



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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 73°37'57" W	1320.56'	SHL TO LANDMARK	5/8" REBAR
L2	S 47°42'27" W	855.89'	SHL TO LANDMARK	5/8" REBAR
L3	N 66°32'56" E	298.70'	SHL TO REF. PNT.	5/8" REBAR
L4	S 66°14'43" W	239.30'	SHL TO REF. PNT.	5/8" REBAR
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 76°46'53" W	669.10'		SHL TO LP
L6	N 45°07'24" W	7343.90'		LP TO BHL

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	WILLIAM D RITCHEA & SHIRLEY E RITCHEA (S/R)	12-15-21	62.00
3	WILLIAM R PITOSCIA (S) TASA CORPORATION (R) HERBERT W LINDSAY & MARIE LINDSAY (R) RUSSELL RAND & GWENDOLYN RAND (R)	12-14-16	104.01
2	LEMASTERS CEMETERY (S)	12-15-2	0.35
6	WILLIAM D RITCHEA & SHIRLEY E RITCHEA (S/R) LEWIS F BLAKE & OPAL M BLAKE (R) ALBERT WOODSTUFF (R)	12-14-9	88.37
5	WAYNE HUGGINS & SANDRA HUGGINS (S) LEWIS F BLAKE & OPAL M BLAKE (R) ALBERT WOODSTUFF (R)	12-14-9.1	12.69
4	WAYNE L GODDARD (S) LEWIS F BLAKE & OPAL M BLAKE (R) ALBERT WOODSTUFF (R)	12-14-9.3	0.16
7	MICHAEL E LASURE & VELVA C LASURE (S) RAY C HERMAN & ROSE HERMAN (R) DAIL A HERMAN (R) RAY C HERMAN & DAIL A HERMAN (R)	12-14-6	52.89
8	WAYNE HUGGINS & SANDRA M HUGGINS (S) F E BUCHNER (R), WILLARD HERMAN (R), DALE A HERMAN (R), RAY C HERMAN (R), DORA HALL PALMER (R), & FRANKIE E WOODSTUFF & ALBERT WOODSTUFF (R)	12-9-46.1	25.00
9	NORMAN E KEENEY JR & NANCY M KEENEY (S) OTIS SIMMONS & MABEL SIMMONS (R) ETHEL RAMSEY & ELMER RAMSEY (R) HAROLD SIMMONS & ROXIE SIMMONS (R)	12-9-45	100.00
10	VERIL JEROME BLAKE, RODNEY BLAKE & JEROME MICHAEL (S) EDWARD A NEUMAN & ISABELLE NEUMAN (R), FRANCES ALMA EMMERT (R), MARY A BARNES (R), LORETTA M SAPPINGTON (R), & JOHN A NOON & ALISON NOON (R) THE MARY E TRACY TRUST DATED APRIL 6, 1910 (R)	12-9-4	50.00

NOTES ON SURVEY

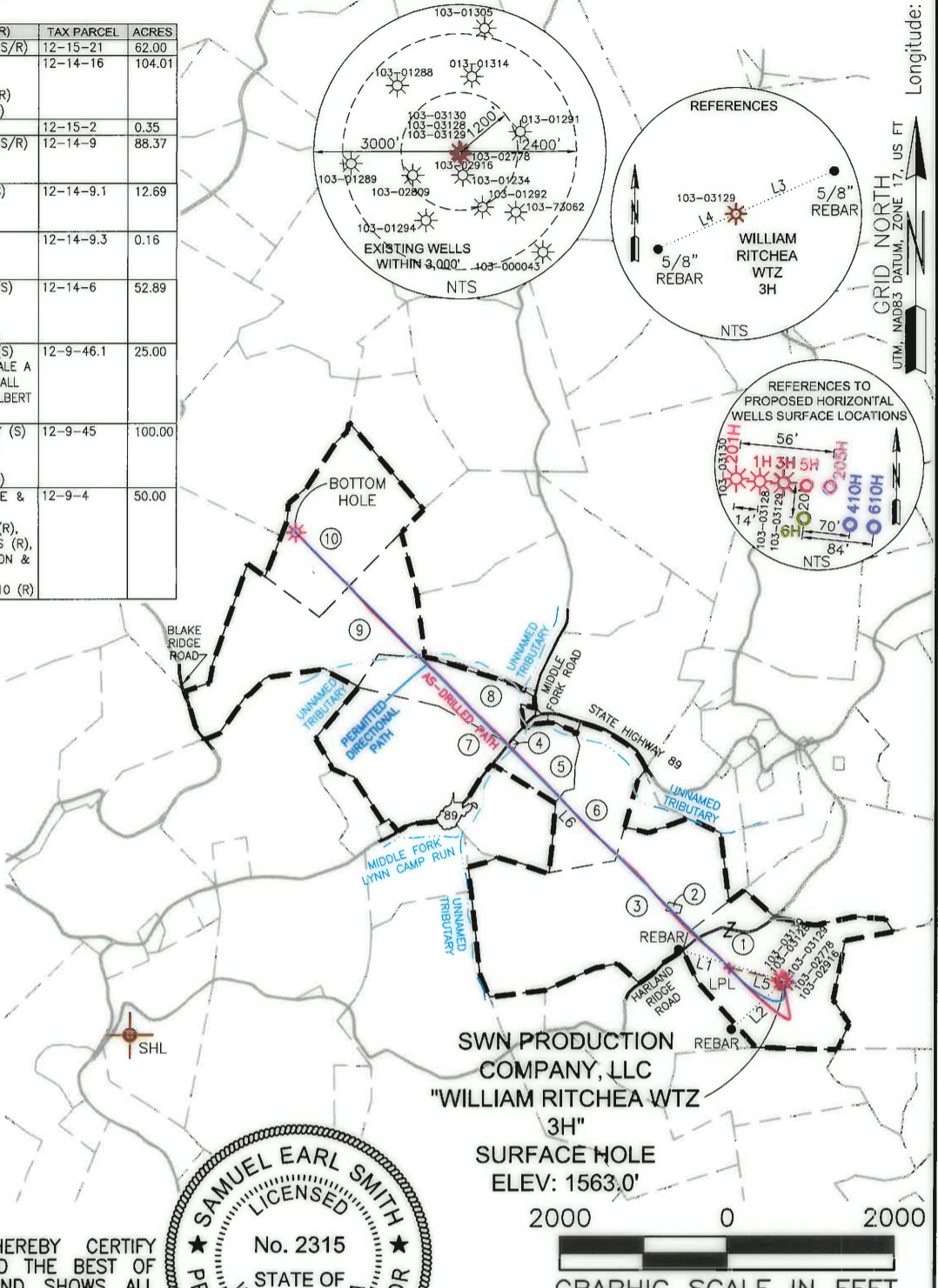
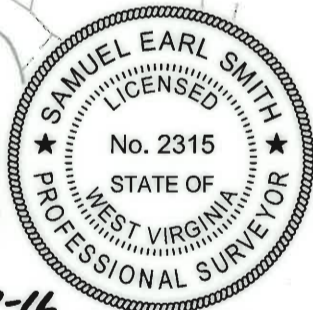
- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT 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 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.

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,142.404 EASTING: 529,218.488
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,189.038 EASTING: 529,019.950
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,392,768.433 EASTING: 527,433.740

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

07-27-16



SWN PRODUCTION COMPANY, LLC
"WILLIAM RITCHEA WTZ 3H"
SURFACE HOLE
ELEV: 1563.0'

GRAPHIC SCALE IN FEET

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

WILLIAM RITCHEA WTZ
OPERATOR'S WELL #: 3H
API WELL #: 47 103 03129
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 DEPTH: 7,562' TD 19,514' IMD

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

DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD * ABANDONED WELL * PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	REVISIONS: ▲ REVISED SHL LONGITUDE, 07-22-2015 ▲ UPDATED WITH AS-DRILLED DIRECTIONAL PATH, 12-07-2015 ▲ UPDATED PER. DIR. PATH, ADDED LPL COORDS. 07-25-2016	DATE: 12-02-2015 DRAWN BY: S. HUTSON SCALE: 1" = 2000' DRAWING NO: 59340 WELL LOCATION PLAT
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