



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

**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.

GRID NORTH  
 UTM, NAD83 DATUM, ZONE 17, US FT

TRACT	SURFACE OWNER (S)/ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NUMBER
2	DALE E ADAMS & MARY K ADAMS (S/R)	CC22-30	2.30	47-000493-000
3	JIMMIE D GEORGE & ROBIN J GEORGE (S/R)	CC22-31	4.00	1-329256-000
4	PAUL DONALD MORRIS (S)	CC22-34	2.00	
	FIRST PRESBYTERIAN CHURCH (R)	CC22-34	2.00	47-0000826-000
5	ROBERT E LOUDIN (S/R)	CC22-13	1.83	1-358252-000
6	JOSEPH B HAUGHT & LISA HAUGHT (S/R)	CC22-15	0.40	47-001040-000
7	JOSEPH B HAUGHT & LISA HAUGHT (S/R)	CC22-14	0.28	47-001040-000
8	DAVID W YAUSSY (S/R)	CC22-5	0.32	47-000568-000
9	GERALD W DULANEY (S/R)	CC22-6	0.27	47-000915-000
10	NOT CROSSED			
11	DUANE TAYLOR (S/R)	CC22-4	3.00	1-313770-000
12	CAROL REED (S/R)	CC22-1	11.25	1-313835-000
13	DONALD C. TAYLOR & CHRISTINA M. TAYLOR (S/R)	CC22-2	2.00	1-313819-001
	DUANE RAY TAYLOR SR. (S/R)			1-313819-002
14	LISA ANN GREEN (S/R)	CC22-3	0.96	47-000574-000
15	NOT CROSSED			
16	THOMAS M BOYD, RICHARD A BOYD, & DAVID S BOYD TRUSTEES IN TRUST (S)	CC18-57	34.84	47-001427-000
	THE THOMAS J BOYD TRUST (R)			
17	THOMAS M BOYD, RICHARD A BOYD, & DAVID S BOYD TRUSTEES IN TRUST (S)	CC18-58	27.38	47-001459-000
	THE THOMAS J BOYD TRUST (R)			
18	CHARLES MELVIN ULRICH & AURETTA MINA ULRICH KEADLE (S/R)	CC18-59	1.00	1-329411-001
				1-382481-001
19	NURMI MYRTLE COX & OTHERS (S)	CC18-39	68.18	1-329412-001
	CHARLES MELVIN ULRICH (R)			47-000780-001
	ARETTA MINA ULRICH KEADLE (R)			47-000780-002
	JAMES M SIMPSON II (R)			47-000780-003
	PRISCILLA GAYE BUCHANAN (R)			47-000780-004
	M L BUCHANAN JR (R)			47-000780-005
	DAVID NURMI (R)			47-000780-006
	CHARLES M NURMI (R)			47-000780-007
	CHRISTINE ISABEL HARVEY (R)			47-000780-008
	HEATHER MARIE RUSCHMAN (R)			47-000780-009

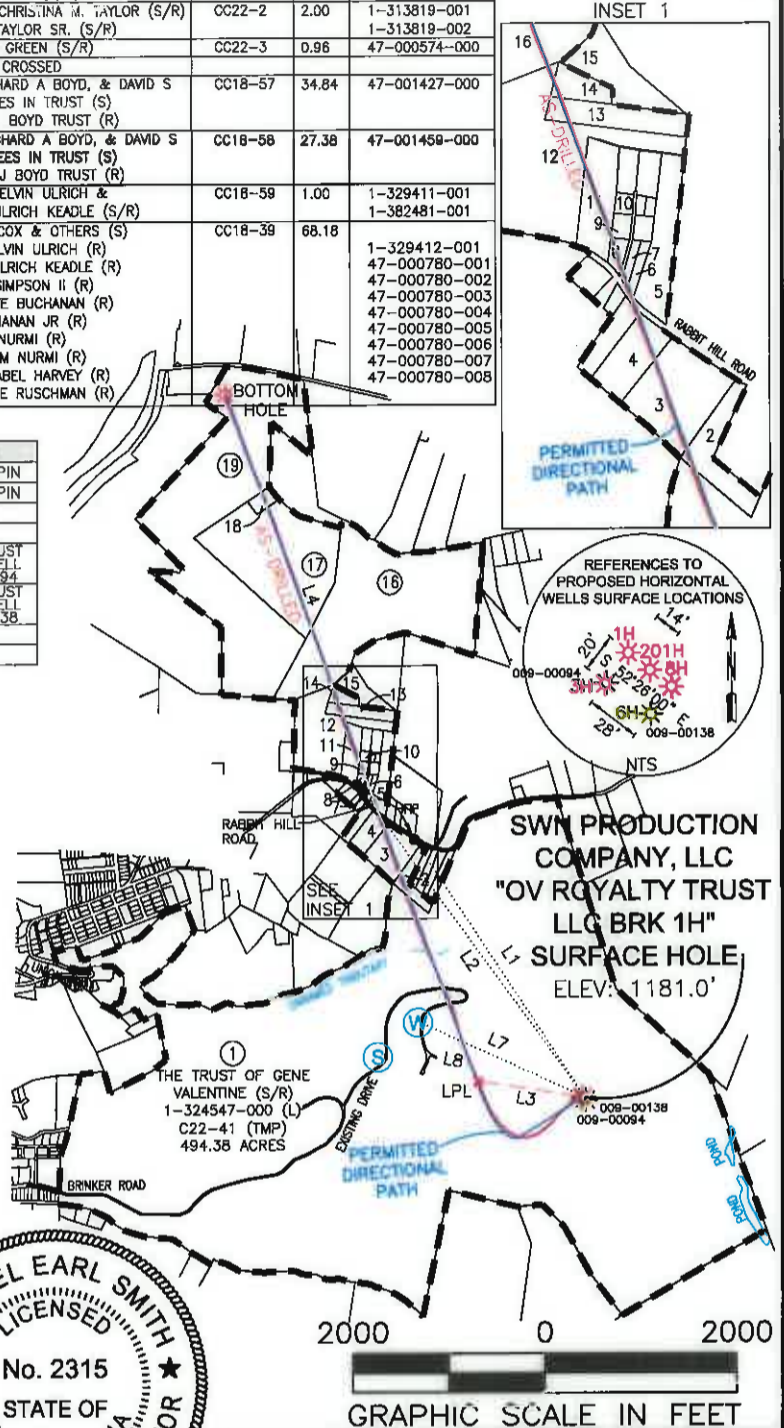
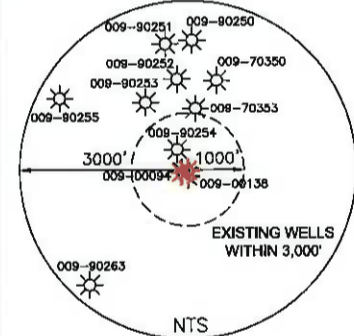
LINE	DESCRIPTION	DISTANCE	DESCRIPTION	MONUMENT
L1	N 33°34'45" W	3206.85'	SHL TO LANDMARK	FOUND IRON PIN
L2	N 36°13'10" W	4011.87'	SHL TO LANDMARK	FOUND IRON PIN
L3	N 81°43'35" W	1113.17'	SHL TO LPL	
L4	N 20°16'15" W	7579.55'	TPL TO BHL	
L5	S 38°28'15" W	19.83'	SHL TO REF. PNT.	OV ROYALTY TRUST LLC BRK 3H WELL HEAD 009-00094
L6	S 18°20'43" E	33.20'	SHL TO REF. PNT.	OV ROYALTY TRUST LLC BRK 6H WELL HEAD 009-00138
L7	N 65°38'28" W	1901.956'	SHL TO WATER WELL	
L8	N 78°41'09" W	2187.20'	SHL TO SPRING	

**SURFACE HOLE LOCATION (SHL)**  
 UTM (NAD83, ZONE 17, METERS):  
 NORTHING: 4,459,558.819  
 EASTING: 535,330.694

**LANDING POINT LOCATION (LPL)**  
 UTM (NAD83, ZONE 17, METERS):  
 NORTHING: 4,459,607.612  
 EASTING: 534,994.925

**BOTTOM HOLE LOCATION (BHL)**  
 UTM (NAD83, ZONE 17, METERS):  
 NORTHING: 4,461,774.781  
 EASTING: 534,194.522

**WV-8A1 LEGEND**  
 (S) SURFACE OWNER  
 (R) ROYALTY OWNER  
 (TMP) TAX MAP PARCEL NUMBER  
 (L) LEASE NUMBER



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. 1333 *[Signature]* 09-20-16

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 ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	COMPANY: <b>SWN</b> OPERATOR'S WELL #: 1H API WELL #: <b>47 09 00162</b> STATE COUNTY PERMIT
	OIL & GAS ROYALTY OWNER: THE TRUST OF GENE VALENTINE	DESIGNATED AGENT: DEE SOUTHALL ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378

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

WATERSHED: BUFFALO CREEK ELEVATION: 1181.0'

DISTRICT: CROSS CREEK 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-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,777' TVD 13,955' TMD

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

<b>LEGEND:</b> ● PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	--- LEASE BOUNDARY --- AS-DRILLED PATH --- PERMITTED DIRECTIONAL PATH	<b>REVISIONS:</b> △ UPDATED WITH AS-DRILLED DIRECTIONAL PATH 07-26-2016	DATE: 07-20-2016 DRAWN BY: S SMITH SCALE: 1" = 2000' DRAWING NO: 59472 WELL LOCATION PLAT
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