

State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Well Operator's Report of Well Work

API 47-009-00164 County BROOKE District CROSS CREEK  
Quad STUEBENVILLE EAST WV Pad Name OV ROYALTY TRUST LLC-BRK-PAD1 Field/Pool Name PANHANDLE  
Farm name THE TRUST OF GENE VALENTINE Well Number OV ROYALTY TRUST LLC BRK 8H  
Operator (as registered with the OOG) SWN PRODUCTION COMPANY LLC  
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,459,553.734 Easting 535,337.565  
Landing Point of Curve Northing 4,459,395.426 Easting 535,340.000  
Bottom Hole Northing 4,458,382.745 Easting 535,716.938

Elevation (ft) 1181' GL Type of Well  New  Existing Type of Report  Interim  Final  
Permit Type  Deviated  Horizontal  Horizontal 6A  Vertical Depth Type  Deep  Shallow  
Type of Operation  Convert  Deepen  Drill  Plug Back  Redrilling  Rework  Stimulate  
Well Type  Brine Disposal  CBM  Gas  Oil  Secondary Recovery  Solution Mining  Storage  Other \_\_\_\_\_  
Type of Completion  Single  Multiple Fluids Produced  Brine  Gas  NGL  Oil  Other \_\_\_\_\_  
Drilled with  Cable  Rotary

Drilling Media Surface hole  Air  Mud  Fresh Water Intermediate hole  Air  Mud  Fresh Water  Brine  
Production hole  Air  Mud  Fresh Water  Brine  
Mud Type(s) and Additive(s)  
SOBM

Date permit issued 07/28/2015 Date drilling commenced 08/15/2015 Date drilling ceased 11/05/2015  
Date completion activities began 08/11/2016 Date completion activities ceased 08/23/2016  
Verbal plugging (Y/N) N Date permission granted \_\_\_\_\_ Granted by \_\_\_\_\_

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 257' Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft 495' Void(s) encountered (Y/N) depth 210.5' - 216'  
Coal depth(s) ft 210.5' Cavern(s) encountered (Y/N) depths \_\_\_\_\_ N

Is coal being mined in area (Y/N) N

**APPROVED**

NAME: Eric Bland

DATE: 1.25.17

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Reviewed by: EB 1.25.17

API 47-009 00164

Farm name THE TRUST OF GENE VALENTINE Well number OV ROYALTY TRUST LLC BRK 8H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	28"	20"	131'	NEW	J-55/94#		Y
Surface	17.5"	13.375"	345'	NEW	J-55/54.5#	163'; 188'	Y
Coal	SEE SURFACE						
Intermediate 1	12.25"	9.625"	1,588'	NEW	J-55/40#		Y, 24 BBLs RETURNED
Intermediate 2							
Intermediate 3							
Production	8.75"	5.5"	9,829'	NEW	HCP-110/20#		Y
Tubing		2.375"	6084'	NEW	P-110/4.70#		N
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	150	17.20			SURFACE	24
Surface	CLASS A	347	15.60	1.20	416.40	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	600	15.60	1.20	720	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	870/847	15.60	1.23/1.19	1070.10/1007.93	SURFACE	24
Tubing	N/A						

Drillers TD (ft) <sup>9829'</sup> \_\_\_\_\_

Loggers TD (ft) <sup>9829'</sup> \_\_\_\_\_

Deepest formation penetrated MARCELLUS

Plug back to (ft) N/A

Plug back procedure \_\_\_\_\_

Kick off depth (ft) <sup>4977'</sup> \_\_\_\_\_

Check all wireline logs run  
 caliper     density     deviated/directional     induction  
 neutron     resistivity     gamma ray     temperature     sonic

Well cored     Yes     No    Conventional    Sidewall    Were cuttings collected     Yes     No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING \_\_\_\_\_

SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING

INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING

PRODUCTION: 181 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

WAS WELL COMPLETED AS SHOT HOLE     Yes     No    DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?     Yes     No    DETAILS \_\_\_\_\_

WERE TRACERS USED     Yes     No    TYPE OF TRACER(S) USED \_\_\_\_\_

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**OV ROYALTY TRUST LLC BRK 8H**

## Perforation Information

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	8/11/2016	9,501	9,698	42
2	8/11/2016	9,241	9,438	42
3	8/11/2016	8,981	9,178	42
4	8/11/2016	8,721	8,918	42
5	8/12/2016	8,461	8,658	42
6	8/12/2016	8,201	8,398	42
7	8/12/2016	7,941	8,138	42
8	8/12/2016	7,681	7,878	42
9	8/12/2016	7,421	7,618	42
10	8/13/2016	7,161	7,358	42
11	8/13/2016	6,901	7,098	42
12	8/13/2016	6,641	6,838	42
13	8/13/2016	6,381	6,578	42
14	8/13/2016	6,121	6,318	42

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Stimulation Information

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/ot her
1	8/11/2016	2	7,720	8,274	4,431	498,420	7,375	N/A
2	8/11/2016	2	7,766	8,432	4,517	502,800	7,092	N/A
3	8/11/2016	2	7,265	8,407	4,245	501,060	7,360	N/A
4	8/11/2016	2	7,205	8,245	4,365	506,600	7,148	N/A
5	8/12/2016	2	7,429	8,413	5,314	500,280	7,085	N/A
6	8/12/2016	2	6,956	7,871	4,145	497,760	6,963	N/A
7	8/12/2016	2	7,243	7,960	4,245	494,360	6,979	N/A
8	8/12/2016	2	6,920	8,273	4,756	502,100	6,927	N/A
9	8/12/2016	2	6,784	7,848	4,216	504,580	6,726	N/A
10	8/13/2016	2	6,921	8,546	3,944	499,780	6,865	N/A
11	8/13/2016	2	7,203	7,813	4,965	496,780	6,967	N/A
12	8/13/2016	2	6,926	7,934	4,685	497,920	6,949	N/A
13	8/13/2016	2	6,603	7,158	4,487	497,860	6,824	N/A
14	8/13/2016	2	6,618	7,763	4,425	493,460	8,106	N/A

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OV ROYALTY TRUST LLC BRK 8H

Lithology

LITHOLOGY/FORMATION	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, TVD (FT)	TOP DEPTH, MD (FT)	BOTTOM DEPTH, MD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	N.A.	257.0	N.A.	257.00	
Top of Salt Water	495.00	N.A.	495.00	N.A.	
Pittsburgh Coal	210.5	216	236.5	242	Void Encountered
Big Injun (ss)	1297.00	1488.00	1297.00	1488.00	
Berea (siltstone)	1809.00	1831.00	1809.00	1831.00	
Rhinesfreet (shale)	5233.82	5467.84	5251.51	5506.85	
Cashaqua (shale)	5467.84	5524.44	5506.85	5575.29	
Middlesex (shale)	5524.44	5571.99	5575.29	5637.03	
Burket (shale)	5571.99	5593.19	5637.03	5666.67	
Tully (ls)	5593.19	5645.98	5666.67	5748.53	
Mahantango (shale)	5645.98	5745.27	5748.53	5986.87	
Mardianus (shale)	5745.27	N.A.	5986.87	N.A.	Gas

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# Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	8/11/2016
Job End Date:	8/14/2016
State:	West Virginia
County:	Brooke
API Number:	47-009-00164-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	OV Royalty Trust LLC BRK 8H
Latitude:	40.29429000
Longitude:	-80.58427900
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,785
Total Base Water Volume (gal):	4,090,234
Total Base Non Water Volume:	0

## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
	Bochumberger	Acid Corrosion Inhibitor, Acid, Friction Reducer, Propping Agent, Fluid Loss Additive					
			Water (Including Mix Water Supplied by Client)*	7732-18-5		82.80519	

\*Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.

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	Quartz, Crystalline silica	14808-60-7	98 65365	16 96331	
	Hydrochloric acid	7647-01-0	1.17705	0.20239	
	Ammonium sulfate	7783-20-2	0.08669	0.01491	
	Acrylamide, 2-acrylamido-2-methylpropanesulfonic acid, sodium salt polymer	38193-60-1	0.06398	0.01100	
	Polymer of 2-acrylamido-2-methylpropanesulfonic acid sodium salt and methyl acrylate	136793-29-8	0.00686	0.00118	
	Urea	57-13-6	0.00421	0.00072	
	Propan-2-ol	67-63-0	0.00241	0.00041	
	Sodium sulfate	7757-82-6	0.00098	0.00017	
	Fatty acid, tall-oil reaction products with acetophenone	68188-40-9	0.00094	0.00016	
	Silicon Dioxide	7631-86-9	0.00088	0.00015	
	Alcohols, C12-C16, ethoxylated	68551-12-2	0.00078	0.00013	
	Isodecanol w/6-7 Moles Ethylene Oxide	26183-52-8	0.00053	0.00009	
	Cinnamaldehyde	104-55-2	0.00034	0.00006	
	2-Propenamid (impurity)	79-06-1	0.00021	0.00004	
	Tetrasodium ethylenediaminetetraacetate	64-02-8	0.00011	0.00002	
	Amines, tallow alkyl, ethoxylated	61791-26-2	0.00010	0.00002	
	Dodecyl poly (oxyethylene) ether	9002-92-0	0.00004	0.00001	
	Dimethyl siloxanes and silicones	63148-62-9	0.00006	0.00001	
	Glycols, polyethylene, monotetradecyl ether	27306-79-2	0.00003	0.00001	
	Copper(II) sulfate	7758-98-7			
	Decamethyl cyclopentasiloxane	541-02-6			

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			Dodecamethylcyclohexa siloxane	540-97-6				
			Octamethylcyclotetrasiloxane	556-67-2	0.00001			
			Siloxanes and silicones, dimethyl, reaction products with silica	67762-90-7	0.00001			

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water  
 \*\* Information is based on the maximum potential for concentration and thus the total may be over 100%  
 \*\*\* if you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.  
 Ingredient information for chemicals subject to 29 CFR 1910.1200(f) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



320 O'Bryan Lane • Van Buren, AR 72966  
Office: 479.474.7916 • Fax: 479.474.2450  
Surveying • handa-inc.com

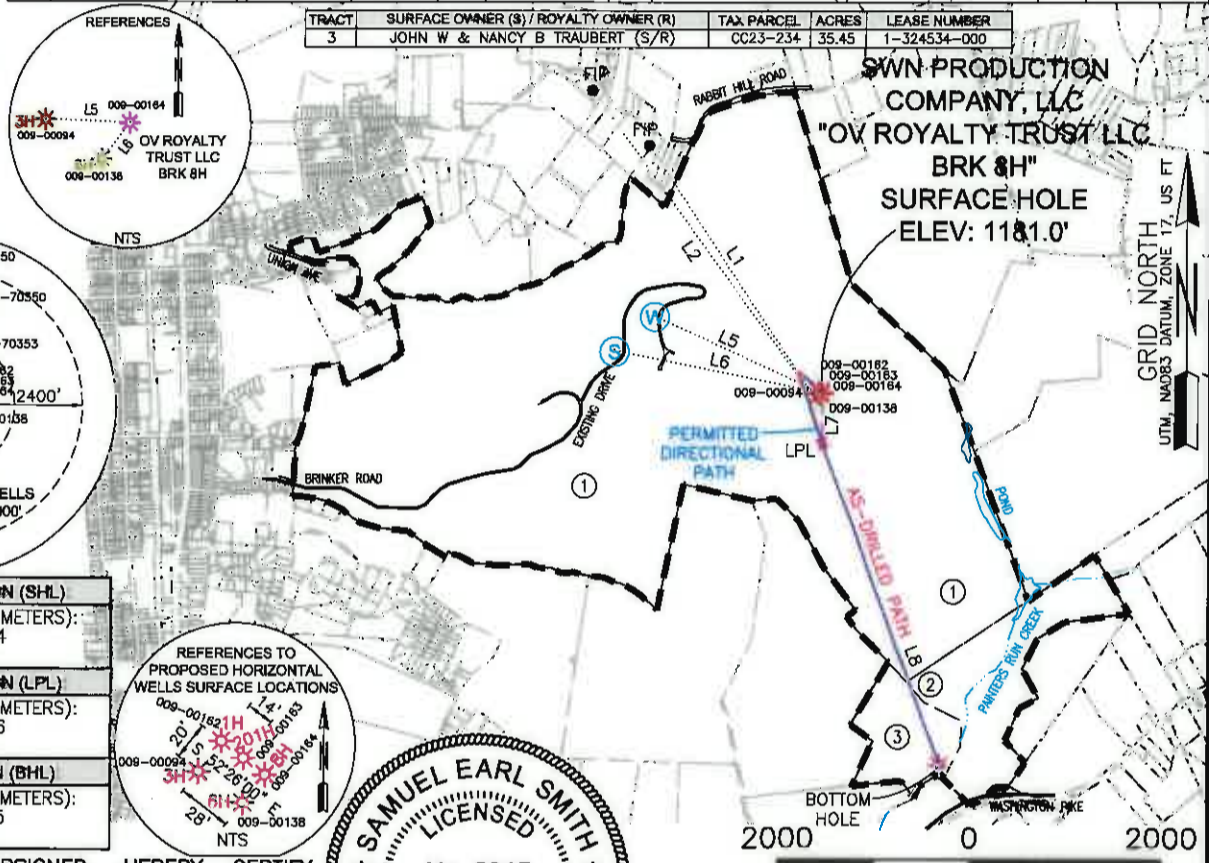
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 33°44'55" W	3231.97'	SHL TO LANDMARK	STONE FOUND
L2	N 36°20'15" W	4036.98'	SHL TO LANDMARK	14" HICKORY FOUND
L3	N 88°06'06" W	34.90'	SHL TO REF. PNT.	OV ROYALTY TRUST LLC BRK 3H WELL HEAD 009-00094
L4	S 39°11'42" W	19.14'	SHL TO REF. PNT.	OV ROYALTY TRUST LLC BRK 6H WELL HEAD 009-00138
L5	N 65°27'57" W	1928.63'	SHL TO WATER WELL	
L6	N 78°22'36" W	2211.75'	SHL TO SPRING	

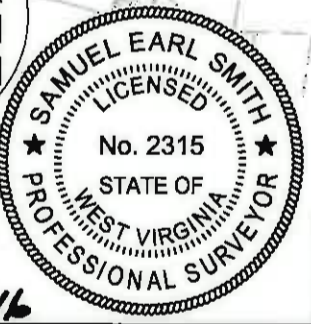
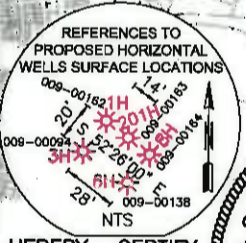
LINE	CHORD BEARING	CHORD DIST	CURVE LENGTH	DESCRIPTION
L7	S 00°52'53" E	519.44'		SHL TO LP
L8	S 20°24'58" E	3545.13'		LP TO BHL

- 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 OF 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.

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NUMBER	TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES	LEASE NUMBER
1	THE TRUST OF GENE VALENTINE (S/R)	CC22-41	494.38	1-324547-000	2	SCHIAPPA AND COMPANY INC (S/R)	CC28-2	38.68	1-382381-001
	ALICIA HOWARD (R)			1-382626-001		ALICIA HOWARD (R)			1-382626-001
	JAMES BRUCE & DIANA MIDCAP (R)			1-382626-002		JAMES BRUCE & DIANA MIDCAP (R)			1-382626-002
	PAUL ALAN & ERIKA MIDCAP (R)			1-382626-003		PAUL ALAN & ERIKA MIDCAP (R)			1-382626-003
	GARNET MIDCAP (R)			1-382626-004		GARNET MIDCAP (R)			1-382626-004
	BETTY JANE MIDCAP (R)			1-382626-006		BETTY JANE MIDCAP (R)			1-382626-006
	JERRY WAYNE MIDCAP (R)			47-0000306-001		JERRY WAYNE MIDCAP (R)			47-0000306-001
	CYNTHIA MCCLOSKEY & PATRICK MCCLOSKEY (R)			47-0000289-001		CYNTHIA MCCLOSKEY & PATRICK MCCLOSKEY (R)			47-0000289-001
	MARTHA L GODDARD (R)			47-0000877-001		MARTHA L GODDARD (R)			47-0000877-001
	STEPHANIE MAKARA & JAN CHAMBERLAIN (R)			47-0000713-001		STEPHANIE MAKARA & JAN CHAMBERLAIN (R)			47-0000713-001
	GEORGE MICHAEL MAKARA (R)			47-0001332-001		GEORGE MICHAEL MAKARA (R)			47-0001332-001
	D BRENT QUEEN (R)			47-0000680-001		D BRENT QUEEN (R)			47-0000680-001
	DOUGLAS RAY LAUCK (R)			47-0000830-001		DOUGLAS RAY LAUCK (R)			47-0000830-001
	DEBORAH C COLLINS & RICHARD L COLLINS (R)			47-0000829-001		DEBORAH C COLLINS & RICHARD L COLLINS (R)			47-0000829-001
	CURTIS JAMES LAUCK (R)			47-0000825-001		CURTIS JAMES LAUCK (R)			47-0000825-001
	FREDRICK SCOTT MAKARA & DIANA M MAKARA (R)			47-0000678-001		FREDRICK SCOTT MAKARA & DIANA M MAKARA (R)			47-0000678-001
	LAWRENCE ROBERT MIDCAP (R)			47-0000844-001		LAWRENCE ROBERT MIDCAP (R)			47-0000844-001
	MARY BETH BARRETT (R)			47-0001331-001		MARY BETH BARRETT (R)			47-0001331-001
	JUDY A SNOODGRASS (R)			47-0001254-001		JUDY A SNOODGRASS (R)			47-0001254-001
	GRACE MARGARET MIDCAP (R)			47-0000853-001		GRACE MARGARET MIDCAP (R)			47-0000853-001
	BRIAN MAKARA & TAMMY MAKARA (R)			47-0001282-001		BRIAN MAKARA & TAMMY MAKARA (R)			47-0001282-001
	DOUGLAS WHEELER & MARTA WHEELER (R)			47-0001252-001		DOUGLAS WHEELER & MARTA WHEELER (R)			47-0001252-001
	AARON WHEELER (R)			47-0001300-001		AARON WHEELER (R)			47-0001300-001
	EMMITT WHEELER & BONNIE WHEELER (R)			47-0000986-001		EMMITT WHEELER & BONNIE WHEELER (R)			47-0000986-001
	BURTON R LAUCK & WANDA LAUCK (R)			47-0000845-001		BURTON R LAUCK & WANDA LAUCK (R)			47-0000845-001
	RANDALL JAY LAUCK (R)			47-0000874-001		RANDALL JAY LAUCK (R)			47-0000874-001
	SHANNON WHEELER & CHRISTOPHER SIEBERT (R)			1-120115-001		SHANNON WHEELER & CHRISTOPHER SIEBERT (R)			1-120115-001
	RUTH ELLEN YAZAVEC (R)			1-120115-002		RUTH ELLEN YAZAVEC (R)			1-120115-002
	ALFRED C LEIST & BRENDA K LEIST (R)			1-120115-004		ALFRED C LEIST & BRENDA K LEIST (R)			1-120115-004
	EDWARD WHEELER (R)			1-120115-006		EDWARD WHEELER (R)			1-120115-006
	TARA KEELEY (R)			1-120115-005		TARA KEELEY (R)			1-120115-005



<b>SURFACE HOLE LOCATION (SHL)</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,459,553.734 EASTING: 535,337.565
<b>LANDING POINT LOCATION (LPL)</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,459,395.426 EASTING: 535,340.000
<b>BOTTOM HOLE LOCATION (BHL)</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,458,382.745 EASTING: 535,716.938



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 *[Signature]* 07-27-16

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	COMPANY: <b>SWN</b> Production Company, LLC
	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 #: 8H API WELL #: 47 09 00164 STATE COUNTY PERMIT

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

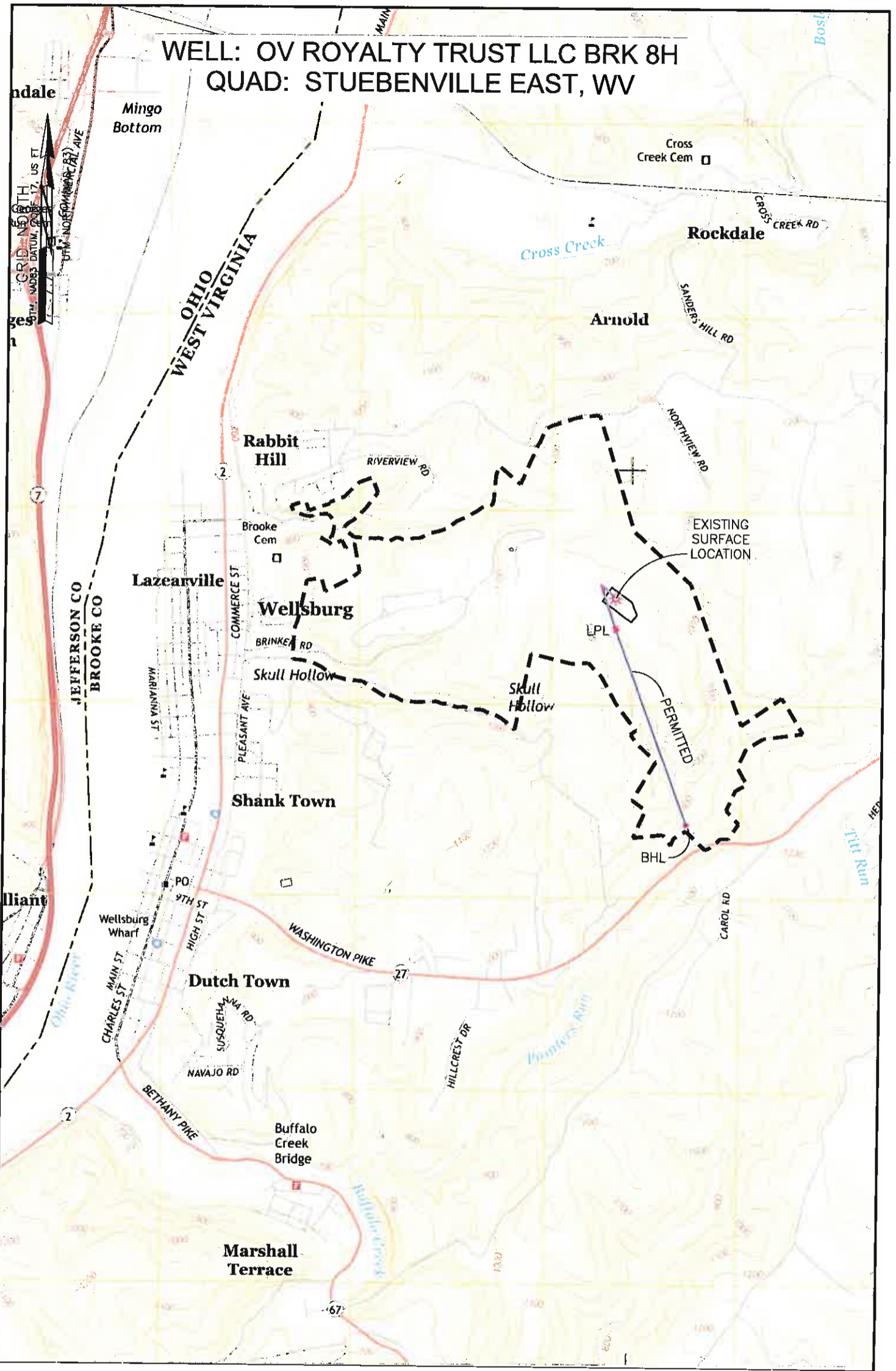
TARGET FORMATION: MARCELLUS DEPTH: 5,777' TVD 9,829' TMD

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

<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	<b>REVISIONS:</b> - - - - - LEASE BOUNDARY - - - - - AS-DRILLED PATH - - - - - PERMITTED DIRECTIONAL PATH	DATE: 08-18-2015 DRAWN BY: S. HUTSON SCALE: 1" = 200' DRAWING NO: 59285 WELL LOCATION PLAT
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**WELL: OV ROYALTY TRUST LLC BRK 8H**  
**QUAD: STUEBENVILLE EAST, WV**



NOTE:  
 THE PROPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS  
 WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY.  
 PROPERTY LINE AND OWNERS WERE OBTAINED FROM VARIOUS FIELD  
 EVIDENCE, TAX RECORDS AND AERIAL MAPPING.

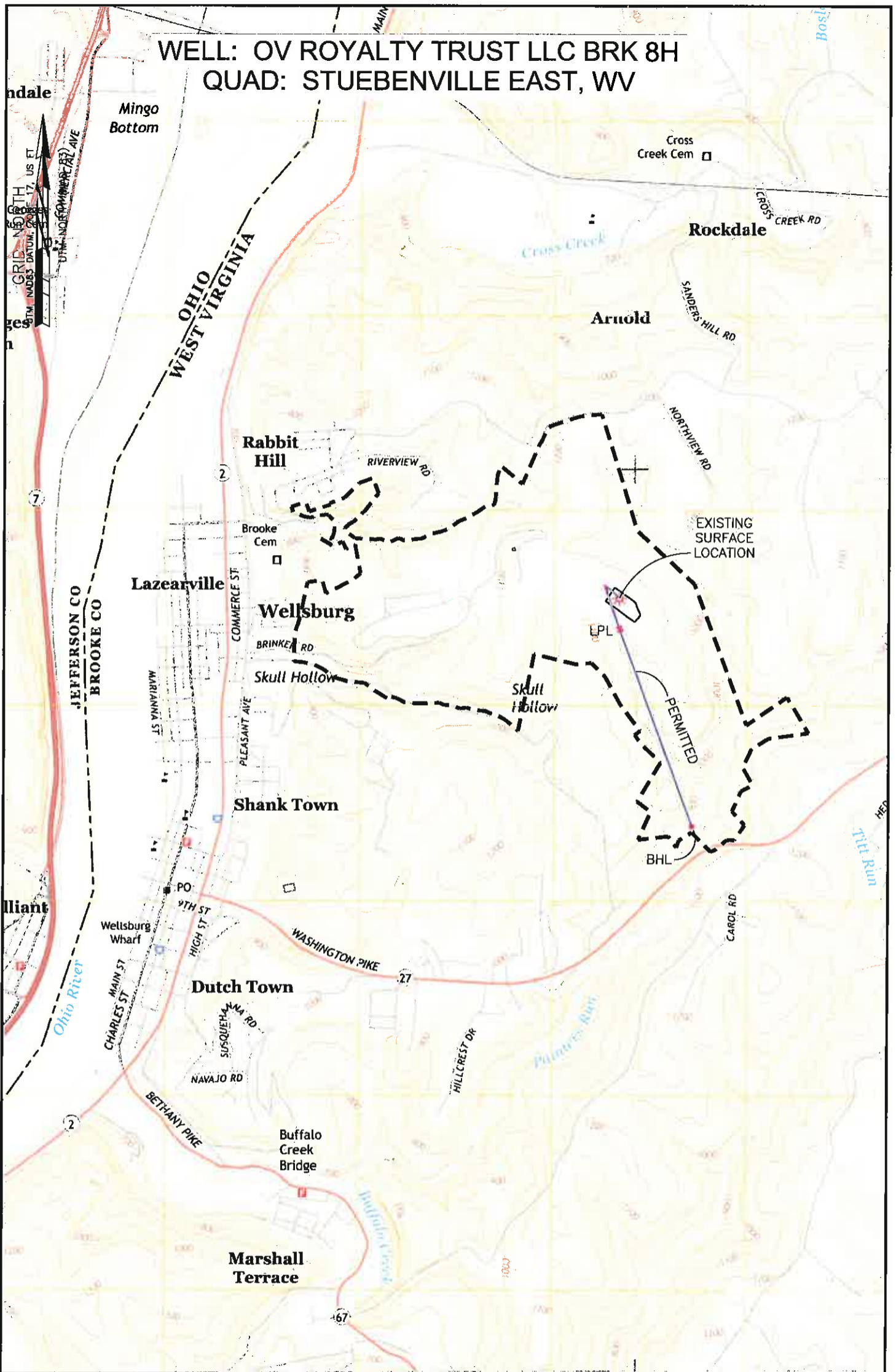
**LEGEND**  
 - - - - - EXTERNAL LEASE LINE

Applicant / Well Operator Name SWN PRODUCTION COMPANY, LLC	Well (Farm) Name OV ROYALTY TRUST LLC BRK	Well # 8H	Serial #
Address PO BOX 1300, JANE LEW, WV 26038	County - Code BROOKE - 09	District CROSS CREEK	
Surface Landowner / Lessor THE TRUST OF GENE VALENTINE	USGS 7 1/2 Quadrangle Map Name STUEBENVILLE EAST, WV		





**WELL: OV ROYALTY TRUST LLC BRK 8H  
 QUAD: STUEBENVILLE EAST, WV**



NOTE:  
 THE PURPOSE OF THIS PLAT IS FOR THE LOCATION OF PROPOSED GAS  
 WELLS AND DOES NOT REPRESENT A CLOSED BOUNDARY SURVEY.  
 PROPERTY LINE AND OWNERS WERE OBTAINED FROM VARIOUS FIELD  
 EVIDENCE, TAX RECORDS AND AERIAL MAPPING.

**LEGEND**  
 - - - - - EXTERNAL LEASE LINE

Applicant / Well Operator Name SWN PRODUCTION COMPANY, LLC	Well (Farm) Name OV ROYALTY TRUST LLC BRK	Well # 8H	Serial #
Address PO BOX 1300, JANE LEW, WV 26038	County - Code BROOKE - 09	District CROSS CREEK	
Surface Landowner / Lessor THE TRUST OF GENE VALENTINE	USGS 7 1/2 Quadrangle Map Name STUEBENVILLE EAST, WV		