



Job Number: SWAN-HG-117  
 Company: SWEPI LP  
 Lease/Well: HART GULCH 1-17  
 Location: WILLIAMS FORK UNIT  
 Rig Name:  
 RKB: 0.00 Ft  
 Vertical Datum: MSL

State/Country:  
 Declination: 10.19°E  
 Grid: -1.31;US State Plane 1983  
 Project name: HART GULCH-Project  
 Date/Time: 15-Jul-11 / 15:34  
 Well Name: HART GULCH 1-17 Proposal REV0  
 North Reference: Grid North  
 Convergence: -1.3085°

EXCEL Directional Technologies

**WinSURV3D SURVEY CALCULATIONS**  
*Minimum Curvature Method*  
*Vertical Section Plane 253.91°*  
*Vertical Section Referenced to Wellhead*  
*Local Coordinates Referenced to Structure Reference :*  
*EW=2435282.43 Ft, NS=1362985.85 Ft*  
*Direction referenced to Grid North -1.309° Convergence*

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	LOCALS		Vertical Section Ft	CLOSURE		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>10 3/4 Surface Casing @ 580 Ft MD</b>									
580.00	0.00	0.00	580.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	L O C A L S		Vertical Section Ft	C L O S U R E		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Begin Build @ 4216MD ,6.00% / 100 Ft									
4215.90	0.00	0.00	4215.90	0.00	0.00	0.00	0.00	0.00	0.00
4245.90	1.80	253.91	4245.90	-0.13	-0.45	0.47	0.47	253.92	6.00
4275.90	3.60	253.91	4275.86	-0.52	-1.81	1.88	1.88	253.91	6.00
4305.90	5.40	253.91	4305.77	-1.17	-4.07	4.24	4.24	253.91	6.00
4335.90	7.20	253.91	4335.58	-2.09	-7.23	7.53	7.53	253.91	6.00
4365.90	9.00	253.91	4365.28	-3.26	-11.30	11.76	11.76	253.91	6.00
4395.90	10.80	253.91	4394.84	-4.69	-16.25	16.91	16.91	253.91	6.00
4425.90	12.60	253.91	4424.21	-6.37	-22.10	23.00	23.00	253.91	6.00
4455.90	14.40	253.91	4453.38	-8.31	-28.83	30.00	30.00	253.91	6.00
4485.90	16.20	253.91	4482.32	-10.51	-36.43	37.92	37.92	253.91	6.00
4515.90	18.00	253.91	4510.99	-12.95	-44.91	46.74	46.74	253.91	6.00
4545.90	19.80	253.91	4539.37	-15.65	-54.24	56.45	56.45	253.91	6.00
4575.90	21.60	253.91	4567.43	-18.58	-64.43	67.06	67.06	253.91	6.00
4605.90	23.40	253.91	4595.15	-21.77	-75.46	78.54	78.54	253.91	6.00
4635.90	25.20	253.91	4622.49	-25.19	-87.32	90.88	90.88	253.91	6.00
NIOBRARA									
4660.94	26.70	253.91	4645.00	-28.22	-97.85	101.84	101.84	253.91	6.00
4665.90	27.00	253.91	4649.43	-28.85	-100.00	104.08	104.08	253.91	6.00
4695.90	28.80	253.91	4675.94	-32.74	-113.49	118.12	118.12	253.91	6.00
4725.90	30.60	253.91	4702.00	-36.85	-127.77	132.98	132.98	253.91	6.00
IB1									
4730.56	30.88	253.91	4706.00	-37.51	-130.06	135.36	135.36	253.91	6.00
4755.90	32.40	253.91	4727.58	-41.20	-142.83	148.66	148.66	253.91	6.00
4785.90	34.20	253.91	4752.65	-45.76	-158.66	165.13	165.13	253.91	6.00
4815.90	36.00	253.91	4777.19	-50.54	-175.23	182.37	182.37	253.91	6.00
4845.90	37.80	253.91	4801.18	-55.54	-192.54	200.39	200.39	253.91	6.00
4875.90	39.60	253.91	4824.60	-60.73	-210.56	219.14	219.14	253.91	6.00
4905.90	41.40	253.91	4847.41	-66.13	-229.28	238.63	238.63	253.91	6.00
4935.90	43.20	253.91	4869.59	-71.73	-248.68	258.82	258.82	253.91	6.00
4965.90	45.00	253.91	4891.14	-77.51	-268.74	279.69	279.69	253.91	6.00

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	L O C A L S		Vertical Section Ft	C L O S U R E		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
TOW CREEK									
4985.71	46.19	253.91	4905.00	-81.44	-282.33	293.84	293.84	253.91	6.00
4995.90	46.80	253.91	4912.01	-83.49	-289.43	301.23	301.23	253.91	6.00
7 5/8 Intermed Casing @ 4925 Ft TVD									
5015.08	47.95	253.91	4925.00	-87.40	-302.99	315.34	315.34	253.91	6.00
5025.90	48.60	253.91	4932.20	-89.63	-310.75	323.42	323.42	253.91	6.00
5055.90	50.40	253.91	4951.69	-95.96	-332.67	346.23	346.23	253.91	6.00
5085.90	52.20	253.91	4970.44	-102.45	-355.17	369.65	369.65	253.91	6.00
5115.90	54.00	253.91	4988.45	-109.09	-378.22	393.64	393.64	253.91	6.00
IB2									
5125.40	54.57	253.91	4994.00	-111.23	-385.63	401.35	401.35	253.91	6.00
5145.90	55.80	253.91	5005.70	-115.90	-401.80	418.18	418.18	253.91	6.00
5175.90	57.60	253.91	5022.17	-122.84	-425.89	443.25	443.25	253.91	6.00
5205.90	59.40	253.91	5037.85	-129.93	-450.47	468.83	468.83	253.91	6.00
WOLF MOUNTAIN									
5234.43	61.11	253.91	5052.00	-136.80	-474.26	493.60	493.60	253.91	6.00
5235.90	61.20	253.91	5052.71	-137.16	-475.50	494.89	494.89	253.91	6.00
5265.90	63.00	253.91	5066.75	-144.50	-500.98	521.40	521.40	253.91	6.00
5295.90	64.80	253.91	5079.95	-151.97	-526.86	548.34	548.34	253.91	6.00
5325.90	66.60	253.91	5092.29	-159.55	-553.13	575.68	575.68	253.91	6.00
5355.90	68.40	253.91	5103.77	-167.23	-579.76	603.40	603.40	253.91	6.00
5385.90	70.20	253.91	5114.38	-175.01	-606.72	631.46	631.46	253.91	6.00
5415.90	72.00	253.91	5124.09	-182.87	-633.99	659.84	659.84	253.91	6.00
5445.90	73.80	253.91	5132.91	-190.82	-661.54	688.51	688.51	253.91	6.00
Begin Hold @ 75.00°, 253.91° Azm									
5465.90	75.00	253.91	5138.29	-196.16	-680.05	707.78	707.78	253.91	6.00
Begin Build @ 6.00% 100 Ft									
5565.90	75.00	253.91	5164.17	-222.93	-772.86	804.37	804.37	253.91	0.00
5595.90	76.80	253.91	5171.48	-230.99	-800.81	833.46	833.46	253.91	6.00
5625.90	78.60	253.91	5177.87	-239.11	-828.98	862.77	862.77	253.91	6.00
5655.90	80.40	253.91	5183.34	-247.29	-857.32	892.27	892.27	253.91	6.00
5685.90	82.20	253.91	5187.88	-255.51	-885.81	921.92	921.92	253.91	6.00
5715.90	84.00	253.91	5191.48	-263.77	-914.42	951.71	951.71	253.91	6.00
BASE/MAIN BENCH									
5743.91	85.68	253.91	5194.00	-271.50	-941.22	979.60	979.60	253.91	6.00
5745.90	85.80	253.91	5194.15	-272.05	-943.13	981.59	981.59	253.91	6.00
5775.90	87.60	253.91	5195.87	-280.35	-971.91	1011.53	1011.53	253.91	6.00
5805.90	89.40	253.90	5196.66	-288.66	-1000.72	1041.52	1041.52	253.91	6.00
5835.90	91.20	253.90	5196.50	-296.98	-1029.54	1071.52	1071.52	253.91	6.00
5865.90	93.00	253.90	5195.40	-305.29	-1058.35	1101.50	1101.50	253.91	6.00
'HEEL'; Begin Hold @ 94.32°, 253.90° Azm									
5887.88	94.32	253.90	5194.00	-311.37	-1079.42	1123.43	1123.43	253.91	6.00
5987.88	94.32	253.90	5186.47	-339.02	-1175.23	1223.15	1223.15	253.91	0.00
6087.88	94.32	253.90	5178.94	-366.67	-1271.03	1322.86	1322.86	253.91	0.00
6187.88	94.32	253.90	5171.41	-394.32	-1366.84	1422.58	1422.58	253.91	0.00
6287.88	94.32	253.90	5163.88	-421.96	-1462.65	1522.30	1522.30	253.91	0.00
6387.88	94.32	253.90	5156.35	-449.61	-1558.45	1622.01	1622.01	253.91	0.00

Measured Depth Ft	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	L O C A L S		Vertical Section Ft	C L O S U R E		Dogleg Severity Deg/100
				N-S Ft	E-W Ft		Distance Ft	Direction Deg	
6487.88	94.32	253.90	5148.82	-477.26	-1654.26	1721.73	1721.73	253.91	0.00
6587.88	94.32	253.90	5141.29	-504.91	-1750.07	1821.44	1821.44	253.91	0.00
6687.88	94.32	253.90	5133.76	-532.56	-1845.87	1921.16	1921.16	253.91	0.00
6787.88	94.32	253.90	5126.23	-560.20	-1941.68	2020.88	2020.88	253.91	0.00
6887.88	94.32	253.90	5118.70	-587.85	-2037.48	2120.59	2120.59	253.91	0.00
6987.88	94.32	253.90	5111.17	-615.50	-2133.29	2220.31	2220.31	253.91	0.00
7087.88	94.32	253.90	5103.64	-643.15	-2229.10	2320.02	2320.02	253.91	0.00
7187.88	94.32	253.90	5096.11	-670.79	-2324.90	2419.74	2419.74	253.91	0.00
7287.88	94.32	253.90	5088.58	-698.44	-2420.71	2519.46	2519.46	253.91	0.00
7387.88	94.32	253.90	5081.05	-726.09	-2516.52	2619.17	2619.17	253.91	0.00
7487.88	94.32	253.90	5073.51	-753.74	-2612.32	2718.89	2718.89	253.91	0.00
7587.88	94.32	253.90	5065.98	-781.38	-2708.13	2818.61	2818.61	253.91	0.00
7687.88	94.32	253.90	5058.45	-809.03	-2803.94	2918.32	2918.32	253.91	0.00
PBHL @ 7774 MD / 5052 Ft TVD									
7773.59	94.32	253.90	5052.00	-832.73	-2886.05	3003.78	3003.78	253.91	0.00



# SWEPI LP - SWAN PROJECT

HART GULCH 1-17  
SEC 17 - T4N - R90W  
WILLIAMS FORK UNIT  
MOFFAT COUNTY, CO

## GEODETIC INFORMATION

Grid System: CO83-N Datum: NAD83  
Group: US-SPC83 Units: USFEET  
Surface Location: X = 2435282.43 Y = 1362985.85  
Latitude: 40° 18' 43.54" N  
Longitude: -107° 31' 30.67" W  
Convergence: -1.01° W Scale Factor: 1.0000



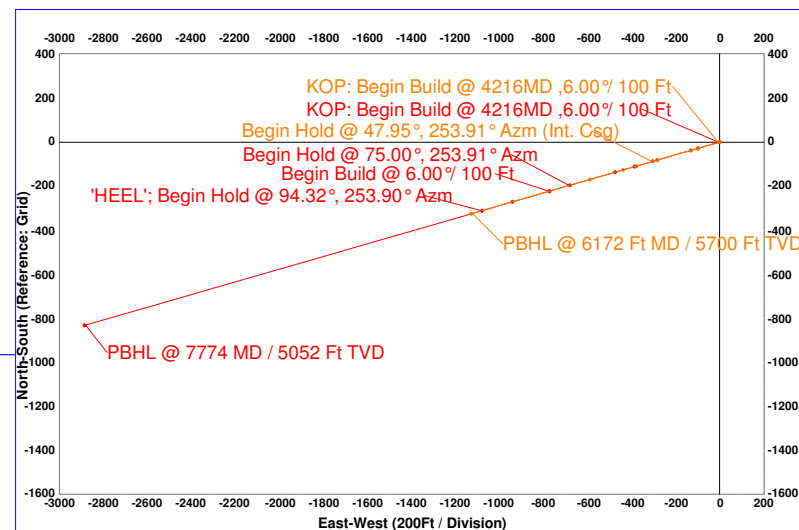
## MAGNETIC INFORMATION

Declination Date: Friday, July 15, 2011  
Model: IGRF 2010  
Total Correction: 11.24° E --> GN = MN + 11.24 : Magnetic to Grid  
Field Strength: 52803 (nt) Mag Dip Angle: 66.49°  
Bx,By,Bz (nt): Bx=20726, By=3740, Bz=48421

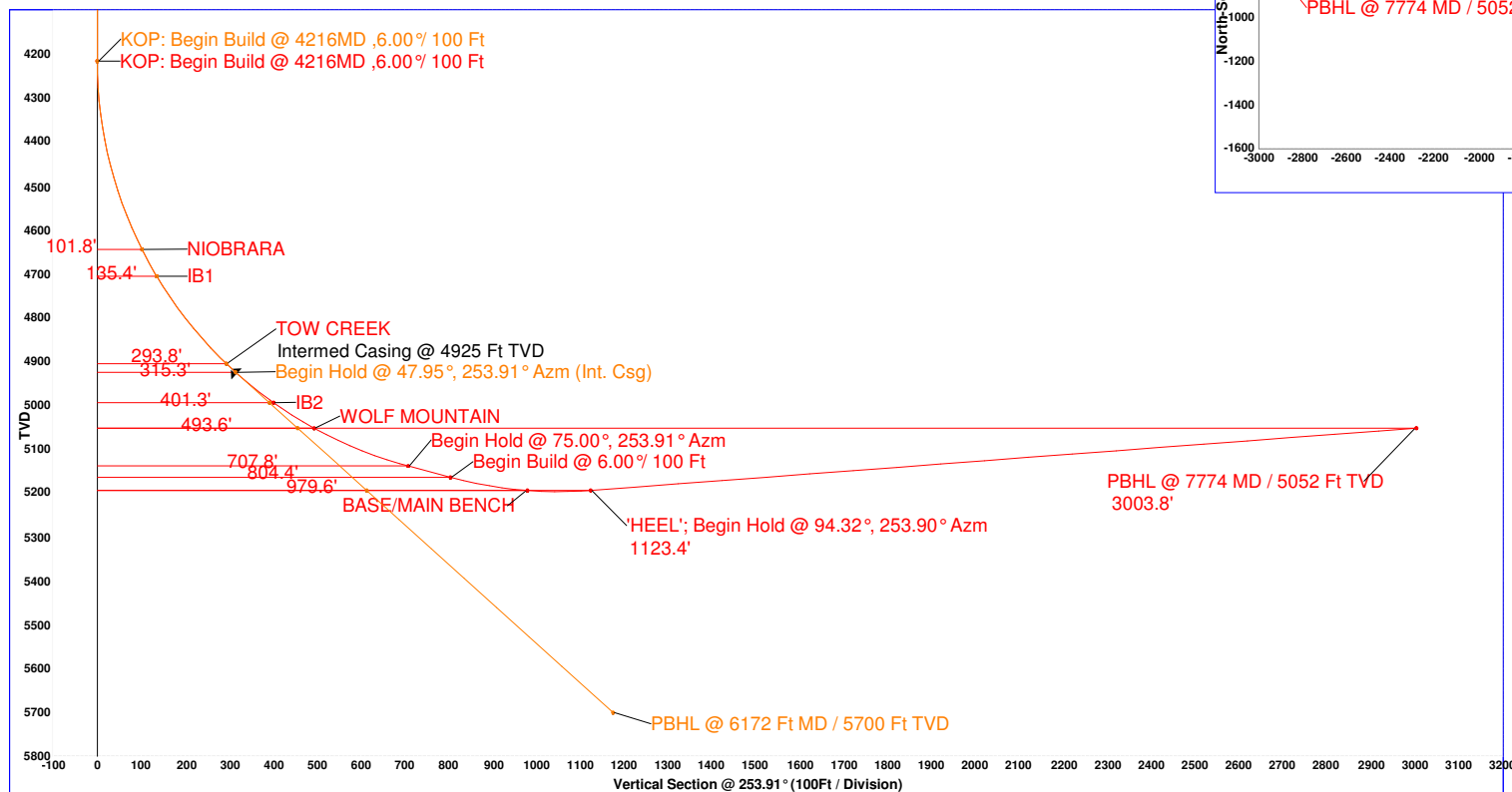
Critical Points for HART GULCH 1-17 PILOT Proposal									
MD Ft	INC Deg	Azm Deg	TVD Ft	NS Ft	EW Ft	VS Ft	DLS	Comments	
580.00	0.00	0.00	580.00	0.00	0.00	0.00	0.00	10 3/4 Surface Casing @ 580 Ft MD	
4215.90	0.00	0.00	4215.90	0.00	0.00	0.00	0.00	KOP: Begin Build @ 4216MD ,6.00% / 100 Ft	
4660.94	26.70	253.91	4645.00	-28.22	-97.85	101.84	6.00	NIOBRARA	
4730.56	30.88	253.91	4706.00	-37.51	-130.06	135.36	6.00	IB1	
4985.71	46.19	253.91	4905.00	-81.44	-282.33	293.84	6.00	TOW CREEK	
5015.08	47.95	253.91	4925.00	-87.40	-302.99	315.34	6.00	Begin Hold @ 47.95°, 253.91° Azm (Int. Csg)	
5118.10	47.95	253.91	4994.00	-108.60	-376.50	391.84	0.01	IB2	
5204.69	47.95	253.91	5052.00	-126.42	-438.28	456.15	0.00	WOLF MOUNTAIN	
5416.71	47.95	253.91	5194.00	-170.05	-589.55	613.58	0.02	BASE/MAIN BENCH	
6172.19	47.95	253.91	5700.00	-325.53	-1128.57	1174.58	0.00	PBHL @ 6172 Ft MD / 5700 Ft TVD	

Critical Points for HART GULCH 1-17 Proposal REV0									
MD Ft	INC Deg	Azm Deg	TVD Ft	NS Ft	EW Ft	VS Ft	DLS	Comments	
580.00	0.00	0.00	580.00	0.00	0.00	0.00	0.00	10 3/4 Surface Casing @ 580 Ft MD	
4215.90	0.00	0.00	4215.90	0.00	0.00	0.00	0.00	KOP: Begin Build @ 4216MD ,6.00% / 100 Ft	
4660.94	26.70	253.91	4645.00	-28.22	-97.85	101.84	6.00	NIOBRARA	
4730.56	30.88	253.91	4706.00	-37.51	-130.06	135.36	6.00	IB1	
4985.71	46.19	253.91	4905.00	-81.44	-282.33	293.84	6.00	TOW CREEK	
5015.08	47.95	253.91	4925.00	-87.40	-302.99	315.34	6.00	7 5/8 Intermed Casing @ 4925 Ft TVD	
5125.40	54.57	253.91	4994.00	-111.23	-385.63	401.35	6.00	IB2	
5234.43	61.11	253.91	5052.00	-136.80	-474.26	493.60	6.00	WOLF MOUNTAIN	
5465.90	75.00	253.91	5164.17	-196.16	-680.05	707.78	6.00	Begin Hold @ 75.00°, 253.91° Azm	
5565.90	75.00	253.91	5164.17	-222.93	-772.86	804.37	6.00	Begin Build @ 6.00% / 100 Ft	
5743.91	85.68	253.91	5194.00	-271.50	-941.22	979.60	6.00	BASE/MAIN BENCH	
5887.88	94.32	253.90	5194.00	-311.37	-1079.42	1123.43	6.00	'HEEL'; Begin Hold @ 94.32°, 253.90° Azm	
7773.59	94.32	253.90	5052.00	-832.73	-2886.05	3003.78	0.00	PBHL @ 7774 MD / 5052 Ft TVD	

PLAN VIEW SCALE = 200 Ft / DIV.



PROPOSED VERTICAL SECTION PLANE: 253.91  
SCALE = 100 Ft / DIV.



**SURFACE LOCATION**  
GL Elevation: 6911' , RKB:  
1577 FSL & 1514' FEL  
Y=1362985.85  
X=2435282.43  
LAT: 40° 18' 43.5399" N  
LONG: -107° 31' 30.6700" W

**'HEEL' (LAND PT) @ 5194.00' TVD**  
1123.43' @ 253.91°  
S:311.37° W:1079.42'  
Y=1362674.48'  
X=2434203.01'  
LAT: 40° 18' 40.2199" N  
LONG: -107° 31' 44.5088" W

**PBHL 'PILOT' @ 6172 Ft MD / 5700' TVD**  
1174.58' @ 253.91°  
S:325.53° W:1128.57'  
Y=1362660.32'  
X=2434153.86'  
LAT: 40° 18' 40.0689" N  
LONG: -107° 31' 45.1389" W

**PBHL 'HZ' REV0 @ 7774 Ft MD / 5052' TVD**  
3003.78' @ 253.91°  
S:832.73° W:2886.05'  
650' FSL & 908' FWL  
Y=1362153.12'  
X=2432396.38'  
LAT: 40° 18' 34.6599" N  
LONG: -107° 32' 7.6700" W

Rig:

Report Date: Thursday, July 21, 2011



## WFU Hart Gulch 1-17

T4N, R90W, Sec 17

### Wellbore Diagram

Updated: 7/22/2011  
Location: Section 17 Township 4N Range 90W Moffat County, Colorado  
Unit: Williams Fork Unit  
API Number: Pending  
Target Zone: Niobrara Shale  
Elevation: 6911 GL  
6923.5 KB

#### Surface Section

Hole: 13-1/2"  
Depth: 500' MD  
Casing: 10-3/4" 40.5# J-55, ST&C  
Cement Top: Surface  
Mud Weight: 8.4 ppg

#### Intermediate Section

Hole: 9-7/8"  
Depth: 5015' MD / 4925' TVD  
Casing: 7-5/8", 29.7#, P-110 LT&C  
Cement Top: 4400' MD/ 4395' TVD  
Mud Weight: AIR DRILLED (5.2 ppg)  
Contingency Aerated Water (5.2ppg)

#### Directional Hole Sections

##### Pilot Hole

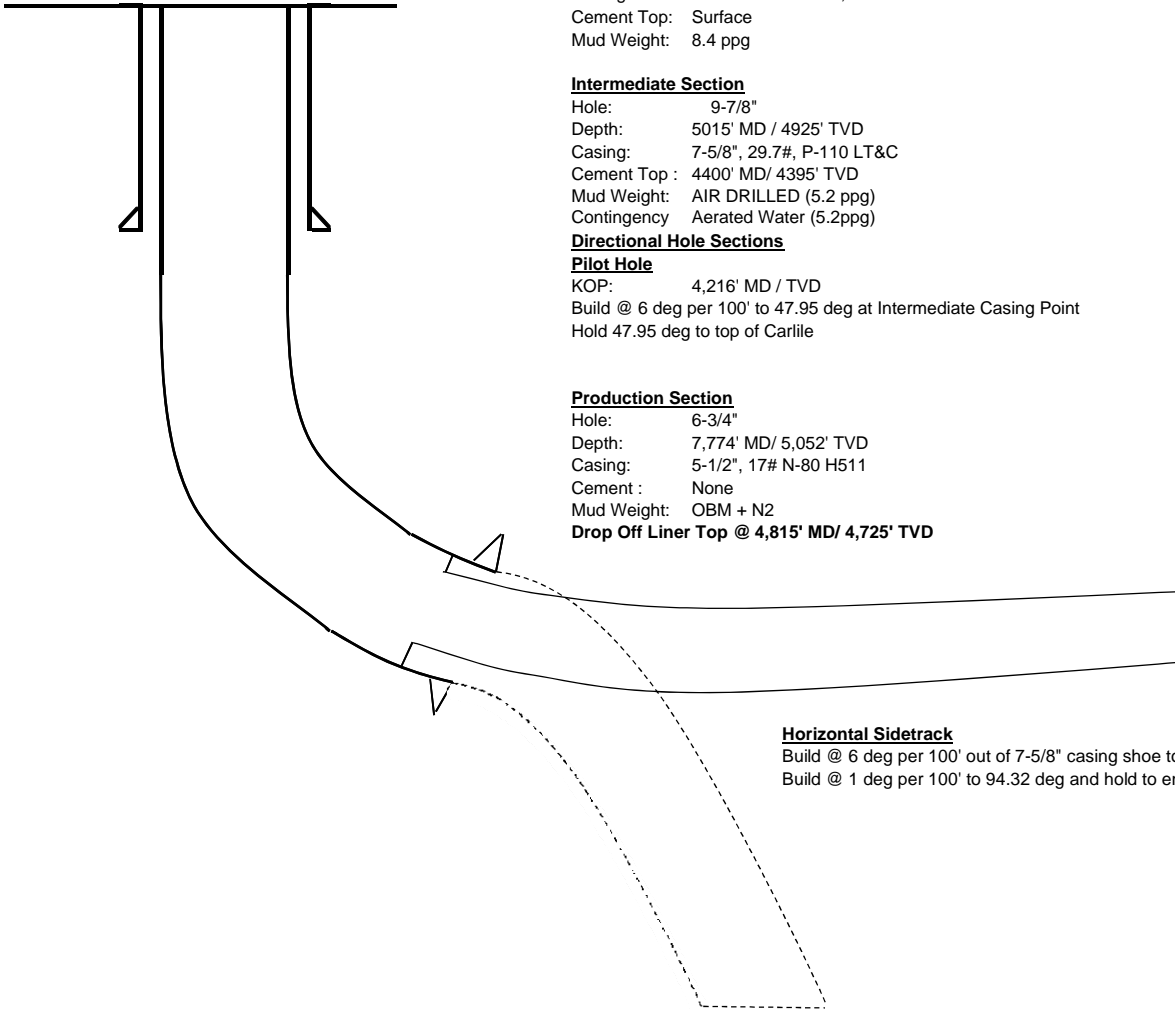
KOP: 4,216' MD / TVD  
Build @ 6 deg per 100' to 47.95 deg at Intermediate Casing Point  
Hold 47.95 deg to top of Carlie

#### Production Section

Hole: 6-3/4"  
Depth: 7,774' MD/ 5,052' TVD  
Casing: 5-1/2", 17# N-80 H511  
Cement: None  
Mud Weight: OBM + N2  
**Drop Off Liner Top @ 4,815' MD/ 4,725' TVD**

#### Horizontal Sidetrack

Build @ 6 deg per 100' out of 7-5/8" casing shoe to land horizontal  
Build @ 1 deg per 100' to 94.32 deg and hold to end of section



## Drilling and Completion Plan – Pilot and Horizontal Hole

This well is a “toe-up” horizontal well with a pilot hole. See attached directional plan for well.

The surface hole will be 13-1/2” with a 10-3/4” casing cemented from the bottom to the surface. The intermediate hole will be a 9-7/8” with a 7-5/8” casing. The production section will be a 6-3/4” hole with a 5-1/2” casing. Depths of casing strings will vary by hole and are detailed on Form 2. All casing will be new, range 3 casing.

After setting 7-5/8” intermediate casing on this well, a slant pilot hole will be drilled penetrating the Niobrara, into the underlying Carlisle formation. After obtaining appropriate geological data from the pilot hole, the main lateral borehole will be sidetracked away from the pilot hole and drilled to TD.

The purpose of the pilot hole is to obtain subsurface data that cannot easily be obtained in the horizontal production section. The pilot hole provides the following:

- Wellbore for obtaining core samples
- The slant trajectory of pilot hole is preferred for open hole logs over the toe-up horizontal section
- Formation data obtained from the pilot hole greatly improves accuracy of depth control during drilling of the subsequent horizontal section.

Due to the under-pressured nature of the target reservoir, the pilot hole will not be plugged. As a contingency for directional concerns, the pilot hole may be filled with sand.

Completion of the main horizontal (lateral) borehole will consist of an open-hole section covered by a perforated or slotted liner run to the well TD by the drilling rig. The producing interval will be the Niobrara Formation and will start below the intermediate casing string set point near the top of the Niobrara Formation. If drilling with casing is required, a contingency will be to perforate the liner once landed in the well.

Artificial lift will consist of a sucker rod and pump jack system. The tubing will be run near the low spot of the well, the “heel”, and anchored above the producing interval. The sucker rods will be run with the pump set near the end of the tubing. All tubing and sucker rod equipment will be run with a workover rig or the drilling rig, each with a BOP package and a kill weight completion fluid system. Fracing or additional stimulation methods are not anticipated to be necessary. The surface pump unit will initially be a rental system to test the well, with a permanent pump jack unit being installed at a later date.