

ELK LAKE SERVICES, LLC

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

Latitude: 40°05'00" SURFACE HOLE 4114'

Latitude: 40°07'30"

BOTTOM HOLE 6230'

Longitude: 80°35'00" SURFACE HOLE 1426'

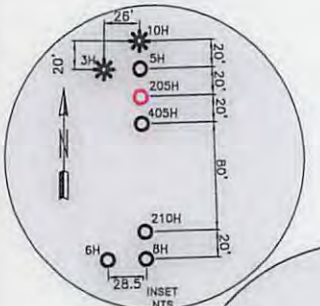
Longitude: 80°35'00" BOTTOM HOLE 7739'

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,650.15 EASTING: 534,271.74
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,437,044.11 EASTING: 534,632.26
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,347.94 EASTING: 533,614.44

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

TRACT	SURFACE OWNER / ROYALTY OWNER	TAX PARCEL	ACRES
1	BOARD OF COMMISSIONERS OF OHIO COUNTY (S/R)	3-113-3	262.850
2	SURFACE OWNER	TAX PARCEL	ACRES
3	BOARD OF COMMISSIONERS OF OHIO COUNTY	3-113-3-1	227.648
4	THOMAS R. AND SUE O. ABRAHAM, HIS WIFE	3-110-28	98.6780
5	JEAN P. AND L. P. LOUSTAU	3-110-27	50.865
6	CURTIS R. AND CAROLINE BYRUM, HUSBAND & WIFE	3-110-27-3	28.000
	CAROLINE LOUSTAU BYRUM	3-110-27-1	10.000

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	TIMMY B. & AMY LYNN MINCH	6-13-5	181.800
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	1.268
E	JEFFREY R. BENNETT	3-113-2-2	1.588
F	PHILIP D. & ANNA C. MAXWELL	3-113-1	205.000
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 & BRIDGET WEIR	3-110-23-1	0.080
J	ERIC M. & JUDY L. WAGE	3-110-23	162.724
K	GLEN L. & R. S. WALTERS	3-110-29	50.000
L	J. A. & D. A. KOCHY	3-110-35-3	53.751
M	MICHAEL R. & K. A. PARSONS	3-110-27-2	0.135
N	MICHAEL R. & K. A. PARSONS	3-110-35	54.238
O	BRUCE A. & BRINDA J. PARSONS	3-110-35-1	2.02
P	CHARLES & FLORA DIETRICH	3-110-35-2	9.2
R	HARRY F., JR. & R. A. METZ	3-110-40	2.850
S	CLARENCE A. & MILDRED L. WOOD	3-110-38-7	2.091
T	MICHELLE L. HORBATAK	3-110-26-7	0.010
U	MICHELLE L. HORBATAK	3-110-36-1	2.219
V	DAVID A. & FLORENCE D. BLOWERS	3-110-36-6	20.040
W	WALTER D. & D. A. BARTOLOVICH	3-110-28-2	12.130
X	ERIC M. & JUDY L. WAGE	3-110-28-6	5.320
Y	HERMAN & MARTHA K. KWUPINSKI	3-110-28-5	1.162
Z	EVELYN E. SCHULTZ	3-110-28-4	1.135
AA	MICHAEL A. KUTHY & ZELDA E. HALL	3-110-28-3	0.992
AB	DAVID H. & DOROTHY L. NEWLAND	3-110-28-1	1.000
AC	LANCE H., JR. & SHAUNAN G. MILLER	3-110-36	19.990
AD	RONALD W. HOUGHINS	3-113-36-5	20.000
AE	RONALD W. HOUGHINS	3-113-4-3	15.053
AF	RICHARD CLARK STEELE, JR. & ALEXANDRA MILENA PUSKARICH	3-113-4	1.056
AG	JOHN WANDERGRIFT	3-113-4-2	1.074
AH	JOHN WANDERGRIFT	3-113-4-1	1.465
AJ	DAVID W. STEVENSON ETAL	3-113-5	1.360
AK	JAMES ALAN STEVENSON	3-113-5-4	4.777
AL	KIMBERLY STEVENSON	3-113-5-1	0.604
AM	TYSON L. LOVERIDGE	3-113-6	0.548
AN	TYSON L. LOVERIDGE	3-113-6-4	0.210
AO	JAMES E., III & CHRISTINE WHEELER	3-113-8-2	0.296
AP	JOLLY W. WHEELER	3-113-12-3	0.988
AQ	STEVEN SHEARER	3-113-12-1	0.824
AR	JAMES C. & D. L. KNIGHT	3-113-13	5.000
AS	GARY L. & MARY C. DEMERSKI	3-113-14	0.561
AT	KOITH E. & C. J. BARON	3-113-15	0.389
AV	HARRY E. & CHERYL L. HOLMAN	6-13-11	1.140
AW	HARRY E. & CHERYL L. HOLMAN	6-13-13	3.580
AX	GERALD T. & ANN MOORE	6-13-14	2.480
AY	GERALD T. & ANN MOORE	6-13-14-1	0.242
AZ	OHIO COUNTY COMMISSION	6-13-28	5.108
BA	JDS INVESTMENTS LLC	6-13-16	3.038
BB	MELODY GARRISON	6-13-33	23.550
BC	JANE K. KUENS	6-13-34	0.204
BD	SUPERIOR INDUSTRIAL LAUNDRIES	6-130-26	1.060
BE	PAULA C. & ORION E. STEPHAN	6-130-25	0.305
BF	HAROLD B. & D. J. MOORE	6-130-24	0.360
BG	ROBERT B. & EVELYN M. CLARK	6-130-23	0.200
BH	MARVIN H. & K. L. SWAN	6-130-22	0.200
BI	PHK, LLC	6-130-21	0.450
BJ	TAMMY N. HAMBONS	6-130-20	0.350
BK	EDDIE L. & TRACEY L. McDANIELS	6-130-19	0.770
BL	JUSTIN S. MARSH & ASHLEY L. FONNER	6-130-18-1	0.250
BM	HOLLY M. FLACK	6-130-18	0.223
BN	JOSEPH A. MCKENNON, III	6-130-17	0.550
BO	VALLEY COIN MACHINE COMPANY, LLC	6-130-16	1.113
BP	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-130-13	0.1128
BQ	KENNETH L. NELSON	6-130-10	0.246
BR	JOHN A. AND C. M. HUNTER	6-130-11-1	0.820
BS	JOHN A. AND C. M. HUNTER	6-130-11	0.998
BT	JOHN A. AND C. M. HUNTER	6-130-12	0.333
BU	RANDY & BRENDA HANING	6-13-5-2	4.549
BV	RANDY DALE & BRENDA JOYCE HANING	6-13-5-1	0.217
BW	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-13-10	1.800
BX	BARBARA A. SHORES	6-13-9	1.100
BY	JAMES R. AND DARLA J. HUGHES	6-13-8	0.340
BZ	TRACEY E. & JOHN P. KETRON	6-13-7	0.230
	ALFRED DERR	6-13-6	1.100
	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.

P.S. 2164



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 #: 205H
 API WELL #: 47 STATE 69 COUNTY PERMIT H6A 00241

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: ±262.850

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

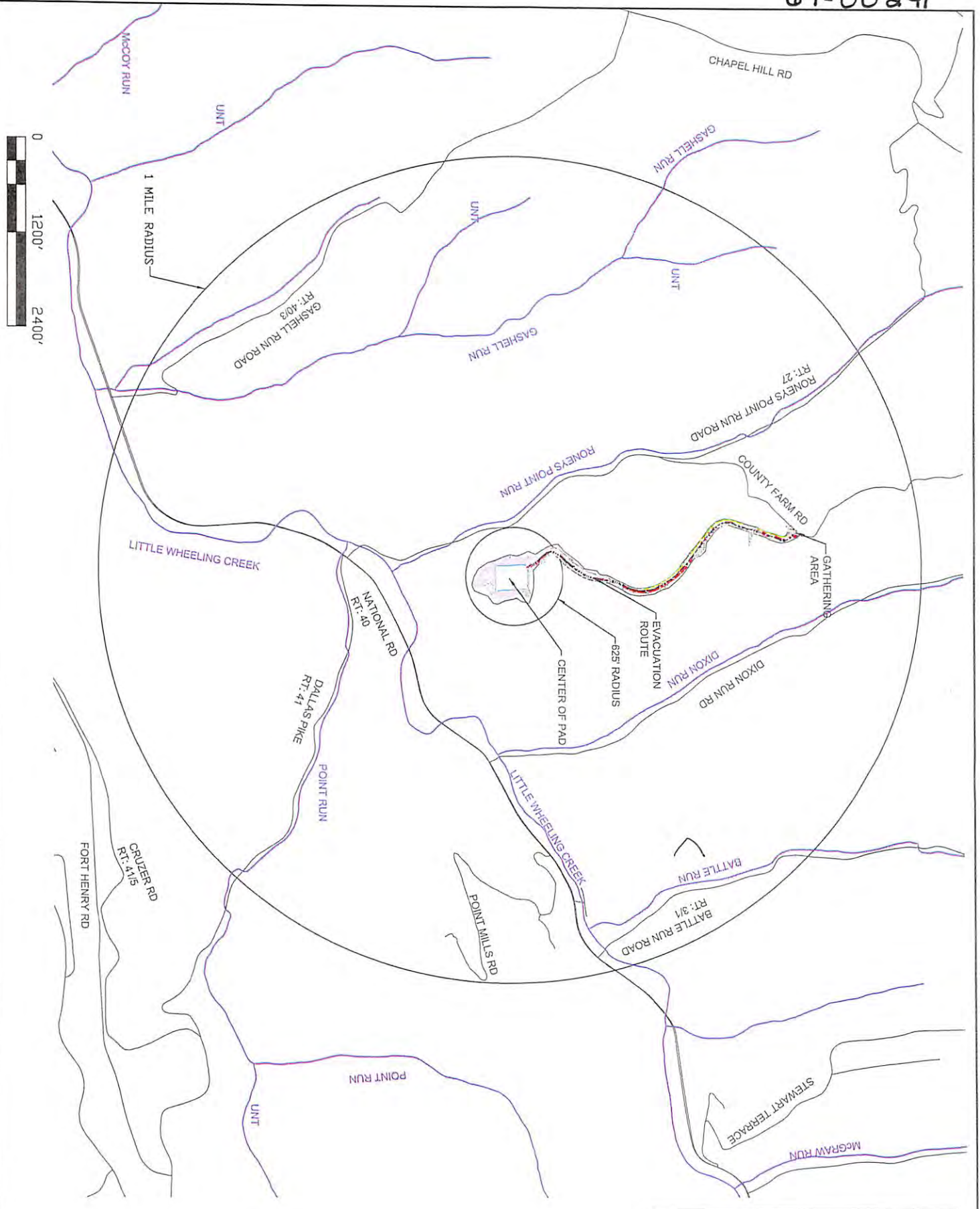
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,228' TMD 15,079' 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:	— SURVEYED BOUNDARY	— DRILLING UNIT
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— LEASE BOUNDARY	— PROPOSED PATH
⊙ EXISTING / PRODUCING WELLHEAD		
LPL* LANDING POINT LOCATION		
⊙ EXISTING WATER WELL		
⊙ EXISTING SPRING		

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



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



COORDINATES:

SITE ENTRANCE (NAD83)	LAT: 40.089299	LONG: 80.500353
CENTER OF PAD (NAD83)	LAT: 40.079288	LONG: 80.598094
GATHERING AREA (NAD83)	LAT: 40.089299	LONG: 80.500353
EXISTING WELL 3H (NAD83)	LAT: 40.079462	LONG: 80.598107
EXISTING WELL 10H (NAD83)	LAT: 40.079502	LONG: 80.598041
API NUMBER: 059-00137		
API NUMBER: 059-00098		

<p>PROJECT: OCC A PAD "A" TRINIDAD OILFIELD WEST VIRGINIA</p> <p>TITLE: EVACUATION ROUTE/ PREVAILING WIND</p> <p>DRAWING NUMBER: EP2.1</p>	<p>Southwestern Energy[®] Southwestern Energy Company P.O. Box 672625 Houston, TX 77267</p>	<p>ELK LAKE SERVICES, LLC</p> <p>280 Indian Springs Road, Suite 123 Indiana, PA 15701 Phone: (724) 463-7303</p>		<p>PROJECT #: 16-78</p> <p>DATE: 2017-05-16</p> <p>DRAWN BY: NLL</p> <p>CHECKED BY: MCH</p>	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	REVISION									
				NO.	DATE	REVISION											
<p>10/27/2017</p>																	