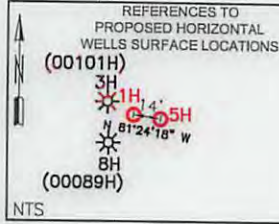


**JACKSON SURVEYING
INC.**

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

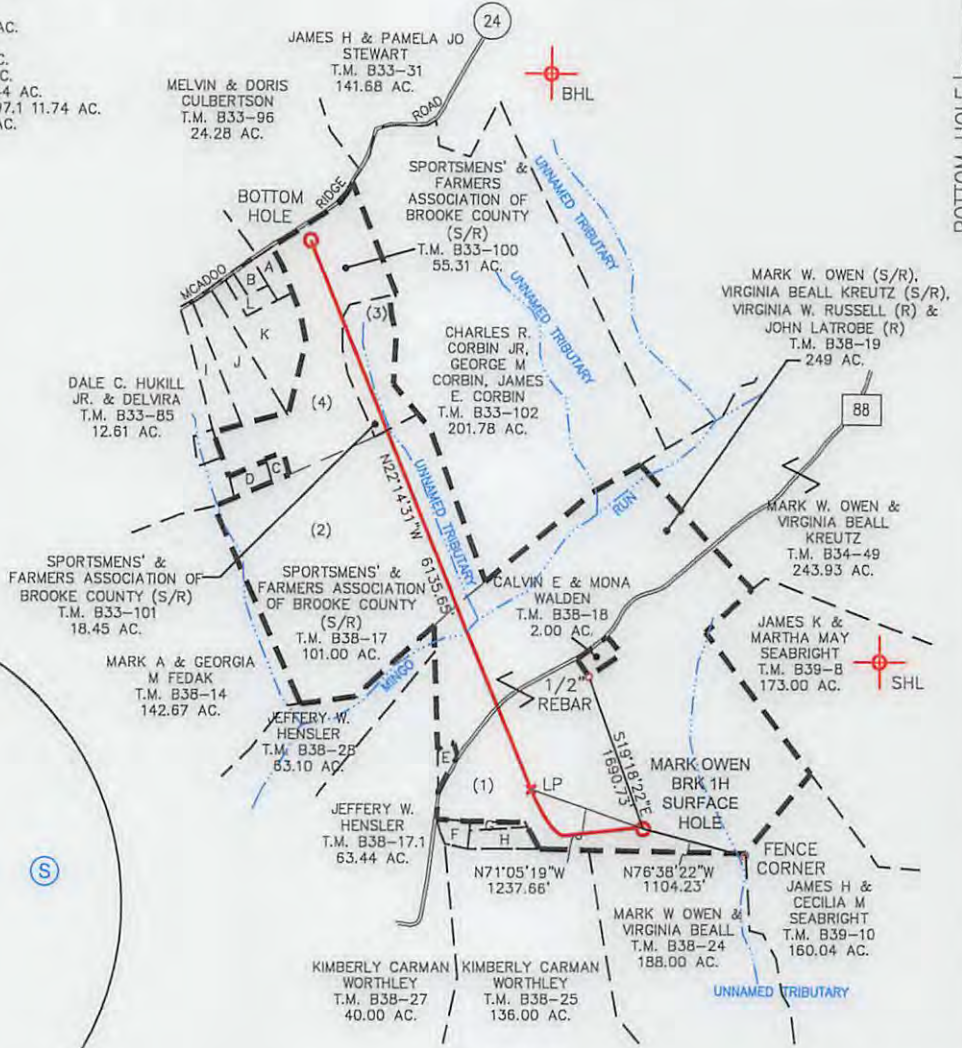
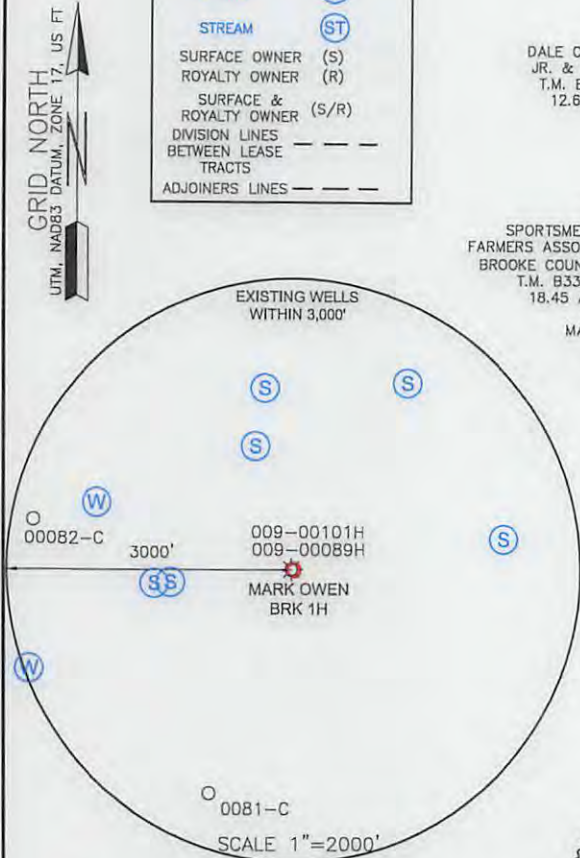


SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,332.123 EASTING: 538,681.347
"LANDING POINT" LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,454.406 EASTING: 538,324.478
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,454,185.405 EASTING: 537,616.593

- A- GINGER ROSE LEONI T.M. B33-99 1.73 AC.
- B- BRIAN & JACINDA LONG T.M. B33-98 1.00 AC.
- C- MONONGAHELA POWER COMPANY T.M. B38-16 1.31 AC.
- D- SPORTSMEN'S & FARMERS ASSOCIATION OF BROOKE COUNTY T.M. B38-15 2.21 AC.
- E- KEVIN SCOTT & LISA KAY STEWART T.M. B38-20 1.06 AC.
- F- LANCE M ELSON T.M. B38-21 1.62 AC.
- G- NOLTE & GLADYS VAN CAMP, AS TRUSTEES OF THE 2002 VAN CAMP FAMILY TRUST T.M. B38-22 0.942 AC.
- H- NOLTE & GLADYS VAN CAMP, AS TRUSTEES OF THE 2002 VAN CAMP FAMILY TRUST T.M. B38-23 2.27 AC.
- I- DANNY C. & TAMERA J. HUKILL T.M. B33-97.2 11.01 AC.
- J- MICHAEL & SHERYL ANN KOSCEVIC T.M. B33-97.3 11.44 AC.
- K- GEORGE A. TANNER & BARBARA B. SWEET T.M. B33-97.1 11.74 AC.
- L- BRIAN LONG & JACINDA LONG T.M. B33- 97.4 1.668 AC.

LEGEND

WATERWELL	(W)
SPRING	(S)
STREAM	(ST)
SURFACE OWNER (S)	
ROYALTY OWNER (R)	
SURFACE & ROYALTY OWNER (S/R)	
DIVISION LINES BETWEEN LEASE TRACTS	---
ADJOINERS LINES	---



- NOTES ON SURVEY**
- NO DWELLINGS OR AGRICULTURAL BUILDINGS GREATER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - ALL WELLS WITHIN 500' OF THE HORIZONTAL LEG ARE SHOWN ON THIS PLAT BASED UPON INFORMATION TAKEN FROM DEP MAPPING, WELL PLATS AND AERIAL PHOTOS.
 - COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.



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*

PLAT SCALE 1"=2000'

COMPANY: **SWN** Production Company, LLC

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

MARK OWEN BRK
OPERATOR'S WELL #: 1H

API WELL #: 47 009 00181
STATE COUNTY PERMIT

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

WATERSHED: BUFFALO CREEK ELEVATION: 1,165.6'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY 7 1/2'

SURFACE OWNER: MARK W. OWEN & VIRGINIA BEALL KREUTZ ACREAGE: 249.00

OIL & GAS ROYALTY OWNER: MARK W. OWEN & VIRGINIA BEALL KREUTZ, VIRGINIA W. RUSSELL & JAMES LATROBE ACREAGE: 249.00

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: 6,042' TVD 2,646.55' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL

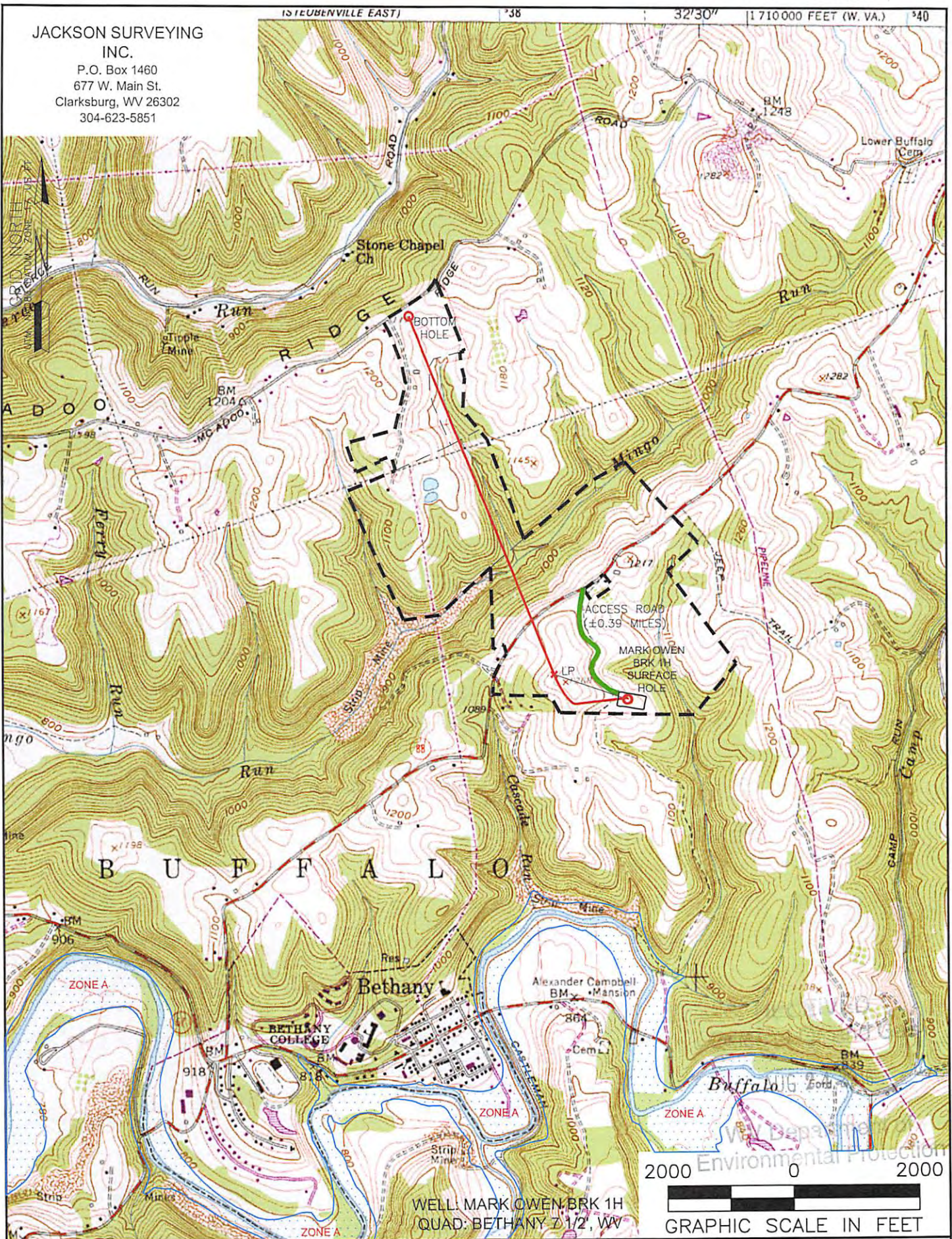
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

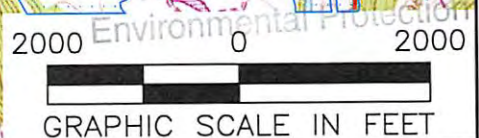
LEGEND:	REVISIONS:	DATE: 08-11-2016
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		
⊗ EXISTING / PRODUCING WELLHEAD	---	LEASE BOUNDARY
⊗ ABANDONED WELL	---	BORE PATH
⊗ PLUGGED & ABANDONED WELL	---	ABANDONED PATH
△ CUT CONDUCTOR		
		DRAWN BY: N. MANO
		SCALE: 1" = 2000'
		DRAWING NO:
		WELL LOCATION PLAT

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WELL: MARK OWEN BRK 1H
 QUAD: BETHANY 7 1/2, WV



NAME AND DISTANCE TO THE NEAREST STREAM: MINGO RUN IS LOCATED ±0.52 MILES NW, OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: SWN Production Company, LLC		SWN Production Company™	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ. FT.: >625 FEET				OPERATOR'S MARK OWEN BRK		WELL #: 1H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBER 54009C0135 D AND 54009C0130 D; EFFECTIVE DATE: APRIL 19, 2010.				LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.220518° LONGITUDE: -80.545378°	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR				BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.237263° LONGITUDE: -80.557783°		REVISIONS:	
<ul style="list-style-type: none"> ○ EXISTING SPRING ○ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD 				DATE: 08-11-2016		DRAWN BY: N. MANO SCALE: 1" = 2000'	
						DRAWING NO: TOPOGRAPHIC MAP	