

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

Latitude: 40°07'30"

BOTTOM HOLE 6962'

SURFACE HOLE LOCATION (SHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,436,654.41
 EASTING: 534,271.53

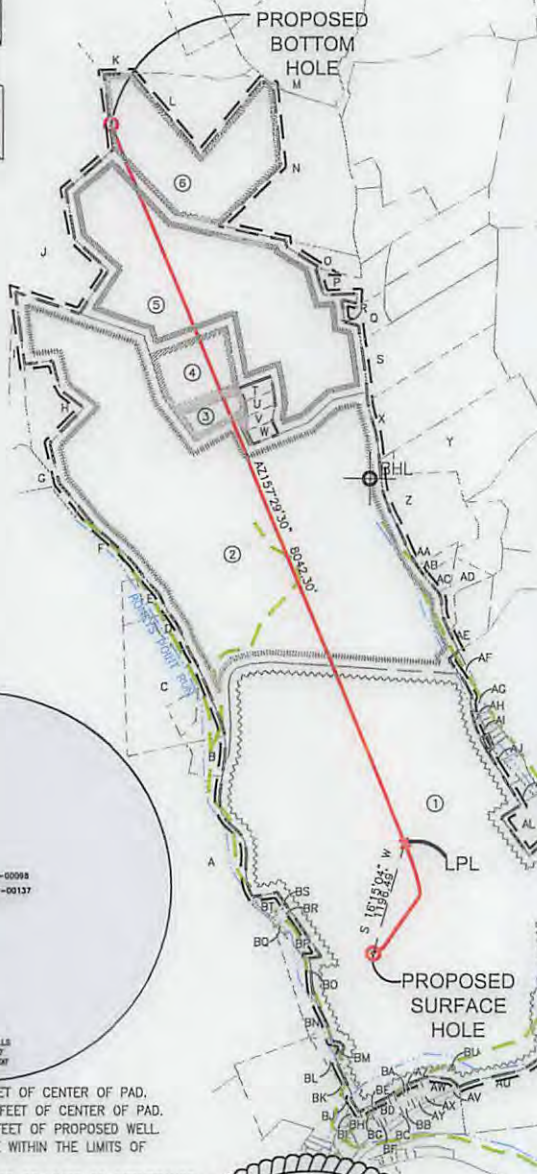
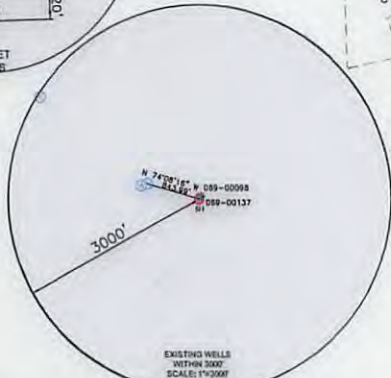
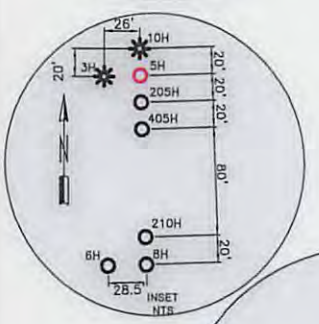
LANDING POINT (LPL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,437,006.06
 EASTING: 534,367.68

BOTTOM HOLE LOCATION (BHL):
 UTM (NAD83, ZONE 17, METERS):
 NORTHING: 4,439,253.79
 EASTING: 533,391.86

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

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-L13-3	262.850
SURFACE OWNER			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	BOARD OF COMMISSIONERS OF OHIO COUNTY	3-L13-3-1	227.648
3	CHRISTOPHER BELLANDI	3-L10-28-6	5.166
4	WALTER D. AND DEBORAH A. BARTOLOVICH	3-L10-28-2	12.000
5	THOMAS R. AND SUE O. ABRAHAM, HIS WIFE	3-L10-28	98.6780
6	CURTIS R. AND CAROLINE BYRUM, HUSBAND & WIFE	3-L10-27-3	25.000

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	TIMMY B. & AMY LYNN MINCH	6-13-5	161.800
B	CARL J. SHELLER	3-13-24	2.198
C	TIMMY B. & AMY LYNN MINCH	3-13-2	20.209
D	NATHAN CHARLES GOROON	3-13-2-1	1.245
E	JEFFREY R. BENNETT	3-13-2-2	1.598
F	PHILIP D. & ANNA C. MAXWELL	3-13-1	206.000
G	PHILIP D. & ANNA C. MAXWELL	3-13-1-2	25.699
H	OHIO COUNTY COMMISSION (CEMETERY)	3-10-23-3	8.000
I	ROBERT & BRIDGET WEIR	3-10-23-1	5.080
J	ROBERT R. LUCIETTI	3-10-23	162.724
K	GLEN L. & R. S. WALTERS	3-10-28	39.880
L	CAROLINE LOUSTAU BYRUM	3-10-27-1	10.000
M	J. A. & D. A. KOCHY	3-10-29	50.000
N	JEAN P. & L. P. LOUSTAU	3-10-27	50.865
O	JOYCE E. KUMPEL	3-10-48	2.850
P	CLARENCE A. & MILDRED L. WOOD	3-10-38-7	2.091
Q	MICHELLE L. HORBATAK	3-10-38-1	2.219
R	MICHELLE L. HORBATAK	3-10-26-7	0.010
S	DAVID A. & FLORENCE D. BLOWERS	3-10-38-6	20.040
T	HERMAN & MARTHA K. KRUPINSKI	3-10-28-5	1.182
U	EVELYN E. SCHULTZ	3-10-28-4	1.135
V	MICHAEL A. KUTHY & ZELDA E. HALL	3-10-28-3	0.992
W	DAVID H. & SOROTHY L. NEWLAND	3-10-28-1	1.000
X	LANCE H. JR. & SHANAN G. MILLER	3-10-38	19.990
Y	RONALD W. HOUGHINS	3-13-38-5	20.000
Z	RONALD W. HOUGHINS	3-13-4-3	15.053
AA	RICHARD CLARK STEELE, JR. & ALEXANDRA MIENA PUSKARICH	3-L13-4	1.056
AB	JOANN VANDERGRIFT	3-13-4-2	1.074
AC	JOANN VANDERGRIFT	3-13-4-1	1.465
AD	DAVID W. STEVENSON ETAL	3-13-5	1.360
AE	JAMES ALAN STEVENSON	3-13-5-4	4.777
AF	KIMBERLY STEVENSON	3-13-6-1	0.604
AG	TYSON L. LOVERIDGE	3-13-6	0.548
AH	TYSON L. LOVERIDGE	3-13-6-4	0.210
AI	JAMES E., III & CHRISTINE WHEELER	3-13-8-2	0.295
AJ	JOLLY W. WHEELER	3-13-12-3	0.968
AK	STEVEN SHEARER	3-13-12-1	0.824
AL	JAMES C. & D. L. KNIGHT	3-13-13	5.000
AM	GARY L. & MARY C. DEMERSKI	3-13-14	0.581
AN	KEITH E. & C. J. BARON	3-13-15	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	GERALD T. & ANN MOORE	6-13-14	2.480
AR	GERALD T. & ANN MOORE	6-13-14-1	0.242
AS	OHIO COUNTY COMMISSION	6-13-28	5.108
AT	JOS INVESTMENTS LLC	6-13-16	3.038
AU	MELROY GARRISON	6-13-33	23.550
AV	JAMIE K. KUHENS	6-13-34	0.204
AW	SUPERIOR INDUSTRIAL LAUNDRIES	6-130-28	1.060
AX	PAULA C. & ORION E. STEPHAN	6-130-25	0.306
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. SWAIN	6-130-22	0.200
BB	PHK, LLC	6-130-21	0.450
BC	TAMMY M. HAMMONS	6-130-20	0.360
BD	EDDIE L. & TRACEY L. MCDANIELS	6-130-19	0.770
BE	JUSTIN S. MARSH & ASHLEY L. FONNER	6-130-18-1	0.260
BF	HOLLY H. FLACK	6-130-18	0.223
BG	JOSEPH A. MCKENNA, III	6-130-17	0.550
BH	VALLEY COIN 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 HANING	6-13-5-2	4.549
BO	RANDY DALE & BRENDA JOYCE HANING	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. KETRON	6-13-7	0.230
BT	ALFRED DERR	6-13-6	1.100
BU	VILLAGE OF VALLEY GROVE	6-130-27	0.030



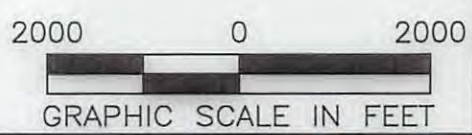
WELL RESTRICTIONS

- 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.



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)

OCC A OHI
 OPERATOR'S WELL #: 5H
 API WELL #: 47 69
 STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1095.5'

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)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,222' TMD 14,669' 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

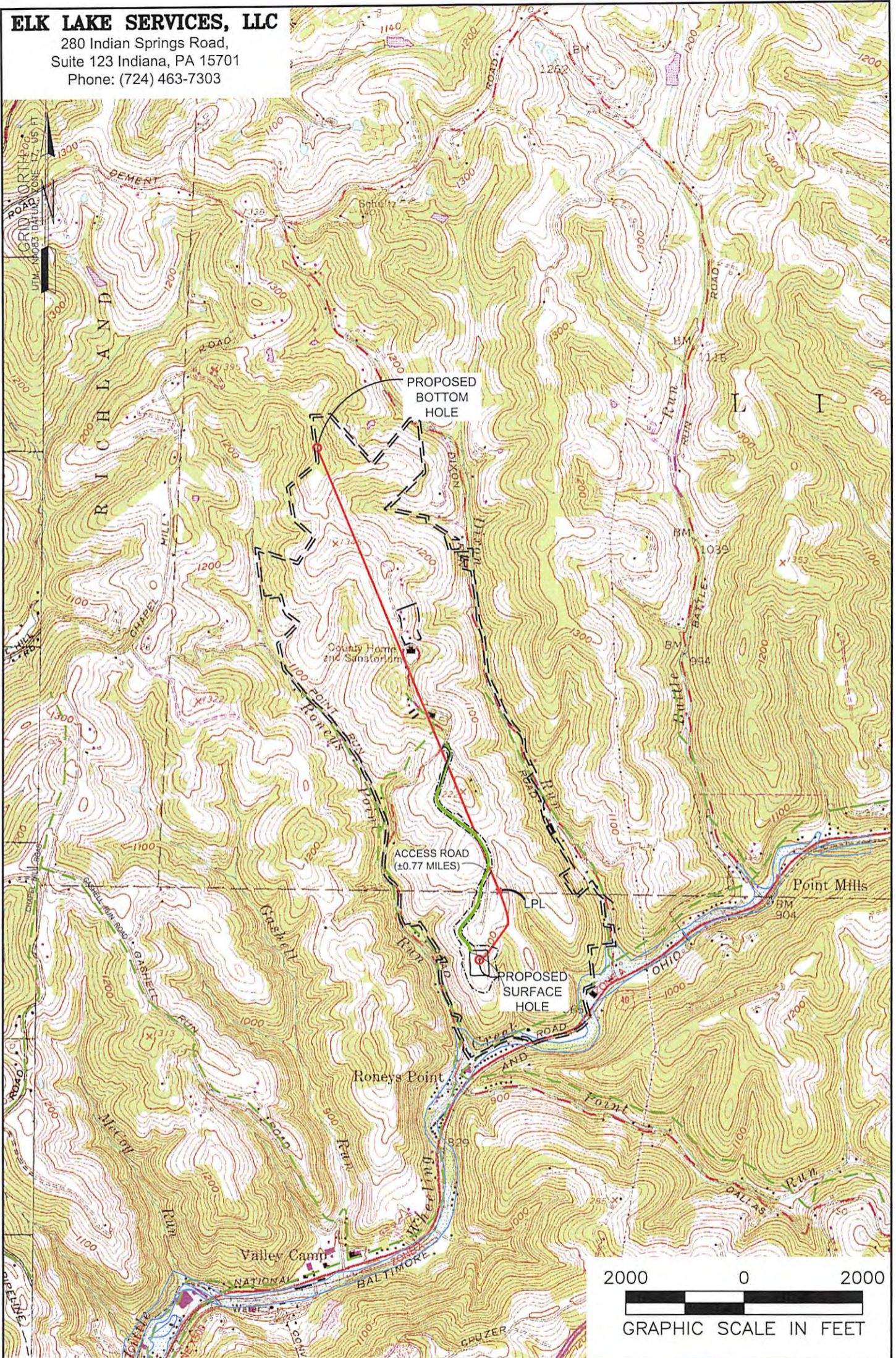
LEGEND:
 ○ PROPOSED SURFACE HOLE / BOTTOM HOLE
 * EXISTING / PRODUCING WELLHEAD
 LPL * LANDING POINT LOCATION
 ⊕ EXISTING WATER WELL
 ⊙ EXISTING SPRING

REVISIONS:
 --- SURVEYED BOUNDARY
 --- DRILLING UNIT
 --- LEASE BOUNDARY
 --- PROPOSED PATH

DATE: 06-08-2017
 FILE NO: 16-78
 DRAWN BY: A. BLACK
 SCALE: 1" = 2000'
 DRAWING NO: 1
 WELL LOCATION PLAT 1

ELK LAKE SERVICES, LLC

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



NOTES ON SURVEY

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊗ EXISTING / PRODUCING WELLHEAD
- LPL ✱ LANDING POINT LOCATION
- ▭ FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- = LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR:

SWN PRODUCTION COMPANY, LLC

ADDRESS:

P.O. BOX 1300 JANE LEW, WV 26378

SURFACE OWNER:

BOARD OF COMMISSIONERS OF OHIO COUNTY

WELL (FARM) NAME:

OCC A OHI

WELL #

5H

SERIAL #

XXXX

COUNTY

OHIO COUNTY -- 69

DISTRICT:

LIBERTY

USGS 7 1/2 QUADRANGLE MAP NAME

VALLEY GROVE, WV

10/27/2017