

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 825 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.

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

Latitude: 40°02'30"

SHL 13,642'

BHL 11,437'

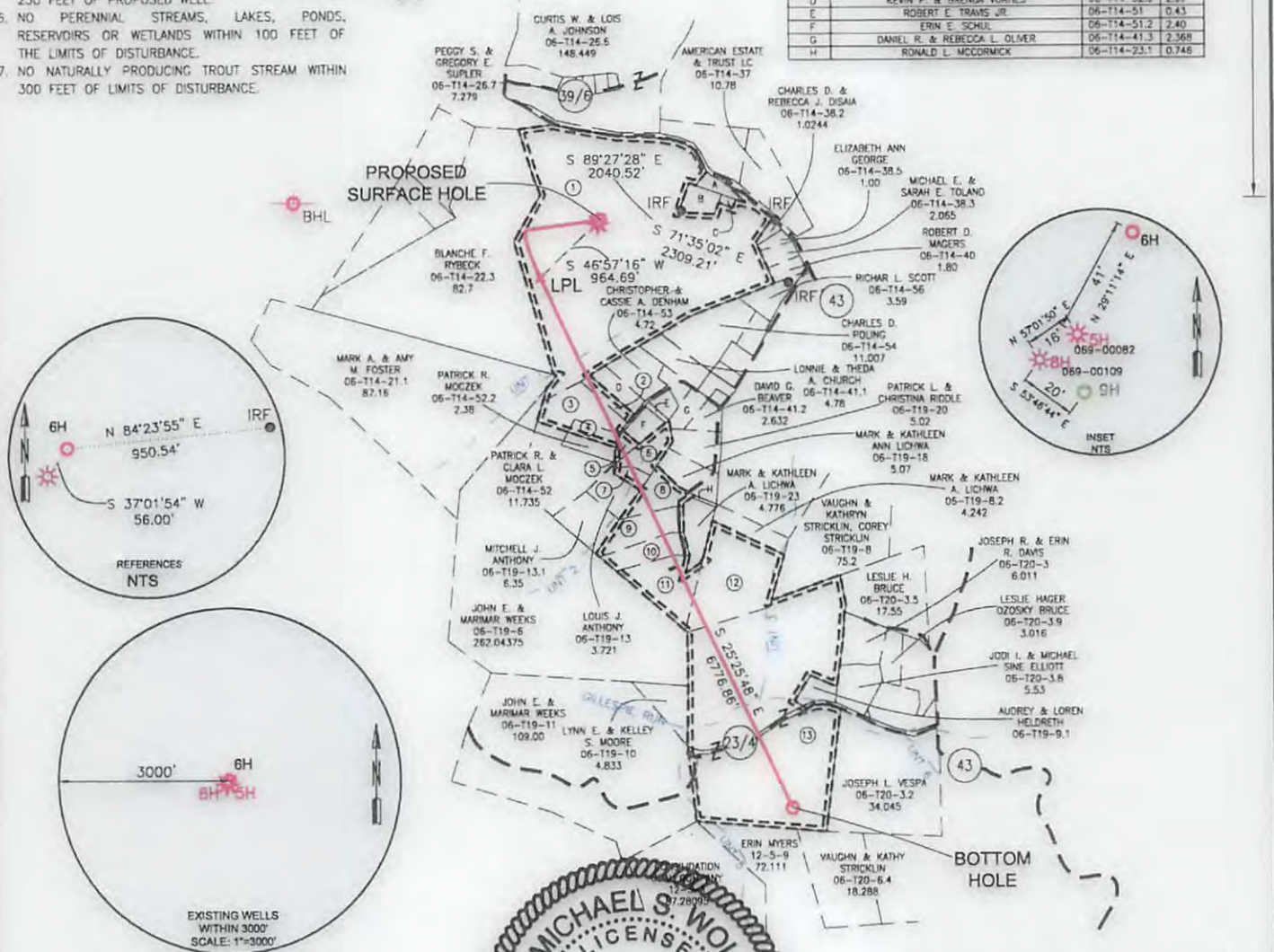
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,432,274.182
EASTING: 538,607.918

LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,432,073.477
EASTING: 538,393.030

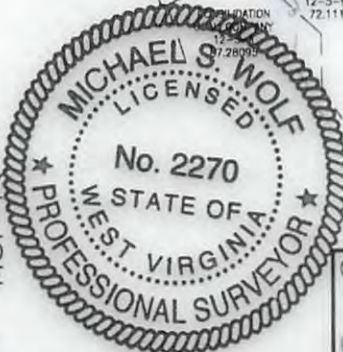
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,430,208.021
EASTING: 539,280.015

WELL BORE TABLE FOR SURFACE & ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	CECIL L., LAWRENCE G., JOHN M. & CAROL S. HICKMAN	06-114-38	143.53
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	KEVIN P. & BRENDA VORHES	06-114-52.4	2.00
3	ERIN E. SCHUL	06-114-52.5	7.256
4	PRESTON R. MOCZEK	06-114-52.1	2.051
5	ERIN E. SCHUL	06-114-51.1	1.03
6	CHRISTOPHER D. STRAIT	06-119-13.3	4.176
7	JEREMY L. DVORCEK	06-119-13.2	6.06
8	DAVID E. YAHN	06-119-21	5.05
9	MARK F. & KATHLEEN A. LICHWA	06-119-19	5.00
10	MARK F. LICHWA	06-119-22	5.00
11	KATHLEEN A. LICHWA	06-119-24	10.00
12	MARK & KATHY LICHWA	06-119-8.1	19.65
13	HERBERT & ALICE SHARP	06-119-9	101.555

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	MARK JOHN HICKMAN	06-114-38.6	1.297
B	MARK JOHN HICKMAN	06-114-38.7	2.876
C	GLEN ALAN & REBECCA LYNN MENCER	06-114-38.1	1.00
D	KEVIN P. & BRENDA VORHES	06-114-52.3	2.99
E	ROBERT E. TRAVIS JR.	06-114-51	0.43
F	ERIN E. SCHUL	06-114-51.2	2.40
G	DANIEL R. & REBECCA L. OLIVER	06-114-41.3	2.368
H	RONALD L. MCCORMICK	06-114-23.1	0.748



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

COMPANY: **SWN** Production Company, LLC

(+) 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 GRADE GPS ELEVATION: (NAVD 88, US FT)

MARK HICKMAN OHI

OPERATOR'S WELL #: 6H

API WELL #: 47 69 00249

STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: WHEELING CREEK ELEVATION: 1281.4'

DISTRICT: TRIADELPHIA COUNTY: OHIO QUADRANGLE: VALLEY GROVE

SURFACE OWNER: LAWRENCE G., JOHN M. & CAROL S. HICKMAN ACREAGE: ± 143.53

OIL & GAS ROYALTY OWNER: CECIL LEE HICKMAN, JOHN MARK HICKMAN, LAWRENCE GRANT HICKMAN, CAROL SUE (CRISWELL) HICKMAN ACREAGE: ± 312.358

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,795' TVD 13,867' 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 SURVEYED BOUNDARY

EXISTING / PRODUCING WELLHEAD DRILLING UNIT

LPL* LANDING POINT LOCATION == LEASE BOUNDARY

EXISTING WATER WELL --- PROPOSED PATH

EXISTING SPRING

REVISIONS: DATE: 10-19-2017

DRAWN BY: R.DOERR

SCALE: 1" = 2000'

DRAWING NO: 050-5494

WELL LOCATION PLAT

SHL 13642'

Latitude: 40°02'30"

11437'

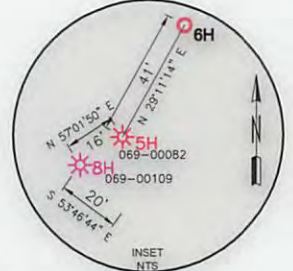
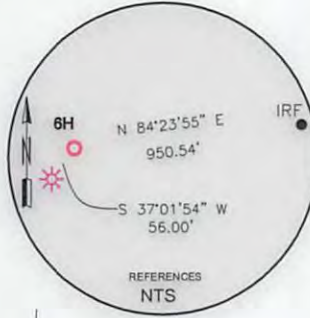
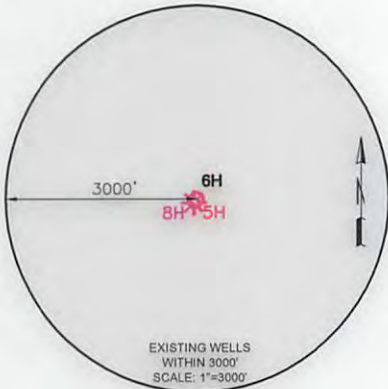
BHL 7223'

Longitude: 80°30'00" SHL 444'

THRASHER

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

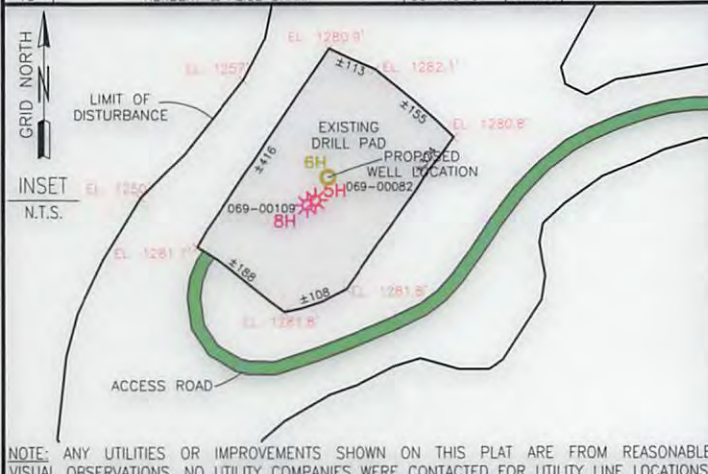
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



SURFACE HOLE LOCATION (SHL):	BHL
GEOGRAPHIC (NAD83):	
LATITUDE: 40.039813°	
LONGITUDE: -80.547441°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,541,552.880	
EASTING: 1,767,082.810	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,432,274.182	
EASTING: 538,607.918	
LANDING POINT LOCATION (LPL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.038015°	
LONGITUDE: -80.549972°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,540,894.400	
EASTING: 1,766,377.800	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,432,073.477	
EASTING: 538,393.030	
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.021167°	
LONGITUDE: -80.539688°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,534,774.150	
EASTING: 1,769,287.850	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,430,208.021	
EASTING: 539,280.015	



WELL BORE TABLE FOR SURFACE & ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	CECIL L, LAWRENCE G., JOHN M. & CAROL S. HICKMAN	06-T14-38	143.53
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	KEVIN P. & BRENDA VORHES	06-T14-52.4	2.00
3	ERIN E. SCHUL	06-T14-52.5	7.256
4	PRESTON R. MOCZEK	06-T14-52.1	2.051
5	ERIN E. SCHUL	06-T14-51.1	1.03
6	CHRISTOPHER D. STRAIT	06-T19-13.3	4.176
7	JEREMY L. DVORCEK	06-T19-13.2	6.06
8	DAVID E. YAHN	06-T19-21	5.05
9	MARK F. & KATHLEEN A. LICHWA	06-T19-19	5.00
10	MARK F. LICHWA	06-T19-22	5.00
11	KATHLEEN A. LICHWA	06-T19-24	10.00
12	MARK & KATHY LICHWA	06-T19-8.1	19.65
13	HERBERT & ALICE SHARP	06-T19-9	101.555



COMPANY:	SWN Production Company, LLC	swN ^{R⁺} / _A ^{V⁺} / _A Production Company™
OPERATOR'S WELL #:	MARK HICKMAN OHI 6H	
LOCATION:	TRIADELPHIA DISTRICT, OHIO COUNTY, WEST VIRGINIA	
DATE:	10/27/2017	
SWN PRODUCTION COMPANY, LLC SURFACE HOLES		
1. MARK HICKMAN UP OHI 6H		
3. MARK HICKMAN OHI 5H		
4. MARK HICKMAN OHI 8H		

LEGEND:	<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL LPL* LANDING POINT LOCATION 	<ul style="list-style-type: none"> — DRILLING UNIT — LEASE BOUNDARY — HARDLINE BOUNDARY - UPP 2 - - UPPER POINT PLEASANT PATH - MAR 2 - - MARCELLUS PATH
----------------	---	---

REVISIONS:	DATE: 10-19-2017
	DRAWN BY: R.DOERR
	SCALE: 1" = 2000'
	DRAWING NO: 050-5494
	INTERNAL WELL PLAT