

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

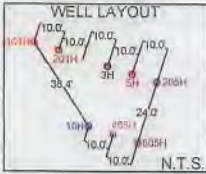
9742'

LATITUDE: 40°12'30" BOTTOM HOLE (2000' SCALE) 1446'



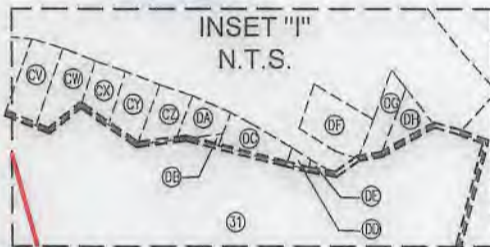
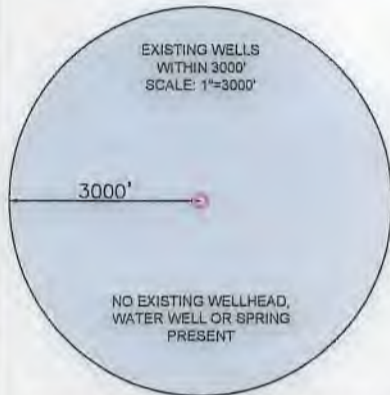
www.jhacompanies.com

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



NOTES ON SURVEY

- COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE OPS.
- 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.



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4442979.73 EASTING: 528976.47
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4443592.62 EASTING: 529466.95
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4448695.46 EASTING: 527949.41

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

Handwritten signature and date: 2/13/20



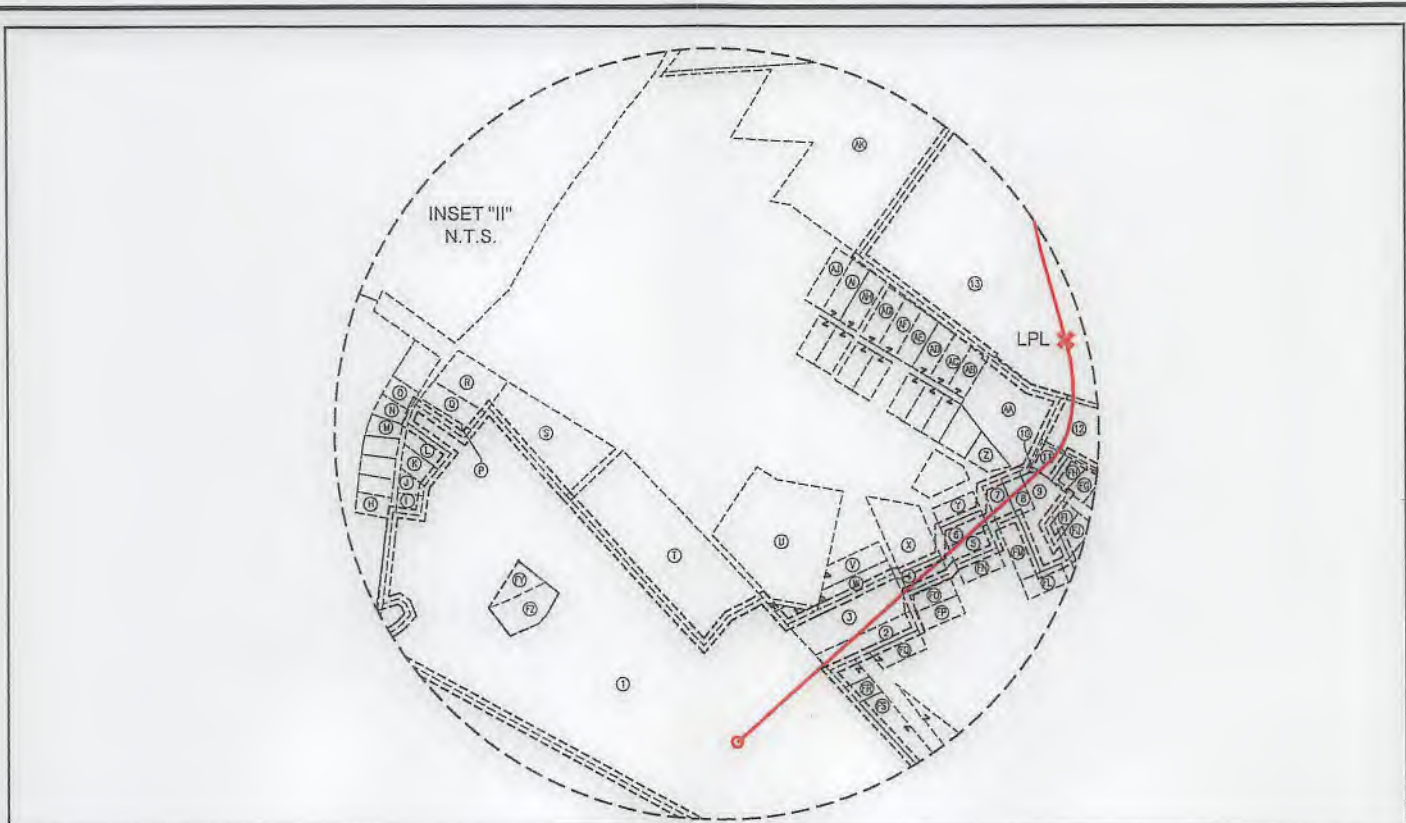
3000 0 3000

GRAPHIC SCALE IN FEET

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

<p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: FRANZ THOMAN OHI OPERATOR'S WELL #: 405H API WELL #: 47 STATE 069 COUNTY 00322 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: UPPER OHIO SOUTH DISTRICT: RICHLAND COUNTY: OHIO SURFACE OWNER: FRANZ THOMAN OIL & GAS ROYALTY OWNER: FRANZ THOMAN 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"/> CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY) TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,888' TVD 24,426' TMD	ELEVATION: 1,137.5' QUADRANGLE: TILTONSVILLE, OH-WV ACREAGE: ±69.418 ACREAGE: ±69.418
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: * PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD LPL * LANDING POINT LOCATION W EXISTING WATER WELL S EXISTING SPRING --- NATURAL WATERWAY --- SURVEYED BOUNDARY --- LEASE BOUNDARY --- PROPOSED PATH --- PUBLIC ROAD
REVISIONS:		DATE: 02-13-2020 API NO: 47-069-XXXX DRAWN BY: R. GRIMES SCALE: 1" = 3000' DRAWING NO: 2018-781 WELL LOCATION PLAT

LONGITUDE: 80°40'00" BOTTOM HOLE (2000' SCALE) 7360'
LONGITUDE: 80°37'30" SURFACE HOLE (2000' SCALE) 10961'



WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	FRANZ THOMAN (S)/(R)	04-R8-62.0
TRACT	SURFACE OWNER	TAX PARCEL
2	JOLLY W. WHEELER, JR AND KAREN M. WHEELER	04-R8Q-14.0
3	DALE E. & B.J. KURNER	04-R8Q-12.0
4	STEVEN M. GORBY	04-R8Q-31.0
5	KAREN M. WHEELER	04-R8Q-37.0
6	ELAINE DANEHART	04-R8Q-36.0
7	JENNIFER FRANCIS	04-R8Q-52.1
8	JOYCE E. DECREASE	04-R8Q-52.2
9	DANIEL & SUSAN M. MORGAN	04-R8Q-52.0
10	HELEN A. MILLER	04-R8L-45.1
11	HELEN A. MILLER	04-R8L-45.0
12	DOROTHY T. LEOS	04-R8L-40.0
13	TUNNEL RIDGE, LLC	04-R8-27.7
14	THOMAS D. KASUNIC	04-R8-28.2
15	DONALD R. & MINNIE JEAN TAYLOR (L/C); KIMBERLY J. KOCHY & TAMI L. TYSK (REMANDERMAN)	04-R8-28.0
16	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R8-06.0
17	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R5-43.0
18	JOHN W. METZ	04-R5-45.11
19	ROBERTA M. & GEORGE B. KORNER	04-R5-45.12
20	JULIE A. KOEHLER	04-R5-45.4
21	JULIE A. KOEHLER	04-R5-45.13
22	S.E.W. TRUST (SHANE E. WOLOSCHAN, TRUSTEE)	04-R5-09.0
23	ROBERT KUBOVICZ (C/O: UNITED ELECTRIC)	04-R5-08.0
24	CHARLES H. FRYE & ETAL (C/O: DORIS ALTMAYER)	04-R5-06.0
25	GUY D. & LORI R. DONZELLA	04-R2-19.0
26	THOMAS H. & MARGARET A. STENGER	04-R2-06.0
27	WILLIAM S. & LAURA J. DONOHEW	04-R2-6.8
28	PAMELA CHILES & RYAN CHILES	04-R2-16.0
29	PAMELA SUE & RYAN CHILES	04-R2-17.2
30	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	SHORT CREEK
31	DANIEL & JUDITH A. ROEDER	03-B45D-21.0
32	HARRY GALLOWAY, DENZIL SKIDMORE, KATHRYN SKIDMORE, & JANICE LOUGH	03-B45D-29.0
33	BERNARD J. LOMBARD III	03-B45D-30.0
34	BRENDA J. BERRY (L/C BARBARA LONG)	03-B45D-37.0
35	LAMBROS TSUHLARES	03-B40S-16.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	SANDSCREST FOUNDATION, INC	04-R11-15.0
B	TUNNEL RIDGE, LLC	04-R8-62.5
C	TUNNEL RIDGE, LLC	04-R8-62.4
D	TUNNEL RIDGE, LLC	04-R8P-14.0
E	SHIRLEY M. WEAVER	04-R8P-02.0
F	TUNNEL RIDGE, LLC	04-R8P-16.0
G	TUNNEL RIDGE, LLC	04-R8P-16.0
H	JOHN M. MCGEE	04-R8P-17.0
I	DONALD P. GAYDA	04-R8P-18.0
J	CHARLES R. BOND	04-R8K-110.0
K	TYLER S. SCHWERTFEGER	04-R8K-111.0
L	TYLER S. SCHWERTFEGER	04-R8K-112.0
M	ELMER K. REED	04-R8K-106.0
N	ELMER K. REED	04-R8K-105.0
O	B.H. BOZENSKE & K.J. O'KELLY	04-R8K-104.0
P	RAY B. & ANN M. WILSON	04-R8-62.7
Q	ERIC DURELL & CHERYL LYNN RICHARDSON	04-R8-62.6
R	DAVID R. & K. MULDREW	04-R8K-101.0
S	DELORA L. TAYLOR	04-R8K-100.0
T	SUSAN J. SOBOTA	04-R8-82.3
U	JOHN T. WRIGHT	04-R8P-11
V	JACQUELINE MICHELLE SUTTON	04-R8Q-10
W	DAGUE AMY D.	04-R8Q-11.0
X	BETTY ZANE COMMUNITY ASSOCIATION	04-R8Q-34.0
Y	CLEMET R. KURNER	04-R8Q-35.0
Z	CONRAD G. & SHERYL ANN BREGY	04-R8L-18.0
AA	AUDREY E. IAROSSI	04-R8L-44.0
AB	ALBERT D. & B.J. ROBRECHT	04-R8L-21.0
AC	ALBERT D. & B.J. ROBRECHT	04-R8L-22.0
AD	MICHAEL L. & P.M. ALLEN	04-R8L-23.0
AE	SILCO, LLC (C/O: ROBINSON RICHARD)	04-R8L-13.0
AF	BONACCI RENTALS, LLC	04-R8L-25.0
AG	CHAD D. & MELISSA E. LIZON	04-R8L-26.0
AH	WILLIAM S. CALVERT	04-R8L-27.0
AI	WILLIAM S. CALVERT	04-R8L-28.0
AJ	THOMAS A. & TRICIA L. GILSON	04-R8L-08.1
AK	ADAM B. & STACEY L. CAMPBELL	04-R8F-03.0
AL	CAROL S. STANTON	04-R8-28.9
AM	CAROL S. RHODES	04-R8-28.8
AN	GARY E. & V.L. BURKY	04-R8-28.7
AO	JAMES TODD WOLFE & MARY JEANNE WOLFE	04-R8-28.1
AP	JAMES TODD WOLFE & MARY JEANNE WOLFE	04-R8-28.3
AQ	KIMBERLY J. & J.P. KOCHY	04-R8-28.10
AR	JAMES G. & TAMI L. TYSK	04-R8-28.5
AS	BARRY L. & PENNY S. MCCONNELL	04-R8-28.12
AT	BARRY L. & PENNY S. MCCONNELL	04-R8-28.4

REVISIONS:

COMPANY:			
OPERATOR'S	FRANZ THOMAN OHI		DATE: 02-13-2020
WELL #:	405H		API NO: 47-069-XXXX
DISTRICT:	RICHLAND	COUNTY:	OHIO
		STATE:	WV
			SCALE: N/A
			DRAWING NO: 2018-781
			WELL LOCATION PLAT

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AU	BARRY L. & P.S. MCCONNELL	04-R8-29.1
AV	RICHARD, JR. & L.L. CARROLL	04-R8-06.1
AW	RICHARD, JR. & L.L. CARROLL	04-R8-33.0
AX	JOHN P. & P.J. BARBALEY	04-R8-33.2
AY	WILLIAM F. WENDEL	04-R8-33.1
AZ	ALLIANCE RESOURCE GROUP, LLC	04-R8-05.0
BA	ALLIANCE RESOURCE GROUP, LLC	04-R8-03.1
BB	ALLIANCE RESOURCE GROUP, LLC	04-R8-71.0
BC	TUNNEL RIDGE, LLC	04-R5-40.7
BD	ALLIANCE RESOURCE GROUP, LLC	04-R5-42.1
BE	HELEN TAYLOR	04-R5-12.1
BF	HELEN TAYLOR	04-R5-12.0
BG	HELEN TAYLOR	04-R5-14.0
BH	HUMPHREY D., JR. & T.M. FLICK	04-R5-15.0
BI	DALE A. & JENNIFER VILLANI	04-R5-16.0
BJ	DALE A. & JENNIFER A. VILLANI	04-R5-17.1
BK	ROBERT N. & C.L. CONNER	04-R5-17.0
BL	PATRICIA ROUSH	04-R5-18.0
BM	ERVAN D. & NANCY G. TRUBIANO	04-R5-19.0
BN	BRIAN W. & MELINDA K. SOWIZRAL	04-R5-20.1
BO	DENNIS J. & SHEINA HOSKINS	04-R5-20.4
BP	HAROLD & LINDA COAST	04-R5-02.9
BQ	JAMES M. & NANCY L. FRYE	04-R5-02.10
BR	JAMES M. & NANCY L. FRYE	04-R5-06.2
BS	TAMMY & SAM HLEBICZKI	04-R5-06.4
BT	THOMAS H. & MARGARET A. STENGER	04-R5-62.0
BU	THOMAS H. & MARGARET A. STENGER	04-R2-06.1
BV	BARBARA & ROBERT RUSH	04-R2-06.20
BW	SCOTT & CHRISTINA DENTZ	04-R2-06.21
BX	MATTHEW T. BURKE	04-R2-06.13
BY	MARY E. MIDCAP	04-R2-14.0
BZ	TODD PARKER	04-R2-14.2
CA	LEE M. & ASHLEY N. NEIDLER	04-R2-15.0
CB	UNITED STATES OF AMERICA	04-R2-15.1
CC	MANUEL MARKOS, PAUL MARKOS, DEBORAH MCDANIEL, ETAL	03-B45D-31.0
CD	LAMBERT & MARY E. TSUHLARES	03-B45D-36.0
CE	LAMBROS TSUHLARES	03-B45D-35.0
CF	STELLA M. SFAMENOS	03-B45D-34.0
CG	STELLA SFAMENOS, GOLDIE BASIL, ETAL	03-B45D-33.0
CH	CONNIE & FRANK BIEGA	03-B45D-32.0
CI	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	STATE ROUTE 2
CJ	WINDSOR POWERHOUSE COAL COMPANY	03-0B41-21.0
CK	WINDSOR HEIGHTS IMPROVEMENT COMPANY	08-W41J-01.0
CL	WINDSOR HEIGHTS IMPROVEMENT COMPANY	08-W41N-85.0
CM	MANUEL MARKOS, PAUL MARKOS, DEBORAH MCDANIEL	03-B45D-62.0
CN	CHESTER S. & DIANA M. THOMPSON	03-B45D-59.0
CO	CHESTER S. & DIANA M. THOMPSON	03-B45D-58.0
CP	RUSSELL W. MELCHING, ETAL	03-B45D-57.0
CQ	KAREN K. TOBER	03-B45D-56.0
CR	KAREN K. TOBER	03-B45D-55.0
CS	KAREN K. TOBER	03-B45D-54.0
CT	JOHN A. BURKHART	03-B45D-53.0
CU	JOHN R. & MARY A. (SELLER) LONG (L/C BARBARA J. LONG)	03-B45D-38.0
CV	HAROLD L. MCCLURE	03-B45D-28.0
CW	THE BROOKE COUNTY COMMISSION	03-B45D-27.0
CX	ROBERT FORRESTER	03-B45D-26.0
CY	ROBERT FORRESTER	03-B45D-25.0
CZ	SHORT CREEK VOLUNTEER FIRE DEPARTMENT, INC	03-B45D-24.0
DA	SHORT CREEK VOLUNTEER FIRE DEPARTMENT, INC	03-B45D-23.0
DB	SHORT CREEK VOLUNTEER FIRE DEPARTMENT, INC	03-B45D-66.0
DC	SHORT CREEK VOLUNTEER FIRE DEPARTMENT, INC	03-B45D-64.0
DD	SAMMY FRAGALE	03-B45D-22.0
DE	SHORT CREEK VOLUNTEER FIRE DEPARTMENT	03-B45D-65.0
DF	BRENDA L. MONTGOMERY F/K/A BRENDA L. MILLER	03-B45D-46.0
DG	STEPHANIE CARBASHO	03-B45D-47.0
DH	STEPHANIE CARBASHO	03-B45D-48.0
DI	HENRY W. ZEIDLER	04-R2-17.0
DJ	SYLVIA A. HAWRANICK	04-R2-18.0
DK	RODNEY & NEDRA C. MCCONNELL	04-R2-9999-9999
DL	GUY D. & LORI R. DONZELLA	04-R5-07.0
DM	GUY D. & LORI R. DONZELLA	04-R5-06.1
DN	RUSSELL W. MELCHING	04-R5-08.1
DO	MELISSA M. HARWATT	04-R5-08.4
DP	JOHN E. & E.R. HARWATT	04-R5-08.2
DQ	RODNEY K. & NANCY MCCONNELL	04-R2-20.0
DR	OHIO COUNTY BOARD OF COMMISSIONERS, AIRPORT AUTHORITY	04-R5-10.0
DS	BURNT MILL ACRES, LLC (C/O: MARK FOSTER)	04-R5-13.0
DT	HOWARD & LESLEY PRINCE	04-R5-48.0
DU	KEVIN T. WOODFORD	04-R5-47.0
DV	JOHN W. METZ	04-R5-46.0
DW	OHIO COUNTY PUBLIC SERVICE DISTRICT	04-R5-45.17
DX	JOHN W. METZ	04-R5-45.2
DY	JOHN W. METZ	04-R5-45.3
DZ	JOHN STANLEY & JOHN SHANE WALTERS	04-R5-45.5
EA	MARION S. PAVLIC	04-R5-45.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
EB	EDWARD A. SMITH	04-R5-45.7
EC	TUNNEL RIDGE, LLC	04-R5-45.8
ED	ALLIANCE RESOURCE GROUP, LLC	04-R5-45.6
EE	ALLIANCE RESOURCE GROUP, LLC	04-R5-52.0
EF	ALLIANCE RESOURCE GROUP, LLC	04-R5-53.0
EG	ANDREW JOHN EVICK	04-R5-54.0
EH	SUSAN L. CAIN	04-R8-08.3
EI	TUNNEL RIDGE, LLC	04-R8-08.2
EJ	TUNNEL RIDGE, LLC	04-R8-08.9
EK	OHIO COUNTY COMMISSION	04-R8-08.16
EL	THOMAS & JUDITH K. TYLER	04-R8-08.8
EM	AMERICAN DISPOSAL SERVICES OF WEST VIRGINIA, INC	04-R8-15.0
EN	LOUIS R. HERCULES & ET AL	04-R8-07.0
EO	DEBRA S. SHEPHERD	04-R8-15.2
EP	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	04-R8-0
EQ	CHARLES M. & M.M. MILLER	04-R8-15.3
ER	SUZANNE V. STANLEY	04-R8-23.0
ES	TUNNEL RIDGE, LLC	04-R8-76.0
ET	TUNNEL RIDGE, LLC	04-R8-26.0
EU	TUNNEL RIDGE, LLC	04-R8-15.4
EV	TUNNEL RIDGE, LLC	04-R8-27.6
EW	TUNNEL RIDGE, LLC	04-R8-21.2
EX	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	04-R8-9999-9999
EY	SUSAN KOGUT & BRADLEY MCGRATH	04-R8-27.5
EZ	MARILYN R. BLAKE	04-R8-27.0
FA	JAMES KEVIN CRUPE, SR.	04-R8L-49.0
FB	WAYNE D. & MARY R. THOMAS	04-R8L-41.0
FC	JACOB A. VDOVJAK, III	04-R8Q-68.0
FD	MARY T. BERTELLI & ROGER D. BERTELLI	04-R8Q-65.0
FE	BRIAN N. BARBE	04-R8Q-66.0
FF	BRENDA M. SHELTER	04-R8L-50.0
FG	BRENDA M. SHELTER	04-R8L-47.0
FH	CARRIE L. FORRESTER	04-R8L-46.0
FI	ROBERT L. RICE, SR. (LIFE ESTATE) & ET AL	04-R8Q-53.1
FJ	ROBERT L. RICE, SR. (LIFE ESTATE) & ET AL	04-R8Q-54.0
FK	PATRICIA CATLETT	04-R8Q-55.0
FL	DESSIE M. HENDRICK, SANDRA HENDRICK & SONYA OLAKO	04-R8Q-47.0
FM	BRYAN H. & MARTHA A. KRUPINSKI	04-R8Q-50.1
FN	DONALD W. & AMY K. ELLIOTT	04-R8Q-38.0
FO	ROGER L. MOORE	04-R8Q-30.1
FP	JOLLY W. WHEELER, JR. & KAREN M. WHEELER	04-R8Q-29.0
FQ	FRANK J. & S.R. TAROVISKY	04-R8Q-28.0
FR	PAULA J. & EDWARD C. TOMASIK	04-R8Q-03.0
FS	RUSSELL E. TERAMANA & ROSEANN TERAMANA	04-R8Q-02.0
FT	RALPH J. & K.L. HUFFMAN	04-R8Q-60.0
FU	CHAD MARTIN	04-R2-06.16
FV	WILLIAM SCOTT & LAURA J. DONOHEW	04-R2-06.11
FW	TODD & PATRICIA STENGER	04-R2-06.23
FX	PATRICK E. LEPLLEY	04-R5-08.3
FY	KASIMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.2
FZ	KASIMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.8

REVISIONS:

COMPANY:	SWN Production Company, LLC	SWN ^{REV} Production Company™
OPERATOR'S	FRANZ THOMAN OHI	DATE: 02-13-2020
WELL #:	405H	API NO: 47-069-XXXXX
DISTRICT:	RICHLAND	DRAWN BY: R. GRIMES
COUNTY:	OHIO	SCALE: N/A
STATE:	WV	DRAWING NO: 2018-781
WELL LOCATION PLAT		