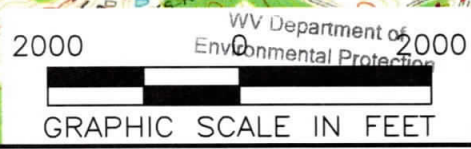


| |
|---|
| SURFACE HOLE LOCATION (SHL): |
| GEOGRAPHIC (NAD 83): LATITUDE: 40.1484934 LONGITUDE: -80.5670021 |
| BOTTOM HOLE LOCATION (BHL): |
| GEOGRAPHIC (NAD 83): LATITUDE: 40.1040395 LONGITUDE: -80.5371547 |
| SURFACE HOLE LOCATION (SHL): |
| GEOGRAPHIC (NAD 83): LATITUDE: 40.1484934 LONGITUDE: -80.5670021 |
| BOTTOM HOLE LOCATION (BHL): |
| GEOGRAPHIC (NAD 83): LATITUDE: 40.1040042 LONGITUDE: -80.5372343 |



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 |
| LPL* | EXISTING LANDING POINT LOCATION | ⬭ | FLOOD PLAIN |
| ● | PROPOSED SURFACE HOLE / BOTTOM HOLE | — | LEASE BOUNDARY |
| LPL* | PROPOSED LANDING POINT LOCATION | — | AS-DRILLED PATH |
| | | — | PROPOSED PATH |

| | | | |
|--|---|-----------------------------|-------------------------|
| WELL OPERATOR: SWN PRODUCTION COMPANY, LLC | WELL (FARM) NAME: MICHAEL RATCLIFFE OHI | WELL # 8H | SERIAL # XXXX |
| ADDRESS: P.O. BOX 1300 JANE LEW, WV 26378 | COUNTY - CODE OHIO - 069 | DISTRICT; LIBERTY | |
| SURFACE OWNER: MICHAEL T. RATCLIFFE | USGS 7 1/2 QUADRANGLE MAP NAME BETHANY & VALLEY GROVE, WV | | |



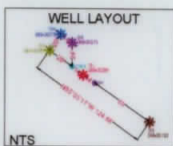
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

NOTES ON SURVEY

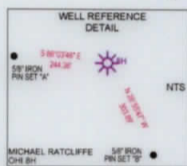
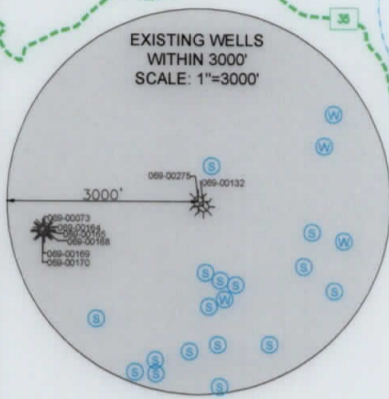
1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES 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

| LINE | BEARING | DISTANCE |
|------|-------------|----------|
| L1 | N62°54'55"W | 868.67' |
| L2 | N02°52'46"W | 1458.71' |



EXISTING WELLS
WITHIN 3000'
SCALE: 1"=3000'



SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4444328.61
EASTING: 536880.45

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4444268.55
EASTING: 537285.42

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4439407.33
EASTING: 539448.38

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4444328.61
EASTING: 536880.45

LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4444298.18
EASTING: 537267.40

BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4439403.38
EASTING: 539441.62

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



3000 0 3000

GRAPHIC SCALE IN FEET

COMPANY:

SWN

Production Company, LLC

SWN

Production Company™

MICHAEL RATCLIFFE

OPERATOR'S WELL #: OHI 8H

| | | | |
|-------------|-------|--------|--------|
| API WELL #: | 47 | 069 | 275 |
| | STATE | COUNTY | PERMIT |



(+) 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 SURVEY SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

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

WATERSHED: OHIO UPPER SOUTH ELEVATION: 1,281.2'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY & VALLEY GROVE, WV

SURFACE OWNER: MICHAEL T. RATCLIFFE ACREAGE: ±55.835

OIL & GAS ROYALTY OWNER: MICHAEL T. RATCLIFFE ACREAGE: ±55.835

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: 6544' TVD 24,451' TMD

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

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

LEGEND:

| | | | |
|--|-------------------------------------|--|---------------------|
| | EXISTING BOTTOM HOLE | | EXISTING WATER WELL |
| | EXISTING / PRODUCING WELLHEAD | | EXISTING SPRING |
| | EXISTING LANDING POINT LOCATION | | SURVEYED BOUNDARY |
| | PROPOSED SURFACE HOLE / BOTTOM HOLE | | LEASE BOUNDARY |
| | PROPOSED LANDING POINT LOCATION | | ASDRILLED PATH |
| | | | PROPOSED PATH |

| | |
|------------|----------------------|
| REVISIONS: | DATE: 09-06-2019 |
| | DRAWN BY: D. REED |
| | SCALE: 1" = 3000' |
| | DRAWING NO: 2017-637 |
| | WELL LOCATION PLAT |

| 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 | TRAVIS CHRISTOPHER RATCLIFFE (L/E) | 03-L5-12.1 |
| 4 | DONALD D. PRINCE | 03-L5-24 |
| 5 | SUSAN LOUISE SMITH | 03-L5-27 |
| 6 | SUSAN NORTHWOOD SMITH & RICHARD ALAN SMITH | 03-L5-23.1 |
| 7 | DALE R. & JACKIE A. RITCHEA | 03-L5-23.2 |
| 8 | WALTER W., JR. & MONA DEE KNOLLINGER | 03-L5-23.4 |
| 9 | DONALD L. & DEBORAH JO WADDELL | 03-L5-23.6 |
| 10 | DONALD L. & DEBORAH JO WADDELL | 03-L5-23 |
| 11 | BERNARD T. & MARJORIE A. RAAB | 03-L8-7 |
| 12 | ROBERT C. JONES | 03-L8-11 |
| 13 | DAVID E. DAVIS, JR. | 03-L8-35 |
| 14 | HOWARD WINTERS | 03-L8-36 |
| 15 | HOWARD WINTERS | 03-L11-28.1 |
| 16 | MARTHA E. CREIGHTON | 03-L11-29 |
| 17 | MILDRED J. MAZGAJ | 03-L11-62 |

| 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 | JOSEPH G. PRINCE & DONALD D. PRINCE | 03-L5-11.2 |
| D | HELEN L. & JOHN I., JR. TOMINACK | 03-L5-10 |
| E | LYNN MCELVANY | 03-L5-26 |
| F | GLENN A. DILLE | 03-L8-9.7 |
| G | NEAL P. BROWN | 03-L8-9.6 |
| H | PETER, JR. & D.J. COTTAGE, THE COTTAGE FAMILY REV TRUST) | 03-L8-8 |
| I | DONALD L. & DEBORAH JO WADDELL | 03-L8-39 |
| J | SCOTT A. & JILL L. DILLE | 03-L8-9.3 |
| K | GEORGE E., III & M.A. PORTER | 03-L8-9.5 |
| L | ROBERT F. & N.C. REASS | 03-L9-1 |
| M | JODY LEE SHILLING | 03-L8-10 |
| N | RANDY J. CREIGHTON | 03-L8-11.2 |
| O | PAUL A. MAIN | 03-L8-10.1 |
| P | RICHARD C. & K.J. WHEAT | 03-L8-10.2 |
| Q | LARRY G. BALL | 03-L8-42 |
| R | SUSAN J.H. HARDMAN | 03-L8-37 |
| S | BERNARD T. & PATRICIA ADAMS | 03-L8-37.1 |
| T | TIMMY B. & AMY LYNN MINCH | 03-L9-12 |
| U | WILLIAM I. RODGERS & DOUGLAS W. RODGERS | 03-L12-1 |
| V | CATHY J. & JERRY W. CALDWELL | 03-L12-6 |
| W | JERRY & CATHY CALDWELL | 03-L11-69 |
| X | LARRY MICHAEL PATRICK | 03-L11-68 |
| Y | MARION S. & MILDRED J. MAZGAJ | 03-L11-67 |
| Z | TUNNEL RIDGE, LLC | 03-L12-32 |
| AA | SHARON & WARREN GRIFFITH | 03-L11-60.1 |
| AB | JOHN A. NOLAN, JR. | 03-L11-61 |
| AC | JOHN A. NOLAN, JR. | 03-L11-63 |
| AD | WINTERS FAMILY FARM, LLC | 03-L11-28 |
| AE | EDWARD G. GROUX, JR. & JEFFREY L. GROUX | 03-L11-27 |
| AF | EDWARD G. & LYDIA GROUX (LIFE ESTATE), EDWARD G. GROUX, JR. | 03-L11-26 |
| AG | EDWARD G. & LYDIA GROUX (LIFE ESTATE), EDWARD G. GROUX, JR. | 03-L11-26.6 |
| AH | ROBERT C. JONES | 03-L8-11.1 |
| AI | ROBERT A. SHILLING, SR. | 03-L8-33.9 |
| AJ | JOSEPH T. KLUG | 03-L8-34.1 |
| AK | ROBERT A. SHILLING, SR. | 03-L8-33 |
| AL | THOMAS P. & TERESA HUDRLIK | 03-L8-12.12 |
| AM | BILL RAILING | 03-L8-12.8 |
| AN | VICKI L. & DANIEL P. TUSTIN | 03-L8-12.6 |
| AO | DANIEL P. TUSTIN, JR. | 03-L8-12.9 |
| AP | DANIEL PAUL TUSTIN, JR. | 03-L8-12.11 |
| AQ | RICHARD R. & L.L. BLOOMFIELD | 03-L8-12.10 |
| AR | BARNETT E. & LAURIE L. BECK | 03-L8-12.5 |
| AS | KATHY J. HUNTER | 03-L8-6 |
| AT | A.R. & Z.I. NIXON | 03-L8-5 |
| AU | JENNIFER G. BURROWS | 03-L8-4.1 |
| AV | DAVID PAUL & DAWN M. DOYLE | 03-L8-4 |
| AW | RICHARD C. LINK (LIFE ESTATE: ROBERT W., JR. & D.M. LINK) | 03-L5-22.6 |
| AX | DAVID A. WADDELL | 03-L5-23.5 |
| AY | EDWARD & ELIZABETH LINK | 03-L5-23.7 |
| AZ | JASON & RACHEL MILLER | 03-L5-23.3 |
| BA | EDWARD R. & ELIZABETH A. LINK | 03-L5-22 |
| BB | MICHAEL T. RATCLIFFE | 03-L5-12.3 |
| BC | CASEY P. & DEVAN M. YOUNG | 03-L5-13 |
| BD | MARK & ANNELIESE KAUFMAN | 03-L5-1.1 |

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R+} ^{V+} ⁰
Production Company™

OPERATOR'S MICHAEL RATCLIFFE
WELL #: OHI 8H

DATE: 09-06-2019

DISTRICT:
LIBERTY

COUNTY:
OHIO

STATE:
WV

DRAWN BY: D. REED

SCALE: N/A

DRAWING NO: 2017-637

WELL LOCATION PLAT