

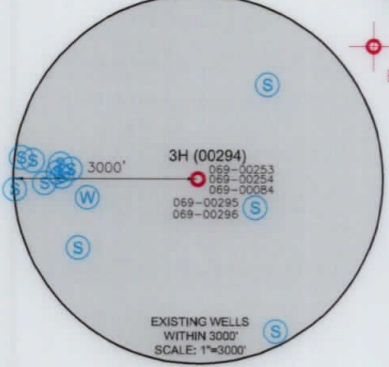
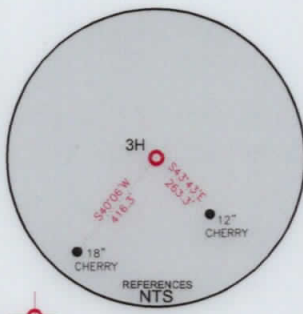
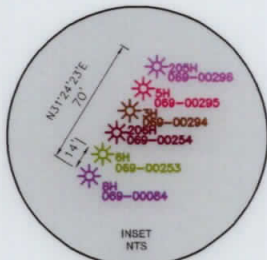
JACKSON SURVEYING INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26301
 304-623-5851

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

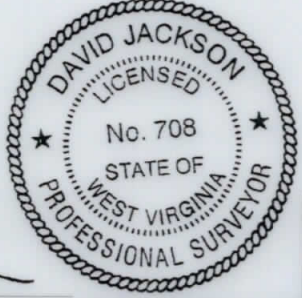
GRID NORTH
 UTM, NAD83 DATUM, ZONE 17, US FT

Latitude: 40°10'00" SURFACE HOLE 6,676'
 Latitude: 40°12'30" BOTTOM HOLE 10,740'

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 43°43'12" E	1915.30'	SHL TO LANDMARK	FENCE CORNER
L2	S 79°37'08" W	1044.91'	SHL TO LANDMARK	CORNER POST
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 22°23'17" W	641.20'	1044.03'	SHL TO LP



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,688.485 EASTING: 540,551.118
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,869.192 EASTING: 540,476.679
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,866.537 EASTING: 539,293.919



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*



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

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

ROY RIGGLE OHI
 OPERATOR'S WELL #: 3H
 API WELL #: **47** **069** **00294**
 STATE COUNTY PERMIT

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) ASDRILLED
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,467' TVD 17,498' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200
 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	— SURVEYED BOUNDARY	REVISIONS:	DATE: 09-18-2019
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
★ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		
LPL★ LANDING POINT LOCATION	— ASDRILLED PATH		DRAWN BY: N. MANO
⊕ EXISTING WATER WELL	— PROPOSED PATH		SCALE: 1" = 2000'
⊙ EXISTING SPRING			DRAWING NO:
			WELL LOCATION PLAT

JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV
 26301304-623-5851

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	DATE: 09-18-2019
	WELL #:	3H	DRAWN BY: N. MANO
	DISTRICT:	LIBERTY	SCALE: N/A
	COUNTY:	OHIO	DRAWING NO:
	STATE:	WV	WELL LOCATION PLAT 2