

# ELK LAKE SERVICES, LLC

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

Latitude: 40°05'00" SURFACE HOLE 4131'

Latitude: 40°05'00" BOTTOM HOLE 1813'

Longitude: 80°35'00" SURFACE HOLE 1511'

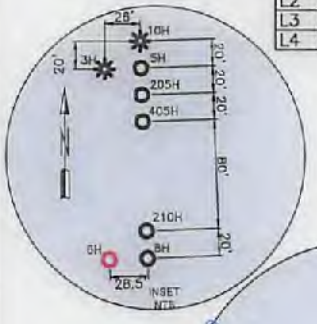
Longitude: 80°35'00" SURFACE HOLE 1511'

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,624.28 EASTING: 534,266.93
<b>LANDING POINT (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,361.53 EASTING: 534,186.36
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,435,191.47 EASTING: 534,979.91

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



LINE	BEARING	DISTANCE
L1	S 56°49'50" W	331.97'
L2	S 25°22'13" E	270.92'
L3	S 54°05'06" W	1537.42'
L4	S 51°49'28" W	1151.71'



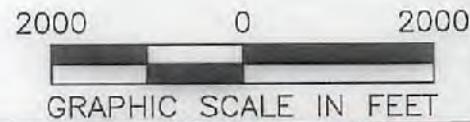
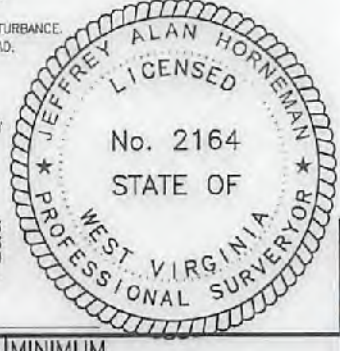
**WELL RESTRICTIONS**

- NO OCCUPIED DWELLINGS > 2500 SQ. FT. WITHIN 825 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ. FT. WITHIN 825 FEET OF CENTER OF PAD.
- WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 851 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.

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

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>OCC A OHI</p> <p>OPERATOR'S WELL #: 6H</p> <p>API WELL #: 47 69 002661</p> <p>STATE COUNTY PERMIT</p>
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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 COMMISSION OHIO COUNTY ACREAGE: ±262.8500

OIL & GAS ROYALTY OWNER: BOARD OF COMMISSION OHIO COUNTY ACREAGE: ±262.8500

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: 6,261' TVD 11,240' TMD

03/02/2018

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

<p><b>LEGEND:</b></p> <ul style="list-style-type: none"> <li>○ PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>⊙ EXISTING / PRODUCING WELLHEAD</li> <li>LPL* LANDING POINT LOCATION</li> <li>⊙ EXISTING WATER WELL</li> <li>⊙ EXISTING SPRING</li> </ul>	<ul style="list-style-type: none"> <li>— SURVEYED BOUNDARY</li> <li>— DRILLING UNIT</li> <li>===== LEASE BOUNDARY</li> <li>— PROPOSED PATH</li> </ul>	<p><b>REVISIONS:</b></p> <p>2-20-2018 DEP COMMENTS - INSET A &amp; IRON PIN REFERENCES</p> <p>DATE: 02-20-2018 FILE NO: 16-78 DRAWN BY: A. BLACK SCALE: 1" = 2000' DRAWING NO: 1 WELL LOCATION PLAT 1</p>
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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	262.8500
TRACT	SURFACE OWNER / ROYALTY OWNER	TAX PARCEL	ACRES
2	EDDIE L. & TRACEY L. MCDANIELS	6-T30-19	0.7700
3	WV DOT, DIVISION OF HIGHWAYS	HWY 40	78.6300
4	PHK, LLC	6-T8-54	1.2316
5	DOUGLAS & PATTY SHUMAN	6-T3-19	5.1470
6	UNITED PRESBYTERIAN CHURCH OF RONEY'S POINT	6-T8-9	21.6740
7	WV DOT, DIVISION OF HIGHWAYS	DALLAS PIKE RD	46.0600
8	HOWARD L. JR & CHRISTINE A. MINCH, HIS WIFE	6-T8-19-1	29.4700
9	JOSEPH PATRICK STRAUGHN, A SINGLE MAN	6-T8-19	36.9400
10	JANET L. KIMBLE	6-T8-24	26.3500
11	HENRY ROBERT KUHENS, BRIAN LEE KUHENS, DEBORAH LOUISE KNIGHT & CHARLES ELDEN KUHENS	6-T8-25	14.3300
12	LAUREN A. R. & JAMES A. FARMER	6-T8-25-6	5.0000
13	LAUREN A. R. & JAMES A. FARMER	6-T8-25-3	1.6780
14	HENRY R. & J. K. KUHENS	6-T8-25-1	1.2224

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BOARD OF COMMISSIONERS OF OHIO COUNTY	3-L13-3-1	227.648
B	KIMBERLY STEVENSON & JAMES STEVENSON & BRENDA STEVENSON DELGADO	3-L13-6-1	0.604
C	TYSON L. LOVERIDGE & VANESSA LOVERIDGE	3-L13-6	0.521
D	TYSON L. LOVERIDGE & VANESSA LOVERIDGE	3-L13-6-4	0.210
E	JAMES E. III & CHRISTINE WHEELER	3-L13-8-2	0.296
F	JOLLY W. WHEELER	3-L13-12-3	0.968
G	STEVEN P. SHEARER	3-L13-12-1	0.824
H	JAMES C. KNIGHT & DEBORAH L. KNIGHT	3-L13-13	5.444
I	GARY L. AND MARY C. DEMERSKI	3-L13-14	0.561
J	KEITH E. AND C. J. BARON	3-L13-15	0.389
K	HARRY E. HOLMAN & CHERYL L. HOLMAN	6-T3-11	1.080
L	HARRY E. HOLMAN & CHERYL L. HOLMAN	6-T3-12	1.000
M	HARRY E. HOLMAN & CHERYL L. HOLMAN	6-T3-13	3.580
N	GERALD T. MOORE & ANNA M. MOORE	6-T3-14	2.480
O	GERALD T. MOORE & ANNA M. MOORE	6-T3-14-1	0.242
P	OHIO COUNTY COMMISSION	6-T3-28	5.108
Q	JDS INVESTMENTS LLC	6-T3-16	3.038
R	MELODY E. GARRISON	6-T3-33	23.386
S	JANIE K. KUHENS, A/K/A JANIE KATHERINE KUHENS	6-T3-34	0.204
T	DARLENE A. KLUG	6-T3-35	0.232
U	SUPERIOR INDUSTRIAL LAUNDRIES, INC	6-T30-26	1.060
V	PAULA C. AND ORION E. STEPHAN	6-T30-25	0.305
W	HAROLD B. AND D. J. MOORE	6-T30-24	0.360
X	ROBERT B. & EVELYN M. CLARK	6-T30-23	0.200
Y	MARVIN H. AND K. L. SWAIN	6-T30-22	0.200
Z	PHK, LLC	6-T30-21	0.450
AA	TAMMY M. HAMMONS	6-T30-20	0.360
AB	CLYDE E. MCCORD	6-T3-20	45.000
AC	STEPHEN J. AND THERESA L. GRETCHEN	6-T8-11	35.350
AD	KENNETH L. AND R. L. MURPHY	6-T8-10	6.480
AE	PAUL R. AND C. G. TEMPLIN	6-T8-9-1	0.625
AF	GARY S. AND JILL A. BOBES	6-T8-20-3	15.830
AG	HARRY A. HOHMAN	6-T8-27	56.200
AH	RYAN B. BLAKE	6-T8-25-2	1.743
AI	PATRICIA L. HULDERMAN	6-T8-25-4	0.715
AJ	CLARENCE W. HALL, JR AND THERESA M. HALL	6-T8-25-5	3.650
AK	HARRIET M. FILIUS	6-T8-37	13.750

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
AL	EARL P. FARMER & DONNA J. FARMER	6-T8-36	20.120
AM	DONALD L. & K. S. NASH	6-T8-34	3.193
AN	DEBORAH A. EDGELL, WIFE OF JAMES E. EDGELL	6-T8-32	3.595
AO	EARL W. & S. K. DAVIS	6-T8-31	2.070
AP	EARL W. & S. K. DAVIS	6-T8-30	1.980
AQ	RAYNETTE M. ANDREWS	6-T8-26-1	3.896
AR	CHARLES E. EMERY, JR & JILL L. EMERY	6-T8-17	8.560
AS	UNITED PRESBYTERIAN CHURCH OF RONEY'S POINT	6-T8C-11	0.910
AT	COREY BALDAUF	6-T8C-10	0.170
AU	HOWARD L. MINCH, JR & CHRISTINE A. MINCH	6-T8C-9	0.151
AV	RICK W. ROBINSON & CAROL B. ROBINSON	6-T8C-8	0.246
AW	RICK W. ROBINSON & CAROL B. ROBINSON	6-T8C-8-1	0.960
AX	CHARLES E. EMERY, JR & JILL L. EMERY	6-T8-17-1	3.286
AY	CHARLES E. EMERY, JR & JILL L. EMERY	6-T8-54-1	1.520
AZ	PHK LLC	6-T8-54	1.232
BA	CHARLES E. DUFFY	6-T3-36	0.2305
BB	JUSTIN S. MARSH & ASHLEY L. FONNER	6-T30-18-1	0.260
BC	HOLLY M. FLACK	6-T30-18	0.223
BD	JOSEPH A. MCKENKEN, III, SUBJECT TO LIFE ESTATE OF BARBARA ANN MCKENKEN	6-T30-17	0.550
BE	HAROLD K. SAYRE	6-T30-17-1	0.290
BF	VALLEY COIN MACHINE COMPANY LLC	6-T30-16	1.113
BG	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-T30-13	0.1128
BH	KENNETH L. NELSON	6-T30-10	0.246
BI	JOHN A. HUNTER AND CINDY M. HUNTER	6-T30-11-1	0.920
BJ	JOHN A. HUNTER AND CINDY M. HUNTER	6-T30-11	1.461
BK	JOHN A. HUNTER AND CINDY M. HUNTER	6-T30-12	0.270
BL	RANDY DALE HANNING, SR & BRENDA JOYCE HANNING	6-T3-5-2	4.549
BM	RANDY DALE HANNING, SR & BRENDA JOYCE HANNING	6-T3-5-1	0.217
BN	BOARD OF COMMISSIONERS OF OHIO COUNTY	6-T3-10	1.800
BO	BARBARA A. SHORES	6-T3-9	1.100
BP	JAMES RAYMOND HUGHES & DARLA J. HUGHES	6-T3-8	0.340
BQ	TRACEY K. ETRON & JOHN P. KETRON	6-T3-7	0.230
BR	ALFRED DERR, JR.	6-T3-6	1.100
BS	TIMMY B. & AMY LYNN MINCH	6-T3-5	161.800
BT	CARL J. SHELLER	3-L13-24	2.198
BU	VILLAGE OF VALLEY GROVE	6-T30-27	0.280

03/02/2018

REVISIONS:	COMPANY:	 	
	OPERATOR'S	OCC A OHI	
	WELL #:	6H	
	DISTRICT:	COUNTY:	STATE:
	LIBERTY	OHIO COUNTY	WV
			DATE: 02-20-2018
			FILE NO: 16-78
			DRAWN BY: A. BLACK
			SCALE: N/A
			DRAWING NO: 1
			WELL LOCATION PLAT 1