

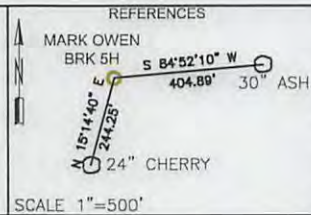
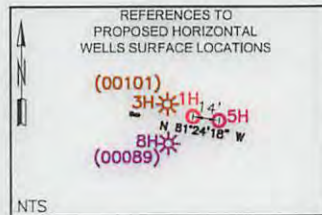
1,022' SURFACE HOLE

3,047' BOTTOM HOLE

Latitude: 40°15'00" N

### JACKSON SURVEYING INC.

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



<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,331.480 EASTING: 538,685.602
<b>"LANDING POINT" LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,607.334 EASTING: 538,873.682
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,454,423.921 EASTING: 538,057.716

Longitude: 80°32'30" W  
10,743'  
3,865'

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

#### NOTES ON SURVEY

1. NO DWELLINGS OR AGRICULTURAL BUILDINGS GREATER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
3. 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.
4. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.

LEGEND	
WATERWELL	(W)
SPRING	(S)
STREAM	(ST)
SURFACE OWNER	(S)
DIVISION LINES BETWEEN LEASE TRACTS	---
ADJOINERS LINES	---

- A CHARLES R. CORBIN, JR. T.M. B33-103 8.85 AC.
- B HENRY E. DONLEY IV & YVONNE CAWTHORNE DONLEY T.M. B33-106 19.59 AC.
- C SPORTSMANS & FARMERS ASSN T.M. B33-101 18.45 AC.
- D KEVIN SCOTT STEWART & LISA KAY STEWART T.M. B38-20 1.06 AC.
- E LANCE M. ELSON T.M. B38-21 1.62 AC.
- F NOLTE & GLADYS VANCAMP TRUST OF VANCAMP FA T.M. B38-22 0.94 AC.
- G NOLTE & GLADYS VANCAMP TRUST OF VANCAMP FA T.M. B38-23 2.27 AC.



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 #:	5H	
API WELL #:	47	009
	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, & JOHN LATROBE ACREAGE: 249.00

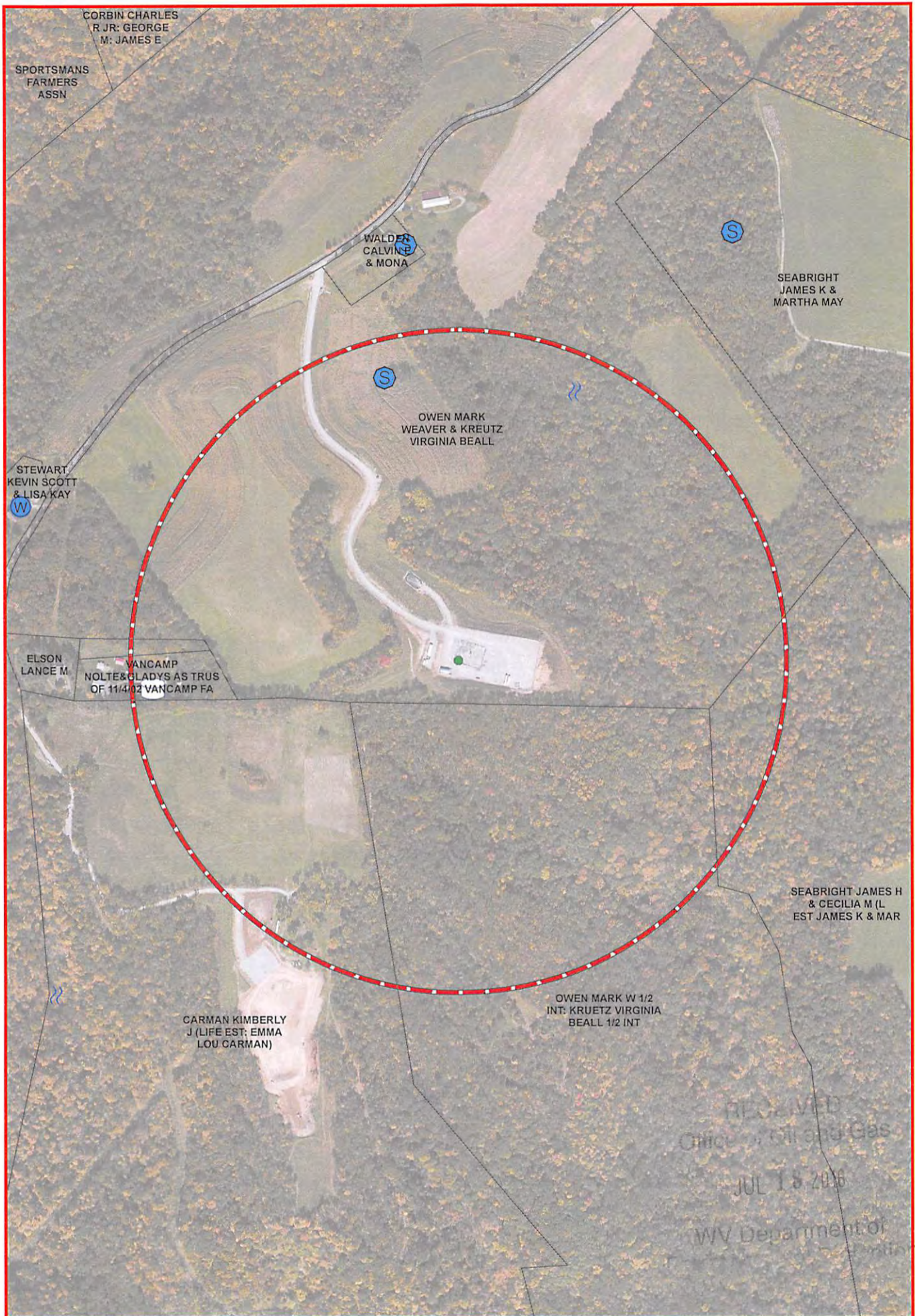
DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,062' TVD 13,051.13' 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: 07-12-2016
○ 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



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

01/06/2017

<h2 style="text-align: center;">Water Purveyor Map</h2>			<b>Well Pad:</b> MARK OWEN	<b>County:</b> BROOKE
			0 175 350 700 1,050 1,400 Feet	
Map by: speart NAD 1983 BLM Zone 17N ftUS	Date: 1/21/2016 			