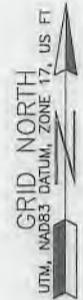
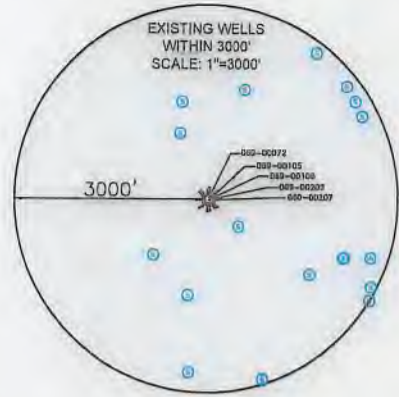
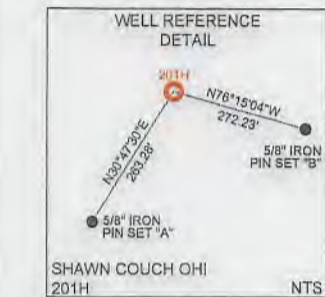
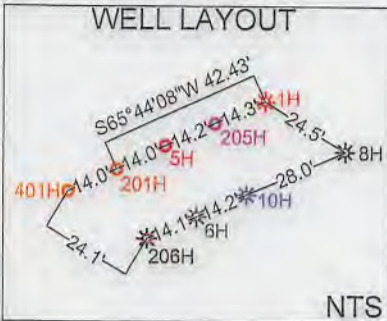


LATITUDE: 40°10'00" SURFACE HOLE (2000' SCALE) ← 1573' →

9982'
LATITUDE: 40°12'30" BOTTOM HOLE (2000' SCALE)



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

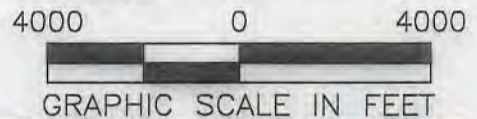


6097'
LONGITUDE: 80°35'00" BOTTOM HOLE (2000' SCALE)
6874'
LONGITUDE: 80°35'00" SURFACE HOLE (2000' SCALE)

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444246.73 EASTING: 535029.26
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444129.40 EASTING: 534490.46
TURNING POINT LOCATION (TPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4446504.98 EASTING: 533620.02
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4449101.61 EASTING: 532443.18

LINE	BEARING	DISTANCE
L1	S53°09'55"W	1753.14'
L2	S57°33'33"W	1605.84'

- NOTES ON SURVEY**
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - 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.
 - NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.



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

COMPANY: **SWN** Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>OPERATOR'S WELL #: SHAWN COUCH OHI 201H</p> <p>API WELL #: 47 069 00315 STATE COUNTY PERMIT</p>
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,246.9'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV

SURFACE OWNER: SHAWN W. COUCH (TRUST) ACREAGE: ±144.29

OIL & GAS ROYALTY OWNER: LL&B HEADWATER II, LP & RESOURCE MINERALS HEADWATER I, LP ACREAGE: ±144.29

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: 6,171' TVD 24,523' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201



CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

<p>LEGEND:</p> <ul style="list-style-type: none"> PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL/TPL * LANDING/TURNING POINT LOCATION EXISTING WATER WELL EXISTING SPRING NATURAL WATERWAY SURVEYED BOUNDARY LEASE BOUNDARY PROPOSED PATH PUBLIC ROAD 	<p>REVISIONS:</p> <table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>									<p>DATE: 07-26-2019</p> <p>API NO: 47-069-XXXX</p> <p>DRAWN BY: D. REED</p> <p>SCALE: 1" = 4000'</p> <p>DRAWING NO: 2019-0523</p> <p>WELL LOCATION PLAT</p>

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SHAWN W. COUCH (TRUST) (S) L&B HEADWATER II, LP & RESOURCE MINERALS HEADWATER I, LP (R)	03-L4-110.0
TRACT	SURFACE OWNER	TAX PARCEL
2	WINDSOR POWER HOUSE COAL COMPANY	03-L4-105.7
3	DIXIE MYERS PRITT	03-L4-105.8
4	B.G. RIDLER & J.M. TALLMON	03-L4-105.12
5	HOLLAND PARK LIMITED LIABILITY	03-L4-105.0
6	ELIZABETH H HESTICK; ESTATE OF BENJAMIN R. HONECKER	03-L4-104.0
7	DENNY A. WARNER	03-L4-104.3
8	ELIZABETH H HESTICK; ESTATE OF BENJAMIN R. HONECKER	03-L4-103.0
9	JASON D. HUNTER	03-L4-104.1
10	JASON D. HUNTER	03-L4-104.2
11	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.0
12	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.4
13	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.5
14	JAMES LYNN ULLOM	09-WL6-8.0
15	ELESKO, INC	09-WL6-7.0
16	JOHN R. & JUDITH D. HENNING	09-WL6-6.0
17	WEST RENTALS, INC	03-L1-22.0
18	JANET M. UTTERMOHLEN	03-L1-23.0
19	WEST LIBERTY UNIVERSITY	03-L1-22.1
20	MATTHEW P. BONAR	03-L1-4.0
21	THOMAS F. ROTHERMUND	03-L1-4.1
22	CHARLES W. & CHARLOTTE R. BONAR	03-L1-2.6
23	LAWRENCE & MARTHA SAYRE	03-B47-14.0
24	JOSEPH S. & JANE M. BUREK	03-B47-19.0
25	ELIZABETH ELLEN FLUHARTY	03-B47-18.0
26	JAMES M. & KATHY L. MAYHEW; ANDREW G. ROMANYAK & REGINA M. VANCAMP	03-B42-27.0
27	APPALACHIA MIDSTREAM SERVICES, LLC	03-B42-29.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	BELLE LANE, LLC	03-L4-109.0
B	DELBERT K., JR. & L.K. MYERS	03-L4-107.0
C	RUDY, JR. & J.A. FAZZINI	03-L4-105.3
D	RUDY, JR. & J.A. FAZZINI	03-L4-105.9
E	RICARDO PACHECO & D.L. BUMBAUGH	03-L4-105.10
F	RICARDO R. PACHECO & DONNIE L. BUMBAUGH	03-L4-105.11
G	JOHN C. & A.F. MYERS	03-L4-108.0
H	GARY V. HAND	03-L4-96.0
I	DOROTHY A. WINESDORFFER	03-L4-105.15
J	JOSEPH S. & BRENDA J. NELSON	03-L4-105.2
K	DAVID R. & CARRIE A. HANNA	03-L4-105.6
L	ARLIE R., JR. & BELINDA D. MCCARDLE	03-L4-105.5
M	ARLIE R. MCCARDLE, JR. & B. BOND	03-L4-105.17
N	DORA M. MCCARDLE	03-L4-105.13
O	PAUL F. ADAMS	03-L4-105.16
P	PAUL F. ADAMS	03-L4-105.14
Q	MICHAEL E. SAMPSON	03-L4-105.4
R	RACHEL ANN SINCAVICH	03-L4-2.0
S	ELIZABETH R. HONECKER (L/E: JANET HONECKER)	03-L4-104.4
T	PAUL M. MCKAY, DEBORAH A. MCKAY & JANET L. HONECKER	03-L4-123.0
U	ELIZABETH R. HONECKER (L/E: JANET HONECKER)	03-L4-124.0
V	ELIZABETH L. HONECKER & ELIZABETH H. HESTICK	03-L1-42.0
W	PAUL ROLAND CLUNE, III & JESSICA LEE WHEATON	03-L1-42.1
X	STEPHANIE A. ENNIS	09-WL10-8.0
Y	WILLIAM R. & R.L. MYERS	09-WL10-9.0
Z	CYNTHIA L. JOHNSON	09-WL10-11.1
AA	TIMOTHY L. MONROE & ET AL	09-WL10-11.0
AB	JOHN C. & MARY P. PERRY	09-WL10-14.0
AC	FOWLCON LIMITED LIABILITY COMPANY	09-WL10-13.0
AD	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.2
AE	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.3
AF	DALE M. SAMPSON	09-WL6-11.0
AG	DALE M. SAMPSON	09-WL6-12.0
AH	DALE M. SAMPSON	09-WL6-8.1
AI	NELSON E. & S.C. MCCLURE	09-WL6-10.0
AJ	CHRISTOPHER & CYNTHIA PAUL	09-WL6-9.0
AK	DALE M. SAMPSON	03-L1-24.0
AL	GARRET L. PATTERSON	03-L1-3.0
AM	ALLEN O. DAVIS	03-L1-2.1
AN	TIMOTHY A. BYHANNA	03-L1-2.3
AO	PHARES O. EVANS	03-L1-2.2
AP	CHARLES W. & M.C. NICHOLSON	03-L1-2.4
AQ	WINDSOR POWER HOUSE COAL COMPANY	03-L1-1.0
AR	DALE M. SAMPSON	04-R6-18.0
AS	TERRI L. MCCOY	03-L1-2.5
AT	DOROTHY A. THOMAS	03-B47-13.0
AU	LAWRENCE & MARTHA J. SAYRE	03-B47-12.0
AV	SANDRA SMITH, LINDA SMITH & EARLENE NICHOLSON	03-B47-11.0
AW	JODY BRITTON & JANIE L. BRITTON	03-B47-10.0
AX	JACK KLEIN & JENNIFER GEORGE	03-B47-8.0
AY	DAVID A. & CRYSTAL G. DUNN	03-B47-7.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AZ	MARK A. WADE & MARY IVA SMITH	03-B47-4.0
BA	JOHN E. SHARIER, III	03-B47-3.0
BB	BETSY D. TUSTIN	03-B47-2.1
BC	ROBERT FINSLY, JR.	03-B47-1.1
BD	JAMES LAMONT	03-B47-1.0
BE	DALE T. & MARY R. WOOD	03-B46-46.0
BF	DALE T. & MARY R. WOOD	03-B41-84.0
BG	JAY GLEN COLLINS	03-B41-80.0
BH	APPALACHIA MIDSTREAM SERVICES, LLC	03-B42-30.0
BI	APPALACHIA MIDSTREAM SERVICES, LLC	03-B42-31.0
BJ	HENRY HEINZROTH	03-B42-32.0
BK	JAMES L. BONAR & ET AL	03-B42-54.0
BL	MIKE RYNAWEC	03-B42-33.0
BM	MIKE RYNAWEC	03-B42-34.0
BN	LAWRENCE GRANT PAUGH	03-B47-20.0
BO	LAWRENCE G. & CATHIE SUE PAUGH	03-B47-21.0
BP	STETSON E. & WENDY S. SUTER	03-B47-23.0
BQ	CAROL DWYER	03-B47-25.0
BR	DEREK J. & NICOLE L. ENNIS	03-L1-43.0
BS	DEREK J. & NICOLE L. ENNIS	03-L1-4.2
BT	CHARLES BONAR	03-L1-21.1
BU	MICHAEL A. & DIANA L. RICE	09-WL3-3.0
BV	NJS HOLDINGS, LLC	09-WL3-51.0
BW	SHANE R. & LORI A. GLASS	09-WL3-53.0
BX	SHANE R. & LORI A. GLASS	09-WL3-54.0
BY	WEST LIBERTY FEDERATED CHURCH, TRUSTEES	09-WL3-62.1
BZ	CATHOLIC DIOCESE OF WHEELING-CHARLESTON	09-WL2-1.0
CA	SUSAN HERRICK	09-WL6-1.0
CB	AARON C. & COURTNEY N. HUFFMAN	09-WL6-3.0
CC	CB DAVIS PROPERTIES, LLC	09-WL6-4.0
CD	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	09-WL6-5.0
CE	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.6
CF	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.8
CG	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.9
CH	WEST LIBERTY STATE COLLEGE BOARD OF GOVERNORS	03-L1-35.1
CI	BOARD OF EDUCATION	09-WL7-30.1
CJ	WHEELING ELECTRIC COMPANY	09-WL7-30.3
CK	DAVID T. READ	09-WL7-30.0
CL	K.L. & R.M. FOWLER	09-WL7-31.0
CM	SCOTTIE W. & CONNIE M. GRAHAM	09-WL7-16.1
CN	KIMBERLY ANN CUSTER	03-L1-36.0
CO	MARK W. & DAWN L. WILSON	03-L1-39.11
CP	DAVID LEE BECK	03-L1-39.7
CQ	DAVID L. BECK	03-L1-39.12
CR	JAMES H. & ROBIN L. BEAVER	03-L1-39.14
CS	MARK A. DUVALL	03-L1-39.1
CT	STEVEN M. MUGLUMPHY	03-L4-110.3
CU	DENNY A. WARNER	03-L4-104.5
CV	DIXIE M. & L. LAUDERMILT	03-L4-106.1
CW	B.G. RIDLER & J.M. TALLMON	03-L4-106.0
CX	DONALD E. GILBERT, JR.	03-L4-112.0
CY	B.G. RIDLER & J.M. TALLMON	03-L4-113.0
CZ	ROBERT E. & E.C. DUVALL	03-L4-111.1
DA	MARK P. & ANNELEISE KAUFMAN	03-L5-2.0
DB	TODD E. PORTER	03-L4-125.0
DC	WILLIAM S. PATTERSON, JR.	03-L4-115.0
DD	MARK E. NORMAN	03-L4-110.2
DE	PAUL & RHONDA TYRMA	03-L4-114.0
DF	APPALACHIA MIDSTREAM SERVICES, LLC	03-L4-110.1
DG	APPALACHIA MIDSTREAM SERVICES, LLC	03-L4-117.0
DH	CHARLES BONAR	03-L1-21.0
DI	CHARLES W. BONAR	03-L1-21.2
DJ	WEST RENTALS, INC	03-L1-4.3

REVISONS:	COMPANY:  		
	OPERATOR'S WELL #:	SHAWN COUCH OHI 201H	
DISTRICT: LIBERTY	COUNTY: OHIO	STATE: WV	DATE: 07-26-2019 API NO: 47-069-XXXX DRAWN BY: D. REED SCALE: N/A DRAWING NO: 2019-0523 WELL LOCATION PLAT