-2.56	
6000.00	31.93	53.37	5959.38	42.78	500.10	41.74	10.00	4.92	-16.93	
6050.00	34.83	45.96	6001.14	60.61	520.98	59.52	10.00	5.80	-14.82	
6100.00	38.12	39.62	6041.36	82.44	541.10	81.30	10.00	6.58	-12.69	
6150.00	41.70	34.17	6079.72	108.10	560.29	106.92	10.00	7.16	-10.89	
6200.00	45.50	29.46	6115.93	137.40	578.42	136.19	10.00	7.61	-9.42	
6250.00	49.47	25.34	6149.72	170.12	595.33	168.88	10.00	7.95	-8.24	
6300.00	53.58	21.69	6180.83	206.01	610.91	204.73	10.00	8.21	-7.30	
6350.00	57.78	18.41	6209.02	244.80	625.03	243.49	10.00	8.41	-6.56	
6400.00	62.06	15.42	6234.08	286.18	637.59	284.85	10.00	8.56	-5.98	
6450.00	66.40	12.66	6255.81	329.85	648.49	328.50	10.00	8.68	-5.52	
6500.00	70.79	10.08	6274.06	375.48	657.65	374.10	10.00	8.77	-5.16	
6550.00	75.21	7.63	6288.68	422.71	665.00	421.31	10.00	8.84	-4.89	
6600.00	79.65	5.29	6299.56	471.19	670.48	469.78	10.00	8.89	-4.70	
6650.00	84.11	3.01	6306.62	520.54	674.05	519.13	10.00	8.92	-4.56	
6700.00	88.58	0.76	6309.81	570.39	675.69	568.98	10.00	8.94	-4.49	
6715.86	90.00	0.05	6310.00	586.25	675.80	584.83	10.00	8.94	-4.47	
6800.00	90.00	0.05	6310.00	670.39	675.88	668.98	0.00	0.00	0.00	

Company: CARRIZO OIL & GAS, INC.
Field: Niobrara CONZ'83
Site: Peragamos 4-44-7-60
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Wellpath: Original Hole

Date: 03/30/2012
Co-ordinate(NE) Reference: Well: 1-4-44-7-60, Grid North
Vertical (TVD) Reference: 4910'GL+17'KB 4927.0
Section (VS) Reference: Well (0.00N,0.00E,359.88Azi)
Plan: Plan #1b

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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
6900.00	90.00	0.05	6310.00	770.39	675.96	768.97	0.00	0.00	0.00	
7000.00	90.00	0.05	6310.00	870.39	676.05	868.97	0.00	0.00	0.00	
7100.00	90.00	0.05	6310.00	970.39	676.14	968.97	0.00	0.00	0.00	
7200.00	90.00	0.05	6310.00	1070.39	676.23	1068.97	0.00	0.00	0.00	
7300.00	90.00	0.05	6310.00	1170.39	676.32	1168.97	0.00	0.00	0.00	
7400.00	90.00	0.05	6310.00	1270.39	676.41	1268.97	0.00	0.00	0.00	
7500.00	90.00	0.05	6310.00	1370.39	676.50	1368.97	0.00	0.00	0.00	
7600.00	90.00	0.05	6310.00	1470.39	676.59	1468.97	0.00	0.00	0.00	
7700.00	90.00	0.05	6310.00	1570.39	676.68	1568.97	0.00	0.00	0.00	
7800.00	90.00	0.05	6310.00	1670.39	676.76	1668.97	0.00	0.00	0.00	
7900.00	90.00	0.05	6310.00	1770.39	676.85	1768.97	0.00	0.00	0.00	
8000.00	90.00	0.05	6310.00	1870.39	676.94	1868.97	0.00	0.00	0.00	
8100.00	90.00	0.05	6310.00	1970.39	677.03	1968.97	0.00	0.00	0.00	
8200.00	90.00	0.05	6310.00	2070.39	677.12	2068.97	0.00	0.00	0.00	
8300.00	90.00	0.05	6310.00	2170.39	677.21	2168.97	0.00	0.00	0.00	
8400.00	90.00	0.05	6310.00	2270.39	677.30	2268.97	0.00	0.00	0.00	
8500.00	90.00	0.05	6310.00	2370.39	677.39	2368.97	0.00	0.00	0.00	
8600.00	90.00	0.05	6310.00	2470.39	677.47	2468.97	0.00	0.00	0.00	
8700.00	90.00	0.05	6310.00	2570.39	677.56	2568.97	0.00	0.00	0.00	
8800.00	90.00	0.05	6310.00	2670.39	677.65	2668.97	0.00	0.00	0.00	
8900.00	90.00	0.05	6310.00	2770.39	677.74	2768.97	0.00	0.00	0.00	
9000.00	90.00	0.05	6310.00	2870.39	677.83	2868.97	0.00	0.00	0.00	
9100.00	90.00	0.05	6310.00	2970.39	677.92	2968.97	0.00	0.00	0.00	
9200.00	90.00	0.05	6310.00	3070.39	678.01	3068.96	0.00	0.00	0.00	
9300.00	90.00	0.05	6310.00	3170.39	678.10	3168.96	0.00	0.00	0.00	
9400.00	90.00	0.05	6310.00	3270.39	678.19	3268.96	0.00	0.00	0.00	
9500.00	90.00	0.05	6310.00	3370.39	678.27	3368.96	0.00	0.00	0.00	
9600.00	90.00	0.05	6310.00	3470.39	678.36	3468.96	0.00	0.00	0.00	
9700.00	90.00	0.05	6310.00	3570.39	678.45	3568.96	0.00	0.00	0.00	
9800.00	90.00	0.05	6310.00	3670.39	678.54	3668.96	0.00	0.00	0.00	
9900.00	90.00	0.05	6310.00	3770.39	678.63	3768.96	0.00	0.00	0.00	
10000.00	90.00	0.05	6310.00	3870.39	678.72	3868.96	0.00	0.00	0.00	
10100.00	90.00	0.05	6310.00	3970.39	678.81	3968.96	0.00	0.00	0.00	
10200.00	90.00	0.05	6310.00	4070.39	678.90	4068.96	0.00	0.00	0.00	
10300.00	90.00	0.05	6310.00	4170.39	678.99	4168.96	0.00	0.00	0.00	
10400.00	90.00	0.05	6310.00	4270.39	679.07	4268.96	0.00	0.00	0.00	
10500.00	90.00	0.05	6310.00	4370.39	679.16	4368.96	0.00	0.00	0.00	
10600.00	90.00	0.05	6310.00	4470.39	679.25	4468.96	0.00	0.00	0.00	
10677.09	90.00	0.05	6310.00	4547.48	679.32	4546.05	0.00	0.00	0.00	PBHL

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		
Surface			0.00	0.00	0.00	1463521.27	3390683.38	40	35	50.095 N	104	5	35.201 W
PBHL			6310.00	4547.48	679.32	1468068.75	3391362.70	40	36	34.918 N	104	5	25.458 W