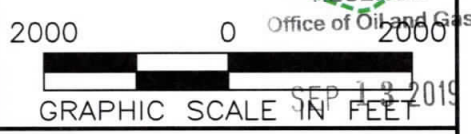


SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD 83): LATITUDE: 40.1484701 LONGITUDE: -80.5670839
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD 83): LATITUDE: 40.1031873 LONGITUDE: -80.5395270
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD 83): LATITUDE: 40.1484701 LONGITUDE: -80.5670839
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD 83): LATITUDE: 40.1032020 LONGITUDE: -80.5394684



NOTES ON SURVEY
 1. 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.
 2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

EXISTING BOTTOM HOLE	ACCESS ROAD
EXISTING / PRODUCING WELLHEAD	PUBLIC ROAD
EXISTING LANDING POINT LOCATION	FLOOD PLAIN
PROPOSED SURFACE HOLE / BOTTOM HOLE	LEASE BOUNDARY
PROPOSED LANDING POINT LOCATION	ASDRILLED PATH
	PROPOSED PATH

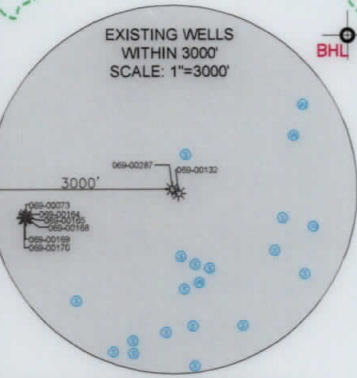
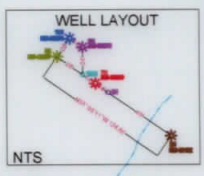
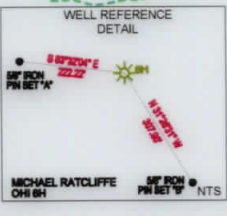
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: MICHAEL RATCLIFFE OHI	WELL # 6H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUTIE 201, MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT; LIBERTY	
SURFACE OWNER: MICHAEL T. RATCLIFFE	USGS 7 1/2 QUADRANGLE MAP NAME BETHANY & VALLEY GROVE, WV		

(2,000' SCALE) LATITUDE: 40°10'00" SURFACE HOLE 7107'

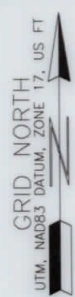
11053' (2,000' SCALE) LATITUDE: 40°07'30" BOTTOM HOLE

JHA Companies
**SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 GIS MAPPING**
 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.



LINE	BEARING	DISTANCE
L1	N64°04'02"W	885.55'
L2	N03°48'05"W	1451.82'



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4444325.98 EASTING: 536873.49
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4444135.76 EASTING: 537040.00
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4439311.70 EASTING: 539246.69
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4444325.98 EASTING: 536873.49
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4444175.02 EASTING: 537028.56
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4439313.35 EASTING: 539251.67



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
 SWN^{RP} Production Company^{AV+}™

(+) 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)	OPERATOR'S WELL #: MICHAEL RATCLIFFE OHI 6H API WELL #: 47 STATE, 069 COUNTY, 287 PERMIT
	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"/>	

WATERSHED: OHIO UPPER SOUTH DISTRICT: LIBERTY COUNTY: OHIO SURFACE OWNER: MICHAEL T. RATCLIFFE OIL & GAS ROYALTY OWNER: MICHAEL T. RATCLIFFE	ELEVATION: 1,281.3' QUADRANGLE: BETHANY & VALLEY GROVE, WV ACREAGE: ±55.835 ACREAGE: ±55.835
DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED	ESTIMATED DEPTH: 6,541' TVD 24236' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 21 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
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LEGEND: ○ EXISTING BOTTOM HOLE ☆ EXISTING / PRODUCING WELLHEAD LPL ☆ EXISTING LANDING POINT LOCATION ○ PROPOSED SURFACE HOLE / BOTTOM HOLE LPL ☆ PROPOSED LANDING POINT LOCATION	● EXISTING WATER WELL ● EXISTING SPRING --- SURVEYED BOUNDARY --- LEASE BOUNDARY --- ASDRILLED PATH --- PROPOSED PATH	REVISIONS: DATE: 09-06-19 DRAWN BY: D. REED SCALE: 1" = 3000' DRAWING NO: 2017-637 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	MICHAEL T. RATCLIFFE (S/R)	03-L5-12.4
TRACT	SURFACE OWNER	TAX PARCEL
2	TRAVIS C. RATCLIFFE	03-L5-12
3	DONALD D. PRINCE	03-L5-24
4	SUSAN NORTHWOOD SMITH & RICHARD ALAN SMITH	03-L5-23.1
5	JASON & RACHEL MILLER	03-L5-23.3
6	WALTER W. KNOLLINGER, JR. & MONA DEE KNOLLINGER	03-L5-23.4
7	BERNARD T. & MARJORIE A. RAAB	03-L8-7
8	ROBERT C. JONES	03-L8-11
9	DAVID E. DAVIS, JR.	03-L8-35
10	WINTERS FAMILY FARM, LLC	03-L11-28
11	HOWARD WINTERS	03-L8-36
12	HOWARD WINTERS	03-L11-28.1
13	MARTHA E. CREIGHTON	03-L11-29
14	MILDRED J. MAZGAJ	03-L11-62
15	SHARON & WARREN GRIFFITH	03-L11-60.1
16	TUNNEL RIDGE, LLC	03-L12-32

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	JOSEPH P. & SHIRLEY J. TAGGART	03-L5-3
B	DONALD F. & J.L. DOLENCE	03-L5-11
C	TRAVIS CHRISTOPHER RATCLIFFE	03-L5-12.1
D	JOSEPH G. PRINCE	03-L5-25
E	JOSEPH G. PRINCE & DONALD D. PRINCE	03-L5-11.2
F	GEORGE F. SMITH	03-L5-27
G	DALE R. & JACKIE A. RITCHEA	03-L5-23.2
H	DONALD L. & DEBORAH JO WADDELL	03-L5-23.6
I	DONALD L. & DEBORAH JO WADDELL	03-L5-23
J	DONALD L. & DEBORAH JO WADDELL	03-L8-39
K	PETER, JR. & D.J. COTTAGE, THE COTTAGE FAMILY REV TRUST)	03-L8-8
L	NEAL P. BROWN	03-L8-9.6
M	SCOTT A. & JILL L. DILLE	03-L8-9.3
N	GEORGE E., III & M.A. PORTER	03-L8-9.5
O	ROBERT F. & N.C. REASS	03-L9-1
P	JODY LEE SHILLING	03-L8-10
Q	RANDY J. CREIGHTON	03-L8-11.2
R	PAUL A. MAIN	03-L8-10.1
S	RICHARD C. & K.J. WHEAT	03-L8-10.2
T	LARRY G. BALL	03-L8-42
U	SUSAN J.H. HARDMAN	03-L8-37
V	BERNARD T. & PATRICIA ADAMS	03-L8-37.1
W	TIMMY B. & AMY LYNN MINCH	03-L9-12
X	WILLIAM I. & DOUGLAS W. RODGERS	03-L12-1
Y	CATHY J. & JERRY W. CALDWELL	03-L12-6
Z	JERRY & CATHY CALDWELL	03-L11-69
AA	LARRY MICHAEL PATRICK	03-L11-68
AB	MARION S. & MILDRED J. MAZGAJ	03-L11-67
AC	THERESA & MARK WATKINS	03-L11-60
AD	JEFFREY B. POWERS	03-L11-46.20
AE	LLOYD A. KLAGES, JR.	03-L11-46.18
AF	C.J. & GRACE A. ROTTER	03-L11-54
AG	JOHN A. NOLAN, JR.	03-L11-61
AH	JOHN A. NOLAN, JR.	03-L11-63
AI	DONNA ELAINE VANCE	03-L11-32.1
AJ	DONNA ELAINE VANCE	03-L11-32.2
AK	STRICKLAND HOLLOWAY, III	03-L11-32
AL	EDWARD G. GROUX, JR. & JEFFREY L. GROUX	03-L11-27
AM	EDWARD G. & LYDIA GROUX (LIFE ESTATE), EDWARD G. GROUX, JR.	03-L11-26
AN	EDWARD G. & LYDIA GROUX (LIFE ESTATE), EDWARD G. GROUX, JR.	03-L11-26.6
AO	ROBERT C. JONES	03-L8-11.1
AP	ROBERT A. SHILLING, SR.	03-L8-33.9
AQ	JOSEPH T. KLUG	03-L8-34.1
AR	ROBERT A. SHILLING, SR.	03-L8-33
AS	THOMAS P. & TERESA HUDRLIK	03-L8-12.12
AT	BILL RAILING	03-L8-12.8
AU	VICKI L. & DANIEL P. TUSTIN	03-L8-12.6
AV	DANIEL P. TUSTIN, JR.	03-L8-12.9
AW	DANIEL PAUL TUSTIN, JR.	03-L8-12.11
AX	RICHARD R. & L.L. BLOOMFIELD	03-L8-12.10
AY	BARNETT E. & LAURIE L. BECK	03-L8-12.5
AZ	KATHY J. HUNTER	03-L8-6
BA	A.R. & Z.I. NIXON	03-L8-5
BB	JENNIFER G. BURROWS	03-L8-4.1
BC	DAVID PAUL & DAWN M. DOYLE	03-L8-4
BD	DAVID A. WADDELL	03-L5-23.5
BE	EDWARD & ELIZABETH LINK	03-L5-23.7
BF	EDWARD R. & ELIZABETH A. LINK	03-L5-22
BG	MICHAEL T. RATCLIFFE	03-L5-12.3
BH	CASEY P. & DEVAN M. YOUNG	03-L5-13
BI	MARK & ANNELESE KAUFMAN	03-L5-1.1

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN *R-V+0*
Production Company™

OPERATOR'S

MICHAEL RATCLIFFE

DATE: 09-06-19

WELL #:

OHI 6H

DRAWN BY: D. REED

DISTRICT:
LIBERTY

COUNTY:
OHIO

STATE:
WV

SCALE: N/A
DRAWING NO: 2017-637
WELL LOCATION PLAT