

Latitude: 40°05'00"

SURFACE HOLE 9582'

Latitude: 40°05'00" BOTTOM HOLE 1625'

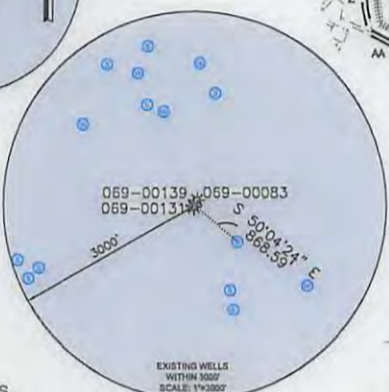
Longitude: 80°35'00"

BOTTOM HOLE 13,597'

Longitude: 80°35'00"

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: 4,436,250.96 EASTING: 532,606.90
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,436,407.84 EASTING: 533,238.97
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,432,945.20 EASTING: 535,047.68



WELL RESTRICTIONS

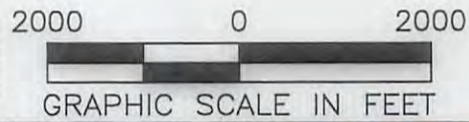
1. NO OCCUPIED DWELLINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ. FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 888.59 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS ARE WITHIN THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. 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

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.
4. 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 *[Signature]*



COMPANY: **SWN** Production Company, LLC **SWN** Production Company™

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

MASON COTTRELL OHI
 OPERATOR'S WELL #: 210H
 API WELL #: 47 STATE 69 COUNTY DD248 PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1296.0'

DISTRICT: TRIADELPHIA COUNTY: OHIO COUNTY QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: LOUIS COTTRELL, JR., AS TRUSTEE FOR MASON LOUIS COTTRELL ACREAGE: ±37.4750

OIL & GAS ROYALTY OWNER: LOUIS COTTRELL, JR., AS TRUSTEE FOR MASON LOUIS COTTRELL ACREAGE: ±37.4750

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: 6,492' TVD 20,176' 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	REVISIONS:	DATE: 09-28-2017
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		FILE NO: 16-53
⊙ EXISTING / PRODUCING WELLHEAD	== LEASE BOUNDARY		DRAWN BY: H. JOHN/A. BLACK
LPL* LANDING POINT LOCATION	— PROPOSED PATH		SCALE: 1" = 2000'
⊙ EXISTING WATER WELL			DRAWING NO: 1
⊙ EXISTING SPRING			WELL LOCATION PLAT 1

ELK LAKE SERVICES, LLC



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

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	LOUIS COTTRELL, JR., AS TRUSTEE FOR MASON LOUIS COTTRELL (S/R)	06-T3-1.1	37.4750
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	ELWOOD FRED, JR. & CHRISTINE ANN RICHTER	6-T3-4.1	26.61
3	PAUL R. & JOYCE A. SCOTT	6-T3-3	107.1700
4	RAYMOND E. CROW	6-TB-7	143.6125
5	LD REALTY, INC	6-TB-3	8.658
6	WEST VIRGINIA DOT	SR 40	UNK
7	LD REALTY, INC	6-TB-3.12	0.70
8	LD REALTY, INC	6-TB-58.1	1.0615
9	THE OHIO COUNTY COMMISSION	6-TB-40	105.3700
10	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.11	231.73
11	RSV WHEELING LLC	6-TB-40.58	2.9500
12	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.61	14.4500
13	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.37	1.0600
14	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.78	2.4800
15	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.17	22.114
16	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.48	2.0000
17	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.51	6.3900
18	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.50	3.0000
19	TARGET CORPORATION	6-TB-40.32	12.4700
20	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.18	3.03
21	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.13	5.15
22	THE OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-68	1.6800
23	WEST VIRGINIA DOT	170	UNK
24	GREGORY R. & MARY REBECCA GANTZER	6-T13-7	66.0300
25	GEORGE E. III & PATRICIA J. GANTZER	6-T13-27	16.288
26	RUSSELL GANTZER	6-T13-7.2	2.8
27	JOHN M. & ROBYN R. REIHNER & STEPHEN REIHNER	6-T13-15	96.955

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	MELVIN W. KAHLE JR.	6-T2-35	16.594
B	MELVIN W. KAHLE JR.	6-T2-36	30.06
C	CHARLES R. III & MELISSA R. OCH	6-TB-1	22.605
D	LOUIS COTTRELL, JR.	6-T3-1.2	2.5
E	JAMES C. GOMPERS	6-T3-4.2	47.81
F	MILDRED ELAINE BOREMAN	6-TB-6	1.76
G	JASON A. AND NICOLE D. MARSHALL	6-TB-6.5	34.67
H	L D REALTY, INC	6-TB-3.6	4.394
I	CHARLES R. & MONA L. CUNNINGHAM	6-TB-3.2	1.176
J	KIM STEPHENS MATTIS & FAYE MATTIS	6-TB-6.1	0.245
K	KIM S. & FAYE MATTIS	6-TB-6.4	0.0769
L	CHARLES E. & THERESA NORMAN	6-TB-6.2	0.451
M	JAMES H. & NORMA L. LUCAS	6-TB-6.3	0.48
N	L D REALTY INC	6-TB-3.9	1.956
O	CB PROPERTIES LLC	6-TB-3.8	2.081
P	OHIO VALLEY BAPTIST CHURCH	6-TB-3.4	0.279
Q	PHK LLC	6-TB-3.11	0.506
R	PHK LLC	6-TB-55	0.8
S	PHK LLC	6-TB-3.13	0.4176
T	PHK LLC	6-TB-59	0.537
U	PHK LLC	6-TB-57	0.332
V	BETTY WOODS NUTTING	6-TB-40.62	4.925
W	BETTY WOODS NUTTING	6-TB-40.10	19.14
X	MICHAEL E. RICHARDS & LEROY E. RICHARDS	6-TB-41.2	12.437
Y	MARCIA KIRKLAND	6-TB-41.1	12.437
Z	CHRISTOPHER F. & ALYCE F. PAGANO	6-TB-62	5.169
AA	THOMAS J. HOWARD	6-TB-42	11.291
BB	OHIO COUNTY DEVELOPMENT	6-TB-40.5	108.996
CC	OHIO COUNTY DEVELOPMENT	6-TB-40.45	59.94
DD	OHIO COUNTY DEVELOPMENT	7-TW10-1	106.51
EE	CONGREGATION L'SHEM SHOMAYIM	7-TW12-13	13.19
FF	DAVID A. O'BRIEN	6-T13-3.1	20.425
GG	MENARD, INC.	6-TB-40.57	27.8
HH	MENARD, INC.	6-TB-40.69	15.57
II	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.70	0.92
JJ	OHIO COUNTY DEVELOPMENT	6-TB-40.28	7.019
KK	OHIO COUNTY DEVELOPMENT	6-TB-40.27	4.011
LL	OHIO COUNTY DEVELOPMENT	6-TB-40.26	3.008
MM	WAL-MART REAL ESTATE BUSINESS TRUST	6-TB-40.30	21.61
NN	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.65	1.815
OO	255 MAIN STREET, LLC	6-TB-40.49	1.378
PP	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.76	0.157
QQ	OHIO COUNTY DEVELOPMENT	6-TB-40.18	2.92
RR	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.54	3.97
SS	TRIADELPHIA ASSOCIATES, LLC, & PLAZA AT THE HIGHLANDS ASSOCIATES, LLC	6-TB-40.67	2.6
TT	OHIO COUNTY DEVELOPMENT	6-TB-40.55	0.35
UU	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.56	0.72
VV	FCPT RESTAURANT PROPERTIES, LLC	6-TB-40.46	1.68
WW	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.41	7.45
XX	KOHL'S	6-TB-40.42	6.3
YY	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.53	4.99
ZZ	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.52	13.0
AB	CENTURY TCS, LLC	6-TB-40.71	2.00
AC	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.60	1.37
AD	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.47	1.97
AE	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.40	26.34
AF	GEORGE E. GANTZER III	6-T13-6.2	82.019
AG	WILLIAM A. ISALY JR.	6-T13-7.1	2.8
AH	GREGORY R. & MARY REBECCA GANTZER	6-T13-7.3	2.8
AI	RUSSELL F. GANTZER	6-T13-7.4	2.8
AJ	GREGORY R. GANTZER	6-T13-8	3.586

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
AK	GEORGE E. III & PATRICIA C. GANTZER	6-T13-9	79.55
AL	FRANK J. RODAK	6-T13-14	102.28
AM	BRIANNA DAWN RODAK	6-T13-14.2	8.117
AN	WILLIAM & MARY J. LANGMYER	6-T13-14.1	3.6
AO	WILLIAM & MARY J. LANGMYER	6-T13-17.2	21.6
AP	DEBORAH ANN & SETH COLLIN CRAIG	6-T13-16	84.63
AQ	THOMAS D. REIHNER	6-T13-15.1	2.045
AR	JONATHAN P. DUGGAN & JAMES P. DUGGAN	6-TB-46	67.966
AS	GEORGE E., III & PATRICIA C. GANTZER	6-TB-49	20.26
AT	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.74	5.27
AU	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.19	1.86
AV	RUSSELL STOVER CANDIES INC	6-TB-40.24	1.25
AW	APPALACHIAN LAND & LEASING COMPANY LLC	6-TB-40.25	1.82
AX	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.34	0.85
AY	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.77	0.435
AZ	PTM LP	6-TB-40.59	2.53
BA	OHIO COUNTY DEVELOPMENT	6-TB-40.38	1.16
BC	NATIONAL RETAIL PROPERTIES, LP	6-TB-40.39	2.29
BD	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.33	1.60
BE	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.36	1.20
BF	CENTURY HOSPITALITY	6-TB-40.68	2.0
BG	OHIO COUNTY DEVELOPMENT AUTHORITY	6-TB-40.44	0.46
BH	OHIO COUNTY DEVELOPMENT	6-TB-40.20	6.45
BI	GAIL W. KAHLE	6-TB-38	18.865
BJ	PHK LLC	6-TB-58	2.65
BK	PHK LLC	6-TB-3.14	0.3627
BL	CHARLES E. NORMAN	6-TB-7.2	0.64
BM	RAYMOND CROW & SANDRA L. CROW	6-TB-7.4	0.685
BN	RAYMOND CROW & SANDRA L. CROW	6-TB-7.3	0.685
BO	JAMES H. LUCAS	6-TB-8.4	1.708
BP	KENNETH W. MURRAY, SR., & WILBUR E. MURRAY, JR.	6-TB-8	1.498
BQ	GLORIA J. & DAVID M. GREEN	6-TB-8.3	1.725
BR	HOLLY LYNN NORMAN	6-TB-8.2	2.902
BS	JOSEPH L. & SALLY PARSONS	6-TBB-1	5.0
BT	JOSEPH L. & SALLY PARSONS	6-T3P-1	5.96
BU	RUSSELL W. BEABOUT	6-T30-8	15.381
BV	TIMMY B. & AMY LYNN MINCH	6-T3-5	161.8
BW	EDWARD A. HATCHER	3-L13-1.5	5.0
BX	ANNA C. MAXWELL, TRUSTEE OF THE ANNA C. MAXWELL REVOCABLE TRUST	3-L13-1	206
BY	HELEN J. MILLER	4-R18-11	128.65
BZ	JAMES B. & KRISTAL A. TEMPLE	4-R18-11.1	3.208
CA	JANET C. WINEMAN SPARKS	6-T2-31	7.85
CB	KERRY A., JR., & DANIELLE M. PHILLIPS	6-T3-3.2	0.585
CD	WILLIAM CLIFFORD & RACHEL DAWN COLEMAN	6-T2-32	19.592
CE	CARL E. & SONDR A. GROVER	6-T3-31	1.00
CF	JAMES J. KUTHY	6-T3-32	1.00
CG	CLARISS L. PAUL & WALTER R. PAUL JR & WALTER R. PAUL SR	6-T3-30	0.7
CH	CLARISS L. PAUL & WALTER R. PAUL JR & WALTER R. PAUL SR	6-T3-29	0.277
CI	MATTHEW BLAIR & AMBER LYNN HINES	6-T3-2	6.48
CJ	RAYMOND MICHAEL RAINES	6-T3-2.1	0.82
CK	RAYMOND MICHAEL RAINES	6-T3-2.2	1.0
CL	GEORGIA A. PETTIT, PATRICIA HARTON & DEBORAH PETTIT	6-TB-60	0.077
CM	GEORGIA A. PETTIT, PATRICIA HARTON & DEBORAH PETTIT	6-TB-61	0.228
CN	KIM STEPHEN MATTIS & FAYE MATTIS	6-TB-6.4	0.0769
CO	GEORGIA A. PETTIT, PATRICIA HARTON & DEBORAH PETTIT	6-TB-3.3	3.2

11/03/2017

REVISIONS:	COMPANY:	 	
	OPERATOR'S	MASON COTTRELL OHI	
	WELL #:	210H	
	DISTRICT:	COUNTY:	STATE:
	TRIADELPHIA	OHIO COUNTY	WV
			DATE: 09-28-2017
			FILE NO: 16-53
			DRAWN BY: H. JOHN/A. BLACK
			SCALE: N/A
			DRAWING NO: 1
			WELL LOCATION PLAT 1