

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

9742'

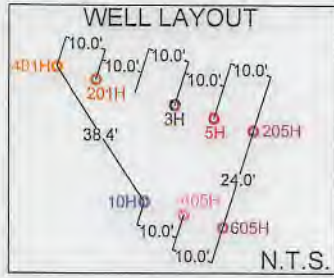
LATITUDE: 40°12'30" BOTTOM HOLE (2000' SCALE)

883'

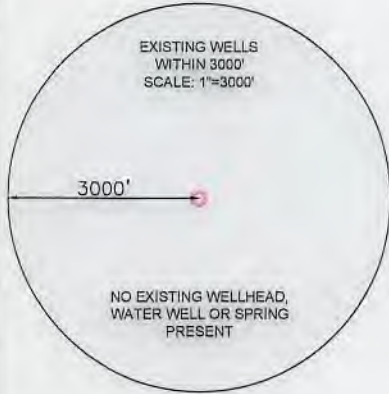


www.jhacompanies.com

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



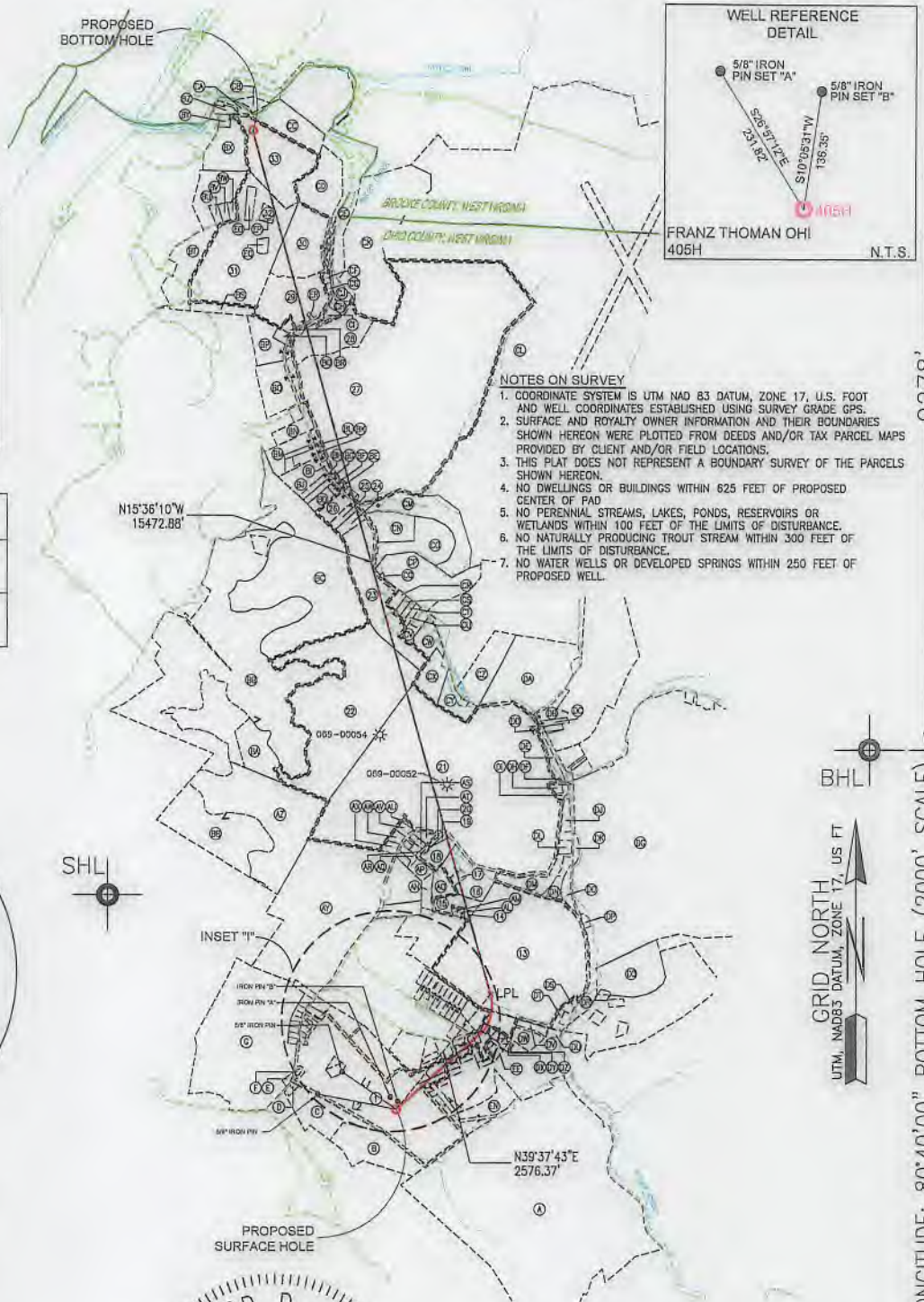
LINE	BEARING	DISTANCE
L1	S56°34'50"E	1135.33'
L2	S80°03'00"E	1393.25'



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: 4448111.41 EASTING: 528123.10

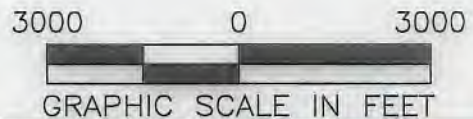
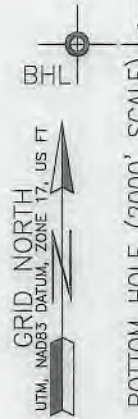
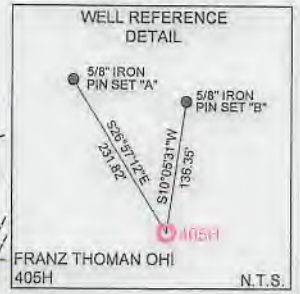
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2041



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.





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

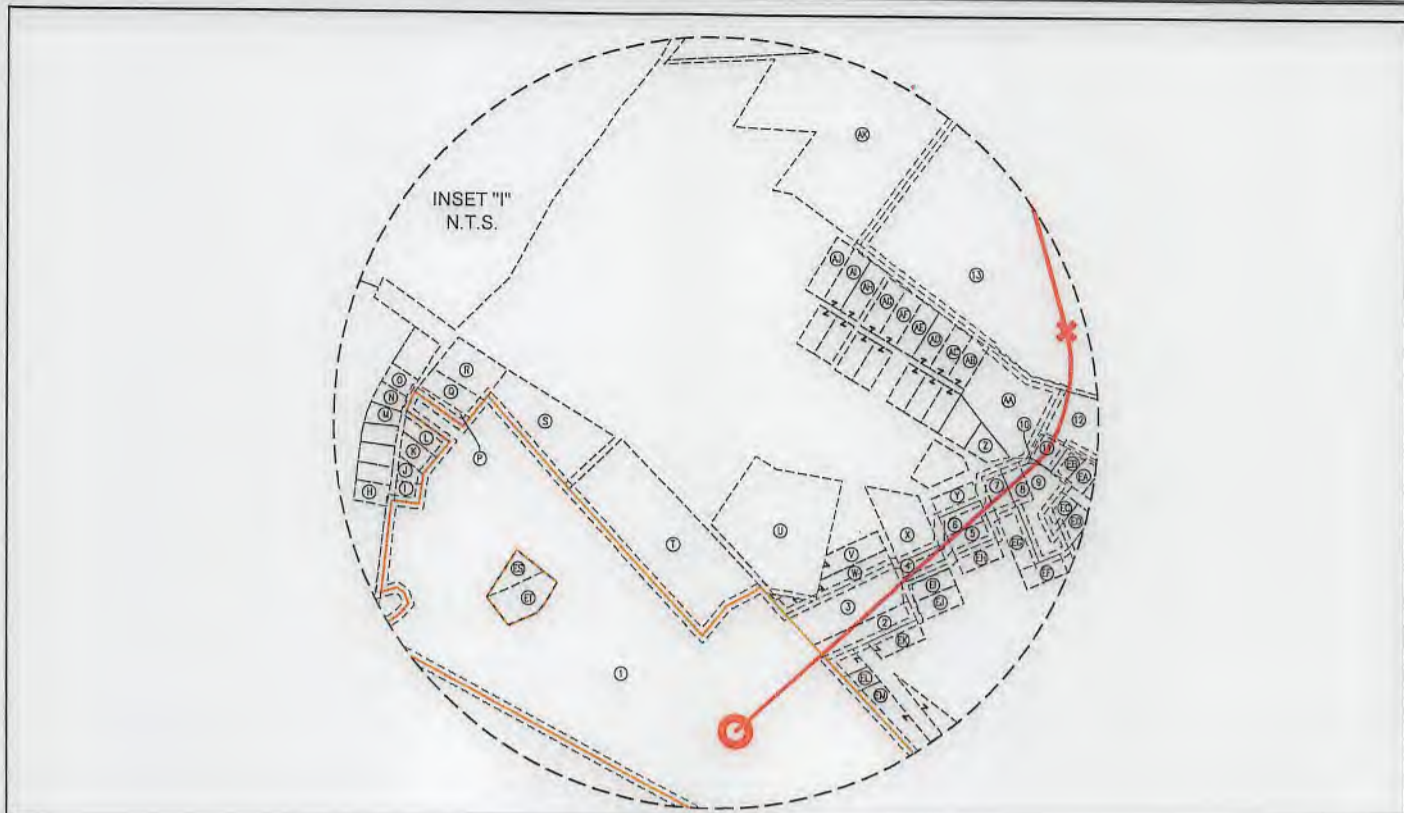
<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>COMPANY: SWN Production Company, LLC</p> <p>FRANZ THOMAN OHI</p> <p>OPERATOR'S WELL #: 405H</p> <p>API WELL #: 47 STATE 069 COUNTY 00322 PERMIT</p>
	<p>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"/></p> <p>WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,137.5'</p> <p>DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONSVILLE, OH-WV</p> <p>SURFACE OWNER: FRANZ THOMAN ACREAGE: ±69.418</p> <p>OIL & GAS ROYALTY OWNER: FRANZ THOMAN ACREAGE: ±69.418</p> <p>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"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,888' TVD 22,426' TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p> <p>DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD LPL* LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊙ EXISTING SPRING — NATURAL WATERWAY — SURVEYED BOUNDARY == LEASE BOUNDARY — PROPOSED PATH — PUBLIC ROAD 	<p>REVISIONS:</p> <p>DATE: 09-05-2019</p> <p>API NO: 47-069-XXXXX</p> <p>DRAWN BY: D. REED</p> <p>SCALE: 1" = 3000'</p> <p>DRAWING NO: 2018-781</p> <p>WELL LOCATION PLAT</p>	

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AU	RICHARD, JR. & L.L. CARROLL	04-R8-06.1
AV	RICHARD, JR. & L.L. CARROLL	04-R8-33.0
AW	JOHN P. & P.J. BARBALEY	04-R8-33.2
AX	WILLIAM F. WENDEL	04-R8-33.1
AY	ALLIANCE RESOURCE GROUP, LLC	04-R8-05.0
AZ	ALLIANCE RESOURCE GROUP, LLC	04-R8-03.1
BA	ALLIANCE RESOURCE GROUP, LLC	04-R8-71.0
BB	TUNNEL RIDGE, LLC	04-R5-40.7
BC	ALLIANCE RESOURCE GROUP, LLC	04-R5-42.1
BD	HELEN TAYLOR	04-R5-12.1
BE	HELEN TAYLOR	04-R5-12.0
BF	HELEN TAYLOR	04-R5-14.0
BG	HUMPHREY D., JR. & T.M. FLICK	04-R5-15.0
BH	DALE A. & JENNIFER VILLANI	04-R5-16.0
BI	DALE A. & JENNIFER A. VILLANI	04-R5-17.1
BJ	ROBERT N. & C.L. CONNER	04-R5-17.0
BK	PATRICIA ROUSH	04-R5-18.0
BL	ERVAN D. & NANCY G. TRUBIANO	04-R5-19.0
BM	BRIAN W. & MELINDA K. SOWIZRAL	04-R5-20.1
BN	DENNIS J. & SHEINA HOSKINS	04-R5-20.4
BO	HAROLD & LINDA COAST	04-R5-02.9
BP	JAMES M. & NANCY L. FRYE	04-R5-02.10
BQ	JAMES M. & NANCY L. FRYE	04-R5-06.2
BR	TAMMY & SAM HLEBICZKI	04-R5-06.4
BS	THOMAS H. & MARGARET A. STENGER	04-R5-62.0
BT	THOMAS H. & MARGARET A. STENGER	04-R2-06.1
BU	BARBARA & ROBERT RUSH	04-R2-06.20
BV	SCOTT & CHRISTINA DENTZ	04-R2-06.21
BW	MATTHEW T. BURKE	04-R2-06.13
BX	MARY E. MIDCAP	04-R2-14.0
BY	TODD PARKER	04-R2-14.2
BZ	LEE M. & ASHLEY N. NEIDLER	04-R2-15.0
CA	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	AIRPORT ROAD ROW
CB	DANIEL & JUDITH A. ROEDER	03-B45D-21.0
CC	PAMELA SUE & RYAN CHILES	04-R2-17.2
CD	SYLVIA A. HAWRANICK	04-R2-18.0
CE	RODNEY & NEDRA C. McCONNELL	04-R2-9999-9999
CF	GUY D. & LORI R. DONZELLA	04-R5-07.0
CG	GUY D. & LORI R. DONZELLA	04-R5-06.1
CH	RUSSELL W. MELCHING	04-R5-08.1
CI	MELISSA M. HARWATT	04-R5-08.4
CJ	JOHN E. & E.R. HARWATT	04-R5-08.2
CK	RODNEY K. & NANCY McCONNELL	04-R2-20.0
CL	OHIO COUNTY BOARD OF COMMISSIONERS, AIRPORT AUTHORITY	04-R5-10.0
CM	BURNT MILL ACRES, LLC (C/O: MARK FOSTER)	04-R5-13.0
CN	HOWARD & LESLEY PRINCE	04-R5-48.0
CO	KEVIN T. WOODFORD	04-R5-47.0
CP	JOHN W. METZ	04-R5-46.0
CQ	OHIO COUNTY PUBLIC SERVICE DISTRICT	04-R5-45.17
CR	JOHN W. METZ	04-R5-45.2
CS	JOHN W. METZ	04-R5-45.3
CT	JOHN STANLEY & JOHN SHANE WALTERS	04-R5-45.5
CU	MARION S. PAWLIC	04-R5-45.0
CV	EDWARD A. SMITH	04-R5-45.7
CW	TUNNEL RIDGE, LLC	04-R5-45.8
CX	ALLIANCE RESOURCE GROUP, LLC	04-R5-45.6
CY	ALLIANCE RESOURCE GROUP, LLC	04-R5-52.0
CZ	ALLIANCE RESOURCE GROUP, LLC	04-R5-53.0
DA	ANDREW JOHN EVICK	04-R5-54.0
DB	SUSAN L. CAIN	04-R8-08.3
DC	TUNNEL RIDGE, LLC	04-R8-08.2
DD	TUNNEL RIDGE, LLC	04-R8-08.9
DE	OHIO COUNTY COMMISSION	04-R8-08.15
DF	THOMAS & JUDITH K. TYLER	04-R8-08.8
DG	AMERICAN DISPOSAL SERVICES OF WEST VIRGINIA, INC	04-R8-15.0
DH	LOUIS R. HERCULES & ET AL	04-R8-07.0
DI	DEBRA S. SHEPHERD	04-R8-15.2
DJ	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	04-R8-0
DK	CHARLES M. & M.M. MILLER	04-R8-15.3
DL	SUZANNE V. STANLEY	04-R8-23.0
DM	TUNNEL RIDGE, LLC	04-R8-76.0
DN	TUNNEL RIDGE, LLC	04-R8-26.0
DO	TUNNEL RIDGE, LLC	04-R8-15.4
DP	TUNNEL RIDGE, LLC	04-R8-27.6
DQ	TUNNEL RIDGE, LLC	04-R8-21.2
DR	STATE OF WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	04-R8-9999-9999
DS	SUSAN KOGUT & BRADLEY MCGRATH	04-R8-27.5
DT	MARILYN R. BLAKE	04-R8-27.0
DU	JAMES KEVIN CRUPE, SR.	04-R8L-49.0
DV	WAYNE D. & MARY R. THOMAS	04-R8L-41.0
DW	JACOB A. VDDVJAK, III	04-R8Q-68.0
DX	MARY T. BERTELLI & ROGER D. BERTELLI	04-R8Q-65.0
DY	BRIAN N. BARBE	04-R8Q-66.0
DZ	BRENDA M. SELLER	04-R8L-50.0
EA	BRENDA M. SELLER	04-R8L-47.0

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
EB	CARRIE L. FORRESTER	04-R8L-46.0
EC	ROBERT L. RICE, SR. (LIFE ESTATE) & ET AL	04-R8Q-53.1
ED	ROBERT L. RICE, SR. (LIFE ESTATE) & ET AL	04-R8Q-54.0
EE	PATRICIA CATLETT	04-R8Q-55.0
EF	DESSIE M. HENDRICK, SANDRA HENDRICK & SONYA OLAKO	04-R8Q-47.0
EG	BRYAN H. & MARTHA A. KRUPINSKI	04-R8Q-50.1
EH	DONALD W. & AMY K. ELLIOTT	04-R8Q-38.0
EI	ROGER L. MOORE	04-R8Q-30.1
EJ	JOLLY W. WHEELER, JR. & KAREN M. WHEELER	04-R8Q-29.0
EK	FRANK J. & S.R. TAROVISKY	04-R8Q-28.0
EL	PAULA J. & EDWARD C. TOMASIK	04-R8Q-03.0
EM	RUSSELL E. TERAMANA & ROSEANN TERAMANA	04-R8Q-02.0
EN	RALPH J. & K.L. HUFFMAN	04-R8Q-60.0
EO	CHAD MARTIN	04-R2-06.16
EP	WILLIAM SCOTT & LAURA J. DONOHEW	04-R2-06.11
EQ	TODD & PATRICIA STENGER	04-R2-6.23
ER	PATRICK E. LEPLEY	04-R5-08.3
ES	KASMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.2
ET	KASMIR MAJEWSKI & EDWARD A. MAJEWSKI	04-R8-62.8

REVISIONS:

COMPANY:		 	
OPERATOR'S		FRANZ THOMAN OHI	
WELL #:		405H	
DISTRICT:	COUNTY:	STATE:	DATE:
RICHLAND	OHIO	WV	09-05-2019
DRAWING NO: 2018-781			API NO: 47-069-XXXXX
WELL LOCATION PLAT			DRAWN BY: D. REED
			SCALE: N/A



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	CAROL S. STANTON	04-R8-28.9
15	THOMAS D. KASUNIC	04-R8-28.2
16	DONALD R. & MINNIE JEAN TAYLOR (L/E); KIMBERLY J. KOCHY & TAMI L. TYSK (REMAINDERMEN)	04-R8-28.0
17	KIMBERLY J. & J.P. KOCHY	04-R8-28.10
18	JAMES G. & TAMI L. TYSK	04-R8-28.5
19	BARRY L. & PENNY S. MCCONNELL	04-R8-28.12
20	BARRY L. & PENNY S. MCCONNELL	04-R8-28.4
21	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R8-06.0
22	THE KATHLEEN S. CRAFT FOUNDATION & THE JOSEPH W. CRAFT, III FOUNDATION	04-R5-43.0
23	JOHN W. METZ	04-R5-45.11
24	ROBERTA M. & GEORGE B. KORNER	04-R5-45.12
25	JULIE A. KOEHLER	04-R5-45.4
26	JULIE A. KOEHLER	04-R5-45.13
27	S.E.W. TRUST (SHANE E. WOLOSAN, TRUSTEE)	04-R5-09.0
28	ROBERT KUBOVICZ (C/O: UNITED ELECTRIC)	04-R5-08.0
29	CHARLES H. FRYE & ETAL (C/O: DORIS ALTMAYER)	04-R5-06.0
30	GUY D. & LORI R. DONZELLA	04-R2-19.0
31	THOMAS H. & MARGARET A. STENGER	04-R2-06.0
32	WILLIAM S. & LAURA J. DONOHEW	04-R2-6.8
33	PAMELA CHILES & RYAN CHILES	04-R2-16.0

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-RBP-14.0
E	SHIRLEY M. WEAVER	04-RBP-02.0
F	TUNNEL RIDGE, LLC	04-RBP-16.0
G	TUNNEL RIDGE, LLC	04-RBP-16.0
H	JOHN M. MCGEE	04-RBP-17.0
I	DONALD P. GAYDA	04-RBP-18.0
J	CHARLES R. BOND	04-RBK-110.0
K	TYLER S. SCHWERTFEGER	04-RBK-111.0
L	TYLER S. SCHWERTFEGER	04-RBK-112.0
M	ELMER K. REED	04-RBK-106.0
N	ELMER K. REED	04-RBK-105.0
O	B.H. BOZENSKE & K.J. O'KELLEY	04-RBK-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-RBK-101.0
S	DELORA L. TAYLOR	04-RBK-100.0
T	SUSAN J. SOBOTA	04-R8-62.3
U	JOHN T. WRIGHT	04-RBP-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. WROSSI	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-RBF-03.0
AL	CAROL S. RHODES	04-R8-28.8
AM	GARY E. & V.L. BURKY	04-R8-28.7
AN	JAMES TODD WOLFE & MARY JEANNE WOLFE	04-R8-28.1
AO	JAMES TODD WOLFE & MARY JEANNE WOLFE	04-R8-28.3
AP	HELGA DIDRIKSEN & DARRELL E. ICKLER	04-R8-30.0
AQ	DARRELL E. & CYNTHIA A. ICKLER	04-R8-30.2
AR	JAMES G. & TAMI L. TYSK	04-R8-28.11
AS	JERRY C., SR. & D.L. BEAVERS	04-R8-29.2
AT	BARRY L. & P.S. MCCONNELL	04-R8-29.1

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{R2} ^A ^V ⁺ ⁰
Production Company™

OPERATOR'S
WELL #:

FRANZ THOMAN OHI
405H

DISTRICT:
RICHLAND

COUNTY:
OHIO

STATE:
WV

DATE: 09-05-2019
API NO: 47-069-XXXXX
DRAWN BY: D. REED
SCALE: N/A
DRAWING NO: 2018-781
WELL LOCATION PLAT