

Latitude: 39°45'00"

SURFACE HOLE 11239'

Latitude: 39°45'00" BOTTOM HOLE | 2569'

JACKSON SURVEYING

INC.

2413 EAST PIKE ST. # 112

Clarksburg, WV 26301

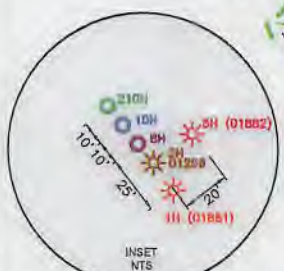
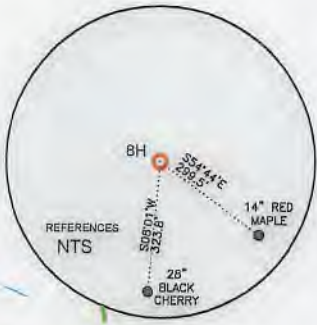
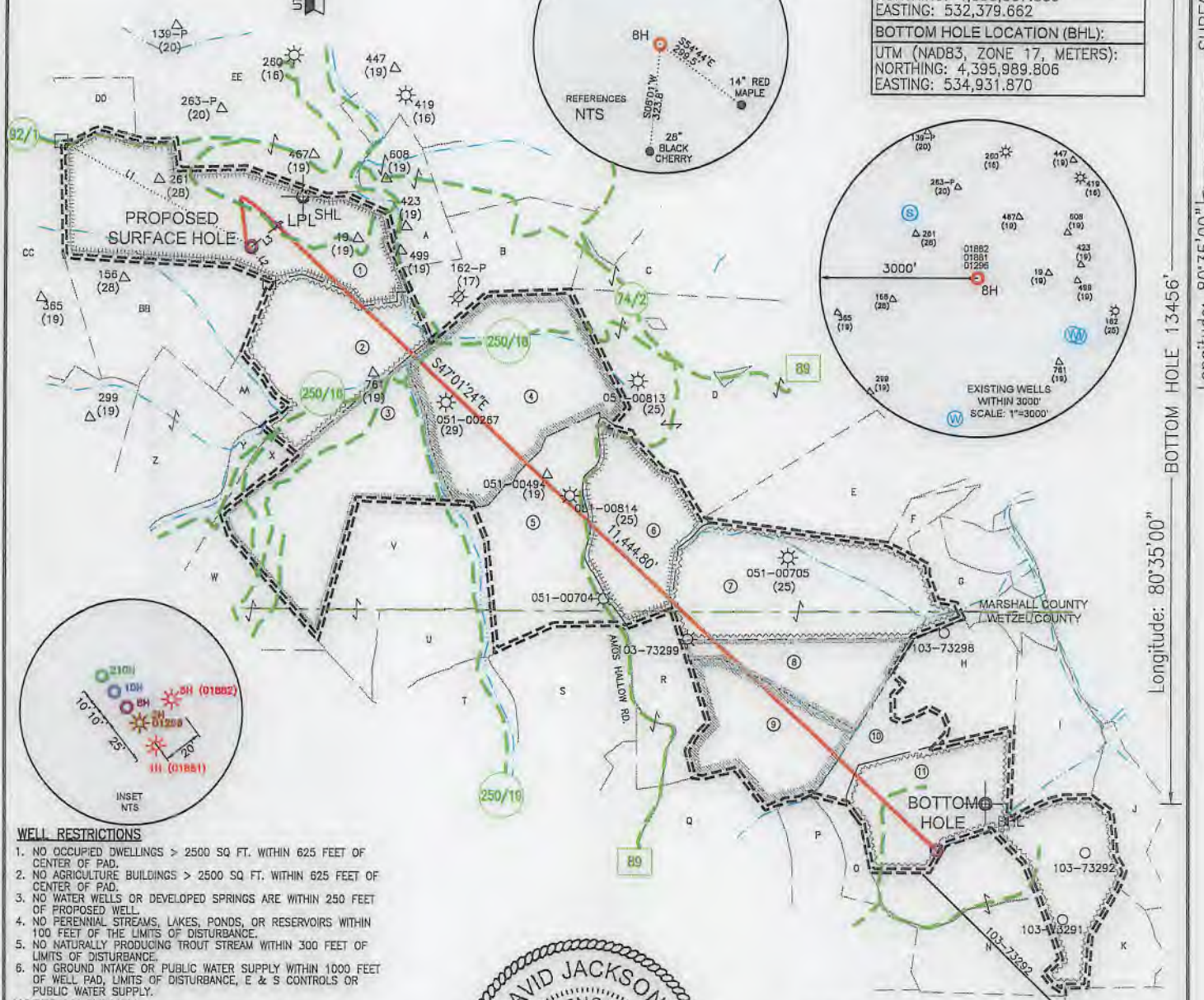
304-623-5851

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 61°39'46" W	2752.74'	SHL TO LANDMARK	CNR FENCE POST
L2	S 26°36'04" E	500.75'	SHL TO LANDMARK	LARGE STONE

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 51°01'32" E	424.44'	1265.02'	SHL TO LPL

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,286.470	
EASTING: 532,279.087	
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,398,367.839	
EASTING: 532,379.662	
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,395,989.806	
EASTING: 534,931.870	



WELL RESTRICTIONS

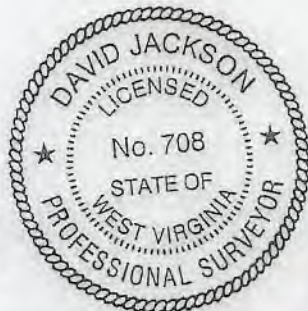
1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE 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.

David L Jackson
P.C.



2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: SHAWN HARLAN MSH 8H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	API WELL #: 47 STATE, 051 COUNTY, 02264 PERMIT

WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input 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"/>	WATERSHED: LAUREL RUN OF FISH CREEK (HUC-10)	ELEVATION: 1391.2'
DISTRICT: LIBERTY COUNTY: MARSHALL	SURFACE OWNER: SCOTT L. HARLAN & SHAWN D. HARLAN	QUADRANGLE: LITTLETON, WV
OIL & GAS ROYALTY OWNER: SEE (1) IN WELL PLAT BORE TABLE ON PAGE 2	ACREAGE: ±126.15	ACREAGE: ±126.15
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"/>	CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)	TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,485 TVD 19,024 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: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ☼ EXISTING / PRODUCING WELLHEAD LPL ✕ LANDING POINT LOCATION Ⓜ EXISTING WATER WELL Ⓢ EXISTING SPRING	— SURVEYED BOUNDARY — DRILLING UNIT = LEASE BOUNDARY — PROPOSED PATH	REVISIONS: DATE: 06-13-2019 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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**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	CARL R. RICHMOND & EILENE R. RICHMOND (S)	07-28-13
3	APPALACHIA MIDSTREAM SERVICES, LLC. (S)	07-28-08
4	MATTHEW ALLAN RICHMOND (S)	07-28-05
5	CHRISTOPHER COX & NIKKI COX (S)	07-28-07
6	VICENZO MICELI, ET UX (S)	07-28-06
7	EDWARD E. WADE JR. (S)	07-27-20
8	EDWARD E. WADE JR. (S)	01-02-14
9	MARY E. PYLES (S)	01-02-03
10	BRIAN T. FERDA & VI-EVA FERDA (S)	01-02-13
11	LARRY RINE, ET AL (S)	P/O 01-02-08

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
A	MASON DIXON FARMS, LLC.	07-28-02
B	JAMES E. MORGAN-LIFE	07-28-04
C	WV WILDLIFE RESOURCES SECTION	07-24-01
D	JOHN E. RIGGS JR. & DALENA RIGGS	07-27-02
E	JOESPH L. SCHANCK & KATHERINE SCHANCK	07-28-18
F	WV WILDLIFE RESOURCES SECTION	07-27-17
G	BRIAN T. FERDA, ET UX	07-27-15
H	BRIAN T. FERDA & VI-EVA FERDA	01-02-04
I	STEPHEN ROSS MCINTYRE	01-02-05
J	WM. BALTZ, TRUSTEE OF VH & F CLUB, ET AL	01-02-5.1
K	WEST VIRGINIA DIVISION OF NATURAL RESOURCES	01-02-09
L	WILLIAM E. RENNER & WILLIAM J. RENNER	01-05-07
M	WILLIAM E. RENNER	01-05-04
N	LARRY RINE, ET AL	p/o 01-02-08
O	LARRY G. RINE & JANA L. RINE	01-05-03
P	LARRY G. RINE & JANA L. RINE	01-05-3.2
Q	MARY E. PYLES	01-02-07
R	FLOYD B. JOHNSON	01-02-02
S	FLOYD B. JOHNSON	01-02-01
T	SHAWN D. HARLAN & VINCENT HARLAN	01-01-08
U	WILMA JARRELL, ET AL	01-01-07
V	APPALACHIA MIDSTREAM SERVICES	01-01-06
W	MASON DIXON FARMS, LLC.	07-28-15
X	JOHN C. RICHARDS, ET UX	07-28-09
Y	MASON DIXON FARMS, LLC.	07-28-10
Z	MASON DIXON FARMS, LLC.	07-28-11
AA	G. DAVID EVICK	07-28-13.1
BB	G. DAVID EVICK	07-28-14
CC	JAMES E. MORGAN-LIFE	07-28-13.1
DD	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-9.1
EE	C. MICHAEL BLAIR & LINDA L. BLAIR	07-18-09

REVISIONS:

COMPANY:

SWN
Production Company, LLC

SWN *R⁺ V⁺ A⁺*
Production Company™

OPERATOR'S SHAWN HARLAN MSH

DATE: 06-13-2019

WELL #: 8H

DRAWN BY: N. MANO

DISTRICT:
LIBERTY

COUNTY:
MARSHALL

STATE:
WV

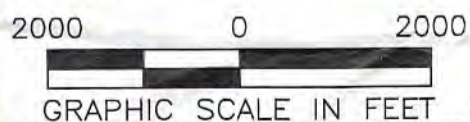
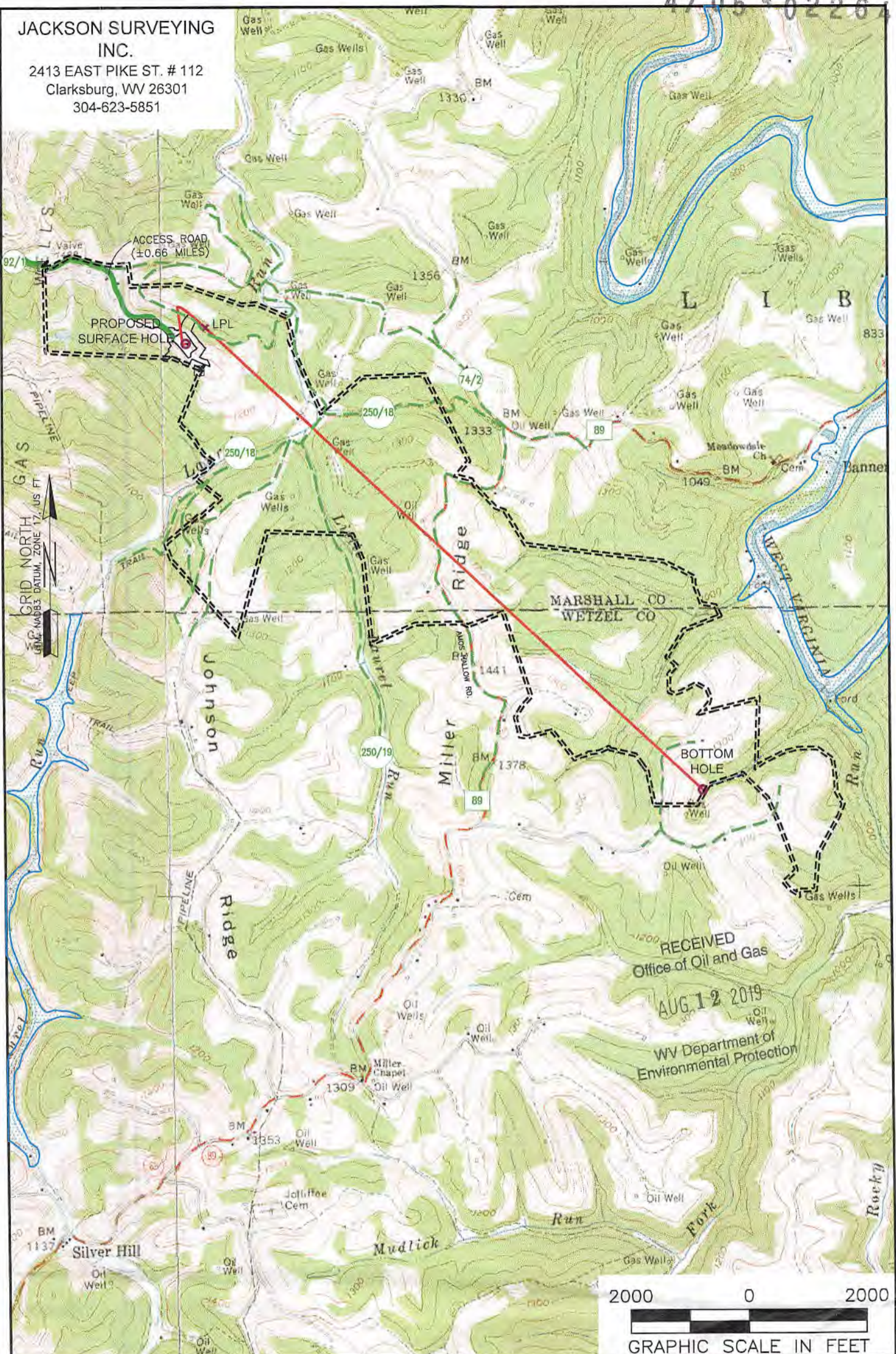
SCALE: N/A

DRAWING NO:

WELL LOCATION PLAT 2

4705 * 0220

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304-623-5851



RECEIVED
Office of Oil and Gas
AUG 12 2019
WV Department of
Environmental Protection

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LEGEND:

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

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: SHAWN HARLAN MSH	WELL # 8H	SERIAL #
ADDRESS: 1300 FORT PEIRPONT RD, SUITE 200, MORGANTOWN, WV 26508	COUNTY - CODE MARSHALL - 051	DISTRICT; LIBERTY	
SURFACE OWNER: SCOTT L. HARLAN & SHAWN D. HARLAN	USGS 7 1/2 QUADRANGLE MAP NAME LITTLETON, WV		