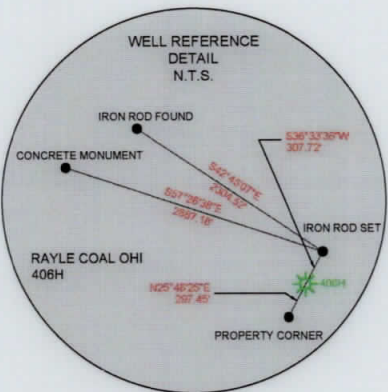
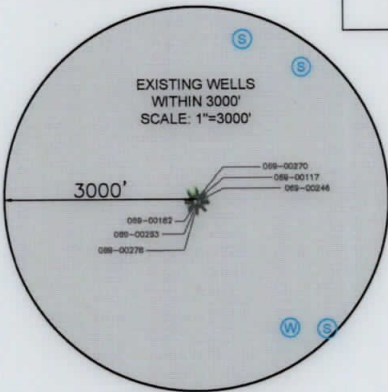
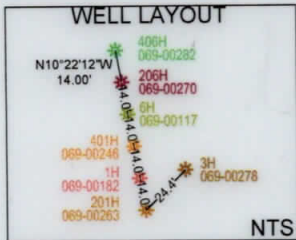


JHA Companies
ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
 www.jhacompanies.com
 68011 Vineyard Road
 St. Clairsville, Ohio 43950
 740-695-6100



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

LATITUDE: 40°07'30" BOTTOM HOLE (2000' SCALE)

519'

79'

2211'

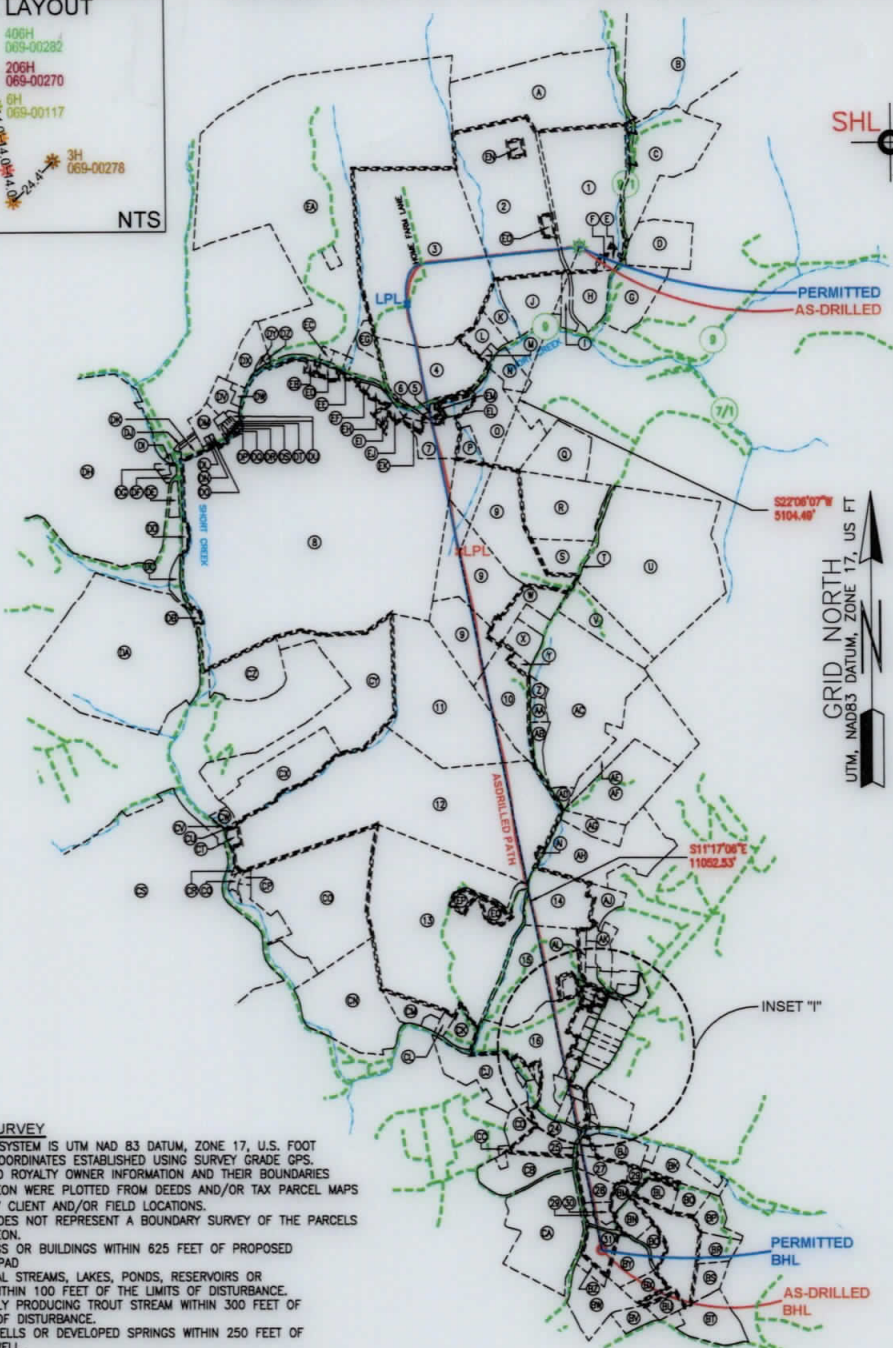
SHL

1878'

BHL

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

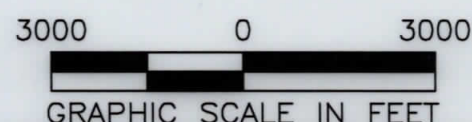
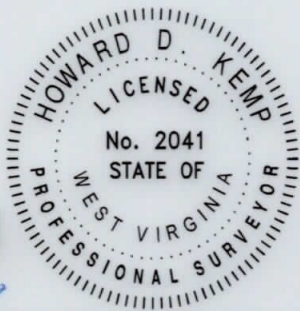
LONGITUDE: 80°37'30" SURFACE HOLE (2000' SCALE)



GRID NORTH
 UTM, NAD83 DATUM, ZONE 17, US FT

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4445755.83 EASTING: 531775.04
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4445476.09 EASTING: 530958.07
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4441014.50 EASTING: 531931.11
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4445755.83 EASTING: 531775.04
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4444305.25 EASTING: 531214.07
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4441014.27 EASTING: 531928.26

- 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 ANOTHER CONSULTANT AND THE DRILLING INFORMATION IS PROVIDED TO JHA.



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

 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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC OPERATOR'S WELL #: 406H API WELL #: 47 069 00282 STATE COUNTY PERMIT
	RAYLE COAL OHI RAYLE COAL OHI 406H	DATE: 07-09-2019 API NO: 47-069-00282 DRAWN BY: D. REED SCALE: 1" = 3000' DRAWING NO: 2018-864 WELL LOCATION PLAT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1063.8'

DISTRICT: RICHLAND COUNTY: OHIO QUADRANGLE: TILTONSVILLE, OH/WHEELING, WV

SURFACE OWNER: RAYLE COAL COMPANY ACREAGE: ±61.53

OIL & GAS ROYALTY OWNER: RAYLE COAL COMPANY ACREAGE: ±61.53

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: 5,925' TVD 21,908' TMD

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

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 --- AS DRILLED PATH --- PROPOSED PATH	REVISIONS: DATE: 07-09-2019 API NO: 47-069-00282 DRAWN BY: D. REED SCALE: 1" = 3000' DRAWING NO: 2018-864 WELL LOCATION PLAT
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WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RAYLE COAL COMPANY (S/R)	04-R6-0017.0004
TRACT	SURFACE OWNER	TAX PARCEL
2	RAYLE COAL COMPANY	04-R6-0017.0000
3	MARC SEAMON	04-R6-0037.0000
4	MARC SEAMON	04-R6-0037.0001
5	JAMES W. & TERESA L. PERRY	04-R9-0014.0006
6	LEWIS A. PERRY, JR. & SHARON PERRY	04-R9-0014.0007
7	HELEN M. PERRY (LIFE ESTATE) & ET AL	04-R9-0014.0002
8	AMERICAN DISPOSAL SERVICES	04-R8-0015.0000
9	JORDAN & GAYLE WEBER	04-R9-0009.0000
10	L.R. HOPKINS, JR. & R.F. DELATORE	04-R9-0005.0000
11	AMERICAN DISPOSAL SERVICES OF WV	04-R8-0061.0000
12	TUNNEL RIDGE, LLC	04-R8-0061.0004
13	JOSEPH ELIAS	04-R12-0001.0000
14	DOMINIC J. & SHERRIE D. COTTRELL	04-R12-0019.0030
15	ROBERT E. JONES LIVING TRUST	04-R12-0018.0000
16	MICHAEL T. & MICHELLE LYNN RATCLIFFE	04-R12-0023.0015
17	CHRISTOPHER T. GEORGE & AMBER D. GEORGE	04-R12-0023.0021
18	ROLLIN P. BOHN & TARA BOHN	04-R12-0023.0022
19	HOLLY J. ZAHNOW	04-R12-0023.0024
20	BRIAN K. & STACEY L. PAGE	04-R12-0023.0007
21	LORI JEAN HENRY	04-R12-0023.0014
22	LORI JEAN HENRY	04-R12-0023.0001
23	LORI JEAN HENRY	04-R12-999.9999
24	LORI JEAN HENRY	04-R12-0007.0000
25	WV DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	BETHANY PIKE
26	LORI HENRY (C/O: HENRY'S SERVICE STATION)	04-R12-0029.0000
27	NOEL KAREN & SCOTT R. YOCUM	04-R12-0045.0017
28	RYAN RIES & DANIELLE WASSAM	04-R12-0045.0020
29	JOHN A. TARR, IV	04-R12-0045.0000
30	JOHN A. TARR, III	04-R12-0045.0009
31	JONATHAN D. LECHNER	04-R12-0045.0012

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	SHORT CREEK COAL COMPANY	04-R6-0017.0003
B	WINDSOR COAL COMPANY	04-R6-0012.0000
C	WAYNE E. SHOOK	04-R6-0015.0000
D	GLADYS & WINDELL H., II GOFF	04-R6-0027.0001
E	STELLA M. & KATHLEEN J. BRYAN	04-R6-0017.0001
F	WINDSOR COAL COMPANY	04-R6-0025.0000
G	GLADYS GOFF & WINDELL H. GOFF, II	04-R6-0024.0003
H	RICHARD A. WOOD, JR.	04-R6-0024.0006
I	LOUIS J., JR. & GRETCHEN L. ENNIS	04-R6-0019.0002
J	SEAN A. SISARCICK	04-R6-0019.0000
K	PAMELA S. LOUGH	04-R6-0019.0004
L	PAMELA S. LOUGH	04-R6-0019.0001
M	STEVEN E. & S.D. DUNCIL	04-R9-0022.0001
N	DAVID M. & MARY H. ZIEGLER	04-R9-0022.0002
O	HELEN M. PERRY (LIFE ESTATE) & ET AL	04-R9-0014.0001
P	CHARLES R. & PHYLLIS J. KELLAM	04-R9-0022.0010
Q	DAVID B. & L.M. MAIN	04-R9-0010.0001
R	DAVID B. & L.M. MAIN	04-R9-0010.0000
S	CLAIRE M. CAVENEY	04-R9-0003.0000
T	CLAIRE M. CAVENEY	04-R9-0010.0002
U	CLAIRE M. CAVENEY	04-R9-0003.0000
V	WESBANCO TRUST & INVESTMENT SERVICES	04-R9-0016.0001
W	NICHOLAS P. KLAMUT	04-R9-0012.0000
X	JEWELL A. & RODNEY L. MONROE	04-R9-0005.0002
Y	LEWIS R., JR. & ROSEANN HOPKINS	04-R9-0008.0000
Z	LEWIS R., JR. & R. HOPKINS	04-R9-0004.0000
AA	LEWIS R., JR. & R.F. HOPKINS	04-R6-0017.0003
AB	WILLIAM ISAAC SERTICH MERIDITH KNIGHT	04-R9-0003.0007
AC	DONNA MARTIN EVANS	04-R9-0003.0005
AD	BETH ANNE KENNEDY	04-R9-0003.0004
AE	RCK 2 GROUP, LLC	04-R9-0027.0000
AF	RCK 2 GROUP (ATTN: KAYLEEN FITZSIMMONS)	04-R9-0001.0000
AG	WILLIAM H. & C.L. REUTHER	04-R9-0002.0000
AH	BRADFORD & NANNETTA HARTLEY	04-R9-0001.0003
AI	GREGORY TAGGART	04-R9-0050.0000
AJ	DOMINIC J. & SHERRIE D. COTTRELL	04-R12-0019.0034
AK	DENNIS E. & ANNA M. LAWTHER	04-R12-0019.0035
AL	COLUMBIA GAS TRANSMISSION CORPORATION	04-R12-0019.0001
AM	STEPHEN E. & DEBORAH E. KEDING	04-R12-0019.0021
AN	DANIEL HARRIMAN	04-R12-0018.0002
AO	DANIEL M. HARRIMAN	04-R12-0018.0001
AP	CARLEY & CHRISTOPHER ELSWICK	04-R12-0021.0000
AQ	EDWARD A. & K.L. WOODS	04-R12-0021.0001
AR	LAWRENCE WITZBERGER, IV	04-R12-0019.0005
AS	NANCY WITZBERGER	04-R12-0023.0002
AT	MATTHEW J. & TISHA L. PAREE	04-R12-0023.0011
AU	MATTHEW D. MENDELSON	04-R12-0023.0001
AV	ANN F. THOMAS	04-R12-0023.0013
AW	ANN F. THOMAS	04-R12-0023.0012

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
AX	JOHN DAVID & JENNIFER LYNN MILLER	04-R12-0023.0026
AY	MICHAEL THOMAS & MICHELLE LYNN RATCLIFFE	04-R12-0023.0016
AZ	LAWRENCE W., III & J.C. WITZBERGER	04-R12-0022.0000
BA	TISH L. PAREE, NELSON PAREE, DALE PAREE & PAMELA PAREE	04-R12-0023.0023
BB	MATTHEW J. & TISHA L. PAREE	04-R12-0022.0020
BC	MATTHEW J. & TISHA PAREE	04-R12-0022.0006
BD	HARRY A. RUMIS, JR. & EDITH J. RUMIS	04-R12-0023.0000
BE	MARY M. GORNEY (LIFE ESTATE)	04-R12-0024.0000
BF	LORI JEAN HENRY	04-R12-0025.0000
BG	LORI JEAN HENRY	04-R12-0026.0000
BH	LORI JEAN HENRY	04-R12-0027.0000
BI	HENRY'S SERVICE STATION (C/O: LORI JEAN HENRY)	04-R12-0028.0001
BJ	LORI J. HENRY (C/O: HENRY'S SERVICE STATION)	04-R12-0031.0000
BK	KATHLEEN E. & KEVIN J. TAYLOR	04-R12-0044.0000
BL	JESSICA YBANEZ-MORANO	04-R12-0045.0011
BM	CARL BAROSSO & MARIE GIACOMAZZA	04-R12-0045.0019
BN	JOHN A. TARR, IV & SABRINA M. TARR	04-R12-0045.0013
BO	JEFFREY & ANGELA M. TENNANT	04-R12-0045.0007
BP	DALE SMITH, II & KAREN L. SMITH	04-R12-0045.0010
BQ	MILTON E. & JOAN S. NUGENT	04-R12-0045.0006
BR	JAMES & ANNA BOUGHER	04-R12-0045.0005
BS	TINA L. PHILLIPS & ELIZABETH A. PADDEN	04-R12-0045.0008
BT	PHILLIP D. HIGH	04-R12-0045.0003
BU	GILBERT ALLAN & LUCILLE ELIZABETH BROWN	04-R12-0045.0004
BV	G. ALLAN & L.E. BROWN	04-R12-0047.0000
BW	ROBERT L. & PATRICIA J. WEISS, IRREVOCABLE TRUST	04-R12-0046.0000
BX	KERRIE WEISENBORN (C/O: STEPHEN R. FOX)	04-R12-0045.0015
BY	CHRISTOPHER & CHRISTINE TARR	04-R12-0045.0014
BZ	JONAHTON D. LECHNER, MD	04-R12-0046.0001
CA	MULL W. QUAY, II TRUST	04-R12-0012.0000
CB	MICHAEL S. & SHELIA M. LITTLE	04-R12-0013.0000
CC	STEPHANIE HELLER	04-R12J-0050.0000
CD	RONALD A. & LYNN M. KAMINSKI	04-R12-0045.0000
CE	KARYL LEE DONALDSON	04-R12-0016.0000
CF	RALPH R. BURKHART, JR.	04-R12-0023.0019
CG	RALPH R. BURKHART, JR.	04-R12-0023.0017
CH	DAVID P. DEFRANCO & KRISTY A. DEFRANCO	04-R12-0023.0003
CI	STEPHEN E. & SHELLY D. DUNCIL	04-R12-0017.0000
CJ	SEAN P. & KATIE M. SMITH	04-R12E-0023.0029
CK	RELYKS, LLC	04-R12-0005.0000
CL	MARY ANN BURKHART	04-R12-0004.0000
CM	DAVID J. MILLER, JR. & MARY ANN BURKHART	04-R12-0002.0000
CN	HOWARD L. & B.M. SHACKELFORD	04-R11-0035.0002
CO	TUNNEL RIDGE, LLC	04-R12-0001.0003
CP	TUNNEL RIDGE, LLC	04-R11-0034.0003
CQ	TUNNEL RIDGE, LLC	04-R11-0034.0012
CR	TUNNEL RIDGE, LLC	04-R8-0061.0002
CS	SANDCREST FOUNDATION, INC	04-R11-0015.0000
CT	TUNNEL RIDGE, LLC	04-R8-0061.0001
CU	TUNNEL RIDGE, LLC	04-R8-0060.0001
CV	TUNNEL RIDGE, LLC	04-R8-0074.0000
CW	TUNNEL RIDGE, LLC	04-R8-0059.0000
CX	TUNNEL RIDGE, LLC	04-R8-0022.0001
CY	TUNNEL RIDGE, LLC	04-R8-0022.0000
CZ	TUNNEL RIDGE, LLC	04-R8-0021.0002
DA	TUNNEL RIDGE, LLC	04-R8-0027.0007
DB	TUNNEL RIDGE, LLC	04-R8-0027.0006
DC	TUNNEL RIDGE, LLC	04-R8-0015.0004
DD	CHARLES M. & M.M. MILLER	04-R8-0015.0003
DE	DOH	04-R8
DF	DEBRA S. SHEPHERD	04-R8-0015.0002
DG	LOUIS R. HERCULEES & ET AL	04-R8-0007.0000
DH	ALLIANCE RESOURCE GP, LLC	04-R8-0006.0000
DI	THOMAS & JUDITH K. TYLER	04-R8-0008.0008
DJ	SAM L. PELLEN, JR. & AMY M. PELLEN	04-R8-0008.0007
DK	SAM L. PELLEN, JR. & AMY M. PELLEN	04-R8-0008.0000
DL	HARRY J. & ROSALIE E. DAVIS	04-R8-0009.0001
DM	ARTHUR ENNIS & PEGGY CLARK	04-R8-0009.0000
DN	EUNICE MAE DAVIS	04-R8-0009.0003
DO	HAROLD & EUNICE MAE DAVIS	04-R8-0009.0002
DP	JOYCE ANN FARLEY	04-R8-0010.0001
DQ	JOYCE ANN FARLEY	04-R8-0010.0002
DR	BETTY L. SNYDER (C/O: PAULA MCGEE)	04-R8-0010.0000
DS	MARK D. MATTHIAS	04-R8-0011.0001
DT	MARK D. MATTHIAS	04-R8-0011.0000
DU	LANDRUM D. & RHONDA J. ROBBINS	04-R8-0013.0002
DV	RODNEY & A.J. ROBBINS	04-R8-0013.0000
DW	RICKIE SNYDER	04-R8-0014.0000
DX	ALLIED WASTE, INC	04-R8-0056.0000
DY	ALLIED WASTE, INC	04-R8-0056.0002
DZ	ALLIED WASTE, INC	04-R8-0056.0001

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN ^{RT-V+}
Production Company™

OPERATOR'S

RAYLE COAL OHI

DATE: 07-09-2019

WELL #:

406H

API NO: 47-069-00282

DRAWN BY: D. REED

DISTRICT:
RICHLAND

COUNTY:
OHIO

STATE:
WV

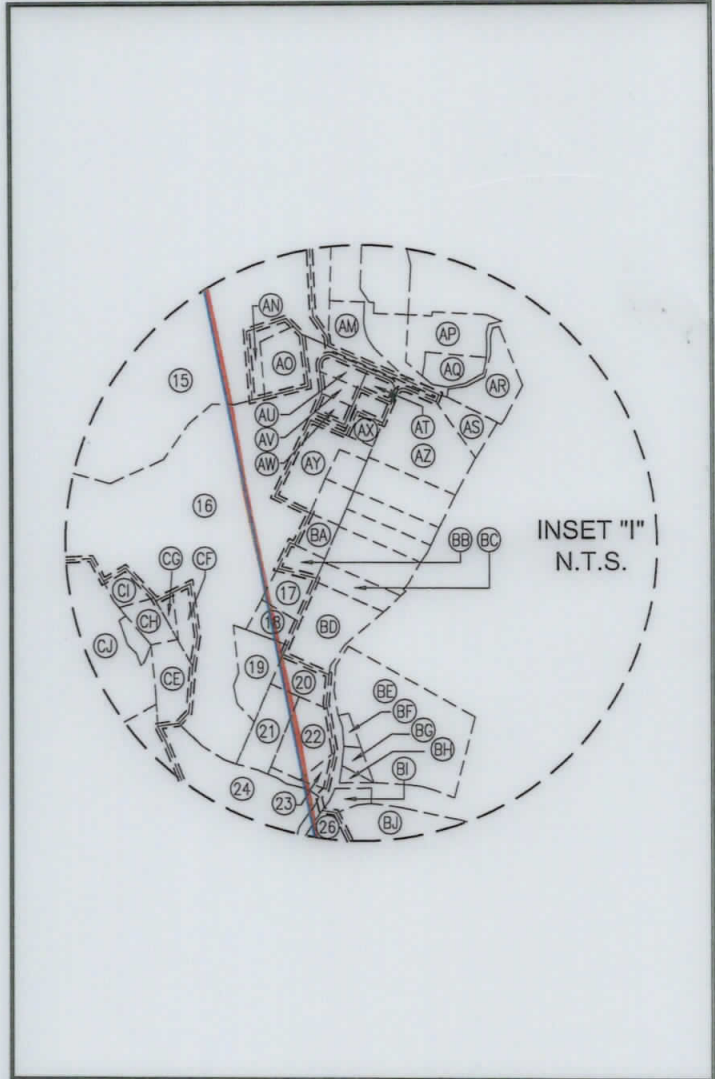
SCALE: N/A

DRAWING NO: 2018-864

WELL LOCATION PLAT

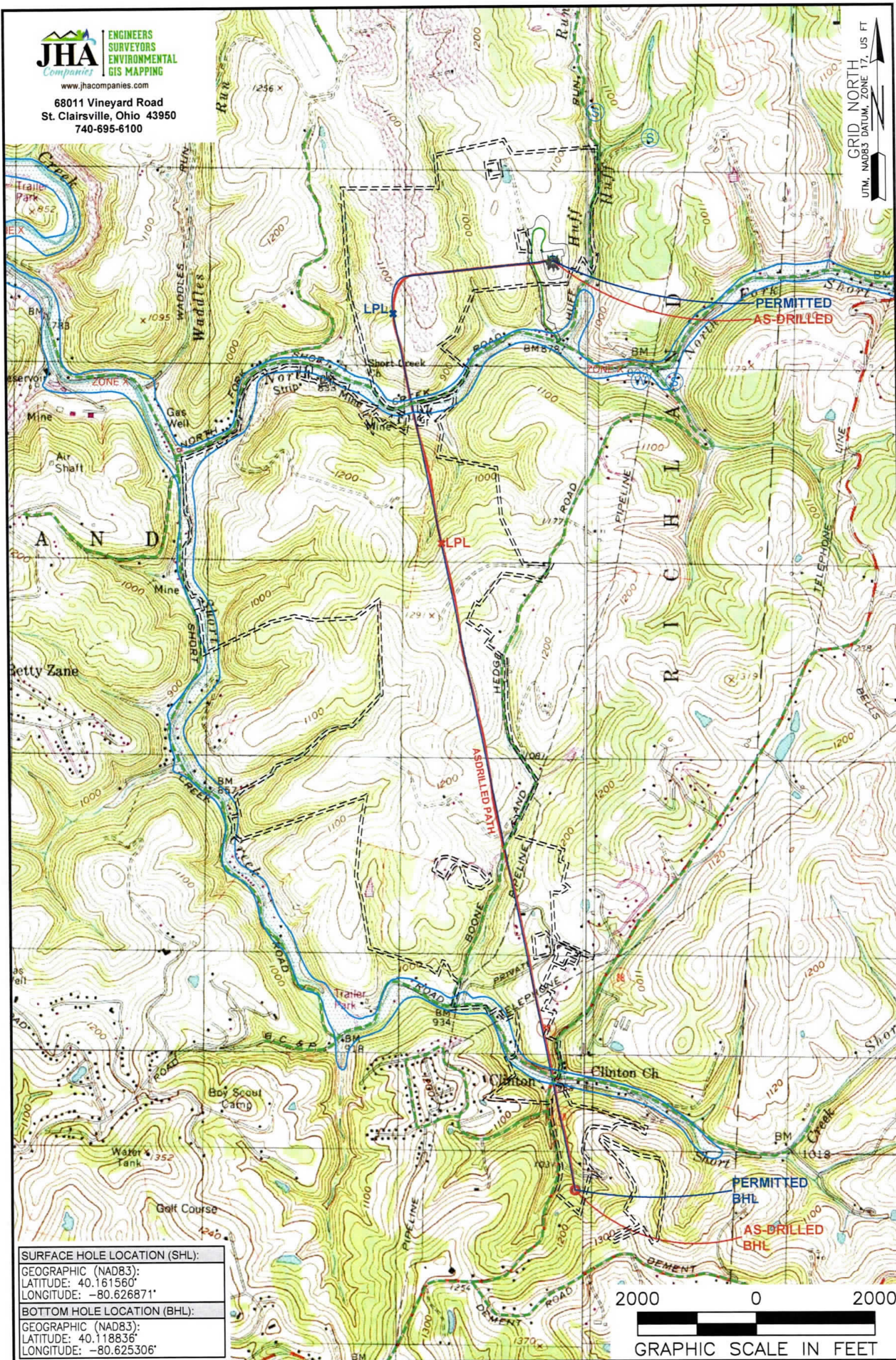
COMPLETION ID 2501164666
PAD ID 3001155530

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
EA	BOARD OF COMMISSIONERS OF OHIO COUNTY	04-R5-0055.0000
EB	LUTHER R. SMITH, II & D.F. SMITH	04-R8-0016.0001
EC	W. ERIC GADD & LISA NUZUM GADD	04-R5-0055.0003
ED	DELBERT E. & CAROL L. HUFFMAN	04-R8-0016.0002
EE	SHORT CREEK METHODIST E CHURCH	04-R5-0060.0000
EF	DELBERT E. HUFFMAN, JR.	04-R8-0018.0004
EG	SHORT CREEK CEMETERY ASSOCIATION, TRUSTEES	04-R5-0057.0000
EH	LUTHER R. SMITH, JR. & ELEANOR L. SMITH	04-R8-0018.0003
EI	JOHN E. HARWATT	04-R8-0018.0002
EJ	LUTHER R. SMITH, JR. & E.L. SMITH	04-R8-0018.0001
EK	LUTHER R. SMITH, JR. & E.L. SMITH	04-R9-0014.0004
EL	LEWIS A. PERRY, JR. & SHARON PERRY	04-R9-0014.0003
EM	JAMES W. & TERESA L. PERRY	04-R9-0014.0005
EN	WEIRTON NATIONAL BANK	04-R6-0017.0005
EO	RAYLE COAL COMPANY	04-R6-0017.0002
EP	ROBERT C. & PATRICIA L. KOTA	04-R12-0001.0002
EQ	MARK & LAURA DAWSON	04-R12-0001.0001



REVISIONS:

COMPANY:		 	
OPERATOR'S		RAYLE COAL OHI	
WELL #:		406H	
DISTRICT:	COUNTY:	STATE:	DATE:
RICHLAND	OHIO	WV	07-09-2019
		API NO: 47-069-00282	
		DRAWN BY: D. REED	
		SCALE: N/A	
		DRAWING NO: 2018-864	
		WELL LOCATION PLAT	



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.161560°
LONGITUDE: -80.626871°

BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.118836°
LONGITUDE: -80.625306°

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
- ☼ EXISTING / PRODUCING WELLHEAD
- LPL* EXISTING LANDING POINT LOCATION
- PROPOSED SURFACE HOLE / BOTTOM HOLE
- LPL* PROPOSED LANDING POINT LOCATION
- ACCESS ROAD
- PUBLIC ROAD
- LEASE BOUNDARY
- PROPOSED PATH
- AS-DRILLED PATH
- FLOOD PLAIN

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC		WELL (FARM) NAME: RAYLE COAL OHI		WELL # 406H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508		COUNTY: OHIO	CODE: 069	DISTRICT: RICHLAND	API # 47-069-00282
SURFACE OWNER: RAYLE COAL COMPANY		USGS 7 1/2 QUADRANGLE MAP NAME: TILTONSVILLE, OH / WHEELING, WV			