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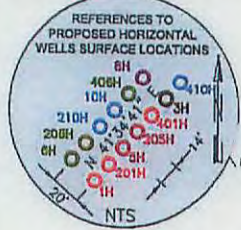
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,810.708 EASTING: 531,105.246
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,426,676.766 EASTING: 531,885.235
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,424,409.653 EASTING: 532,929.699

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

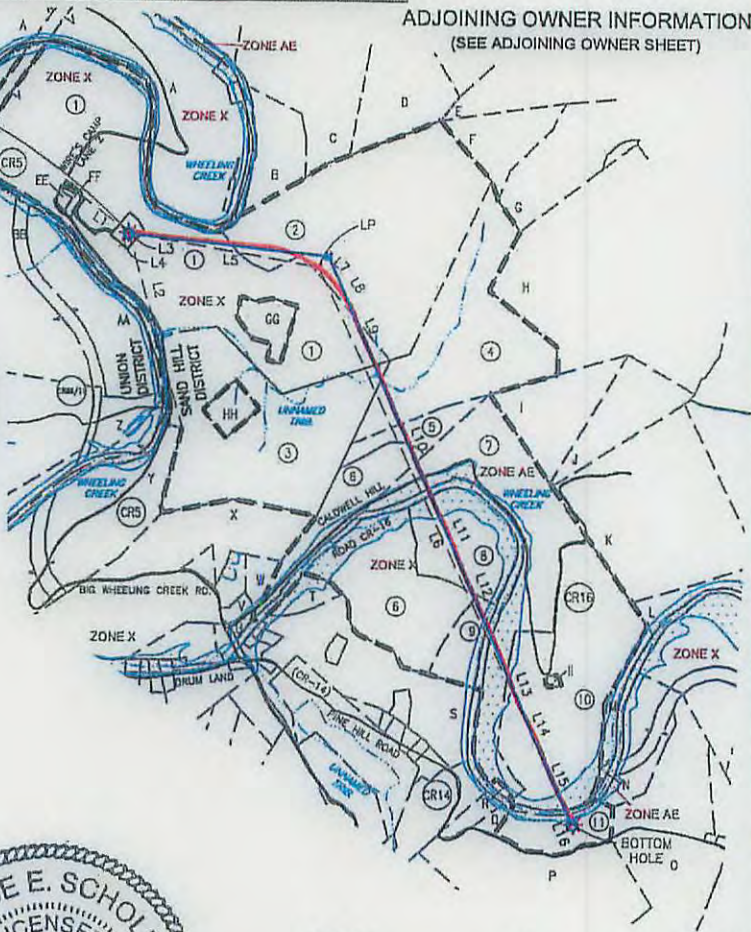
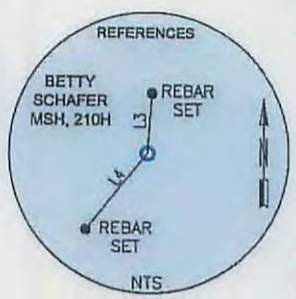
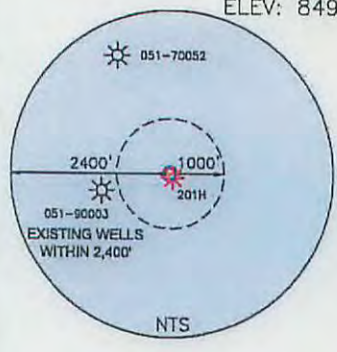
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 52°19'50" W	775.67'	SHL TO LANDMARK	
L2	S 15°38'31" E	2705.27'	SHL TO LANDMARK	
L3	N 06°31'10" E	103.86'	SHL TO REF. PNT.	1/2"Ø REBAR SET
L4	S 34°55'18" W	228.35'	SHL TO REF. PNT.	1/2"Ø REBAR SET
L5	S 80°15'35" E	2596.35'	SHL TO LP	
L6	S 24°44'08" E	8189.41'	LP TO BHL	
L7	S 44°14'32" E	378.53'	ASDRILLED BORE	
L8	S 32°46'11" E	284.89'	ASDRILLED BORE	
L9	S 23°26'52" E	633.84'	ASDRILLED BORE	
L10	S 23°25'13" E	2338.64'	ASDRILLED BORE	
L11	S 26°06'00" E	366.94'	ASDRILLED BORE	
L12	S 23°05'12" E	1980.11'	ASDRILLED BORE	
L13	S 19°49'44" E	378.70'	ASDRILLED BORE	
L14	S 24°05'02" E	1419.66'	ASDRILLED BORE	
L15	S 26°06'19" E	189.99'	ASDRILLED BORE	
L16	S 23°18'30" E	215.93'	ASDRILLED BORE	

2,968'
Latitude: 40°00'00"
Longitude: 80°37'30"

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	BETTY JANE SCHAFFER, LIFE ESTATE; ROY ALVIN SCHAFFER, REMAINDERMAN; EDWARD J. SCHAFFER, REMAINDERMAN	12-09-00220000	±205.06
2	CHARLES B. AND CARLA S. FISHER	12-08-00200000	±132.66
3	OLIVE P. GROSKOPF	12-10-00010002	±85.43
4	CALVIN C. MERINAR	12-09-00190000	±85.50
5	CALVIN C. MERINAR	12-10-00070000	±13.40
6	GEETA	15-01-00020000	±82.91
7	KENNETH L. MERINAR ET AL	12-10-00090000	±90.09
8	DOUGLAS FINTEL	15-01-00020001	±41.30
9	ROBERT E. AND DEBRA A. BAUER	15-01-00020002	±10.79
10	GLENN M. HICKEY	12-10-00080000	±29.03
11	KENNETH L. MERINAR ET AL	15-01-00060003	±13.96

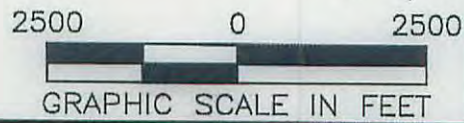
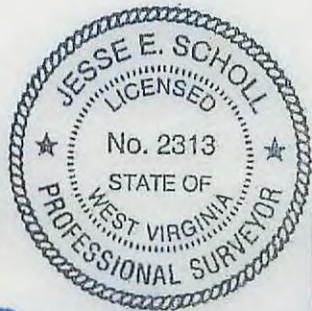


SWN PRODUCTION COMPANY, LLC
"BETTY SCHAFFER MSH, 210H"
SURFACE HOLE
ELEV: 849.00' (AS-DRILLED)



ADJOINING OWNER INFORMATION
(SEE ADJOINING OWNER SHEET)

- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.



I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2313

COMPANY: **SWN** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: BETTY SCHAFFER MSH</p> <p>OPERATOR'S WELL #: 210H</p> <p>API WELL #: 47 51 01777</p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: MIDDLE OHIO NORTH</p> <p>DISTRICT: SAND HILL COUNTY: MARSHALL</p> <p>SURFACE OWNER: SCHAFFER, BETTY JANE</p> <p>OIL & GAS ROYALTY OWNER: SCHAFFER, BETTY JANE</p> <p>DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,097' TVD 16,416' TVD</p>	<p>ELEVATION: ±849.00 (AS-DRILLED)</p> <p>QUADRANGLE: MOUNDSVILLE, WV-OH</p> <p>ACREAGE: ±205.06</p> <p>ACREAGE: ±205.06</p>

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378	CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE: 12-29-2015
PROPOSED SURFACE HOLE / BOTTOM HOLE	PERMITTED DHP	DRAWN BY: B. HERMAN
EXISTING/PRODUCING WELLHEAD/BOTTOM HOLE	TIE LINE	SCALE: 1" = 2500'
ABANDONED WELL	LEASE BOUNDARY	DRAWING NO: 087569000
PLUGGED & ABANDONED WELL	AS-DRILLED DHP	WELL LOCATION PLAT
CUT CONDUCTOR	ABANDONED PATH	