



320 O'Bryan Lane • Van Buren, AR 72956
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Surveying • handa-inc.com

LINE	DESCRIPTION	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	S 56°44'28" W	1891.25'	SHL TO TPL	
L4	N 45°00'02" W	6882.62'	TPL TO BHL	
L5	N 68°55'54" E	323.47'	SHL TO REF. PNT.	5/8" REBAR
L6	S 62°37'48" W	215.31'	SHL TO REF. PNT.	5/8" REBAR

Latitude: 39°42'30"

Longitude: 80°37'30"

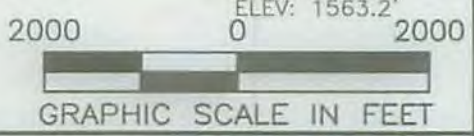
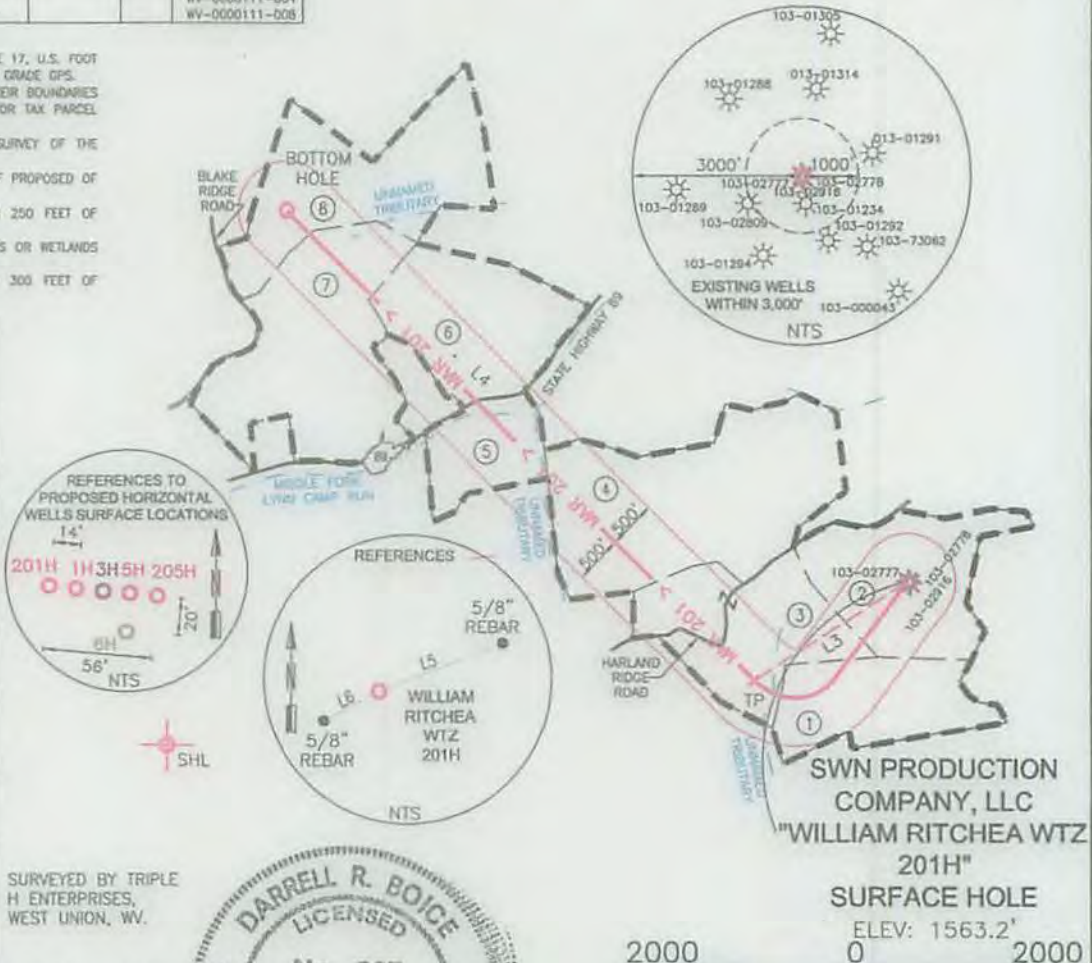
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NUMBER
2	WILLIAM D RITCHEA & SHIRLEY E RITCHEA (S/R)	12-15-21	62.00	WV-0000113-000
3	WILLIAM R PITOSCIA (S) TASA CORPORATION (R) HERBERT W LINDSAY & MARIE LINDSAY (R) RUSSELL RAND & GWENDOLYN RAND (R)	12-14-27	57.00	WV-0000109-001 WV-0000109-002 WV-0000109-003
1	BERNARD LEE DUELLEY ETAL & SUSAN HALL (S) SARAH J TAYLOR & FRIEND TAYLOR, C T LEMASTERS & LILLI LEMASTERS, L L LEMASTERS & MADONNA J LEMASTERS, WESLEY S SMITH & ALMA SMITH, JESSE SMITH & IRISHE SMITH, LEDNA RITER, VIRGINIA SMITH & HAROLD SMITH (R) GARNET SNIDER & HUGH SNIDER (R) HAROLD EUGENE LEMASTERS & BETTY LEE LEMASTERS (R) VIRGINIA M BALLARD & ANGLD C BALLARD & PAUL R LEMASTERS (R) OLIVE SAPP (R) ALMA SMITH (R) TRIO PETROLEUM CORP & WACO OIL & GAS CO (R) TED ARNOLD NEELY (R) MARGUERITE SOBUTKA (R) JOHN A. NEELY AND SHIRLEY M. NEELY (R) JOSEPHINE M. SMITH AND LINDA L. BARNES (R) AMY ROSALIE NOAH AND LORINE M. NOAH (R) WILLIAM MICHAEL NEELY (R) EDITH V. ROMACK (R) WILLIAM A SMITH & LUCILLE M SMITH (R)	12-15-25	4.00	WV-0000110-000 WV-0000111-003 WV-0000111-014 WV-0000111-001 WV-0000111-002 WV-0000111-005 WV-0000111-013 WV-0000111-011 WV-0000111-006 WV-0000111-009 WV-0000111-007 WV-0000111-010 WV-0000111-012 WV-0000111-004 WV-0000111-008

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NUMBER
4	WILLIAM R PITOSCIA (S) TASA CORPORATION (R) HERBERT W LINDSAY & MARIE LINDSAY (R) RUSSELL RAND & GWENDOLYN RAND (R)	12-14-16	104.01	WV-0000109-001 WV-0000109-002 WV-0000109-003
5	MICHAEL E LASURE & VELVA C LASURE (S/R)	12-14-14	25.00	WV-0000184-001
6	MICHAEL E LASURE & VELVA C LASURE (S) RAY C HERMAN & ROSE M HERMAN & DAL A HERMAN (R)	12-14-8	52.89	WV-0000126-000 1-254831-000
7	RONNIE E WADE & YVONNE M WADE (S) HAROLD H BLAKE & DONNA M BLAKE (R)	12-14-4.1	94.37	WV-0000150-001
8	NORMAN K KEENEY JR & NANCY M KEENEY (S) OTIS SIMMONS & MABEL SIMMONS, ETHEL RAMSEY & ELMER RAMSEY, & HAROLD SIMMONS & ROXIE SIMMONS (R)	12-9-45	100.00	1-254812-000

NOTES ON SURVEY

- COORDINATES 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 FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- NO DWELLINGS AND BUILDINGS 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, RESERVOIRS OR WETLANDS WITHIN 1000 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.669606' LONGITUDE: -80.659437'
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,406,608.961 EASTING: 1,736,249.851
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,143.194 EASTING: 529,210.013
"TURNING POINT" LOCATION (TPL):
GEOGRAPHIC (NAD83): LATITUDE: 39.666775' LONGITUDE: -80.665068'
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,405,572.234 EASTING: 1,734,669.120
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,390,827.198 EASTING: 528,728.205
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 39.680183' LONGITUDE: -80.682293'
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,410,436.663 EASTING: 1,729,804.578
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,392,309.880 EASTING: 527,245.490



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. 667

Darrell R. Boice



COMPANY: **SWN** Production Company, LLC

WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	MINIMUM DEGREE OF ACCURACY: 1/200	WILLIAM RITCHEA WTZ
	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: 201H
	API WELL #: 47	103 HGA 03130
	STATE	COUNTY 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: LITTLE FISHING CREEK	ELEVATION: 1563.2'
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 <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: 7,556 TMD 16,245 TMD	

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300	ADDRESS: P.O. BOX 1300
CITY: JANE LEW	CITY: JANE LEW
STATE: WV	STATE: WV
ZIP CODE: 26378	ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE: 05-14-2015
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR 	<ul style="list-style-type: none"> --- LEASE BOUNDARY --- 500' DHP BUFFER - MAR. 1 - MARCELLUS DHP - - - ABANDONED PATH 	DRAWN BY: S. HUTSON SCALE: 1" = 2000' DRAWING NO: 58715 WELL LOCATION PLAT



Path: D:\Harrisburg\GIS_Data\South Western Energy\Marcellus\WV\Wetzel\William_Ritchea_WTZ_PAD\Projects\William_Ritchea_Permitting.mxd

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Legend

- William Ritchea WTZ Pad
- USGS NURVE W#8
- Streams
- 1,500' Radius of Site
- Parcel Outside the Radius
- Parcel Within 1,500' of Site - 10 parcels highlighted

Baseline Sample Location

- Spring
- Water Well
- Stream

Baseline Sample Location labeled with:
 Parcel Number
 System Location Code
 Sample Date
 Location Type



William Ritchea WTZ Pad
 39.669518
 -80.659527

Map Coordinate System:
 NAD 1983 StatePlane West Virginia North FIPS 470
 Projection: Lambert Conformal Conic
 Datum: North American 1983
 False Easting: 1,969,500.00000

Notes:
 1. SWN is abbreviation for SWN Production Company, LLC
 2. The stream and surface water data were obtained from
<http://wvgis.wvu.edu/data/dataset.php?ID=285>

0 350 700 1,400
 1 inch = 700 feet

SWN Production Company, LLC
 William Ritchea WTZ Pad
 Wetzel County, WV

Permit Map

Drawn	Checked	Approved	Figure no.
06/06/2015	06/06/2015	06/06/2015	1

Project: 313736.00.0000.1000.0100

File: WILM_RITCHEA_Permitting

Version

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