

Latitude: 40°10'00" SURFACE HOLE 6,676'

Latitude: 40°12'30" BOTTOM HOLE 10,721'

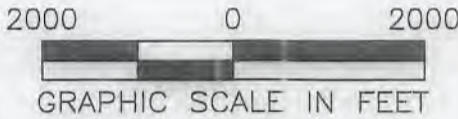
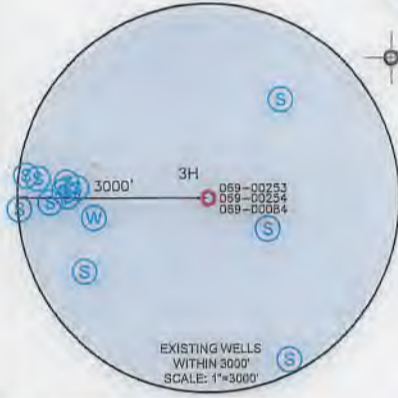
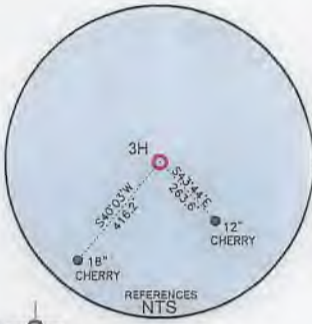
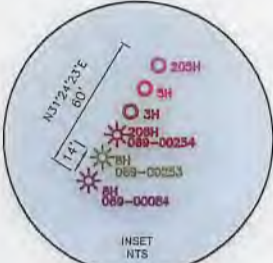
JACKSON SURVEYING INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,688.537 EASTING: 540,551.025
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,852.362 EASTING: 540,467.314
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,867.815 EASTING: 539,299.769

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 43°43'48" E	1915.39'	SHL TO LANDMARK	FENCE CORNER
L2	S 79°36'23" W	1044.64'	SHL TO LANDMARK	CORNER POST
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 27°03'56" W	603.58'	609.97'	SHL TO LP



- 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.
 - NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF 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. 708 *David L Jackson*

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC OPERATOR'S WELL #: ROY RIGGLE OHI 3H API WELL #: 47 069 00294 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: CASTLEMAN RUN OF BUFFALO CREEK (HUC-10) ELEVATION: 1,251.8'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV-PA

SURFACE OWNER: ROY & DEBRA R. RIGGLE ACREAGE: ±171.18

OIL & GAS ROYALTY OWNER: ROY & DEBRA R. RIGGLE ACREAGE: ±171.18

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: 6,464' TVD 17,415' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378

DESIGNATED AGENT: BRITTANY WOODY ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	SURVEYED BOUNDARY DRILLING UNIT EXISTING / PRODUCING WELLHEAD LEASE BOUNDARY LPL: LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING PROPOSED PATH	REVISIONS: DATE: 10-25-2018 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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02/08/2019

Longitude: 80°30'00" SURFACE HOLE 5,501'

Longitude: 80°30'00" BOTTOM HOLE 10,224'

Longitude: 80°30'00"



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02/08/2019

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	ROY RIGGLE & DEBRA R. RIGGLE (S/R)	03-L6-14
TRACT	SURFACE OWNER	TAX PARCEL
2	TIMOTHY ALAN RYAN (S)	03-L6-4
3	DANIEL P. TUSTIN SR. & VICKI L. TUSTIN (S)	03-L3-3
4	DANIEL P. TUSTIN SR. & VICKI S. TUSTIN (S)	03-L3-3.1
5	DANIEL P. TUSTIN SR. & VICKI S. TUSTIN (S)	03-L3-2.3
6	EDWARD JOHN COVEY & ROSEMARY ANN COVEY (S)	03-B54-8
7	CHRISTOPHER J. COVEY & LELA G. COVEY (S)	03-L3-4
8	ROBERT E. JONES LIVING TRUST DATED 11/12/10 (S)	03-B49-12
9	PERRY JEFFERSON JONES, JR. & BRANDY SUE JONES (S)	03-B49-8
10	WV DEPT. OF NATURAL RESOURCES (S)	03-B49-7
11	WV BUREAU OF COMMERCE DIV. OF NATURAL RESOURCES (S)	03-B49-1

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MICHAEL WILHELM & JULIA E. WILHELM	03-L6-20
B	JASON MICHAEL WILHELM & CRYSTAL LOUISE WILHELM	03-L6-20.6
C	WILLIAM RODGER, L/E	03-L6-16
D	JOYCE ANN STRAUSS	03-L6-08
E	FEDERAL NATIONAL MORTGAGE ASSOCIATION	03-L6-05
F	DOROTHY TUSTIN (LIFE ESTATE)	03-L3-3.2
G	EDGAR D. WOOD	03-L6-02
H	JOHN S. FREEMAN & N. FREEMAN	03-L3-2.2
I	RICHARD P. FORSHEY	03-B54-13
J	RICHARD P. FORSHEY	03-B54-12
K	ROSEMARY ANN COVEY	03-B54-11
L	ROSEMARY ANN COVEY	03-B54-10
M	ROSEMARY ANN COVEY	03-B54-09
N	JACQUELINE D. CONNARD	03-B54-04
O	JACQUELINE D. CONNARD	03-B54-05
P	VEMURI HOME & GARDEN, LLC	03-B54-06
Q	VEMURI HOME & GARDEN, LLC	03-B54-07
R	EVERETT L. CARMICHAEL	03-B54-03
S	JAMES UNDERWOOD	03-B54-02
T	STATE ROAD OF WEST VIRGINIA	03-B54-01
U	STATE ROAD OF WEST VIRGINIA	03-B49-13
V	DANIEL E. WALDEN	03-B49-06
W	ANDREW P. HOGAN	03-B48-34
X	CLIFFORD E. COUNSELMAN	03-B49-02
Y	PERRY J. JONES, JR.	03-B49-8.1
Z	PERRY JEFFERSON JONES	03-B49-09
AA	PERRY JEFFERSON JONES	03-B49-09
BB	MARK S. GRACY & CAROL B. GRACY	230-023-00-00-0010-06
CC	RITA V. QTIP JONES, TR.	230-016-00-00-0001-00
DD	ROY RIGGLE & DEBRA R. RIGGLE	230-016-00-00-0003-00
EE	KEENER PRIMARY RES. PROTECTOR TRUST	230-015-00-00-0005-00

REVISIONS:	COMPANY:	 	
	OPERATOR'S	ROY RIGGLE OHI	
	WELL #:	3H	
	DISTRICT:	COUNTY:	STATE:
	LIBERTY	OHIO	WV
			DATE: 10-25-2018
			DRAWN BY: N. MANO
			SCALE: N/A
			DRAWING NO:
			WELL LOCATION PLAT 2