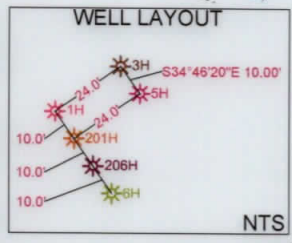
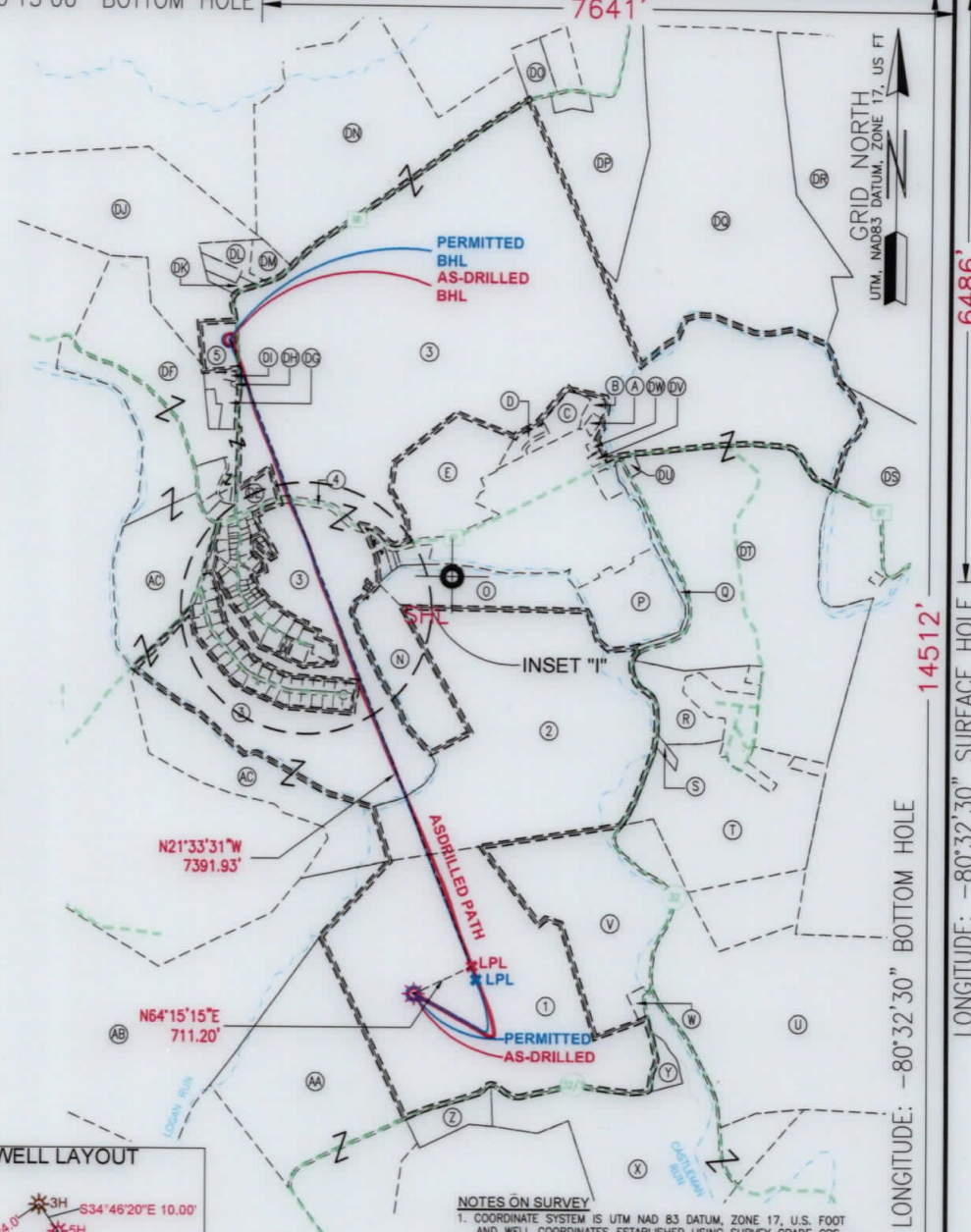
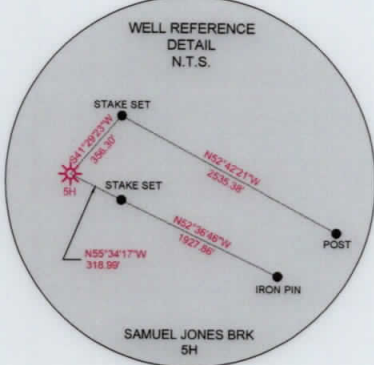
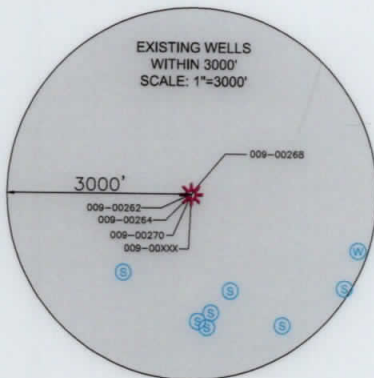




www.jhacompanies.com
 68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100

LATITUDE: 40°12'30" SURFACE HOLE | 5419'

LATITUDE: 40°15'00" BOTTOM HOLE | 7641'



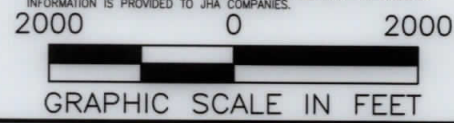
- NOTES ON SURVEY**
- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 - 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.
 - THIS AS-DRILLED PLAT IS PREPARED FROM THE FINAL WELL PLAT PREPARED BY ELK LAKE SERVICES, LLC AND THE DRILLING INFORMATION IS PROVIDED TO JHA COMPANIES.

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448997.14 EASTING: 537363.32
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4449048.77 EASTING: 537572.40
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4451173.23 EASTING: 536689.10
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448997.14 EASTING: 537363.30
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4449094.52 EASTING: 537556.88
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4451175.02 EASTING: 536694.32



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]* 12/13/19



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

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	SAMUEL JONES BRK OPERATOR'S WELL #: 5H API WELL #: 47 STATE 009 COUNTY 00263 PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,204.0'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV

SURFACE OWNER: SAMUEL E. & JUDITH F. JONES ACREAGE: ±164.74

OIL & GAS ROYALTY OWNER: RESOURCE MINERAL HEADWATER I, LP ACREAGE: ±164.74

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: 6,115' TVD 14,136' TMD

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

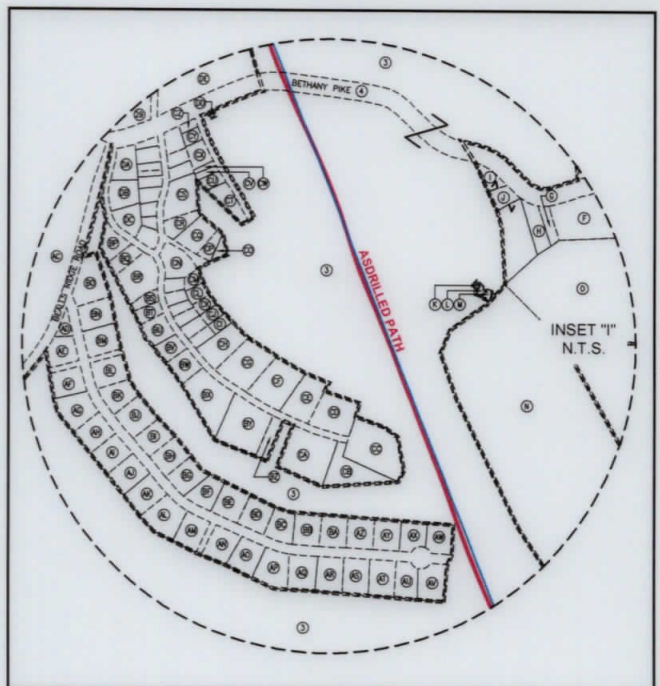
DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	<input checked="" type="radio"/> EXISTING BOTTOM HOLE <input checked="" type="radio"/> EXISTING / PRODUCING WELLHEAD <input checked="" type="radio"/> EXISTING LANDING POINT LOCATION <input checked="" type="radio"/> PROPOSED SURFACE HOLE / BOTTOM HOLE <input checked="" type="radio"/> PROPOSED LANDING POINT LOCATION	<input checked="" type="radio"/> EXISTING WATER WELL <input checked="" type="radio"/> EXISTING SPRING <input checked="" type="radio"/> SURVEYED BOUNDARY <input checked="" type="radio"/> LEASE BOUNDARY <input checked="" type="radio"/> AS-DRILLED PATH <input checked="" type="radio"/> PROPOSED PATH	REVISIONS: DATE: 12-13-2019 API NO: 47-009-00263 DRAWN BY: D. REED SCALE: 1" = 2000' DRAWING NO: 2019-0265 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SAMUEL E. & JUDITH F. JONES (S) RESOURCE MINERALS HEADWATER I, LP (R)	03-B43-60
TRACT	SURFACE OWNER	TAX PARCEL
2	GENE C. VALENTINE TRUST (11/26/86)	03-B43-33
3	BETHANY COLLEGE	03-B38-31
4	BETHANY PIKE ROAD	
5	JEFFREY B. WOY, SUSAN KATE MOORE, PATRICIA RUTH WEST, WESLEY M. GERMON, III & ELIZABETH G. IGNAUT	03-B38-37

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	GARY E. & VAUGHNDA S. LARSON	02-B43C-04
B	BETHANY COLLEGE	02-B43C-03
C	BETHANY COLLEGE	02-B43C-02
D	BETHANY COLLEGE	02-B43C-01
E	PUBLIC PARCEL	01-B43B-26
F	TRAVIS G. & GREGORY B. STRAUB	02-B43F-84
G	GEORGE SONNEWALD, JR.	02-B43F-82
H	GEORGE SONNEWALD, JR.	02-B43F-81
I	WILLIAM MITCHELL HEIRS	02-B43B-22
J	DONALD STEVEN MITCHELL	02-B43F-83
K	TOWN OF BETHANY	02-B43F-86
L	TOWN OF BETHANY	02-B43F-87
M	TOWN OF BETHANY	02-B43F-88
N	TOWN OF BETHANY	03-B43-32
O	BETHANY COLLEGE	03-B43-31
P	CITY OF BETHANY	02-B43G-15
Q	BETHANY COLLEGE	03-B38-31
R	GENE C. VALENTINE, TRUST	03-B43-35-8
S	GENE C. VALENTINE, TRUST	03-B43-56
T	GENE C. VALENTINE, TRUST	03-B43-49-3
U	STATE OF WV DEPT OF COMM DIVISION OF NATURAL RESOURCES WILDLIFE RES SEC	03-B48-18
V	MARY LOU FONNER	03-B43-58
W	TRACY T. PUSKARICH	03-B43-59
X	ROBERT M. & CHARLOTTE A. CHAMBERS	02-B48-24
Y	ALBERT GLENN & REBECCA A. AYERS (SURV)	03-B43-61
Z	ROBERT M. & CHARLOTTE A. CHAMBERS	03-B48-23
AA	ANNA MAE NORDEN	03-B48-22
AB	BRIAN DAVID CORWIN	03-B43-22
AC	BETHANY COLLEGE	03-B38-31
AD	BETHANY COLLEGE	02-B43F-01
AE	WILFRID W. CSAPLAR & SAKUNTHALA W. GUNASEGARAM (SURV)	02-B43F-02
AF	RICHARD L. & FELICITY RUGGIERO	02-B43F-03
AG	DOMINICK A. & THERESA D'AURORA (SURV)	02-B43F-04
AH	LINDA GRAHAM	02-B43F-05
AI	ROBERT P., JR. & PENNY K. RAHR (SURV)	02-B43F-06
AJ	FRANK M. & MARIAN REVEN	02-B43F-07
AK	JOSEPH P. & BARBARA A. PETTINI (SURV)	02-B43F-08
AL	JOHN THOMAS & ANNE E. BURNS	02-B43F-09
AM	JOHN C. & SUSAN L. GIESMANN	02-B43F-10
AN	EDWARD A. DULLY	02-B43F-11
AO	ERIC H. BOWN	02-B43F-12
AP	BETHANY COLLEGE	02-B43F-13
AQ	FUJIKO OGURI SAWTARIE	02-B43F-14
AR	JOHN & PATRICIA CUNNINGHAM	02-B43F-15
AS	SHARMA R. & CRYSTAL DARSHAN (JTWS)	02-B43F-16
AT	ANDREW C. & PAULA L. SACHS (SURV)	02-B43F-17
AU	BETHANY COLLEGE	02-B43F-18
AV	BETHANY COLLEGE	02-B43F-19
AW	BETHANY COLLEGE	02-B43F-20
AX	BETHANY COLLEGE	02-B43F-21
AY	BETHANY COLLEGE	02-B43F-22
AZ	BETHANY COLLEGE	02-B43F-23
BA	THE TRUST OF GENE CHARLES VALENTINE	02-B43F-24
BB	DEBORAH C. FENDON	02-B43F-25
BC	THE TRUST OF GENE CHARLES VALENTINE	02-B43F-26
BD	ROBERT L. MCVICAR	02-B43F-27
BE	CURTIS LEE & LOUANN NEEL (SURV)	02-B43F-28
BF	JOHN & CYNTHIA HOFFMAN	02-B43F-29
BG	ROSEMARY JEANNE COBB	02-B43F-30
BH	ALBERT R., JR. & SUSAN BUCKELEW	02-B43F-31
BI	THOMAS L. & LAURI L. ELTRINGHAM (SURV)	02-B43F-32
BJ	JOHN & DEBRA HULL, LIVING TRUST	02-B43F-33
BK	KENNETH & JUDITH MORGAN (SURV)	02-B43F-34
BL	JAMES R., JR. & CAROLYN FORRESTER	02-B43F-35
BM	DOUGLAS H. & HOLLY HERVEY (SURV)	02-B43F-36
BN	THOMAS FURBEE & KATHERINE SHELEK	02-B43F-37
BO	THOMAS FURBEE & KATHERINE SHELEK (SURV)	02-B43F-38
BP	BETHANY COLLEGE	02-B43F-39
BQ	BETHANY COLLEGE	02-B43F-40
BR	THE TRUSTEES OF BETHANY COLLEGE	02-B43F-41
BS	BETHANY COLLEGE	02-B43F-42
BT	BETHANY COLLEGE	02-B43F-43

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
BU	SHIRLEY J. KEMP	02-B43F-44
BV	BETHANY COLLEGE	02-B43F-46
BW	DOUGLAS G. NIELSEN	02-B43F-47
BX	THOMAS M. AYERS	02-B43F-48
BY	JANICE L. FORSTY (L/E: MARY J. FORSTY)	02-B43F-49
BZ	JOANNE SYKES	02-B43F-50
CA	JOANNE SYKES	02-B43F-51
CB	WAYNE NEIL & JAY ALAN BOUWENS	02-B43F-52
CC	BOUWENS, WAYNE NEIL (TUD), JOHNSTON & GRETCHEN	02-B43F-53
CD	KOSMAS MOURATIDIS (L/C: ROBERT & NECOL)	02-B43F-54
CE	JOHN & PATRICIA L. CUNNINGHAM (SURV)	02-B43F-55
CF	ASHLEY L. & A. SCOTT KANOTZ	02-B43F-56
CG	RYAN & BROOKE SMITH	02-B43F-57
CH	RANDALL J. & CYNTHIA WEPPLER	02-B43F-58
CI	BETHANY COLLEGE	02-B43F-79
CJ	BETHANY COLLEGE	02-B43F-78
CK	BETHANY COLLEGE	02-B43F-77
CL	BETHANY COLLEGE	02-B43F-76
CM	BETHANY COLLEGE	02-B43F-75
CN	JOHN W. & CAROL LOZIER	02-B43F-65
CO	DOMINICK A. & THERESA D'AURORA (SURV)	02-B43F-04
CP	BETHANY COLLEGE	02-B43F-73
CQ	THOMAS PAUL LYONS	02-B43F-72
CR	THOMAS PAUL LYONS	02-B43F-71
CS	GRAY WILLIAMSON & SYDMA HATZOPOULOS (SURV)	02-B43B-15
CT	ROBERT & MELINDA KREISBERG (SURV)	02-B43F-80
CU	BETHANY COLLEGE	02-B43B-16
CV	BETHANY COLLEGE	02-B43B-17
CW	HARRY W. & SANDRA K. GROUX (SURV)	02-B43B-18
CX	HARRY W. & SANDRA K. GROUX (SURV)	02-B43B-19
CY	BETHANY COLLEGE	02-B43B-20
CZ	BETHANY COLLEGE	02-B43B-21
DA	DONNA SUE MARTIN LOVATO	02-B43F-67
DB	NED THOMAS & BILLIE JO FALCON	02-B43B-60
DC	EARL R. & PAMELA KEENER (SURV)	02-B43B-05
DD	MANUFACTURERS LIGHT & HEAT COMPANY	02-B43B-27
DE	JOHN HUFF HEIRS	02-B43B-40
DF	BETHANY COLLEGE	03-B38-31
DG	DANNY M. & SANDRA L. HOLLADAY (SURV)	03-B43-03
DH	DENNIS & DERRELLE RUSCHELL	03-B43-02
DI	DENNIS & DERRELLE RUSCHELL	03-B43-01
DJ	ALLEN JOHNSON, WARREN JOHNSON, CHARLES JOHNSON & ET AL	03-B38-36
DK	DAVID G. OWENS & LINDA WALTERS (L/E: ROY R. OWENS)	03-B38-35
DL	DAVID G. OWENS & LINDA WALTERS (L/E: ROY R. OWENS)	03-B38-33
DM	DAVID G. OWENS & LINDA WALTERS (L/E: ROY R. OWENS)	03-B38-32
DN	BETHANY COLLEGE	03-B38-31
DO	CHARLES F. & DONNA BROWN	03-B38-30
DP	KIMBERLY CARMAN WORTHLEY	03-B38-27
DQ	KIMBERLY CARMAN WORTHLEY	03-B38-25
DR	MARK W. OWEN & VIRGINIA BEALL KRUTZ	03-B38-24
DS	TRUST OF GENE CHARLES VALENTINE (11/26/86)	03-B38-28
DT	BETHANY COLLEGE	03-B38-31
DU	RICHARD FRANCIS GORBY	03-B43-27
DV	KATHLEEN KEEGAN	03-B43C-37
DW	BARBARA L. CHAMBERS (TOD)	03-B43C-36



REVISIONS:

COMPANY:			
OPERATOR'S	SAMUEL JONES BRK		DATE: 12-13-2019
WELL #:	5H		API NO: 47-009-00263
DISTRICT:	BUFFALO	COUNTY:	BROOKE
		STATE:	WV
			SCALE: N/A
			DRAWING NO: 2019-0265
			WELL LOCATION PLAT