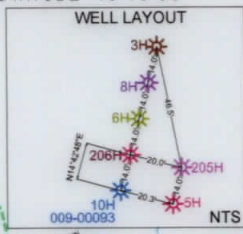
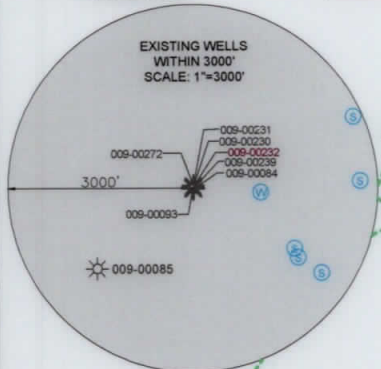


(2000' SCALE) SURFACE HOLE LATITUDE 40°12'30" 2975'

(2000' SCALE) BOTTOM HOLE LATITUDE 40°10'00" 11398'



www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100



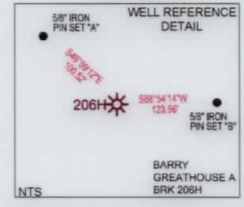
NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. 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.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

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

(2000' SCALE) BOTTOM HOLE LONGITUDE: -80°35'00"
(2000' SCALE) SURFACE HOLE LONGITUDE: -80°37'30"

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4449075.14 EASTING: 531013.75
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448869.68 EASTING: 530810.73
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445692.04 EASTING: 532010.16
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4449075.14 EASTING: 531013.75
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448883.35 EASTING: 530792.49
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4445693.05 EASTING: 532014.41



LINE	BEARING	DISTANCE
L1	S14°49'18"W	1125.90'
L2	N35°14'47"W	1115.50'



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. 2041 [Signature]



(+) 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)

BARRY GREATHOUSE A BRK		
OPERATOR'S WELL #:	206H	
API WELL #:	47	009 232
	STATE	COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH
DISTRICT: BUFFALO COUNTY: BROOKE
SURFACE OWNER: BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE
OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,906' TVD 17,372' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE: 11-18-2019
EXISTING BOTTOM HOLE		
EXISTING / PRODUCING WELLHEAD		
EXISTING LANDING POINT LOCATION		
PROPOSED SURFACE HOLE / BOTTOM HOLE		
PROPOSED LANDING POINT LOCATION		
ACCESS ROAD		
PUBLIC ROAD		
FLOOD PLAIN		
LEASE BOUNDARY		
AS-DRILLED PATH		
PROPOSED PATH		

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE (S) RAYLE COAL COMPANY (R)	03-B41-0082.0000
TRACT	SURFACE OWNER	TAX PARCEL
2	DANNY GENE BRITT & VIRGINIA MARGARET BRITT	03-B46-0027.0000
3	TRACY GILBERT	03-B46-0022.0000
4	BUSTER T. BLAKE & BARBARA A. BLAKE	03-B46-0023.0000
5	GARY L. WILLIAMS & MARGIE WILLIAMS	03-B46-0025.0000
6	MY THREE SONS HOLDING LP.	03-B46-0024.0000
7	GARY HERCULES & MARTHA HERCULES	04-R6-4
8	GARY & MARTHA HERCULES	04-R6-4.1
9	SHORT CREEK COAL CO	04-R6-17.3
10	SHORT CREEK COAL CO	04-R6-17.4
11	WINDELL H. & G. GOFF	04-R6-27.1

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	ROBERT J. MILLER JR. & LINDA MILLER	03-B41-0047.0000
B	JAY GLEN COLLINS	03-B41-0080.0000
C	DALE T. WOOD & MARY R. WOOD	03-B41-0084.0000
D	JAMES B. GEBHARDT & MELISSA D. GEBHARDT	03-B46-0029.0000
E	RACHAEL R. BAXTER	03-B46-0028.0000
F	GRACE FRIEND	03-B46-0030.0000
G	REBECCA FRIEND	03-B46-0026.0000
H	TERRY L. CRUPE	03-B46-0033.0000
I	ALFRED SCHELL	03-B46-0037.0000
J	MELISSA KERNS, CHRISTINA A. KERNS, TIMOTHY E. KERNS & JEANETTE M. KERNS	03-B46-0040.0001
K	TIMOTHY E. KERNS & JEANETTE M. KERNS	04-R6-8.1
L	MELISSA ANN KERNS	04-R6-8
M	ULRICH UTT	04-R6-24.1
N	ULRICH UTT	04-R6-24.2
O	GARY & MARTHA HERCULES	04-R6-6.1
P	GARY & MARTHA HERCULES	04-R6-5
Q	GARY & MARTHA HERCULES	04-R6-6
R	GARY WAYNE HERCULES	04-R6-16
S	WINDSOR COAL COMPANY C/O CNX LAND-PROPERTY TAX	04-R6-12
T	WAYNE E SHOOK	04-R6-15
U	CHARLES B. DAVIS, III & ELIZABETH MARIE DAVIS	04-R6-14.4
V	RANDALL L. CRABTREE & CYNTHIA S. KOVALSKI	04-R6-27.3
W	NICOLE L. CARENBAUER	04-R6-28.6
X	WINDELL H. GOFF, II & GLADYS GOFF	04-R6-24.3
Y	STELLA M. BRYAN & KATHLEEN J. BRYAN	04-R6-17.1
Z	WINDSOR COAL COMPANY C/O CNX LAND-PROPERTY TAX	04-R6-25
AA	RICHARD A. WOOD, JR.	04-R6-24.6
AB	SHORT CREEK COAL COMPANY C/O RAYLE COAL COMPANY	04-R6-17
AC	SHORT CREEK COAL COMPANY C/O RAYLE COAL COMPANY	04-R6-17.2
AD	OHIO COUNTY BOARD OF COMMISSIONERS	04-R5-55
AE	WINDSOR COAL COMPANY C/O CNX LAND-PROPERTY TAX	04-R6-25
AF	BRUCE D. BONAR (2) & WILLIAM BONAR (1)	03-B46-0020.0000
AG	TRACY GILBERT	03-B46-0023.0001
AH	TRACY GILBERT	03-B46-0022.0001
AI	OHIO COUNTY BOARD OF COMMISSIONERS	04-R5-10
AJ	STACY ANN GREATHOUSE & PATRICIA ANN GREATHOUSE	03-B46-0041.0000
AK	BARRY L. GREATHOUSE & PATRICIA ANN GREATHOUSE	03-B41-0083.0000
AL	BARRY L. GREATHOUSE & PATRICIA ANN GREATHOUSE	03-B41-0032.0000

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R-V+}
Production Company™

OPERATOR'S BARRY GREATHOUSE A BRK

DATE: 11-18-2019

WELL #: 206H

DRAWN BY: R.GRIMES

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

SCALE: N/A

DRAWING NO: 2017-422

WELL LOCATION PLAT

PROPERTY NUMBER 2501166084
PAD ID 3001156331