

(2000' SCALE) LATITUDE: 40°20'00" SURFACE HOLE

9777'

(2000' SCALE) LATITUDE: 40°17'30" BOTTOM HOLE

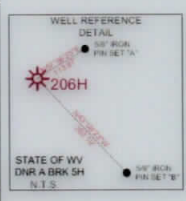
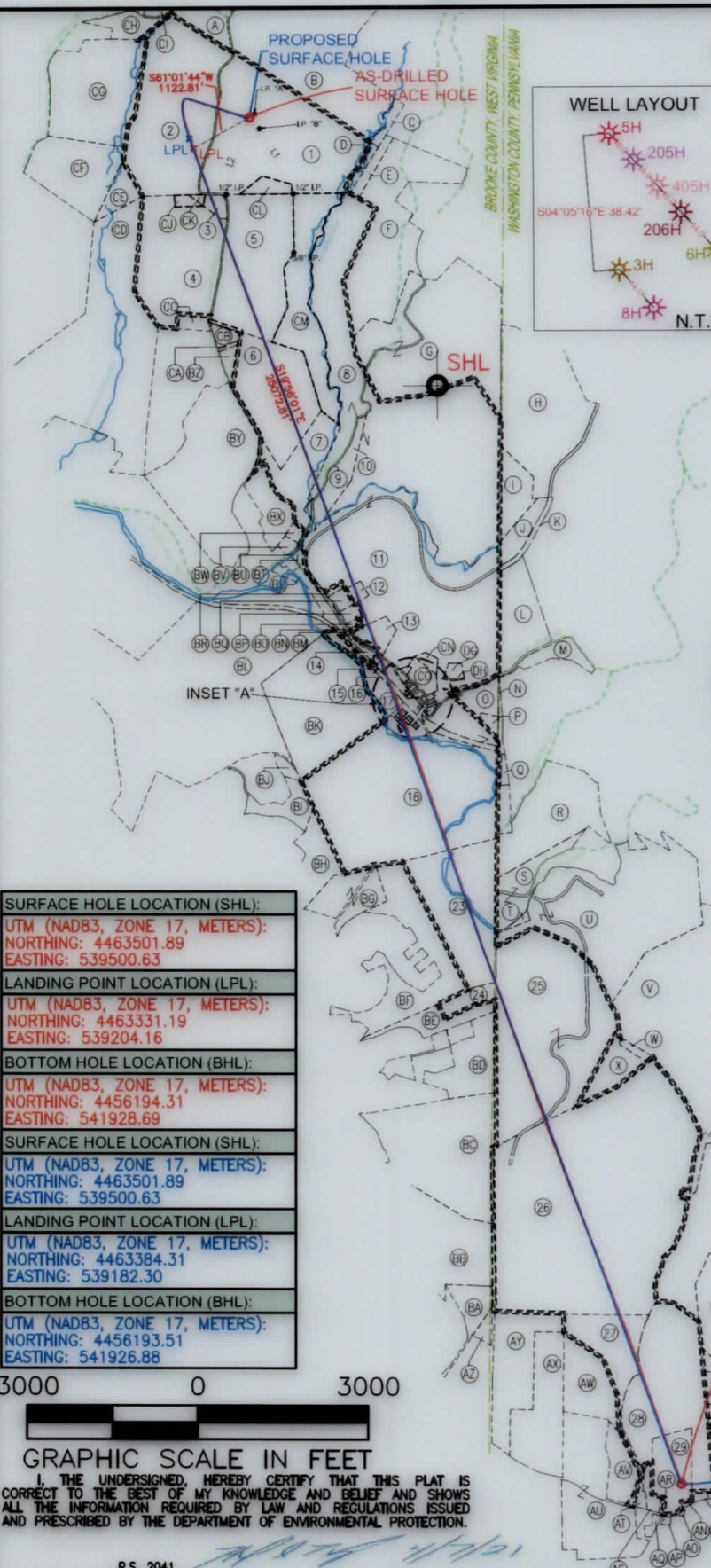
1943'

4454'

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

13301'

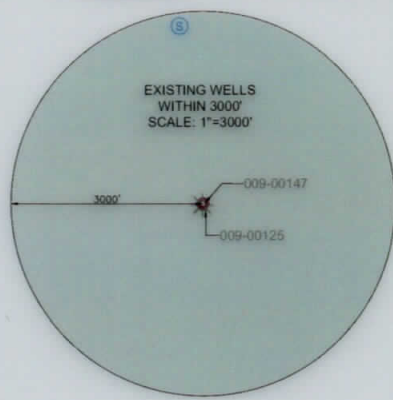
(2000' SCALE) LONGITUDE: 80°30'00" SURFACE HOLE



LINE	BEARING	DISTANCE
L1	N29°46'58\"W	1550.98'
L2	S16°56'26\"W	1414.58'

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 WELLS.



JHA Companies
ENGINEERS SURVEYORS ENVIRONMENTAL GIS MAPPING
www.jhacompanies.com

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

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4463501.89 EASTING: 539500.63
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4463331.19 EASTING: 539204.16
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4456194.31 EASTING: 541928.69
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4463501.89 EASTING: 539500.63
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4463384.31 EASTING: 539182.30
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4456193.51 EASTING: 541926.88

3000 0 3000

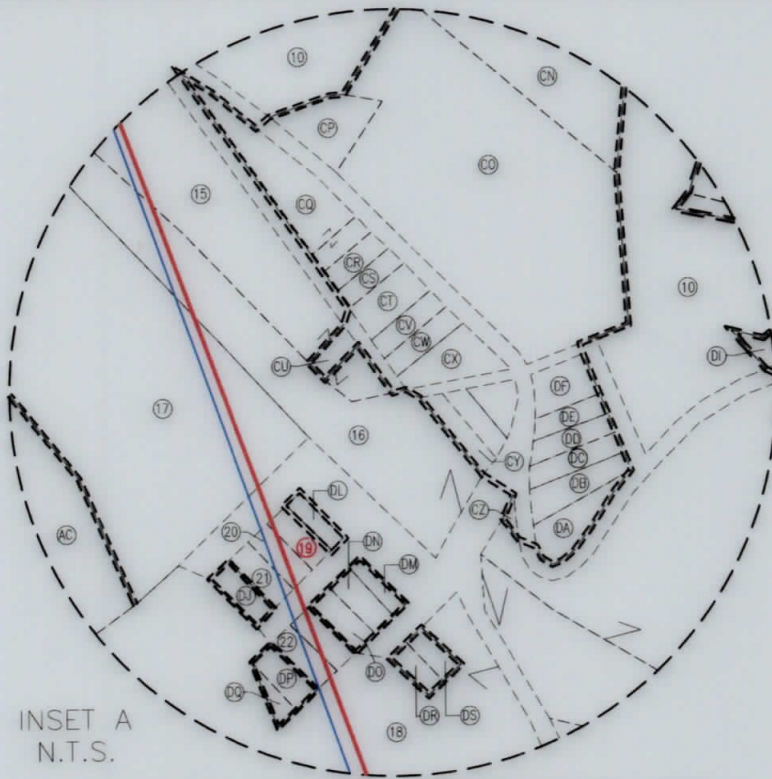


I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2041

<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>STATE OF WV DNR A</p> <p>OPERATOR'S WELL #: BRK 206H</p> <p>API WELL #: 47 009 299 STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL WASTE DISPOSAL PRODUCTION <input checked="" type="checkbox"/> DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: UPPER OHIO NORTH DISTRICT: CROSS CREEK COUNTY: BROOKE SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DNR</p> <p>DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,973' TVD 31,541' TMD</p>	<p>DATE: 04-06-2021 API NO: 47-009-00299 DRAWN BY: R.GRIMES SCALE: 1" = 3000' DRAWING NO: 2019-0789 WELL LOCATION PLAT</p>

08/27/2021



INSET A
N.T.S.

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION (S/R)	04-CC16-0007.0001
TRACT	SURFACE OWNER	TAX PARCEL
2	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC16-0006.0000
3	FREDA M. DUNN & ROBERT SAUNDRA (L/E FREDA DUNN)	04-CC20-0001.0000
4	WILLIAM & ANNA MAE SAUNDERS	04-CC20-0002.0000
5	COLLIERS SPORTSMAN CLUB	04-CC20-0024.0000
6	COLLIERS SPORTSMAN CLUB	04-CC20-0021.0000
7	WILLIAM MORGAN & DORIS J. ROUSE	04-CC20-0020.0000
8	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION FOR THE USE AND BENEFIT OF THE WILDLIFE RESOURCES SECTION	04-CC20-0025.0000
9	STATE OF WEST VIRGINIA DEPARTMENT OF HIGHWAYS	AMSPOKER ROAD
10	DEBORAH K. SLIDAY	04-CC20-0032.0000
11	NICKOLES 3 LLC	04-CC20-0033.0000
12	JEFFREY O. NICKOLES	04-CC20-0033.0001
13	JANE KIERCE	04-C24B-0004.0000
14	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	04-C24B-0005.0000
15	ANNETTE MILLER (L/E FRANK & ANNA MAE MCQUILLAN)	04-C24B-0028.0000
16	NORFOLK & WESTERN RAILWAY CO.	04-C19K-0018.0000
17	NORFOLK & WESTERN RAILWAY CO.	04-C24B-0029.0000
18	MICHAEL OBER	04-CC24-0007.0000
19	MARY ELLEN MORRIS	04-C24B-0031.0000
20	MARY ELLEN MORRIS	04-C24F-0003.0000
21	MARY ELLEN MORRIS	04-C24F-0002.0000
22	MICHAEL OBER	04-C24F-0009.0000
23	EUGENE CRUNY	04-CC24-0130.0000
24	STARVAGGI INDUSTRIES	04-CC24-0129.0000
25	BROWNLEE LAND VENTURES	370-1-15-0
26	STATE LINE REAL ESTATE LLC	370-4-1-0
27	RONALD B. JR. & ROSEANNE POWELL	370-7-2-2
28	WILLIAM & GEORGE TACZAK	370-4-47-0
29	OWINGS FAMILY TRUST (JOANNE OWINGS TRUSTEES)	370-4-46-0

08/27/2021

REVISIONS:	COMPANY: SWN Production Company, LLC		SWN ^{Rt} / _A ^{V+} / ₀ Production Company™	
	OPERATOR'S STATE OF WV DNR A		DATE: 04-06-2021	
	WELL #: BRK 206H		API NO: 47-009-00299	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	DRAWN BY: R.GRIMES	
		STATE: WV	SCALE: N/A	
	DRAWING NO: 2019-0789			
	WELL LOCATION PLAT			

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	THE Palfavy Irrevocable Trust (Dennis Palfavy III)	04-CC16-0005.0000
B	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC16-0008.0001
C	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC16-0008.0000
D	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0046.0000
E	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0026.0000
F	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0027.0000
G	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	04-CC20-0031.0000
H	PENWEIR CONSTRUCTION COMPANY	380-14-4-0
I	PENWEIR CONSTRUCTION COMPANY	380-14-3-0
J	CALVIN H. MYERS JR.	380-14-2-0
K	PITTSBURGH & WEST VIRGINIA RAILROAD CO.	380-14-1-0
L	RANDY L. NICKOLES	380-15-19-0
M	WILLIAM & CAROLYN R. ROTELLINI	380-15-18-1
N	*UNKNOWN*	*UNKNOWN*
O	JEFFREY O. NICKOLES	04-C24B-0009.0000
P	PITTSBURGH & WEST VIRGINIA RAILWAY CO.	04-C24F-0014.0000
Q	JERRY & LINDA MCNEELY	380-15-1-2
R	ROBERT ROTELLINI & ANDREA L. PUSKARICH	380-15-9-0
S	EUGENE CRUNY & JERAM A. JOSEPH	380-15-8-0
T	EUGENE CRUNY & JERAM A. JOSEPH	370-1-16-0
U	DANIEL BANOVICH	370-1-1-0
V	PETER J. KLOVANICH INC.	370-1-12-0
W	BROWNLEE LAND VENTURES	370-1-15-0
X	KENNETH D. JR. & CECILIA C. VARNER	370-1-14-0
Y	KENNETH D. JR. & CECILIA C. VARNER	370-4-2-0
Z	ANGELO F. & PHILIP FALCONI	370-4-3-0
AA	DAVID L. & KELLY L. PERRIN	370-4-52-7
AB	DAVID L. & KELLY L. PERRIN	370-4-52-8
AC	DAREN L. PERRIN	370-4-52-9
AD	JASON STENGER	370-4-52-5
AE	MARK & CYNTHIA CECCHINI	370-4-52-6
AF	MARK & CYNTHIA CECCHINI	370-4-52-4
AG	MARK & CYNTHIA CECCHINI	370-4-52-2
AH	BRICE W. & ALICIA DUTTON	370-4-52-3
AI	JOHN P. JR. DIBBLE & RACHELE E. PADILLA	370-4-52-0
AJ	JOHN M. RYNAWEC	370-8-1-1-8-0
AK	JOHN RYNAWEC SR.	370-8-1-1-8-2
AL	DUANE C. & RUTH ANN RYNAWEC	370-8-1-1-8-1
AM	GARY W. DUPAIN	370-8-1-1-7-0
AN	DONALD ALBERT SELLA & LISA HAMILTON	370-8-1-1-6-0
AO	TRUDI PITTMAN RUSH	370-8-1-2-1-0
AP	FRANCIS M. JR. & MARGARET T. COOKE	370-8-1-3-4-0
AQ	LOWER BUFFALO PRESBYTERIAN CHURCH	370-8-1-3-2-0
AR	NORMA V. HADDON	370-8-1-3-3-0
AS	NORMA V. HADDON	370-8-1-1-1-0
AT	WILLIAM & GEORGE TACZAK	370-8-1-1-1-1
AU	ROBERT G. & NANCY L. BRIGGS	370-7-0-0-2-0
AV	DAVID J. & JOANNE K. DEMPSTER	370-7-0-0-2-3
AW	CHERYL BUTYA	370-7-0-0-2-1
AX	JOSEPH J. DEPETRO III	370-7-0-0-1-0
AY	RYAN M. & BROOKE N. SMITH	370-7-0-0-1-1
AZ	NEAL E. & JOANNE W. SMITH	4-CC29-194.2
BA	RUTH ANN STEWART & MADELOD DAWN JACKSON	4-CC29-194
BB	ROBERT LEE FRESHWATER	4-CC29-134
BC	DEBRA CYPHERT(1/2) MATTHEW FAIR(1/4) SUSAN BRUFFY(1/4)	4-CC29-57
BD	ELLEN CATTARUZZA	4-CC29-39
BE	MICHAEL D. & LOIS J. JONES	4-CC29-128
BF	DEAN SMITH	4-CC24-99
BG	DEAN SMITH	4-CC24-98
BH	GEORGE L. BRADLEY	4-CC24-55
BI	RAYMOND S. & DENNIS P. CROSS	4-CC24-13
BJ	WHEELING ENERGY WORKS LTD	4-CC24-8
BK	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	4-CC24-3
BL	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	4-CC23-325

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
BM	DEBRA MCQUILLAN ETAL (L/E FRANK L. & ANNA MAE MCQUILLAN)	4-C24B-27
BN	STATE OF WEST VIRGINIA, DEPARTMENT OF HIGHWAYS	4-C24B-3
BO	EDWARD L. & CAROL J. THOMPSON	4-C24B-2
BP	JEFFREY, RANDY, & GREGORY NICKOLES (SURVIVORSHIP)	4-C24B-1
BQ	JAMES & CHARLENE JOHNSON	4-CC20-43
BR	TIMOTHY J. DISERIO	4-CC20-42
BS	NORFOLK & WESTERN RAILROAD CO.	4-C24B-29
BT	ROBERT G. HIGGINBOTHAM JR.	4-CC20-41
BU	RON GASPARINE	4-CC20-40
BV	WILLIAM & MILDRED T. MARINO	4-CC20-35
BW	ROBERT & DELORIS CLINE	4-CC20-34
BX	LINDY L. & SANTY GALIANO	4-CC20-19.1
BY	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	4-CC20-6
BZ	SUSAN D. & DENNIS M. BREEN	4-CC20-22
CA	SUSAN D. & DENNIS BREEN (SURVIVORSHIP)	4-CC20-23.1
CB	WILLIAM C & ANNA MAE SAUNDERS	4-CC20-23
CC	STACI & PATRICK BREEN	4-CC20-3
CD	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	4-CC19-168
CE	JASON P. NUZUM	4-CC19-113
CF	JASON P. NUZUM	4-CC15-70
CG	PETER D. & RUTH M. BLASKOVICH	4-CC15-71
CH	LENORA J. RINEHART	4-CC15-74
CJ	LARRY E. REED	4-CC15-68.1
CK	DAVID C. DAMI	4-CC20-2.1
CL	DAVID C. DAMI	4-CC20-1.1
CM	COLLIERS SPORTSMANS CLUB	4-CC20-45
CN	STATE OF WEST VIRGINIA, DIVISION OF NATURAL RESOURCES	4-CC20-25.1
CO	NICKOLES 3 LLC	4-CC20-33
CP	ANNETTE MILLER	4-C24B-7
CQ	GREGORY NICKOLES	4-C24B-6
CR	DEBRA MCQUILLAN ETAL (L/E FRANK L. & ANNA MAE MCQUILLAN)	4-C24B-27
CS	FRANKLIN WINSKI	4-C24B-25
CT	FRANKLIN WINSKI	4-C24B-24
CU	ALICE M. STEVENS	4-C24B-23
CV	DEBRA MCQUILLAN & ANNETTE MILLER (L/E FRANK L. & ANNA MAE MCQUILLAN)	4-C24B-19
DV	DENNIS F. MCQUILLAN	4-C24B-22
DW	DENNIS F. MCQUILLAN	4-C24B-21
CX	KATHY E. LAWRENCE	4-C24B-20
CY	GREG & CAROL NICKOLES	4-C24B-18
CZ	JAMES & CHARLENE JOHNSON (SURVIVOR)	4-C24B-10
DA	GREG & CAROL NICKOLES	4-C24B-11
DB	GREG & CAROL NICKOLES	4-C24B-12
DC	GREG & CAROL NICKOLES	4-C24B-13
DD	GREG & CAROL NICKOLES	4-C24B-14
DE	H3 LLC	4-C24B-15
DF	NICKOLES 3 LLC	4-CC20-33
DG	RANDY L. NICKOLES	4-C24B-8
DH	RANDY L. NICKOLES	4-C24B-33
DI	JEFFREY NICKOLES	4-C24B-9
DJ	MICHAEL L. OBER	4-C24F-1
DK	REMOVED	REMOVED
DL	MARY ELLEN MORRIS	4-C24B-30
DM	ROBERT & PEGGY ANKROM (JTWS)	4-C24F-6
DN	ROBERT & PEGGY ANKROM (JTWS)	4-C24F-7
DO	JOSEPH & LINA (SURVIVOR)	4-C24F-8
DP	MICHAEL L. OBER	4-C24F-10
DQ	*UNKNOWN*	4-C24F-11
DR	ROBERT & PEGGY ANKROM (JTWS)	4-C24F-12
DS	ROBERT & PEGGY ANKROM (JTWS)	4-C24F-13

08/27/2021

REVISIONS:	COMPANY: 		DATE: 04-06-2021	
	OPERATOR'S: STATE OF WV DNR A		API NO: 47-009-00299	
	WELL #: BRK 206H		DRAWN BY: R.GRIMES	
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	SCALE: N/A
				DRAWING NO: 2019-0789
				WELL LOCATION PLAT