



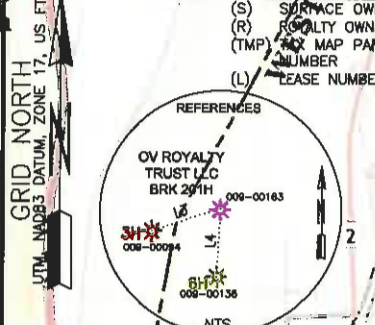
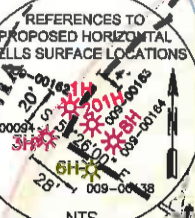
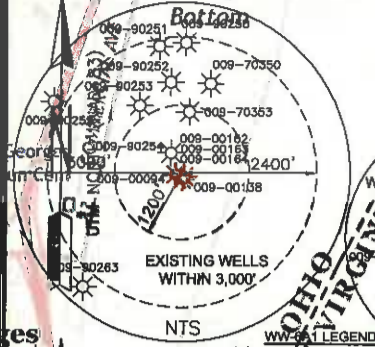
320 O'Bryan Lane • Van Buren, AR 72931
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 Surveying • Mapping • Inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 33°40'37" W	3218.62'	SHL TO LANDMARK	FOUND IRON PIN
L2	S 27°24'41" W	26.31'	SHL TO IRON PIN	FOUND IRON PIN
L3	S 27°24'41" W	26.31'	SHL TO IRON PIN	FOUND IRON PIN
L4	S 03°12'41" W	23.72'	SHL TO REF. PNT.	OV ROYALTY TRUST LLC BRK 3H WELL (009-00138)
L5	N 65°34'23" W	1915.17'	SHL TO WATER WELL	
L6	N 78°32'46" W	2199.43'	SHL TO SPRING	
LINE	CHORD BEARING	CHORD DIST.	CURVE LENGTH	DESCRIPTION
L7	S 82°30'59" W	116.91'		SHL TO LP
L8	N 20°38'31" W	7520.32'		LP-TO-BHL

Cross
 Creek Cem

SHL

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
2	CHARLES R BOGGS (S/R)	4-C22G-57	6.72
3	CHARLES V ISINGHOOD & BETTY ISINGHOOD (S/R)	4-C22G-32	13.00
4	JOHN ISINGHOOD (S/R)	4-C22G-83	5.00
5	CHARLES V ISINGHOOD & BETTY ISINGHOOD (S/R)	4-C22G-33	5.74
6	BETTY HANLON (S/R)	4-C22G-128	4.32
7	CAROLYN FREEMAN (S/R)	4-C22G-40	5.83
8	JOHN ISINGHOOD (S/R)	4-C22G-160	1.50
9	LISA M DELANY & SHAWN A DELANY (S) DANIEL R VIRTUE & DENISE L VIRTUE (S) EARL PRICE (R) LINDA ROSSER (R)	4-C22C-163	0.30
10	LISA M DELANY & SHAWN A DELANEY (S) LINDA ROSSER (R)	4-C22C-163.01	2.72
11	MYRTLE COX NURMI & OTHERS (S) ARETTA MINA ULRICH KEADLE (R) CHARLES MELVIN ULRICH (R) DAVID NURMI (R) JAMES M SIMPSON II (R) M L BUCHANAN JR (R) PRISCILLA GAY BUCHANAN (R) CHRISTINE ISABEL HARVEY (R) CHARLES M NURMI (R) WEATHER MARIE RUSGAMAN (R)	4-CC18-39	68.18
12	THOMAS M BOYD, RICHARD A BOYD, & DAVID S BOYD TRUSTEES IN TRUST (S) THOMAS J BOYD FAMILY TRUST (R)	4-CC18-62	59.82



- 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 OWNERS AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
 - THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ FT. WITHIN ONE 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: 4,459,556.435 EASTING: 535,834.284
LANDING POINT LOCATION (LPL)
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,459,484.306 EASTING: 534,785.207
BOTTOM HOLE LOCATION (BHL)
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,629.349 EASTING: 533,977.850

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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



GRAPHIC SCALE IN FEET

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC Production Company™ OV ROYALTY TRUST LLC BRK OPERATOR'S WELL #: 201H API WELL #: 47 09 00163 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: BUFFALO CREEK **Marshall** ELEVATION: 1181.1'

DISTRICT: CROSS CREEK **Terrace** COUNTY: BROOKE QUADRANGLE: STUEBENVILLE EAST WV.

SURFACE OWNER: THE TRUST OF GENE VALENTINE ACREAGE: ±494.38

OIL & GAS ROYALTY OWNER: THE TRUST OF GENE VALENTINE ACREAGE: ±494.38

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

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

TARGET FORMATION: MARCELLUS

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL

ADDRESS: P.O. BOX 1300 LEGEND

CITY: JANE LEW STATE: WV ZIP CODE: 26378

DATE: 08-18-2015

REVISIONS: [Updated Directional Path 08-20-2015]

LEGEND:
 SWN PRODUCTION COMPANY - HOLE / BOTTOM HOLE
 EXISTING / PRODUCING WELLHEAD
 AS-DRILLED PATH
 PERMITTED DIRECTIONAL PATH
 LEASE BOUNDARY
 AS-DRILLED PATH
 PERMITTED DIRECTIONAL PATH