

Latitude: 39°45'00"

SURFACE HOLE 11259'

Latitude: 39°45'00" BOTTOM HOLE 525'

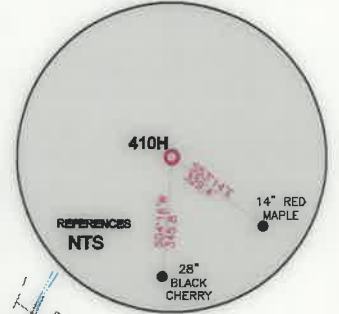
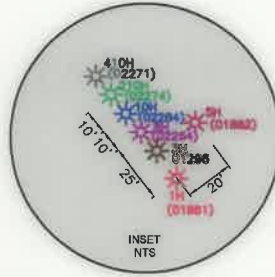
# JACKSON SURVEYING INC.

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

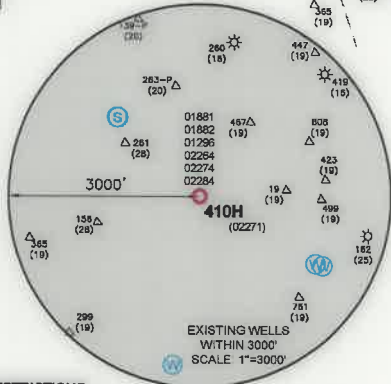
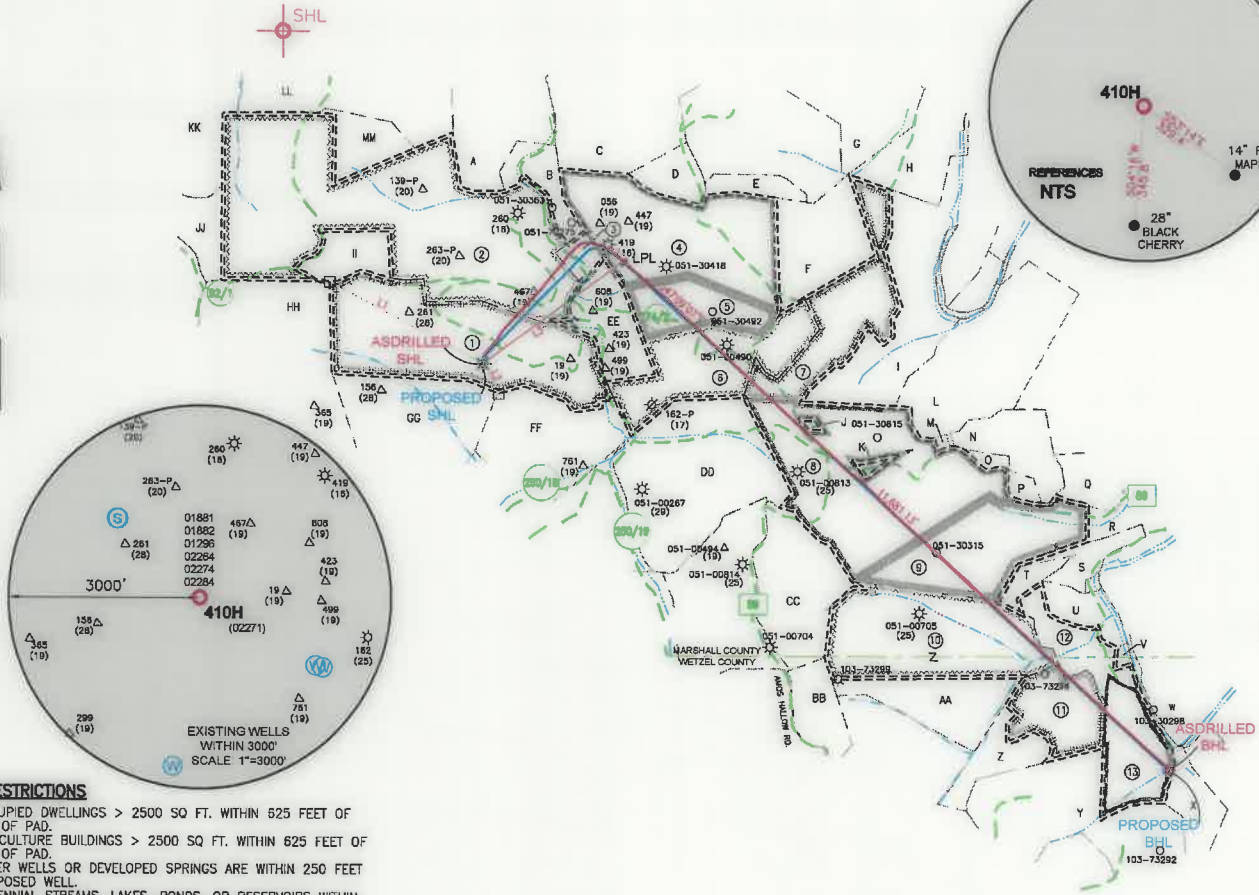
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 61°55'00" W	2724.17'	SHL TO LANDMARK	CNR FENCE POST
L2	S 27°18'20" E	531.13'	SHL TO LANDMARK	LARGE STONE
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 54°35'34" E	2730.38'	3228.53'	SHL TO LPL

<b>SURFACE HOLE LOCATION (SHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,293.848	
EASTING: 532,273.164	
<b>LANDING POINT (LPL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,787.786	
EASTING: 532,942.952	
<b>BOTTOM HOLE LOCATION (BHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,396,366.499	
EASTING: 535,553.301	

<b>SURFACE HOLE LOCATION (SHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,293.614	
EASTING: 532,273.344	
<b>LANDING POINT (LPL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,777.87	
EASTING: 532,950.017	
<b>BOTTOM HOLE LOCATION (BHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,396,360.993	
EASTING: 535,546.802	



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



### WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 525 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 525 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

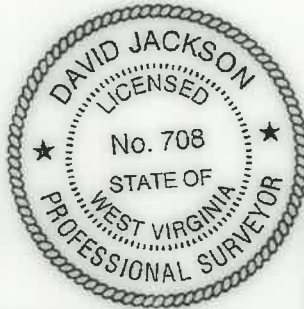
### NOTES ON SURVEY

- 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.
- 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**  
Production Company, LLC

**SWN**  
Production Company™

SHAWN HARLAN MSH

OPERATOR'S WELL #: 410H

API WELL #:	47	051	02271
	STATE	COUNTY	PERMIT

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

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 AND SHAWN 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) ASDRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,478 TVD 19,879 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:	REVISIONS:	DATE: 09-01-2020
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	
LPL ⊙ LANDING POINT LOCATION	== LEASE BOUNDARY	
⊙ EXISTING WATER WELL	— ASDRILLED PATH	
⊙ EXISTING SPRING	— PROPOSED PATH	
		DRAWN BY: N. MANO
		SCALE: 1" = 3000'
		DRAWING NO:
		WELL LOCATION PLAT

# JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112  
Clarksburg, WV 26301  
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	M. ZACHARY BLAIR (S)	07-19-35
4	JOHN M. HORNER & TERESA L. HORNER (S)	07-19-36
5	JAMES E. MORGAN-LIFE (S)	07-28-03
6	JAMES E. MORGAN-LIFE (S)	07-28-04
7	JAMES E. MORGAN-LIFE (S)	07-26-14
8	JOHN E. RIGGS JR. & DALENA RIGGS (S)	07-27-02
9	JOSEPH L. SCHANCK & KATHERINE SCHANCK (S)	07-27-18
10	EDWARD E. WADE JR. (S)	07-27-20
11	BRIAN T. FERDA & VI-EVA FERDA (S)	01-02-04
12	BRIAN T. FERDA, ET UX (S)	07-27-15
13	STEPHEN ROSS MCINTYRE (S)	01-02-05

## 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	JOHN M. HORNER & TERESA L. HORNER	07-19-32
D	MARY L. CHAMBERS	07-19-31
E	JOHN M. HORNER & TERESA L. HORNER	07-19-30.1
F	JENNIFER L. ROMARK TRUST, ET AL	07-19-38
G	M. PEGGY GRIBBEN REVOCABLE LIVING TRUST	07-19-29
H	M. PEGGY GRIBBEN REVOCABLE LIVING TRUST	07-19-28
I	WEST VIRGINIA WILDLIFE RESOURCES SECTION	07-24-01
J	SAMUEL C. WADE & ROSE V. BLAKE	07-27-2.3
K	JOHN E. RIGGS, JR. & DALENA RIGGS	07-27-01
L	CHARLES E. HORNER, ET UX	07-26-10
M	HOWARD L. DEBOLD, ET AL	07-27-2.2
N	IRENE PYLES & DALE PYLES-LIFE	07-27-03
O	JOHN E. RIGGS & DALENA RIGGS	07-27-2.1
P	IRENE PYLES & DALE PYLES	07-27-3.1
Q	BETTY T. FRANKLIN	07-27-05
R	JOSEPHINE PARRIOTT, ET AL	07-27-09
S	ANNIE L. GEHO EST.	07-27-21
T	WV WILDLIFE RESOURCES SECTION	07-27-17
U	BRIAN T. FERDA, ET UX	07-27-16
V	SCOTT M. FITZSIMMONS, ET AL	07-27-14
W	PETER V. VELLEKOOP, ET UX	07-27-13
X	WILLIAM BALTZ, TR. OF VH & F CLUB, ET AL	01-02-5.1
Y	LARRY RINE, ET AL	P/O 01-02-08
Z	BRIAN T. FERDA & VI-EVA FERDA	01-02-13
AA	EDWARD E. WADE JR.	01-02-14
BB	FLOYD B. JOHNSON	01-02-02
CC	VICENZO MICELI, ET UX	07-28-06
DD	MATTHEW ALLAN RICHMOND	07-28-05
EE	MASON DIXON FARMS, LLC.	07-28-02
FF	CARL R. RICHMOND & EILENE R. RICHMOND	07-28-13
GG	G. DAVID EVICK	07-28-14
HH	JAMES E. MOGAN-LIFE	07-29-04
II	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-9.1
JJ	RONALD K. NEELY & DONA L. NEELY	07-18-10
KK	HOY GLENN CROW, ET UX	07-18-11
LL	MASON DIXON FARMS, LLC	07-18-8.1
MM	BERNARD P. TWIGG AND SHARON ANN TWIGG	07-18-08

REVISIONS:

COMPANY:

**SWN**  
Production Company, LLC

**SWN** <sup>R<sup>+</sup></sup>/<sub>A</sub> → V<sup>+</sup>  
Production Company™

OPERATOR'S

SHAWN HARLAN MSH

API #

DATE: 09-01-2020

WELL #:

410H

47-051-02271

DRAWN BY: N. MANO

DISTRICT:  
LIBERTY

COUNTY:  
MARSHALL

STATE:  
WV

SCALE: N/A

DRAWING NO:  
WELL LOCATION PLAT 2