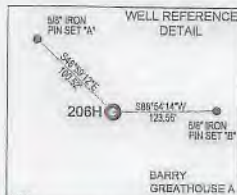


(2000' SCALE) SURFACE HOLE LATITUDE 40°12'30" 2924'

(2000' SCALE) BOTTOM HOLE LATITUDE 40°10'00" 11374'



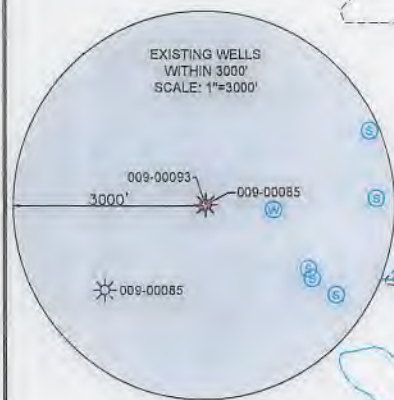
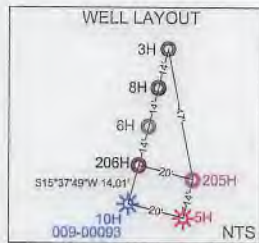
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100



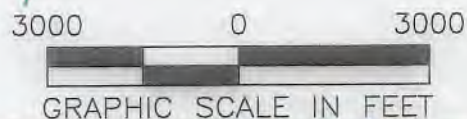
NOTES ON SURVEY

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 TRIBUTARY STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

01/04/2019



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



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

SWN Production Company, LLC Production Company™

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	BARRY GREATHOUSE A BRK
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 206H
WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>		API WELL #: 47 009 00232 STATE COUNTY PERMIT	
WATERSHED: UPPER OHIO SOUTH		ELEVATION: 1136.0'	
DISTRICT: BUFFALO COUNTY: BROOKE		QUADRANGLE: TILTONSVILLE, OH & BETHANY, WV	
SURFACE OWNER: BARRY L. GREATHOUSE & PATRICIA A. GREATHOUSE		ACREAGE: ±229.00	
OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY		ACREAGE: ±229.00	
DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/>		ESTIMATED DEPTH: 5,915' TVD 17,439.2' TMD	
CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)			
TARGET FORMATION: MARCELLUS			
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		DESIGNATED AGENT: BRITTANY WOODY	
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:		REVISIONS:	
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD LPL: LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊙ EXISTING SPRING — SURVEYED BOUNDARY — DRILLING UNIT ----- LEASE BOUNDARY — PROPOSED PATH 		DATE: 09-28-2018	
		DRAWN BY: D. REED	
		SCALE: 1" = 3000'	
		DRAWING NO: 2017-422	
		WELL LOCATION PLAT	

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

01/04/2019

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 DAIVS	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 (3) & WILLIAM BONAR (4)	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 ^{RT} ^A ^{V+} ^o
Production Company™

OPERATOR'S BARRY GREATHOUSE A BRK

DATE: 09-28-2018

WELL #: 206H

DRAWN BY: D. REED

DISTRICT:
BUFFALO

COUNTY:
BROOKE

STATE:
WV

SCALE: N/A
DRAWING NO: 2017-422
WELL LOCATION PLAT

PROPERTY NUMBER 2501166084
PAD ID 3001156331

47-001-00232