



SWEPI LP - SWAN PROJECT

END of WELL PLOT: PROPOSED vs. ACTUAL

DURHAM 1-31
SEC 31 - T5N - R90W
WILLIAMS FORK UNIT
MOFFAT COUNTY, CO

GEODETIC INFORMATION

Grid System: CO83-N Datum: NAD83
Group: US-SPC83 Units: USFEET
Surface Location: X = 2432936.68 Y = 1371551.02
Latitude: 40° 20' 07.63" N
Longitude: -107° 32' 03.48" W
Convergence: -1.30° W Scale Factor: 1.0000



MAGNETIC INFORMATION

Declination Date: Tuesday, September 27, 2011
Model: IGRF 2010
Total Correction: 11.50° E --> GN = MN + 11.50 : Magnetic to Grid
Field Strength: 52794 (nt) Mag Dip Angle: 66.50°
Bx,By,Bz (nt): Bx=20715, By=3730, Bz=48417

Critical Points for DURHAM 1-31 Proposal REV1 (11-01-11)									
MD Ft	INC Deg	Azm Deg	TVD Ft	NS Ft	EW Ft	VS Ft	DLS	Comments	
3371.00	48.50	0.20	3234.38	443.74	2.81	443.72		TIE IN @ 3371; Proj to Csg Pt	
3419.00	49.00	0.20	3266.03	479.83	2.94	479.81	1.04	Proj 100'; Begin Hold @ 49.00°, 0.20° Azm	
3519.00	49.00	0.20	3331.63	555.30	3.20	555.28	0.00	Begin Build and Turn @ 3519MD ,5.49°/ 100 Ft	
3992.66	75.00	359.60	3552.10	969.94	2.21	969.91	5.49	Begin Hold @ 75.00°, 359.60° Azm	
4092.66	75.00	359.60	3577.99	1066.53	1.53	1066.51	0.00	Begin Build @ 5.00°/ 100 Ft	
4392.66	90.00	359.60	3617.03	1363.10	-0.54	1363.09	5.00	HEEL; Begin Build @ 4393MD ,1.00°/ 100 Ft	
4577.19	91.85	359.58	3614.06	1547.59	-1.86	1547.59	1.00	Begin Hold @ 91.85°, 359.58° Azm	
6566.63	91.85	359.58	3550.00	3535.95	-16.45	3535.99	0.00	PBHL @ 6567 MD / 3550 Ft TVD	

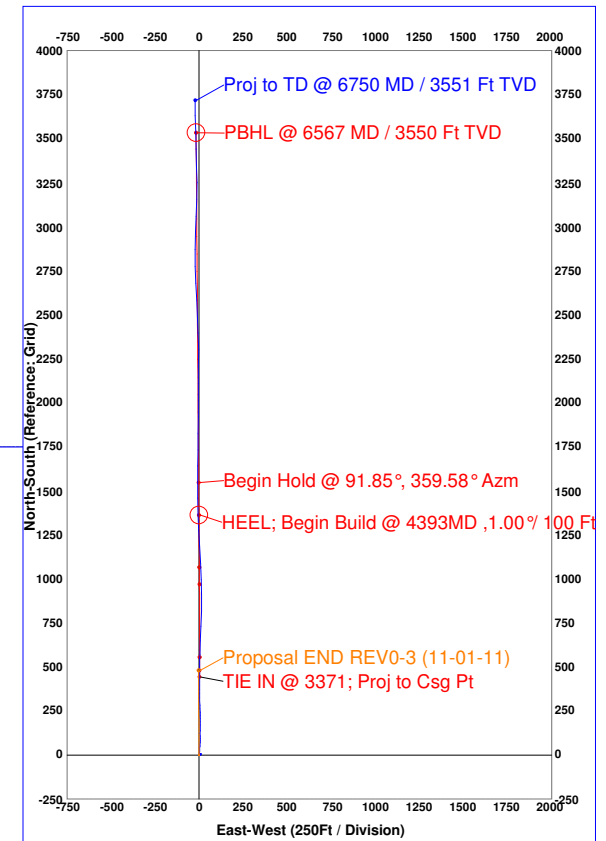
Critical Points for DURHAM 1-31 Proposal REV0-3 (10-04-11)									
MD Ft	INC Deg	Azm Deg	TVD Ft	NS Ft	EW Ft	VS Ft	DLS	Comments	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	10 3/4 Surface Casing @ 700 Ft MD	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	KOP1: Begin Build @ 2400MD ,6.00°/ 100 Ft	
3200.00	48.00	359.73	3109.65	315.95	-1.49	315.96	6.00	Begin Hold @ 48.00°, 359.73° Azm	
3260.30	48.00	359.73	3150.00	360.77	-1.70	360.77	0.00	7 5/8 Intermed Casing @ 3150 Ft TVD	
3360.30	48.00	359.73	3216.91	435.08	-2.05	435.08	0.00	KOP2: Begin Build @ 6.20°/ 100 Ft	
3795.78	75.00	359.73	3422.79	814.25	-3.84	814.26	6.20	Begin Hold @ 75.00°, 359.73° Azm	
3895.78	75.00	359.73	3448.67	910.85	-4.29	910.86	0.00	Begin Build @ 5.09°/ 100 Ft	
4190.28	90.00	359.73	3487.00	1201.99	-5.66	1202.00	5.09	HEEL; Begin Build @ 1.00°/ 100 Ft	
4414.52	92.24	359.74	3482.61	1426.16	-6.71	1426.18	1.00	Begin Hold @ 92.24°, 359.74° Azm	
6525.94	92.24	359.74	3400.00	3535.95	-16.45	3535.99	0.00	PBHL @ 6525 MD / 3400 Ft TVD	

EXCEL Job No. HMLCO-11-09010

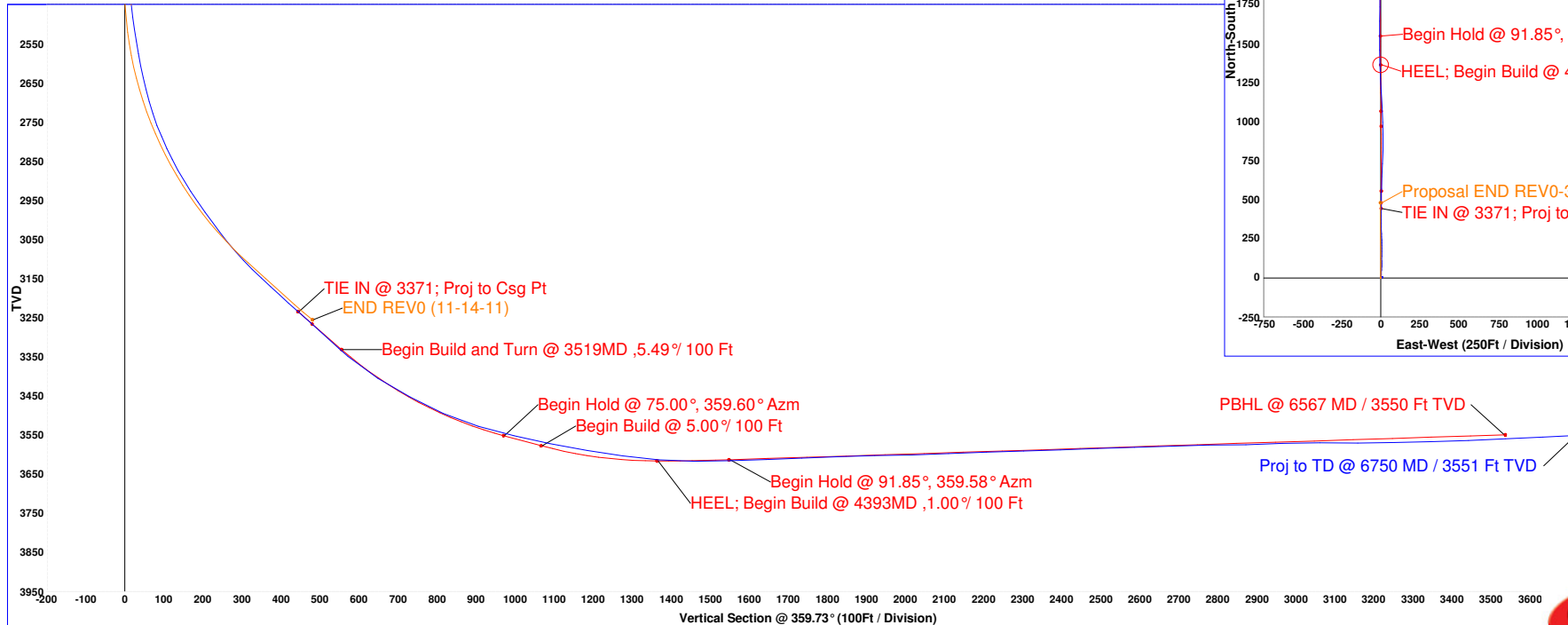
SURFACE LOCATION
GL Elevation: 6698' RKB: 1363.10' @ 359.98°
47° FSL & 2045' FEL N:1363.10' W:0.54'
Y=1371551.02' Y=1372914.12'
X=2432936.68' X=2432936.14'
LAT: 40° 20' 7.6300" N LAT: 40° 20' 21.0967" N
LONG: -107° 32' 3.4801" W LONG: -107° 32' 3.8908" W

Proj to TD @ 6750 MD / @ 3551.23' TVD
3720.33' @ 359.67°
N:3720.27' W:21.44'
Y=1375271.29'
X=2432915.24'
LAT: 40° 20' 44.3798" N
LONG: -107° 32' 4.8591" W

PLAN VIEW SCALE = 250 Ft / DIV.



PROPOSED VERTICAL SECTION PLANE: 359.73
SCALE = 100 Ft / DIV.



Rig: Nabors C-94

Report Date: Monday, November 14, 2011

