

ELK LAKE SERVICES, LLC

280 Indian Springs Road,
Suite 123 Indiana, PA 15701
Phone: (724) 463-7303

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,436,654.44 EASTING: 534,271.52
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,437,070.46 EASTING: 534,339.76
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,439,252.05 EASTING: 533,391.44
SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,436,654.41 EASTING: 534,271.53
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,437,006.06 EASTING: 534,367.68
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,439,253.79 EASTING: 533,391.86

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

Latitude: 40°07'30"

BOTTOM HOLE 6964'

Latitude: 40°05'00"

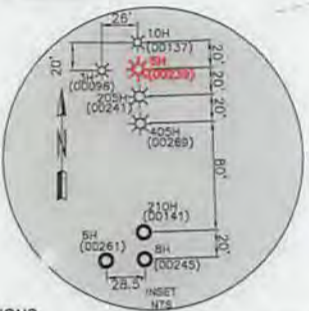
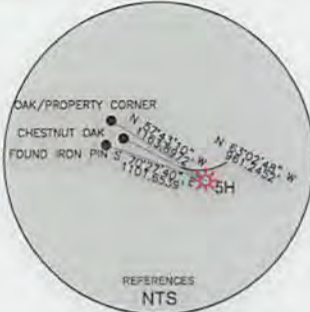
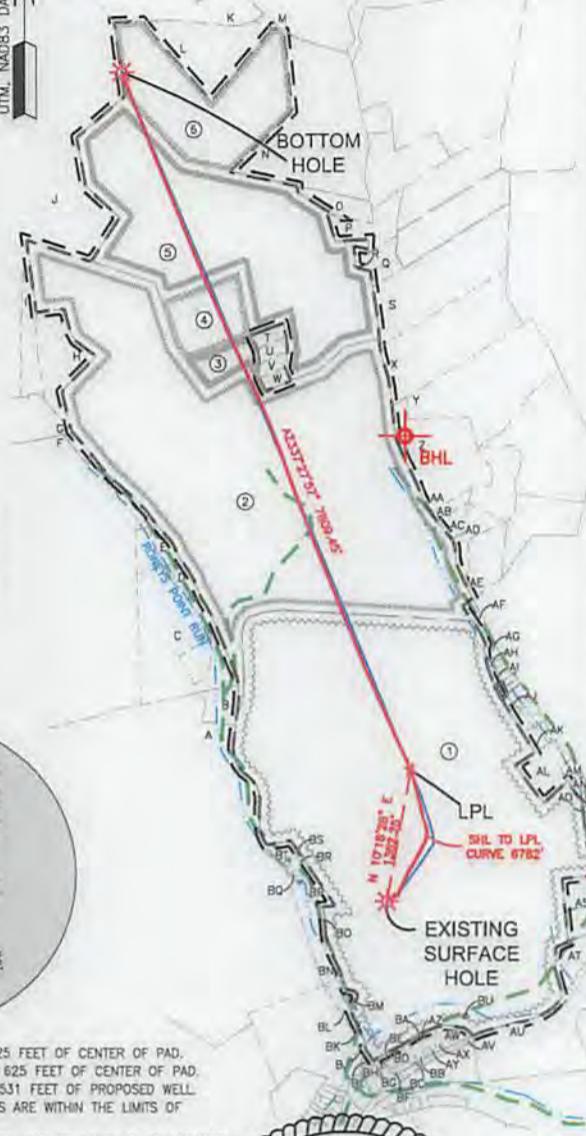
SURFACE HOLE 4115'

Longitude: 80°35'00" SURFACE HOLE 1412

Longitude: 80°35'00" SURFACE HOLE 8050

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER / ROYALTY OWNER	TAX PARCEL	ACRES
1	BOARD OF COMMISSIONERS OF OHIO COUNTY (S/R)	3-113-3	282.850
SURFACE OWNER			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	BOARD OF COMMISSIONERS OF OHIO COUNTY	3-113-3-1	227.648
3	CHRISTOPHER BELLAUO	3-110-28-6	5.166
4	WALTER D. AND DEBORAH A. BARTOLOVICH	3-110-28-2	12.000
5	THOMAS R. AND SUE O. ...	3-110-26	98.6780
6	CURTIS R. AND CAROLINE BYRUM ... & WIFE	3-110-27-3	25.000

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A-1	TIMMY B. & AMY LYNN MINCH	6-13-5	151.800
B	CARL J. SHELLER	3-113-24	2.198
C	TIMMY B. & AMY LYNN MINCH	3-113-2	20.205
D	NATHAN CHARLES GORDON	3-113-2-1	1.245
E	JEFFREY R. BENNETT	3-113-2-2	1.568
F	PHILIP D. & ANNA C. MAXWELL	3-113-1	206.000
G	PHILIP D. & ANNA C. MAXWELL	3-113-1-2	25.698
H	OHIO COUNTY COMMISSION (CEMETERY)	3-110-23-3	8.000
I	ROBERT & BRIGID WELSH	3-110-23-1	3.080
J	ROBERT R. LUCHETTI	3-110-23	162.724
K	GLEN L. & R.S. WALTERS	3-110-28	39.880
L	CAROLINE LOUSTAU BYRUM	3-110-27-1	10.000
M	J.A. & D.A. KOCHY	3-110-29	50.000
N	JEAN P. & L.P. LOUSTAU	3-110-27	50.865
O	JOYCE E. KIMPEL	3-110-27	25.000
P	CLARENCE A. & MILDRED L. WOOD	3-110-36-1	7.219
Q	MICHELLE L. HORBATAK	3-110-36-1	7.219
R	MICHELLE L. HORBATAK	3-110-28-7	0.010
S	DAVID A. & FLORENCE D. BLOWERS	3-110-38-4	20.040
T	HERMAN & MATHEA K. KRUPINSKI	3-110-28-5	1.162
U	EVELYN E. SCHULTZ	3-110-28-4	1.155
V	MICHAEL A. KATHY & ZELDA E. HALL	3-110-28-3	0.992
W	DAVID H. & DOROTHY L. NEWLAND	3-110-28-1	1.000
X	LANCE H., JR. & SHAENAN G. MILLER	3-110-35	19.900
Y	RONALD W. HOUCHINS	3-113-36-5	20.000
Z	RONALD W. HOUCHINS	3-113-4-3	19.053
AA	RICHARD CLARK STEELE, JR. & ALEXANDRA MELBA PUSKASICH	3-113-4	1.056
AB	JOANN VANDERGRIFT	3-113-4-2	1.074
AC	JOANN VANDERGRIFT	3-113-4-1	1.465
AD	DAVID W. STEVENSON ETAL	3-113-5	1.360
AE	JAMES ALAN STEVENSON	3-113-5-4	4.777
AF	KIMBERLY STEVENSON	3-113-6-1	0.604
AG	TYSON L. LOVERIDGE	3-113-6	0.548
AH	TYSON L. LOVERIDGE	3-113-6-4	0.210
AI	JAMES E., III & CHRISTINE WHEELER	3-113-8-2	0.295
AJ	JOLLY W. WHEELER	3-113-12-3	0.958
AK	STEVEN SHEARER	3-113-12-1	0.824
AL	JAMES C. & D. L. KNIGHT	3-113-13	5.000
AM	GARY L. & MARY C. DEMERSKO	3-113-14	0.561
AN	KEITH E. & C. J. BARON	3-113-15	0.389
AO	HARRY E. & CHERYL L. HOLMAN	6-13-11	1.140
AP	HARRY E. & CHERYL L. HOLMAN	6-13-13	3.580
AQ	DEIRDRE T. & ANN MOORE	6-13-14	2.480
AR	DEIRDRE T. & ANN MOORE	6-13-14-1	0.242
AS	OHIO COUNTY COMMISSION	6-13-28	5.108
AT	JDS INVESTMENTS LLC	6-13-16	3.038
AU	MELDY GARRISON	6-13-33	23.500
AV	JAMIE K. KUHENS	6-13-34	0.204
AW	SUPERIOR INDUSTRIAL LAUNDRIES	6-130-26	1.060
AX	PAULA C. & ORION E. STEPHAN	6-130-25	0.308
AY	HAROLD B. & D. J. MOORE	6-130-24	0.360
AZ	ROBERT B. & EVELYN M. CLARK	6-130-23	0.200
BA	MARVIN H. & K. L. SWAN	6-130-22	0.200
BB	PHK, LLC	6-130-21	0.450
BC	TAMMY M. HAMMONS	6-130-20	0.360
BD	ETUDE L. & TRACEY L. MCCOANES	6-130-19	0.770
BE	JUSTIN S. MARSH & ASHLEY L. FONNER	6-130-18-1	0.260
BF	HOLLY M. FLACK	6-130-18	0.223
BG	JOSEPH A. MCKENNEEN, III	6-130-17	0.550
BH	VALLEY CON MACHINE COMPANY, LLC	6-130-16	1.113
BI	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-130-13	0.1128
BJ	KENNETH L. NELSON	6-130-10	0.246
BK	JOHN A. AND C. M. HUNTER	6-130-11-1	0.920
BL	JOHN A. AND C. M. HUNTER	6-130-11	0.998
BM	JOHN A. AND C. M. HUNTER	6-130-12	0.333
BN	RANDY & BRENDA HANNING	6-13-5-2	4.549
BO	RANDY DALE & BRENDA JOYCE HANNING	6-13-5-1	0.217
BP	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-13-10	1.800
BQ	BARBARA A. SHORES	6-13-9	1.100
BR	JAMES R. AND DARLA J. HUGHES	6-13-8	0.340
BS	TRACEY E. & JOHN P. KETHON	6-13-7	0.280
BT	ALFRED DEER	6-13-6	1.100
BU	VILLAGE OF VALLEY GROVE	6-130-27	0.050

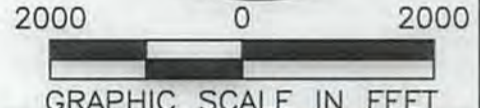


- WELL RESTRICTIONS**
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
 - NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
 - WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 531 FEET OF PROPOSED WELL.
 - PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS ARE WITHIN THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
 - NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

NOTES ON SURVEY

- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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. 2164

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

COMPANY: SWN Production Company, LLC

OCC A OHI

OPERATOR'S WELL #: 5H

API WELL #: 47 STATE 069 COUNTY 00239 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1095.8'

DISTRICT: LIBERTY COUNTY: OHIO COUNTY QUADRANGLE: VALLEY GROVE

SURFACE OWNER: BOARD OF COMMISSIONERS OF OHIO COUNTY ACREAGE: ±262.850

OIL & GAS ROYALTY OWNER: BOARD OF COMMISSIONERS OF OHIO COUNTY ACREAGE: ±265.850

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,231' TVD 14,585' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DR STE 201 ADDRESS: 1300 FORT PIERPONT DR STE 201

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	REVISIONS:	DATE: 01-22-2019
	⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT		FILE NO: 16-78
LPL*	★ LANDING POINT LOCATION	==== LEASE BOUNDARY		DRAWN BY: JMB
⊙	⊙ EXISTING WATER WELL	— EXISTING PATH		SCALE: 1" = 2000'
⊙	⊙ EXISTING SPRING	— PROPOSED PATH		DRAWING NO: 1
				WELL LOCATION PLAT 1