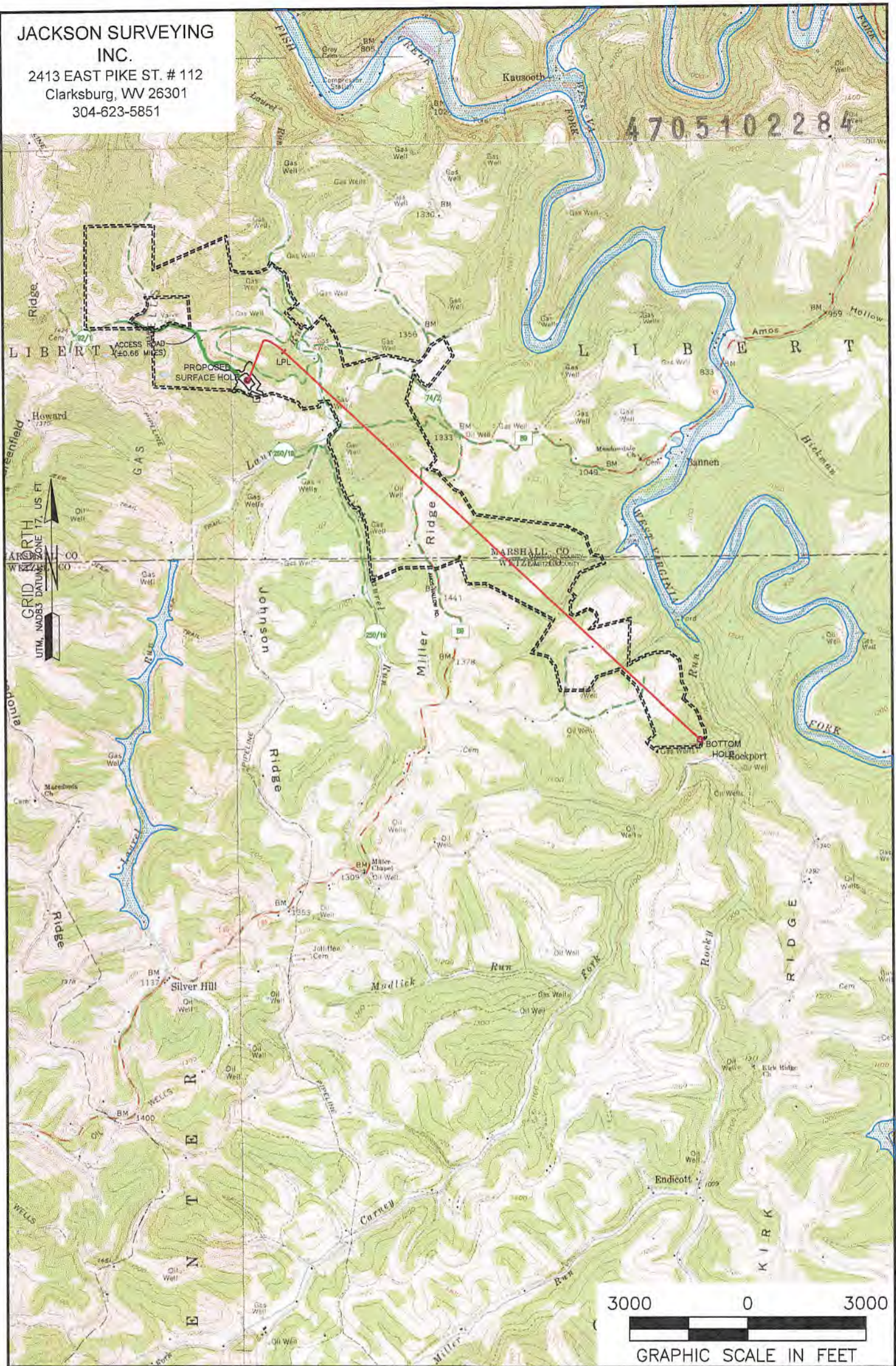


**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851



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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR:
SWN PRODUCTION COMPANY, LLC
ADDRESS:
1300 FORT PIERPONT RD. SUITE 200, MORGANTOWN, WV 26508
SURFACE OWNER:
SCOTT L. HARLAN & SHAWN D. HARLAN

WELL (FARM) NAME: SHAWN HARLAN MSH	WELL # 10H	SERIAL #
COUNTY - CODE MARSHALL - 051	DISTRICT; LIBERTY	
USGS 7 1/2 QUADRANGLE MAP NAME LITTLETON, WV		

Latitude: 39°45'00"

SURFACE HOLE 11246'

Latitude: 39°45'00"

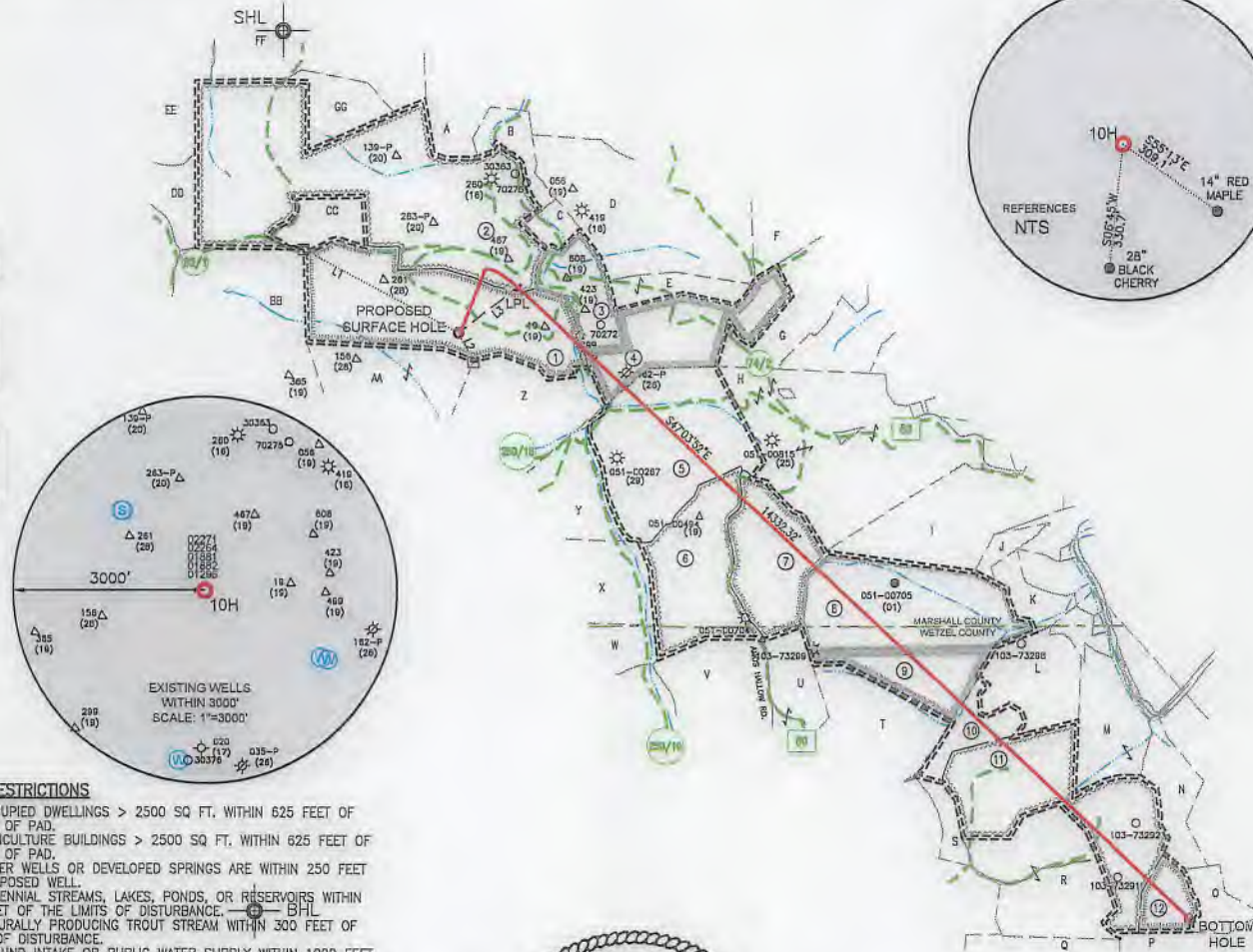
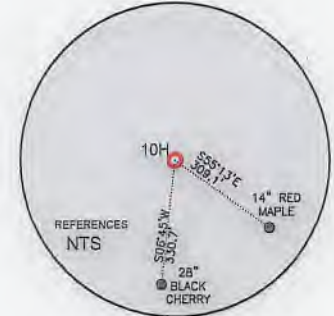
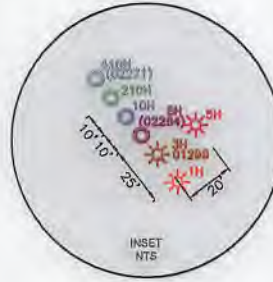
BOTTOM HOLE 11,577'

JACKSON SURVEYING INC.

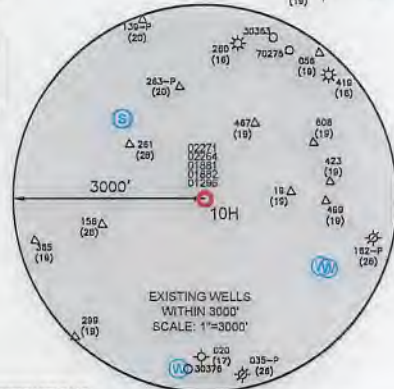
2413 EAST PIKE ST. # 112
Clarksburg, WV 26301
304-623-5851

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 61°44'39" W	2743.50'	SHL TO LANDMARK	CNR FENCE POST
L2	S 26°50'16" E	510.56'	SHL TO LANDMARK	LARGE STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 52°37'09" E	1173.14'	1682.00'	SHL TO LPL

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,398,288.853 EASTING: 532,277.172
LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,398,505.942 EASTING: 532,561.308
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,395,530.234 EASTING: 535,759.580



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



WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT, WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT, WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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. 708

David L Jackson



3000 0 3000

GRAPHIC SCALE IN FEET

COMPANY:

SWN

SWN *Production Company, LLC*

Production Company, LLC

Production Company™



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

SHAWN HARLAN MSH
OPERATOR'S WELL #: 10H
API WELL #: 47 STATE 051 COUNTY 02284 PERMIT

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

WATERSHED: LAUREL RUN OF FISH CREEK (HUC-10) ELEVATION: 1391.2'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: LITTLETON

SURFACE OWNER: SCOTT L. HARLAN & SHAWN D. HARLAN ACREAGE: ±126.15

OIL & GAS ROYALTY OWNER: SEE (1) IN WELL BORE TABLE ON PAGE 2 ACREAGE: ±126.15

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,490 TVD 22,008 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT RD. SUITE 200 ADDRESS: 1300 FORT PIERPONT RD. SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508



LEGEND:	— SURVEYED BOUNDARY	REVISIONS:	DATE: 11-20-2019
● PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT		
⊙ EXISTING / PRODUCING WELLHEAD	— LEASE BOUNDARY		
LPL ⊙ LANDING POINT LOCATION	— PROPOSED PATH		
⊙ EXISTING WATER WELL			DRAWN BY: N. MANO
⊙ EXISTING SPRING			SCALE: 1" = 3000'
			DRAWING NO:
			WELL LOCATION PLAT

**JACKSON SURVEYING
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304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SCOTT L. HARLAN & SHAWN D. HARLAN (S) JANET E. WILBUR A/K/A JANET T. WILBUR, A/K/A JANET E. TEAGARDEN WILBUR, DAVID A. TEAGARDEN, EVA T. STALKER (EVA T. STALKER, TRUSTEE OF THE EVA T. STALKER TRUST, DATED DECEMBER 28, 1989), JEANNE G. DECLUE (THE JEANNE GOVRO DE CLUE, REVOCABLE LIVING TRUST UDT JULY 9, 2001), STEPHEN E. JUSTMAN, HAYHURST COMPANY (CHESTNUT HOLDINGS, INC.), JACK HAMMERS, PAUL HAMMERS, TWILA ORA WHIPKEY (TWILA ORA WHIPKEY TRUST DATED 8/25/1999, WESBANCO BANK WHEELING, TRUSTEE), TONI JO MASON, ERICA M. MASON, O.E. BURGE (ONWARD E. BURGE, SARAH L. BURGE AND STEPHEN W. BURGE, TRUSTEES OF THE ONWARD E. BURGE TRUST DATED JUNE 21, 2010 & SARAH L. BURGE, ONWARD E. BURGE AND STEPHEN W. BURGE, TRUSTEES OF THE SARAH L. BURGE TRUST DATED JUNE 21, 2010), A.L. EVANS AND RACHEL EVANS, (DONNA K. ALLEN, MARY LOU KITTELBERGER, DEBRA A. LIKAVEC AND JOHN D. LIKAVEC, NANCY JO BLOCK, CHAD E. LONGFELLOW, HOLLY A. LONGFELLOW, TRACY L. BARNBY, LLOYD R. EVANS, GLORIA STINE, ROBERT W. CUBBAGE, CLIFFORD CUBBAGE, ROBERT W. CUBBAGE, KAREN CUBBAGE, DALE E. WORKMAN, SANDRA E. RUSH, ERMA NELDA JEFFERSON, LAURA K. BAKER, DEBORAH A. COLLINS, PATTY D. JEFFERSON, JOYCE L. LAMB, STACY L. LYONS CARLA CARSWELL DAVIS, MEL TODD CARSWELL, JENNIFER CARSWELL BRIERE, FRANK K. BONACICH, JR., JEAN J. MEIER, HOWARD RAY FURBEE, ROBERT DALE FURBEE, DOROTHY EVANS, ELLEN G. KIRKBRIDE, DARLENE KAY ALBORN, MARLENE FAY WAGMILLER, ELMER DEAN EVANS, JACK HAMMERS, PAUL HAMMERS, TWILA ORA WHIPKEY TRUST DATED 8/25/1999, WESBANCO BANK WHEELING, TRUSTEE, TONI JO MASON, ERICA MASON, O.E. BURGE AND SARAH LOU BURGE, H/W AND STEPHEN BURGE, (CHESTNUT HOLDINGS). (R)	07-28-01
TRACT	SURFACE OWNER	TAX PARCEL
2	C. MICHAEL BLAIR & LINDA L. BLAIR (S)	07-18-09
3	MASON DIXON FARMS, LLC. (S)	07-28-02
4	JAMES E. MORGAN-LIFE (S)	07-28-04
5	MATTHEW ALLAN RICHMOND (S)	07-28-05
6	CHRISTOPHER COX & NIKKI COX (S)	07-28-07
7	VINCENZO MICELI, ET UX (S)	07-28-06
8	EDWARD E. WADE JR. (S)	07-27-20
9	EDWARD E. WADE JR. (S)	01-02-14
10	BRIAN T. FERDA & VI-EVA FERDA (S)	01-02-13
11	LARRY RINE, ET AL (S)	p/o 01-02-08
12	WEST VIRGINIA DIVISION OF NATURAL RESOURCES (S)	01-02-09

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS, LLC.	07-18-07
B	LLOYD A. KARR, ET UX	07-19-33
C	M. ZACHARY BLAIR	07-19-35
D	DONALD Z. ROMACK, ET UX	07-19-36
E	JAMES E. MORGAN-LIFE	07-28-03
F	JENNIFER L. ROMACK TRUST, ET AL	07-19-38
G	JAMES E. MORGAN-LIFE	07-26-14
H	JOHN E. RIGGS JR. & DELENA RIGGS	07-27-02
I	JOSEPH L. SCHANCK & KATHERINE SCHANCK	07-27-18
J	W. VA. WILDLIFE RESOURCES SECTION	07-27-17
K	BRIAN T. FERDA, ET UX	07-27-15
L	BRIAN T. FERDA & VI-EVA FERDA	01-02-04
M	STEPHEN ROSS MCINTYRE	01-02-05
N	WM. BALTZ, TR. OF VH & F CLUB, ET AL	01-02-5.1
O	BRIAN T. FERDA	01-05-7.1
P	WILLIAM E. RENNER & WILLIAM J. RENNER	01-05-07
Q	WILLIAM E. RENNER	01-05-04
R	LARRY RINE, ET AL	p/o 01-02-08
S	LARRY G. RINE & JANA L. RINE	01-05-03
T	MARY E. PYLES	01-02-03
U	FLOYD B. JOHNSON	01-02-02
V	FLOYD B. JOHNSON	01-02-01
W	WILMA JARRELL, ET AL	01-01-07
X	APPALACHIA MIDSTREAM SERVICES, LLC.	01-01-06
Y	APPALACHIA MIDSTREAM SERVICES, LLC.	07-28-08
Z	CARL R. RICHMOND & EILEEN R. RICHMOND	07-28-13
AA	G. DAVID EVICK	07-28-14
BB	JAMES E. MORGAN-LIFE	07-29-04
CC	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-9.1
DD	RONALD K. NEELY & DONA L. NEELY	07-18-10
EE	HOY GLENN CROW, ET UX	07-18-11
FF	MASON DIXON FARMS, LLC.	07-18-8.1
GG	BERNARD P. TWIGG AND SHARON ANN TWIGG	07-18-08

REVISIONS:	COMPANY:		
			
	OPERATOR'S SHAWN HARLAN MSH		DATE: 11-20-2019
	WELL #: 10H		DRAWN BY: N. MANO
	DISTRICT: LIBERTY	COUNTY: MARSHALL	SCALE: N/A
		STATE: WV	DRAWING NO:
	WELL LOCATION PLAT 2		