

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 73°32'39" W	1420.83'	SHL TO LANDMARK	5/8" REBAR
L2	S 53°10'40" W	910.32'	SHL TO LANDMARK	5/8" REBAR
L3	N 50°05'37" E	232.61'	SHL TO REF. PNT.	5/8" REBAR
L4	S 78°07'45" W	321.48'	SHL TO REF. PNT.	5/8" REBAR
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 85°45'29" E	3427.39'		SHL TO LPL
L6	S 51°25'54" E	3508.98'		LPL TO BHL

TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL	ACRES	TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	WILLIAM D RITCHEA & SHIRLEY E RITCHEA (S/R)	12-15-21	62.00	4	IRENE DONMICK (R)		
2	H C LEMASTERS HEIRS & CHARLES V MANKER REVOCABLE LIVING TRUST (S)	12-15-18	62.00	(cont.)	JEAN WARNER & DONALD WARNER, MABEL GORBY, RALPH G GORBY & WILMA GORBY, VERNA MARIE LEWIS & DALE LEAS, PATRICK C THOMAS & F WAYNE THOMAS, ROBERT R GORBY & SHEILA L GORBY (R)		
3	DOLLIE G LEMASTERS ESTATE (S)	12-15-19	122.00	4A	THOMAS, ROBERT R GORBY & SHEILA L GORBY (R)		
4	CARL M GORBY AND MARGARET LEONA GORBY, AUSTIE LEITHA FRIZZELL & FRANK FRIZZELL, VERNA D LANE, RYAN L KING & NANCY J KING, ORVEL A GORBY & MARY M GORBY (R)	12-15-24	48.00	5	JOHN R GORBY & LINDA GORBY, JAMES SHAMGACH & MRYTLE SHAMGACH, LEWIS J ALLEN & JULIA ALLEN, FRANCIS A EMMERT & MARGAN E EMMERT, CRAIG GORBY & CLAUDIA GORBY (R)		
				6	KATHY L GYARMATI & MICHAEL S GYARMATI, ROBERT J GORBY, RUTH ANN NOVACK & GLENN A NOVACK (R)		
					LENA M COWAN, NORMAN R. GORBY, PAUL F GORBY & DOROTHY L GORBY, GREGORY E GORBY, ALICE ESTHER GORBY, BRONDA K DEVES & CRAIG DEVES (R)		
					PAUL PALMER & MARION W PALMER (R)		
					TERESA M CATES (R)		
					THOMAS M DOUGLAS & MAUDE C DOUGLAS (R)		
					KIMBERLY ANN YOHIO & KEITH ALLEN YOHIO (S)	12-15-29	44.875
					GLENN WOOD & TAMELA P WOOD (S)	1-10-9	32.00
					LINDA ALLEN (R)		
					WILLIAM J JACOBS (R)		
					GARY A JACOBS (R)		
					ANDREW J JOHNSON (R)		
					ROSALIE B HENRY (R)		
					JANET JOHNSON (R)		
					GREGORY F JOHNSON (R)		
					BRC APPALACHIAN MINERALS LLC (R)		
					TERREL L MELOTT (S)	P/O 1-10-10	28.50
					SHIRLEY GREATHOUSE (S)	1-10-11	62.944
					VANESSA BARD & LLOYD BARD (S)	P/O 1-10-25	14.016
					SHARON J MCMILLIN (S)		21.79
					EAST RESOURCES INC. (R)		
					HADAD & BROOKLYN INC. (R)		

**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 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.

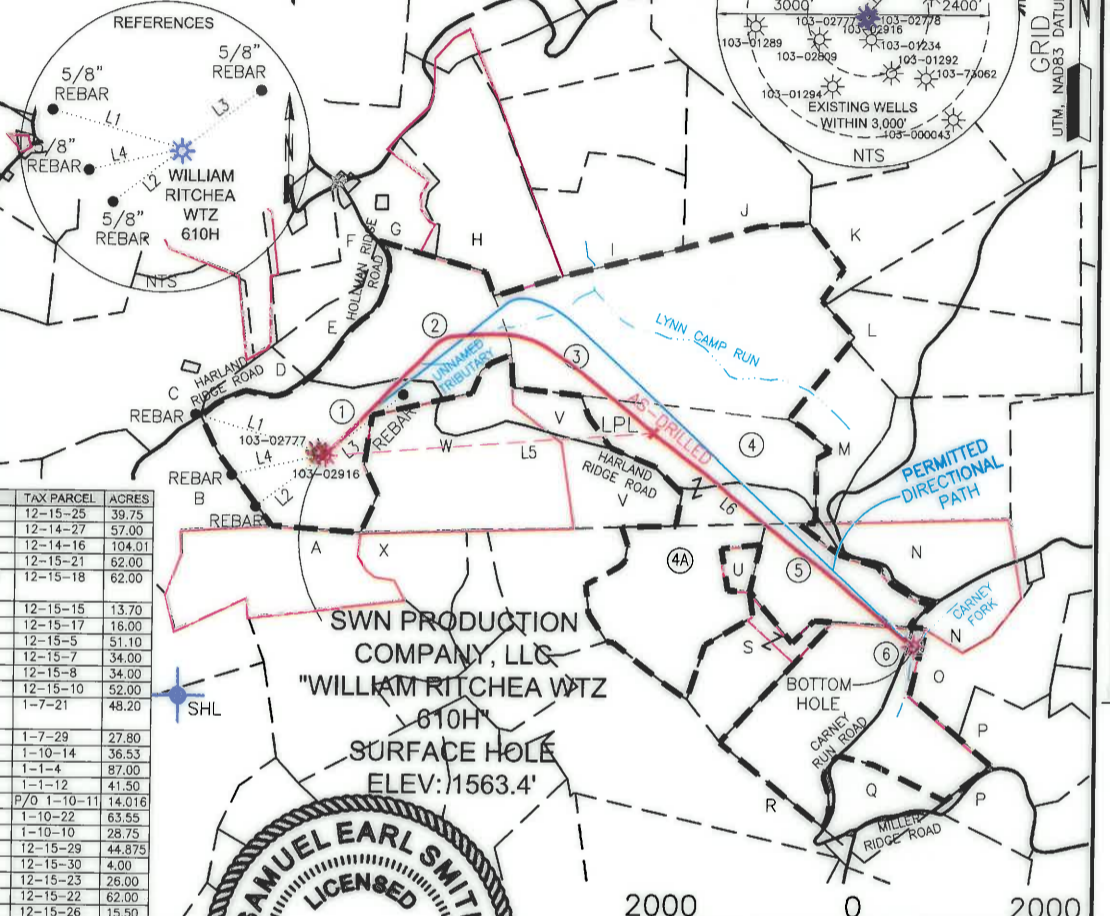
**REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS**

**SURFACE HOLE LOCATION (SHL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,391,133.156  
EASTING: 529,247.612

**LANDING POINT LOCATION (LPL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,391,210.392  
EASTING: 530,288.935

**BOTTOM HOLE LOCATION (BHL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,390,543.900  
EASTING: 531,124.781

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BERNARD LEE DUELLEY ET AL	12-15-25	39.75
B	WILLIAM R PITOSCIA	12-14-27	57.00
C	WILLIAM R PITOSCIA	12-14-16	104.01
D	WILLIAM D RITCHEA & SHIRLEY E RITCHEA	12-15-21	62.00
E	H C LEMASTERS HEIRS & CHARLES V MANKER REVOCABLE LIVING TRUST	12-15-18	62.00
F	GARY A RITCHEA & ALICIA L RITCHEA	12-15-15	13.70
G	HAESSLY LAND & TIMBER LLC	12-15-17	16.00
H	HAESSLY LAND & TIMBER LLC	12-15-5	51.10
I	HAESSLY LAND & TIMBER LLC	12-15-3	34.00
J	VERNA E LONG DREYER	12-15-8	34.00
K	HAESSLY LAND & TIMBER LLC	12-15-10	52.00
L	ERIC D WYKERT & CEE JAE WYKERT AND JAMES G WOOD & TAMELA P WOOD	1-7-21	48.20
M	HANNAH R EDGELL	1-7-29	27.80
N	WAYNE WYKERT & ASHLEY WYKERT	1-10-14	36.53
O	BONNIE SUE COLLINS & JUNIOR B COLLINS	1-1-4	87.00
P	BONNIE SUE COLLINS & JUNIOR B COLLINS	1-1-12	41.50
Q	VANESSA BARD & LLOYD BARD	P/O 1-10-11	14.016
R	TERREL L MELOTT	1-10-22	63.55
S	TERREL L MELOTT	1-10-10	28.75
T	NOT USED	12-15-29	44.875
U	DAVID PAUL HANSEN	12-15-30	4.00
V	HAROLD HEETER JR ET AL	12-15-23	26.00
W	BERNARD LEE DUELLEY ET AL	12-15-22	62.00
X	BERNARD LEE DUELLEY ET AL	12-15-26	15.50



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 *Samuel Earl Smith* 02-23-17

COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	WILLIAM RITCHEA WTZ
	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 #: 610H
			API WELL #: 47 103 03141
			STATE COUNTY PERMIT

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

WATERSHED: LITTLE FISHING CREEK

DISTRICT: PROCTOR COUNTY: WETZEL

SURFACE OWNER: WILLIAM D & SHIRLEY E RITCHEA

OIL & GAS ROYALTY OWNER: WILLIAM D & SHIRLEY E RITCHEA

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: 7,639 TVD 15,769 IMD

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: 07-22-2016
<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>	DRAWN BY: S SMITH SCALE: 1" = 2000' DRAWING NO: 59481 WELL LOCATION PLAT