5500-PM-OG0002-DWG Rev. 09/2008

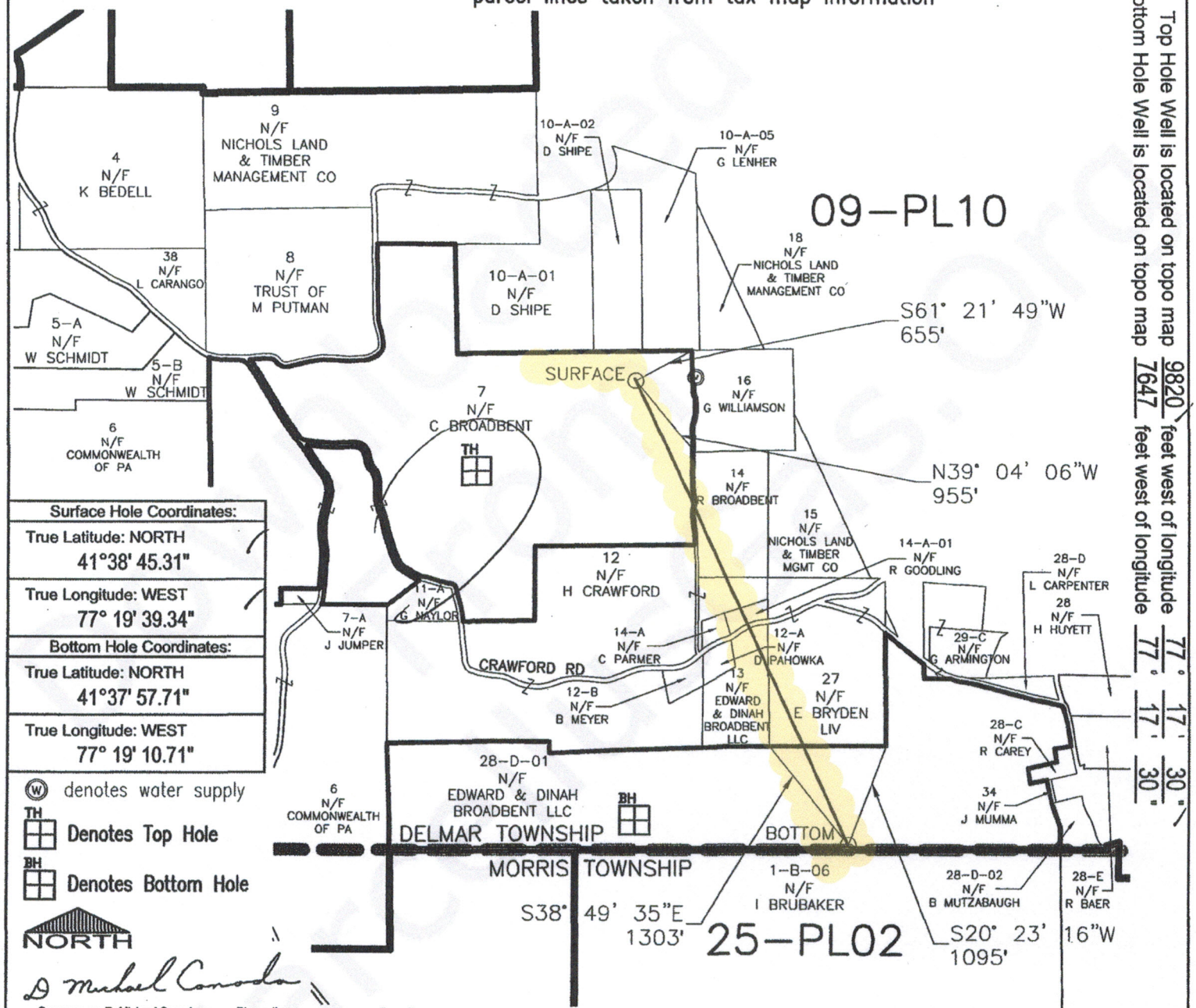
pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Oil and Gas Management Program
WELL LOCATION PLAT

DEP Application Tracking #:	G: MM 12/6/11
Permit #: 117-21414	C:
Project #:	

Top Hole Well is located on topo map 7559 feet south of latitude 41 ° 40 ' 00 "
Bottom Hole Well is located on topo map 12377 feet south of latitude 41 ° 40 ' 00 "
parcel lines taken from tax map information

Top Hole Well is located on topo map 9820 feet west of longitude 77 ° 17 ' 30 "
Bottom Hole Well is located on topo map 7647 feet west of longitude 77 ° 17 ' 30 "



Surface Hole Coordinates:
True Latitude: NORTH
41°38' 45.31"
True Longitude: WEST
77° 19' 39.34"
Bottom Hole Coordinates:
True Latitude: NORTH
41°37' 57.71"
True Longitude: WEST
77° 19' 10.71"

W denotes water supply
TH Denotes Top Hole
BH Denotes Bottom Hole

D Michael Canada

Surveyor or Engineer: D. Michael Canada Pa. Lic. # SU029272 E Phone #: (716) 379-7918
Dwg. #: 20100113TROY466
Date: NOV 1, 2011
Scale: 1" = 1500'
Tract Acreage: 268

Lat. & Long Metadata Method: RTK GPS Accuracy: ± 5 ft. Datum: NAD 83
Elevation Metadata Method: GPS Accuracy: ± 5 ft. Datum: NAD 83 Survey Date: JAN 13, 2010

Applicant / Well Operator Name: SWEPI LP
DEP ID#: 284309
Well(Farm) Name: BROADBENT, C
Well #: 466-5HB
Serial #:
Address: 190 Thorn Hill Road, Warrendale, PA 15086
County - Code: TIOGA
Municipality: DELMAR
Well Type: Horizontal
Surface Landowner / Lessor: BROADBENT, CAROL S TRUSTEE
USGS 7 1/2 Quadrangle Map Name: ANTRIM
Map Section: 8
Surface Elevation: 2052 ft.
Target Formation(s): Burket Shale
Angle & Course of Deviation (Drilling): S24° 34' 04" E 5285'
Anticipated Total Depth TVD: 6506 TMD: 11,388

WILLIAMSON, GLEN D & ELIZABETH S	N86° 44' 16" E 622'	NONE	
			DEC 07 2011
			ENVIRONMENTAL PROTECTION NORTHWEST REGIONAL OFFICE