



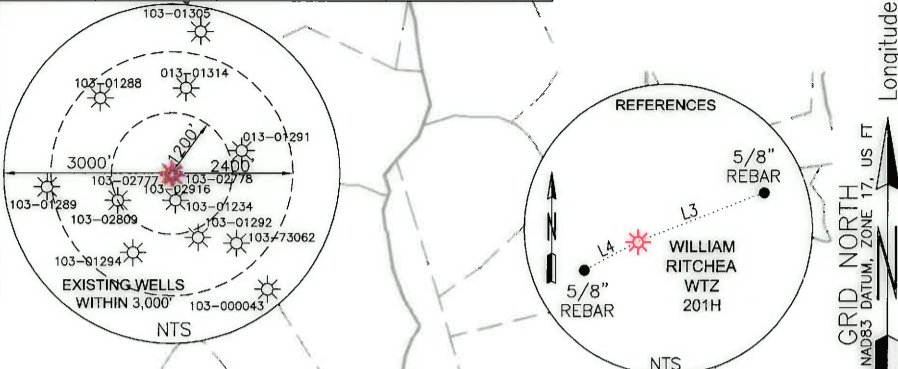
320 O'Bryan Lane • Van Buren, AR 72956  
Office: 479.474.7916 • Fax: 479.474.2450  
Surveying • handa-inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 73°23'43" W	1293.15'	SHL TO LANDMARK	5/8" REBAR
L2	S 46°17'43" W	837.31'	SHL TO LANDMARK	5/8" REBAR
L3	N 68°55'54" E	323.47'	SHL TO REF. PNT.	5/8" REBAR
L4	S 62°37'48" W	215.31'	SHL TO REF. PNT.	5/8" REBAR
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	S 57°43'27" W	1161.57'		SHL TO LP
L6	N 81°02'39" W	1228.42'	1302.00'	LP TO PT
L7	N 45°00'11" W	6017.96'		PT TO BHL

Latitude: 39°42'30"

Longitude: 80°37'30"

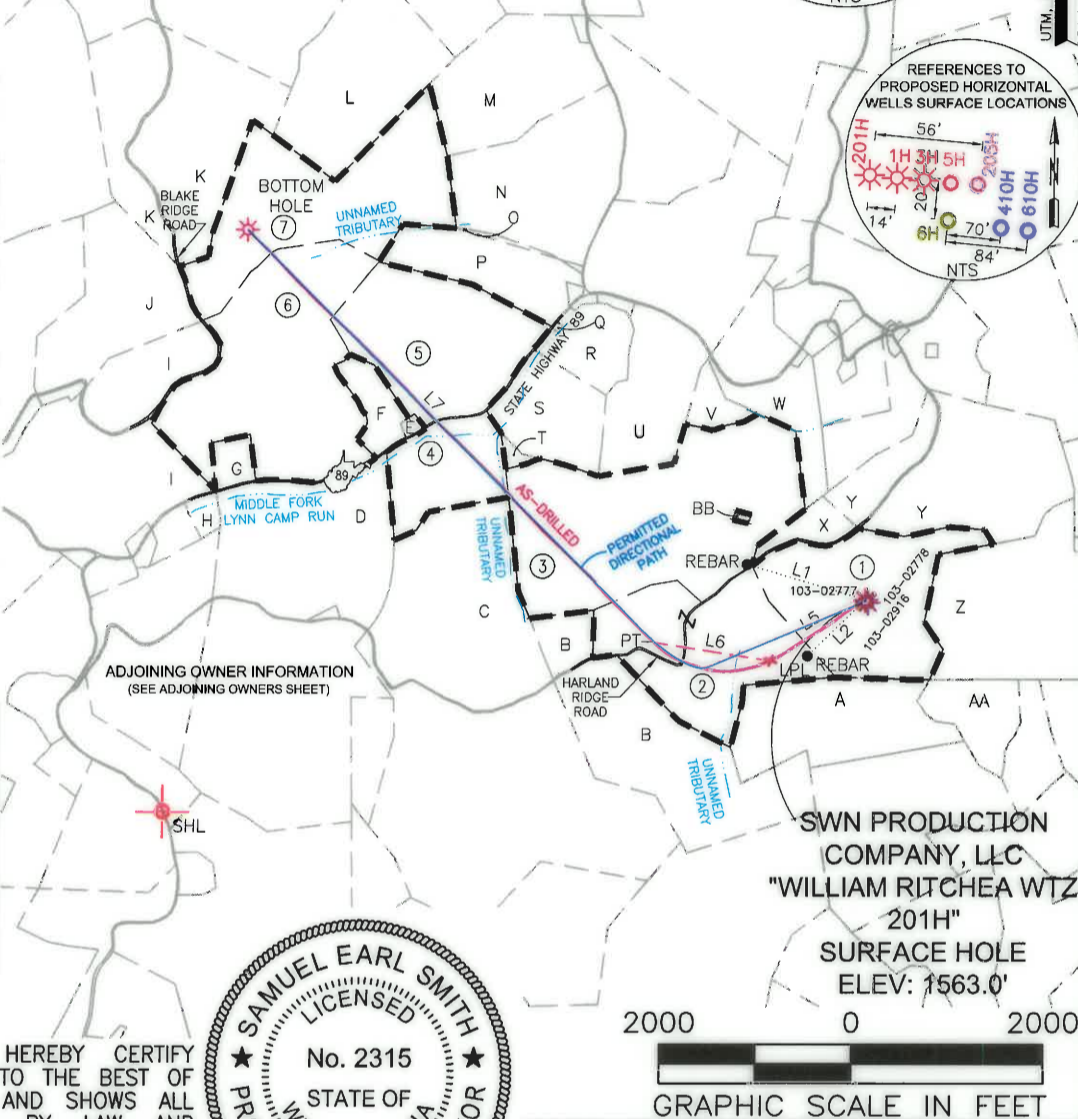
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	WILLIAM D RITCHEA & SHIRLEY E RITCHEA (S/R)	12-15-21	62.00
2	WILLIAM R PITOSCIA (S) TASA CORPORATION (R)	12-14-27	57.00
3	WILLIAM R PITOSCIA (S) TASA CORPORATION (R) HERBERT W LINDSAY & MARIE LINDSAY (R) RUSSELL RAND & GWENDOLYN RAND (R)	12-14-16	104.01
4	MICHAEL E LASURE & VELVA C LASURE (S/R)	12-14-14	25.00
5	MICHAEL E LASURE & VELVA C LASURE (S) RAY C HERMAN & ROSE M HERMAN & DAIL A HERMAN (R)	12-14-6	52.89
6	RAY C HERMAN & DAIL A HERMAN (R) RONNIE E WADE & YVONNE M WADE (S) HAROLD H BLAKE & DONNA M BLAKE (R)	12-14-4.1	94.37
7	NORMAN E KEENEY JR & NANCY M KEENEY (S) OTIS SIMMONS & MABEL SIMMONS, ETHEL RAMSEY & ELMER RAMSEY, & HAROLD SIMMONS & ROXIE SIMMONS (R)	12-9-45	100.00



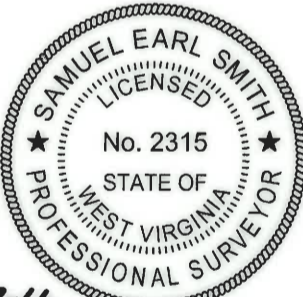
**NOTES ON SURVEY**

- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- NO OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ FT. WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS 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.

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,143.231 EASTING: 529,209.939
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,390,954.171 EASTING: 528,910.598
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,392,309.422 EASTING: 527,243.643



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. 2315 *[Signature]* 07-27-16

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	COMPANY: <b>SWN</b> Production Company, LLC
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: WILLIAM RITCHEA WTZ 201H API WELL #: 47 103 03130 STATE COUNTY PERMIT

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

WATERSHED: LITTLE FISHING CREEK ELEVATION: 1563.0'

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: WILLIAM D & SHIRLEY E RITCHEA ACREAGE: ±62.00

OIL & GAS ROYALTY OWNER: WILLIAM D & SHIRLEY E RITCHEA ACREAGE: ±62.00

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,409

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

<b>LEGEND:</b>	<b>REVISIONS:</b>	DATE: 09-28-2015
<ul style="list-style-type: none"> <li>PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>EXISTING / PRODUCING WELLHEAD</li> <li>ABANDONED WELL</li> <li>PLUGGED &amp; ABANDONED WELL</li> <li>CUT CONDUCTOR</li> </ul>	<ul style="list-style-type: none"> <li>LEASE BOUNDARY</li> <li>AS-DRILLED PATH</li> <li>PERMITTED DIRECTIONAL PATH</li> </ul>	<ul style="list-style-type: none"> <li>REVISED DHP &amp; BOTTOM HOLE AND ADDED ADJOINING OWNER INFORMATION, 09-16-2015</li> <li>REVISED SHL, LP, &amp; BHL FOR ASDRILLED DIRECTIONAL PATH, 10-30-2015</li> <li>UPDATED PER. DIR. PATH, ADDED LPL COORDS. 07-25-2016</li> </ul>
		DRAWN BY: S. HUTSON
		SCALE: 1" = 2000'
		DRAWING NO: 59254
		WELL LOCATION PLAT