

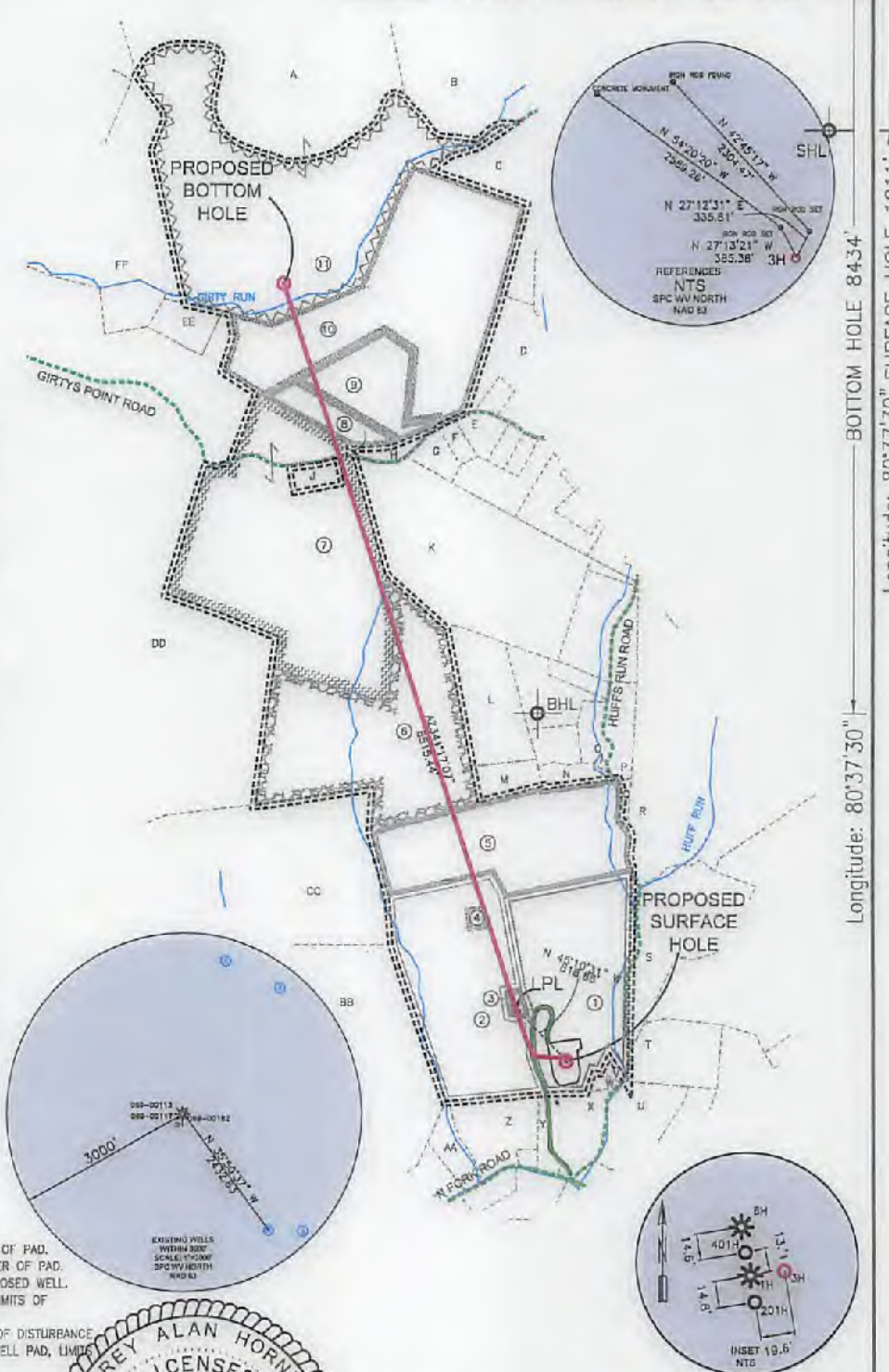
ELK LAKE SERVICES, LLC

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,740.30 EASTING: 531,784.37
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,916.24 EASTING: 531,607.34
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,448,373.60 EASTING: 530,774.87

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

Latitude: 40°10'00" SURFACE HOLE 493'
Latitude: 40°12'30" BOTTOM HOLE 3769'



TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	RAYLE COAL COMPANY (S/R)	4-86-17-4	61.53
2	RAYLE COAL COMPANY	4-86-17	59.19
3	RAYLE COAL COMPANY	4-86-17-2	1.663
4	WESTON NATIONAL BANK	4-86-17-5	1.339
5	RAYLE COAL COMPANY	4-86-17-3	61.530
6	MARG SEAMON	4-86-2	33.63
7	BRUCE D. BONAR & WILLIAM D. BONAR	3-846-20	113.00
8	TRACY GILBERT	3-846-22-1	10.000
9	TRACY GILBERT	3-846-22	21.14
10	DANNY GENE BRITT & MARGARET VIRGINIA	3-846-27	106.530
11	BARRY L. AND PATRICIA A. GREATHOUSE	3-841-82	229.000

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BARRY L. AND PATRICIA A. GREATHOUSE	3-841-82	229.000
B	JAY GLEN COLLINS	3-841-80	291.256
C	DALE T. & MARY R. WOOD	3-841-84	47.800
D	JAMES R. & MELISSA D. CEBHART	3-846-29	27.200
E	GRACE FRIEND	3-846-30	4.000
F	REBECCA FRIEND	3-846-28	2.000
G	GARY L. & MARGE WILLIAMS	3-846-25	4.000
H	BUSTER T. & BARBARA A. BLAKE	3-846-23	2.290
I	TRACY GILBERT	3-846-23-1	0.085
J	DOUGLAS L. STEWART	3-846-21	5.000
K	MY THREE SONS HOLDINGS LP	3-846-24	76.590
L	GARY & MARTHA HERCULES	4-85-4	17.260
M	GARY & MARTHA HERCULES	4-85-4-1	7.300
N	GARY & MARTHA HERCULES	4-85-5	4.700
D	GARY & MARTHA HERCULES	4-85-6	0.250
P	MARTHA HERCULES	4-85-7	13.220
D	GARY WAYNE HERCULES	4-85-16	1.250
R	WINNOR COAL COMPANY	4-85-12	115.220
S	WAYNE E. SHOOK	4-85-15	32.600
T	WIDELL H. & GLADYS GOFF	4-85-27-1	16.010
U	WIDELL H. & GLADYS GOFF	4-85-24-3	15.680
V	STELLA M. BRYAN & KATHLEEN J. BRYAN	4-85-17-1	1.000
W	WINNOR COAL COMPANY	4-85-25	1.000
X	RICHARD A. WOOD, JR.	4-85-24-6	12.153
Y	EDITH M. WOOD	4-85-22	4.176
Z	LOUIS J. JR. & CATHY L. ENNIS	4-85-19-2	15.710
AA	SEAN A. SHOCK	4-85-19	5.814
BB	MARG AND KRISTEN SEAMON	4-86-37	110.20
CC	BOARD OF COMMISSIONERS OF OHIO COUNTY	4-85-35	235.500
DD	BOARD OF COMMISSIONERS OF OHIO COUNTY	4-85-10	685.030
EE	STACY ANN & PATRICIA ANN GREATHOUSE	3-843-41	5.000
FF	BARRY L. & PATRICIA A. GREATHOUSE	3-841-83	63.410

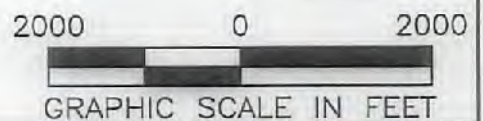
WELL RESTRICTIONS

- 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 2433 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 PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.
 - WELLBORE PARCELS ARE DESIGNATED WITH UNIQUE LINE TYPES.
- I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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



COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: 3H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	API WELL #: 47 STATE, 69 COUNTY, 00278 PERMIT
WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" 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"/>		WATERSHED: UPPER OHIO SOUTH ELEVATION: 1064.0'-STAKED	
DISTRICT: RICHLAND COUNTY: OHIO COUNTY		QUADRANGLE: TILTONSVILLE	
SURFACE OWNER: RAYLE COAL COMPANY		ACREAGE: ±61.53	
OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY		ACREAGE: ±61.53	
DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/>		CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)	
TARGET FORMATION: MARCELLUS		ESTIMATED DEPTH: 5,810' TMD 14,676' TMD	

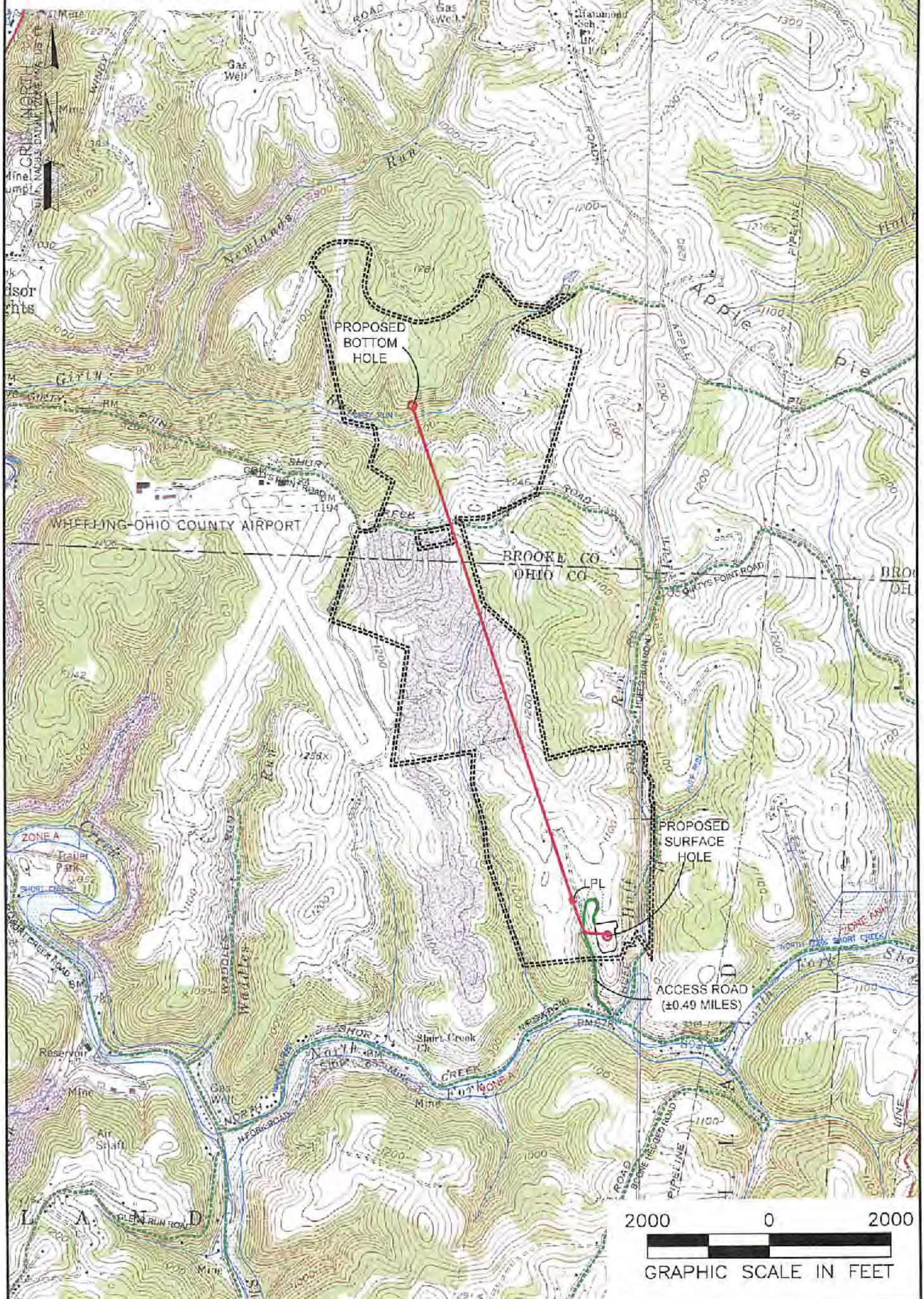
06/01/2018

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378	DESIGNATED AGENT: DEE SOUTHALL ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378
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LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL LANDING POINT LOCATION ⊕ EXISTING WATER WELL ⊙ EXISTING SPRING	— SURVEYED BOUNDARY - - - - - DRILLING UNIT - - - - - LEASE BOUNDARY - - - - - PROPOSED PATH	REVISIONS: DATE: 03-15-2018 FILE NO: 16-76 DRAWN BY: A. BLACK SCALE: 1" = 2000' DRAWING NO: 1 WELL LOCATION PLAT 1
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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 X LANDING POINT LOCATION
- 🌊 FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- LEASE BOUNDARY
- PROPOSED PATH

06/01/2018

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: RAYLE COAL OHI	WELL # SERIAL # 3H RECORDED
ADDRESS: P.O. BOX 1300 JANE LEW, WY 26378	COUNTY OHIO COUNTY - 69	DISTRICT: RICHLAND
SURFACE OWNER: RAYLE COMPANY	USGS 7 1/2 QUADRANGLE MAP NAME TILTONVILLE, WV	MAR 20 2018