

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

NOTES ON SURVEY

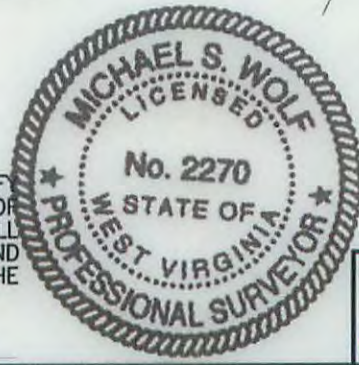
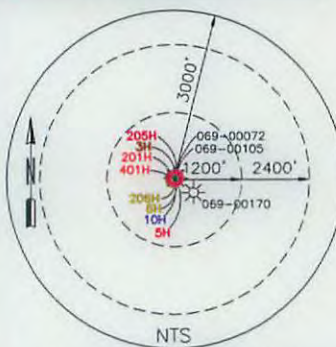
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT 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.

TRACT	ADJOINER	PARCEL
A1	COUCH TRUST	3-L4011000010000
A2	TALLMON	3-L4011300000000
A3	GILBERT	3-L4011200000000
A4	MCGILMURPHY	3-L4011000030000

LINE	DESCRIPTION	DISTANCE	DESCRIPTION	MONUMENT
L1	N 30°04'12" E	34.66'	SHL TO 069-00072	EXISTING WELL HEAD
L2	N 65°37'58" E	42.13'	SHL TO 069-00105	EXISTING WELL HEAD
L3	S 75°18'55" W	1588.66'	SHL TO LANDMARK	IRF FOUND
L4	N 87°42'32" W	1705.36'	SHL TO LANDMARK	IRF FOUND
L5	S 33°01'33" W	889.79'	SHL TO LP	LANDING POINT
L6	S 18°15'05" E	9021.03'	LP TO BHL	BOTTOM HOLE

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	SHAWN W. COUCH TRUST (S) GEORGE W. COUCH (R)	3-L4011000000000	121.56
2	MICHAEL J. MILLER AND PENELOPE T. MILLER (S/R)	3-L4011700000000	139.51
3	KEVIN L. KIMMINS AND RHONDA L. KIMMINS (S/R)	3-L4011800000000	33.39
4	EDWARD LOUIS STUPAK AND BRENDA W. STUPAK (S/R) JAMES & HELEN LOEW (R)	3-L4011800010000	23.60
5	HERBERT P. MINCH AND CAROL A. MINCH (S/R)	3-L4012000000000	198.35
6	RICHARD J. SCHNELLE AND CALVIN W. SCHNELLE (S/R)	3-L7000500010000	4.81
7	RICHARD J. SCHNELLE AND CALVIN W. SCHNELLE (S/R)	3-L7000800000000	2.00
8	JAMES M. MILLER AND LACEY A. MILLER (S/R)	3-L7000900030000	5.59
9	MIL H. CRISWELL (S) BETTY JANE MYERS (R)	3-L7000600030000	27.08
10	COREY M. SOBOTA (S/R)	3-L8002400000000	24.30
11	JOHN L. SMITH II AND JOAN MARIE SMITH A/K/A JOAN M. SMITH (S/R)	3-L7004800000000	120.49

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,243.093 EASTING: 535,035.664
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,015.705 EASTING: 534,887.851
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,441,404.421 EASTING: 535,748.998



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. 2270 *M.S. Wolf* 1/13/16

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC
OPERATOR'S WELL #: SHAWN COUCH OHI 6H
API WELL #: 47 STATE 069 COUNTY PERMIT 0020516

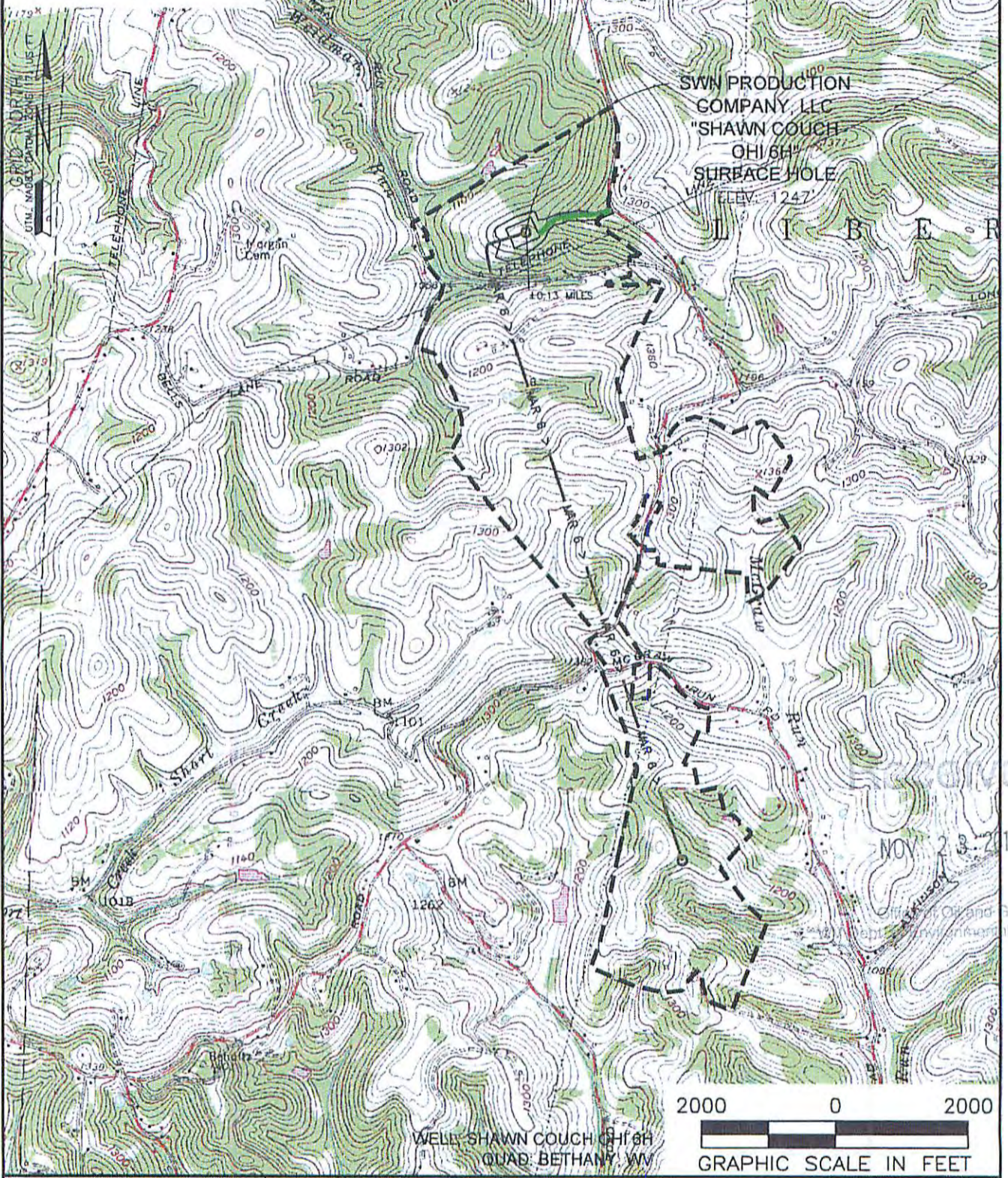
WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: WEIDMANS RUN ELEVATION: 1247
DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY
SURFACE OWNER: SHAWN W. COUCH TRUST ACREAGE: 121.56
OIL & GAS ROYALTY OWNER: GEORGE W. COUCH ACREAGE: 121.56
DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) **01/22/2016**
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,187 TVD 15,589 TMD

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: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊙ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	REVISIONS:	DATE: 11-16-2015
--- LEASE BOUNDARY --- 500' DHP BUFFER --- MAR 6 --- MARCELLUS DHP --- ABANDONED PATH		DRAWN BY: K. POTH SCALE: 1" = 2000' DRAWING NO: 050-5635 WELL LOCATION PLAT

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NAME AND DISTANCE TO THE NEAREST STREAM: UNNAMED TRIBUTARY OF WEIDMAN RUN IS LOCATED ±0.13 MILES SW OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.1457406 / LONG: -80.5904047 B. LAT: 40.1413056 / LONG: -80.5885284		COMPANY: 	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S SHAWN COUCH			
FEMA FLOOD INFORMATION: NO FLOOD ZONES.		WELL #: 6H		LOCATION: LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ● EXISTING / PRODUCING WELLHEAD ○ ABANDONED WELL ○ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		● EXISTING SPRING ● EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.147802° LONGITUDE: -80.588665	
		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.122197° LONGITUDE: -80.580448°		REVISIONS: _____ _____ _____	
		DATE: 11-05-2015		DATE: 01/22/2016	
		DRAWN BY: K. POTH		SCALE: 1" = 2000'	
		DRAWING NO: 050-5635		TOPOGRAPHIC MAP	