

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

API 47-103-02903 County WETZEL District PROCTOR
Quad WILEYVILLE Pad Name RIDGETOP LAND VENTURES-WTZ-PAD1 Field/Pool Name VICTORY
Farm name RIDGETOP CAPITAL, LP Well Number RIDGETOP LAND VENTURES WTZ 201H
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 4,390,723.681 Easting 528,019.422
Landing Point of Curve Northing 4,390,334.347 Easting 527,581.055
Bottom Hole Northing 4,391,131.404 Easting 526,514.943

Elevation (ft) 1436' 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 09/25/2013 Date drilling commenced 03/29/2015 Date drilling ceased 04/20/2015
Date completion activities began 07/24/2015 Date completion activities ceased 08/16/2015
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 345' (BOTTOM) Open mine(s) (Y/N) depths _____ N
Salt water depth(s) ft 1100' (TOP) Void(s) encountered (Y/N) depths _____ N
Coal depth(s) ft 1349.03' TO 2580.48' Cavern(s) encountered (Y/N) depths _____ N
Is coal being mined in area (Y/N) _____ N

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Reviewed by:

DMH
01/08/2016

API 47-103 - 02903 Farm name RIDGETOP CAPITAL, LP Well number RIDGETOP LAND VENTURES WTZ 201H

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	24"	20"	124'	NEW	F-25/94#		Y
Surface	17.5"	13.375"	878'	NEW	J-55/54.5#		Y
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25"	9.625"	3025.57'	NEW	J-55/40#		Y
Intermediate 2							
Intermediate 3							
Production	8.75" TO 8.50"	5.5"	13157'	NEW	HCP-110/20#		Y
Tubing		2.375"	8746.6'	NEW	L-80		N
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT	19.3	1.19	119	SURFACE	24
Surface	CLASS A	772	15.6	1.20	926.4	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	1120	15.6	1.18	1321.6	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	1087/1316	15.6	1.24/1.19	1347.88/1566.04	SURFACE	24
Tubing							

Drillers TD (ft) 13157' Loggers TD (ft) 13157'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6925'

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: 10 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 26 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 194 CENTRALIZERS (66 BOW SPRING, 128 SOLID BODY) - 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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RIDGETOP LAND VENTURES WTZ 201H

EXHIBIT 1

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG	FORMANTION
1	7/24/2015	12,807	13,010	42	MARCELLUS
2	7/25/2015	12,539	12,742	42	MARCELLUS
3	7/25/2015	12,271	12,474	42	MARCELLUS
4	7/26/2015	12,003	12,206	42	MARCELLUS
5	7/26/2015	11,709	11,927	42	MARCELLUS
6	7/26/2015	11,453	11,632	42	MARCELLUS
7	7/26/2015	11,199	11,402	42	MARCELLUS
8	7/27/2015	10,931	11,134	42	MARCELLUS
9	7/27/2015	10,663	10,866	42	MARCELLUS
10	7/27/2015	10,395	10,598	42	MARCELLUS
11	7/30/2015	10,127	10,330	42	MARCELLUS
12	7/31/2015	9,859	10,062	42	MARCELLUS
13	7/31/2015	9,591	9,794	42	MARCELLUS
14	7/31/2015	9,323	9,526	42	MARCELLUS
15	7/31/2015	9,055	9,258	42	MARCELLUS
16	7/31/2015	8,787	8,990	42	MARCELLUS

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EXHIBIT 2

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	7/24/2015	96	8,323	8,828	4,906	394,479	6,433	
2	7/25/2015	99	8,264	8,555	4,904	395,351	6,115	
3	7/25/2015	99	8,294	8,541	5,320	396,369	5,942	
4	7/26/2015	100	8,226	8,536	4,957	391,997	5,807	
5	7/26/2015	97	8,305	8,531	4,772	393,984	7,174	
6	7/26/2015	99	8,412	8,635	4,925	392,729	5,868	
7	7/26/2015	96	8,026	8,244	5,197	397,824	6,922	
8	7/27/2015	99	7,623	8,119	5,078	397,309	5,818	
9	7/27/2015	101	8,090	8,636	4,090	396,626	5,798	
10	7/27/2015	99	8,109	8,904	8,327	389,388	5,882	
11	7/30/2015	98	7,883	8,126	4,620	395,322	7,067	
12	7/31/2015	100	7,834	8,435	4,642	392,625	5,825	
13	7/31/2015	101	7,877	8,660	4,960	391,851	5,779	
14	7/31/2015	99	7,730	8,286	4,787	375,189	5,724	
15	7/31/2015	100	7,650	8,250	4,434	392,641	5,780	
16	7/31/2015	100	7,735	8,320	4,460	394,471	5,809	
Grand Total		99	8,024	8,904	5,024	6,288,155	97,743	

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**RIDGETOP LAND VENTURES WTZ 201H
EXHIBIT 3**

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.	345.00	N.A.	345.00	
Top of Salt Water	1100.00	N.A.	1100.00	N.A.	
Pittsburgh Coal	1348.00	2574.15	1349.03	2580.48	?
Big Injun (ss)	2574.15	3140.76	2580.48	3150.14	?
Berea (siltstone)	3140.76	6750.30	3150.14	7173.27	?
Rhinestreet (shale)	6750.30	7064.26	7173.27	7527.23	?
Cashaqua (shale)	7064.26	7178.24	7527.23	7679.92	?
Middlesex (shale)	7178.24	7265.73	7679.92	7819.76	?
Burket (shale)	7265.73	7290.52	7819.76	7868.55	?
Tully (ls)	7290.52	7311.53	7868.55	7915.45	?
Mahantango (shale)	7311.53	7390.70	7915.45	8492.08	?
Marcellus (shale)	7390.70	N.A.	8492.08	N.A.	?

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/30/2015
Job End Date:	7/31/2015
State:	West Virginia
County:	Wetzel
API Number:	47-103-02903-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	WTZ RIDGETOP LAND VENTURES 201H
Longitude:	-80.69117000
Latitude:	39.66958000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	7,275
Total Base Water Volume (gal):	4,105,206
Total Base Non Water Volume:	0



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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
Water	Operator	Carrier					
			Water	7732-18-5	100.00000	83.46672	
Sand, White, 40/70	Baker Hughes	Proppant					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		9.20014	
Sand, White, 100 mesh	Baker Hughes	Proppant					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		5.69737	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		1.43637	SmartCare Product
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.10183	SmartCare Product
Alpha 1427	Baker Hughes	Biocide					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01043	SmartCare Product
Ferrotrol 300L	Baker Hughes	Iron Control					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00986	SmartCare Product
Scaletrol 720	Baker Hughes	Scale Inhibitor					

			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00945	SmartCare Product
CI-39	Baker Hughes	Corrosion Inhibitor					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00296	
GBW-5	Baker Hughes	Breaker					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00054	SmartCare Product
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Ingredients in Additive (s) (MSDS and non- MSDS)	Baker Hughes	See Trade Name(s) List					
			Crystalline Silica (Quartz)	14808-60-7	100.00000	14.88606	
			Water	7732-18-5	85.00000	1.29716	
			Hydrochloric Acid	7647-01-0	15.00000	0.21529	
			1-Propanesulfonic acid, 2- methyl-2-[(1-oxo-2-propen-1-yl) amino]-, polymer with 2- propenamide, sodium salt	83446-68-8	60.00000	0.06105	
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.03052	
			Citric Acid	77-92-9	60.00000	0.00591	
			Sodium Chloride	7647-14-5	5.00000	0.00518	
			Sorbitan, mono-(9Z)-9- octadecenoate	1338-43-8	5.00000	0.00509	
			Polyoxyethylene sorbitan monooleate	9005-65-6	5.00000	0.00509	
			Oxyalkylated alcohol	78330-21-9	5.00000	0.00509	
			Ethylene Glycol	107-21-1	45.00000	0.00425	
			Glutaraldehyde	111-30-8	30.00000	0.00313	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	20.00000	0.00189	
			Oxyalkylated Fatty Acid	61791-002	40.00000	0.00118	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000	0.00104	
			Tar Bases, Quinoline Derivs., Benzyl Chloride-Quaternized	72480-70-7	30.00000	0.00089	
			Aldehyde	104-55-2	30.00000	0.00089	
			Formic Acid	64-18-6	30.00000	0.00089	
			Quaternary Ammonium Compound	68424-85-1	5.00000	0.00067	
			Ammonium Persulphate	7727-54-0	100.00000	0.00054	
			Ethanol	64-17-5	5.00000	0.00052	
			Calcium Chloride	10043-52-4	5.00000	0.00047	
			Sulfurized polyolefin	68037-13-8	5.00000	0.00015	
			Isopropanol	67-63-0	5.00000	0.00015	
			Potassium Chloride	7447-40-7	1.00000	0.00009	
			Potassium Iodide	7681-11-0	2.00000	0.00006	
			Polyaklylene	7756-94-7	1.00000	0.00003	
			Potassium Acetate	127-08-2	0.50000	0.00001	

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* Total Water Volume sources may include fresh water, produced water, and/or recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

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(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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RETTEW

RETTEW Associates, Inc.
27 Travata Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rette@rettew.com
Website: www.rettew.com

SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,390,723.681
EASTING: 528,019.422

LANDING POINT LOCATION (LPL):

UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,390,334.347
EASTING: 527,581.055

BOTTOM HOLE LOCATION (BHL):

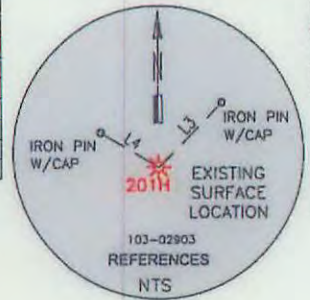
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,391,131.404
EASTING: 526,514.943

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

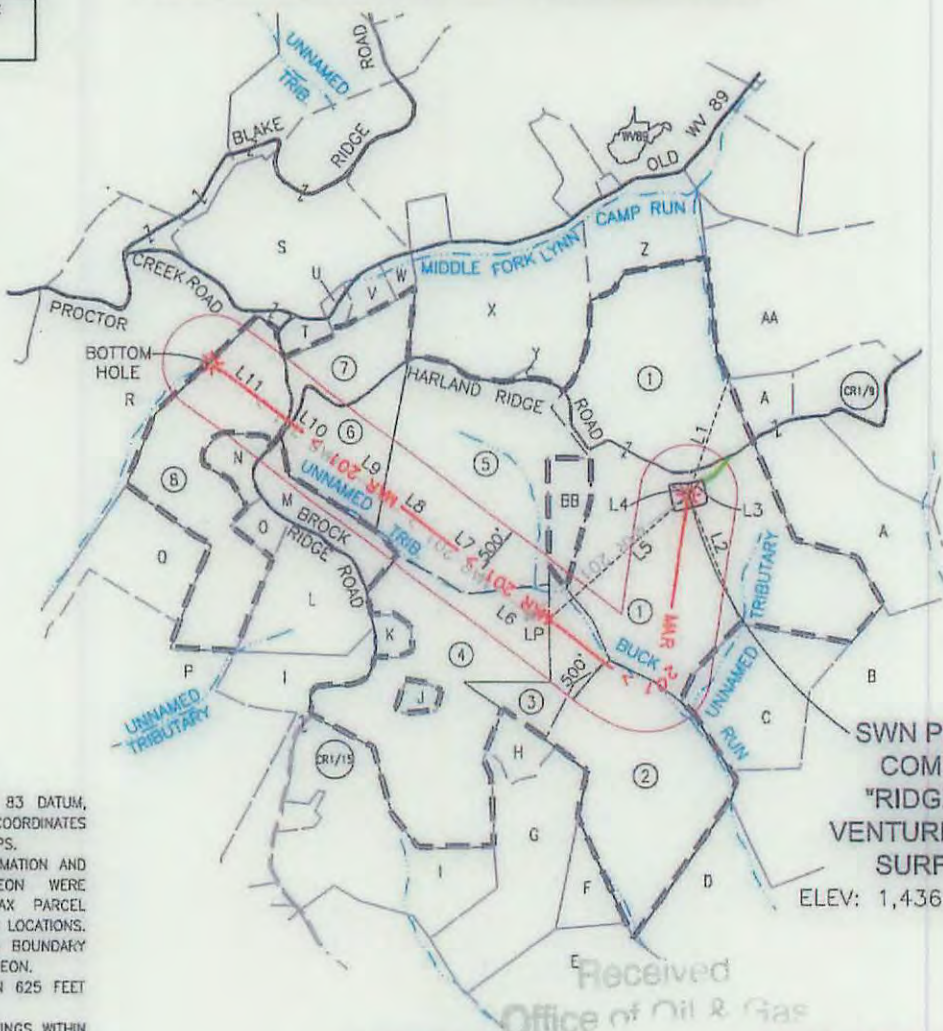
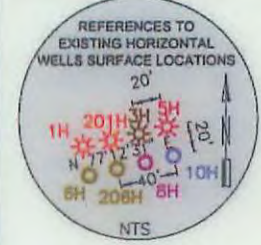
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 19°02'42" E	1255.17'	SHL TO LANDMARK	
L2	S 22°04'34" E	1428.95'	SHL TO LANDMARK	
L3	N 41°08'41" E	217.51'	SHL TO REF. PNT.	1/2"Ø REBAR SET
L4	N 62°58'49" W	189.48'	SHL TO REF. PNT.	1/2"Ø REBAR SET
L5	S 48°23'25" W	1923.55'	SHL TO LP	
L6	N 53°04'46" W	742.83'	AS-DRILLED BORE	
L7	N 53°45'57" W	744.70'	AS-DRILLED BORE	
L8	N 52°54'08" W	742.37'	AS-DRILLED BORE	
L9	N 53°57'39" W	745.30'	AS-DRILLED BORE	
L10	N 52°02'30" W	740.24'	AS-DRILLED BORE	
L11	N 53°35'24" W	652.09'	AS-DRILLED BORE	

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	RIDGETOP CAPITAL, LP (S)	12-14-00250000	±173.00
2	ERICK D. & PHYLLIS BECKER (S)	12-18-00070000	±57.13
3	BRENT PAUL BLAKE, ETAL (S)	12-14-00340000	±18.00
4	BRENT PAUL BLAKE, ETAL (S)	12-14-00320003	±85.96
5	CATHERINE L. & JAMES M. GODDARD (S)	12-14-00230000	±84.00
6	OWEN E. SCHMUCKER (S)	12-14-00220000	±27.14
7	ESTHER LEE, TRUSTEE (S)	12-14-00220001	±17.87
8	JAMES H. FOGG (S)	12-14-00210001	±66.45

SHL
Latitude: 39°40'00"



Longitude: 80°40'00"

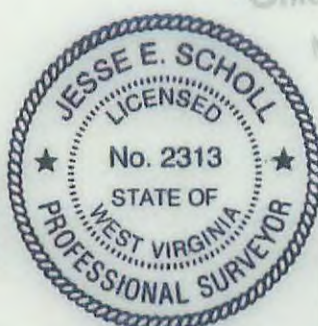


SWN PRODUCTION COMPANY, LLC
"RIDGETOP LAND VENTURES WTZ, 201H"
SURFACE HOLE
ELEV: 1,436.00' (AS-DRILLED)

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 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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.



NOV 20 2015 **AS-DRILLED**

ADJOINING OWNER INFORMATION
(SEE ADJOINING OWNER SHEET)

2000 0 2000

GRAPHIC SCALE IN FEET

P.S. 2313

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

COMPANY: **SWN** Production Company, LLC

RIDGETOP LAND VENTURES WTZ

OPERATOR'S WELL #: 201H

API WELL #: 47 103 02903

STATE COUNTY PERMIT

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

WATERSHED: LITTLE FISHING CREEK ELEVATION: ±1,436.00 (AS-DRILLED)

DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV

SURFACE OWNER: RIDGETOP CAPITAL, LP ACREAGE: ±173.00

OIL & GAS ROYALTY OWNER: RIDGETOP CAPITAL, LP ACREAGE: ±173.00

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: 7,402' TVD 13,157' TMD

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:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	△ ADDED PROPOSED LATERAL 11-05-2015	10-26-2015
⊗ EXISTING / PRODUCING WELLHEAD		
⊘ ABANDONED WELL		
⊗ PLUGGED & ABANDONED WELL		
△ CUT CONDUCTOR		
--- MAR 201 --- PROPOSED DHP		
--- TIE LINE		
--- LEASE BOUNDARY		
--- 500' DHP BUFFER		
--- MAR 201 --- AS-DRILLED DHP		
--- ABANDONED PATH		
		DRAWN BY: B. HERMAN
		SCALE: 1" = 2000'
		DRAWING NO: 087569007
		WELL LOCATION PLAT



RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rettetw@rettetw.com
Website: www.rettetw.com

ADJOINING OWNERS

AS-DRILLED

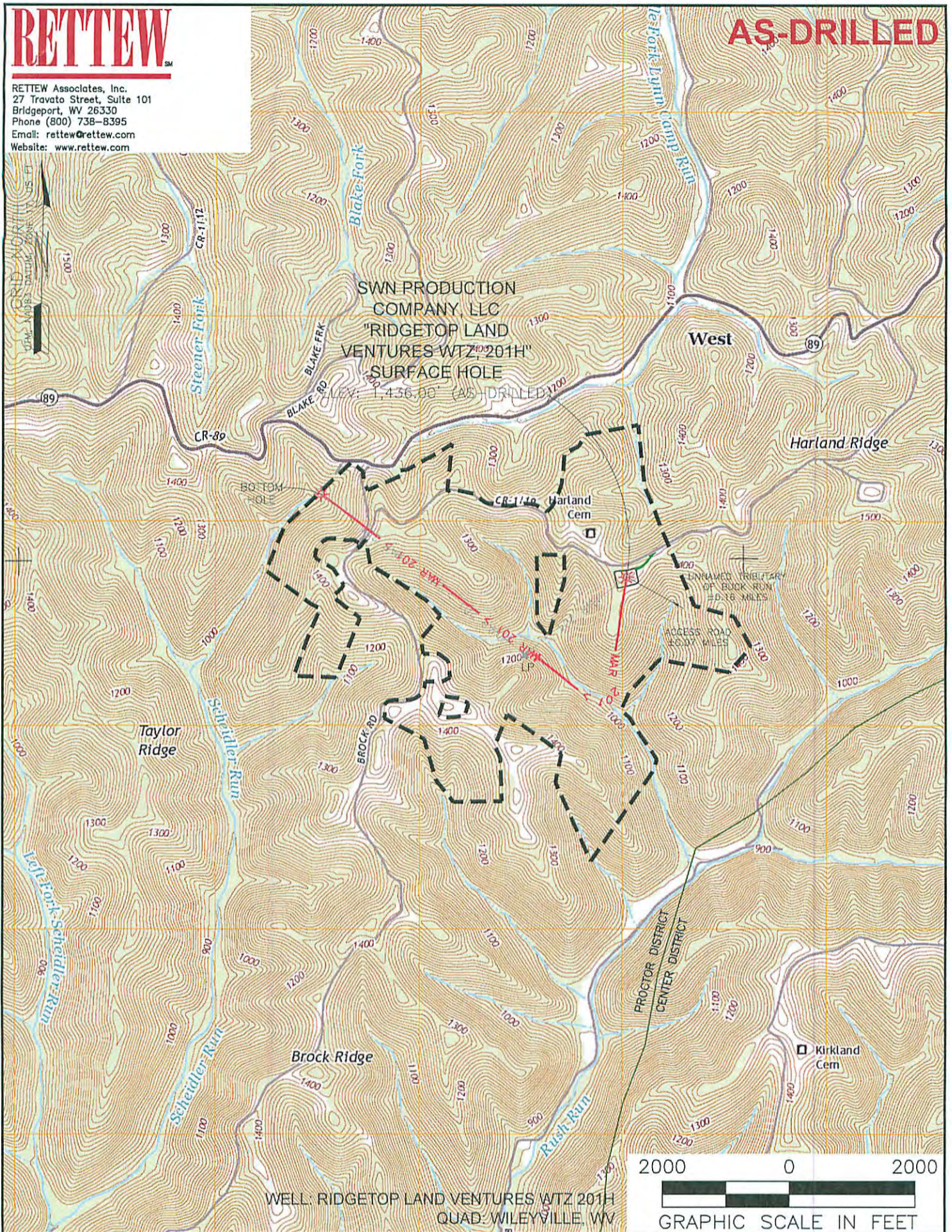
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT

TRACT	ADJOINING PROPERTY OWNERS	TAX PARCEL	ACRES
A	ANTHONY A. & DAVID T. PITOSCIA	12-14-00260000	±66.58
B	ROBERT LEE CECIL	12-15-00330000	±139.04
C	MARY M. DAVIS-BALLOUZ	12-14-00350000	±36.00
D	JIMMY DUKE & VICKY ANN REED	01-09-00030000	±46.70
E	TIMOTHY N. WELLS	12-18-00120000	±78.09
F	BENJAMIN SHANOWER	12-18-00060000	±10.00
G	CONSTANCE A. TAYLOR	12-18-00050000	±43.50
H	CONSTANCE A. TAYLOR	12-14-00330000	±6.25
I	LORRAINE M. CRISP	12-18-00040001	±90.07
J	WALTER R. DICKIE, JR	12-14-00320001	±2.75
K	BRENT PAUL BLAKE	12-14-00320002	±3.23
L	DARLENE ELLEN WOOD & WALTER R. DICKIE, JR	12-14-00210002	±30.00
M	OWEN E. SCHMUCKER	12-14-00210004	±15.00
N	BURL E. & SHIRLEY A. RICHMOND	12-14-00210000	±6.57
O	DAVID L. & CAROLYN S. LONG	12-14-00210003	±5.53
P	LORRAINE M. CRISP	12-14-00310000	±100.38
Q	BUSTER TERRY BLAKE	12-14-00300000	±108.50
R	BUSTER & BARBARA A. BLAKE	12-14-00120001	±134.46
S	CHESAPEAKE APPALACHIA LLC.	12-14-00130000	±85.30
T	QUENTIN ALAN YOCUM, JR	12-14-00220003	±3.21
U	QUENTIN SR & FRANCES YOCUM	12-14-00220002	±1.87
V	JULIE SNIDER	12-14-00220006	±4.67
W	SHERAL ALAN YOCUM	12-14-00220004	±2.38
X	JAMES & JORETTA RITCHEA	12-14-00040000	±62.11
Y	JAMES & JORETTA RITCHEA	12-14-00040002	±0.53
Z	MICHAEL E. & VELVA C. LASURE	12-14-00140000	±25.00
AA	WILLIAM R. PITOSCIA	12-14-00160000	±104.01
BB	CATHERINE L. GODDARD & JAMES M. LEDERGERBER	12-14-00240000	±9.25

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REVISIONS:	COMPANY:		
△ADDED PROPOSED LATERAL 11-05-2015			
	OPERATOR'S RIDGETOP LAND VENTURES WTZ	DATE: 10-26-2015	
	WELL #: 201H	DRAWN BY: B. HERMAN	
	LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	SCALE: N/A	
		DRAWING NO:087569007	
		ADJOINING OWNERS	



WELL: RIDGETOP LAND VENTURES WTZ 201H
 QUAD: WILEYVILLE, WV



NAME AND DISTANCE TO THE NEAREST STREAM: UN NAMED TRIBUTARY TO BUCK RUN IS LOCATED ±0.16 MILES SOUTHEAST OF THE CENTER OF THE DRILL PAD.	STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.
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WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LAGER THAN 2500 SQ FT: >625 FEET
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FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF WETZEL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0250E; EFFECTIVE DATE: SEPTEMBER 25, 2009. NO FLOOD ZONES.
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LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR (S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD
--

COMPANY: 	OPERATOR'S: RIDGETOP LAND VENTURES WTZ WELL #: 201H
LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.665866° LONGITUDE: -80.673336°
BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.669588° LONGITUDE: -80.690859°	REVISIONS: △ ADDED PROPOSED LATERAL 11-05-2015
DATE: 10-26-2015	DRAWN BY: B. HERMAN SCALE: 1" = 2000' DRAWING NO: 087569007 TOPOGRAPHIC MAP

Received
 Office of 01/08/2016
 NOV 20 2015

RETTEW

RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rettetw@rettetw.com
Website: www.rettetw.com

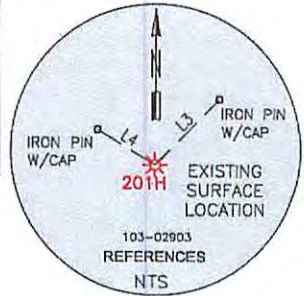
SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,390,723.681 EASTING: 528,019.422
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,390,334.347 EASTING: 527,581.055
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,131.404 EASTING: 526,514.943

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

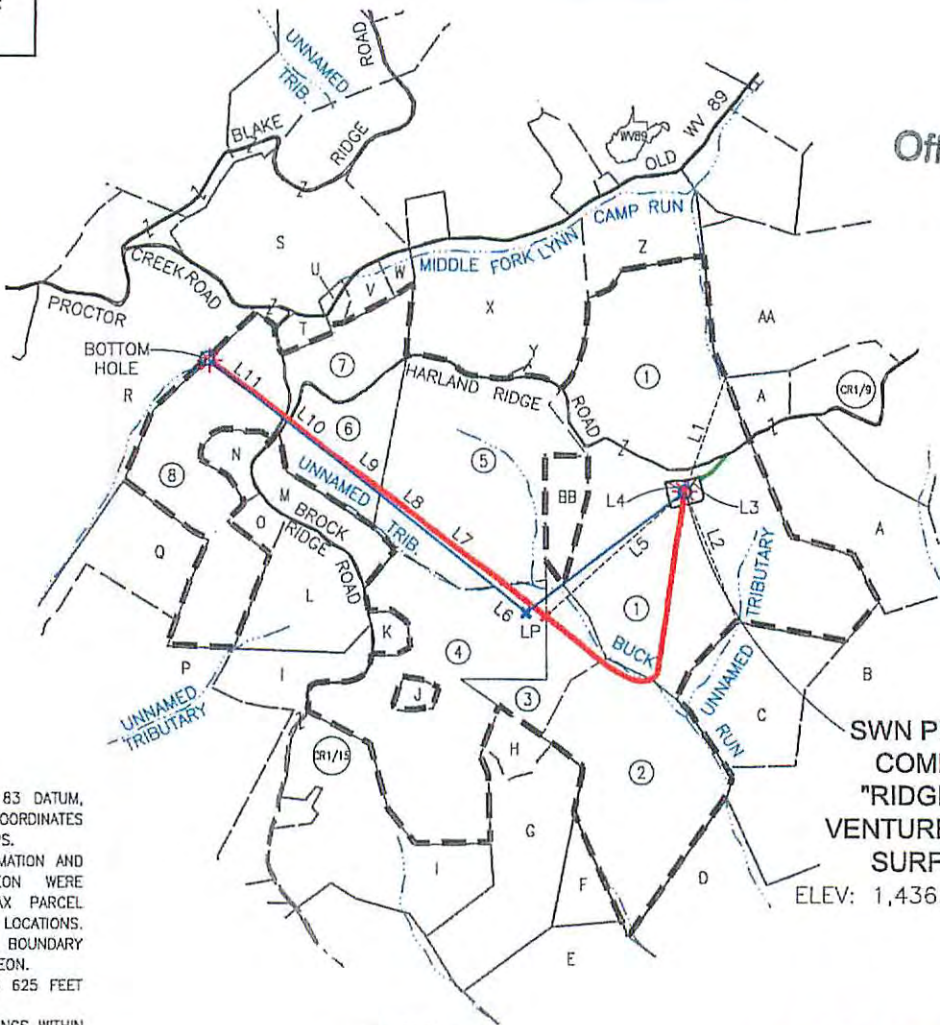
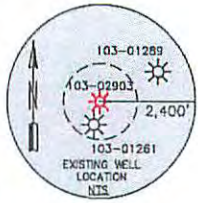
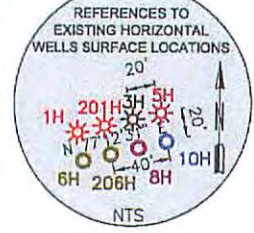
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 19°02'42" E	1255.17'	SHL TO LANDMARK	
L2	S 22°04'34" E	1428.95'	SHL TO LANDMARK	
L3	N 41°08'41" E	217.51'	SHL TO REF. PNT.	1/2" Ø REBAR SET
L4	N 62°58'49" W	189.48'	SHL TO REF. PNT.	1/2" Ø REBAR SET
L5	S 48°23'25" W	1923.55'	SHL TO LP	
L6	N 53°04'46" W	742.83'	AS-DRILLED BORE	
L7	N 53°45'57" W	744.70'	AS-DRILLED BORE	
L8	N 52°54'08" W	742.37'	AS-DRILLED BORE	
L9	N 53°57'39" W	745.30'	AS-DRILLED BORE	
L10	N 52°02'30" W	740.24'	AS-DRILLED BORE	
L11	N 53°35'24" W	652.09'	AS-DRILLED BORE	

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	RIDGETOP CAPITAL, LP (S)	12-14-00250000	±173.00
2	ERICK D. & PHYLLIS BECKER (S)	12-18-00070000	±57.13
3	BRENT PAUL BLAKE, ETAL (S)	12-14-00340000	±18.00
4	BRENT PAUL BLAKE, ETAL (S)	12-14-00320003	±85.96
5	CATHERINE L. & JAMES M. GODDARD (S)	12-14-00230000	±84.00
6	OWEN E. SCHMUCKER (S)	12-14-00220000	±27.14
7	ESTHER LEE, TRUSTEE (S)	12-14-00220001	±17.87
8	JAMES H. FOGG (S)	12-14-00210001	±66.45

SHL
Latitude: 39°40'00"



Longitude: 80°40'00"



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SWN PRODUCTION COMPANY, LLC
"RIDGETOP LAND VENTURES WTZ, 201H"
SURFACE HOLE
ELEV: 1,436.00' (AS-DRILLED)

- 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 CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
 - NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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.



AS-DRILLED

ADJOINING OWNER INFORMATION
(SEE ADJOINING OWNER SHEET)

2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY:
SWN SWN
Production Company, LLC Production Company™

P.S. 2313

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)</p>	<p>RIDGETOP LAND VENTURES WTZ</p> <p>OPERATOR'S WELL #: 201H</p> <p>API WELL #: 47 103 02903</p> <p>STATE COUNTY PERMIT</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: LITTLE FISHING CREEK ELEVATION: ±1,436.00 (AS-DRILLED)</p> <p>DISTRICT: PROCTOR COUNTY: WETZEL QUADRANGLE: WILEYVILLE, WV</p> <p>SURFACE OWNER: RIDGETOP CAPITAL, LP ACREAGE: ±173.00</p> <p>OIL & GAS ROYALTY OWNER: RIDGETOP CAPITAL, LP ACREAGE: ±173.00</p> <p>DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/></p> <p>CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,402' TVD 13,157' TMD</p>	<p>DATE: 10-26-2015</p> <p>DRAWN BY: B. HERMAN</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 087569007</p> <p>WELL LOCATION PLAT</p>

<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>	<p>DESIGNATED AGENT: DEE SOUTHALL</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
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<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR — PROPOSED DHP - - - TIE LINE - - - LEASE BOUNDARY — AS-DRILLED DHP - - - ABANDONED PATH 	<p>REVISIONS:</p> <ul style="list-style-type: none"> △ ADDED PROPOSED LATERAL 11-05-2015 △ REMOVED 500' BUFFER FROM LEGEND 11-16-2015
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ADJOINING OWNERS

RETTEW Associates, Inc.
 27 Travato Street, Suite 101
 Bridgeport, WV 26330
 Phone (800) 738-8395
 Email: retteaw@rettew.com
 Website: www.rettew.com

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

TRACT	ADJOINING PROPERTY OWNERS	TAX PARCEL	ACRES
A	ANTHONY A. & DAVID T. PITOSCIA	12-14-00260000	±66.58
B	ROBERT LEE CECIL	12-15-00330000	±139.04
C	MARY M. DAVIS-BALLOUZ	12-14-00350000	±36.00
D	JIMMY DUKE & VICKY ANN REED	01-09-00030000	±46.70
E	TIMOTHY N. WELLS	12-18-00120000	±78.09
F	BENJAMIN SHANOWER	12-18-00060000	±10.00
G	CONSTANCE A. TAYLOR	12-18-00050000	±43.50
H	CONSTANCE A. TAYLOR	12-14-00330000	±6.25
I	LORRAINE M. CRISP	12-18-00040001	±90.07
J	WALTER R. DICKIE, JR	12-14-00320001	±2.75
K	BRENT PAUL BLAKE	12-14-00320002	±3.23
L	DARLENE ELLEN WOOD & WALTER R. DICKIE, JR	12-14-00210002	±30.00
M	OWEN E. SCHMUCKER	12-14-00210004	±15.00
N	BURL E. & SHIRLEY A. RICHMOND	12-14-00210000	±6.57
O	DAVID L. & CAROLYN S. LONG	12-14-00210003	±5.53
P	LORRAINE M. CRISP	12-14-00310000	±100.38
Q	BUSTER TERRY BLAKE	12-14-00300000	±108.50
R	BUSTER & BARBARA A. BLAKE	12-14-00120001	±134.46
S	CHESAPEAKE APPALACHIA LLC.	12-14-00130000	±85.30
T	QUENTIN ALAN YOCUM, JR	12-14-00220003	±3.21
U	QUENTIN SR & FRANCES YOCUM	12-14-00220002	±1.87
V	JULIE SNIDER	12-14-00220006	±4.67
W	SHERAL ALAN YOCUM	12-14-00220004	±2.38
X	JAMES & JORETTA RITCHEA	12-14-00040000	±62.11
Y	JAMES & JORETTA RITCHEA	12-14-00040002	±0.53
Z	MICHAEL E. & VELVA C. LASURE	12-14-00140000	±25.00
AA	WILLIAM R. PITOSCIA	12-14-00160000	±104.01
BB	CATHERINE L. GODDARD & JAMES M. LEDERGERBER	12-14-00240000	±9.25

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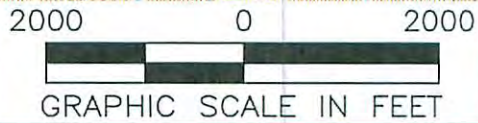
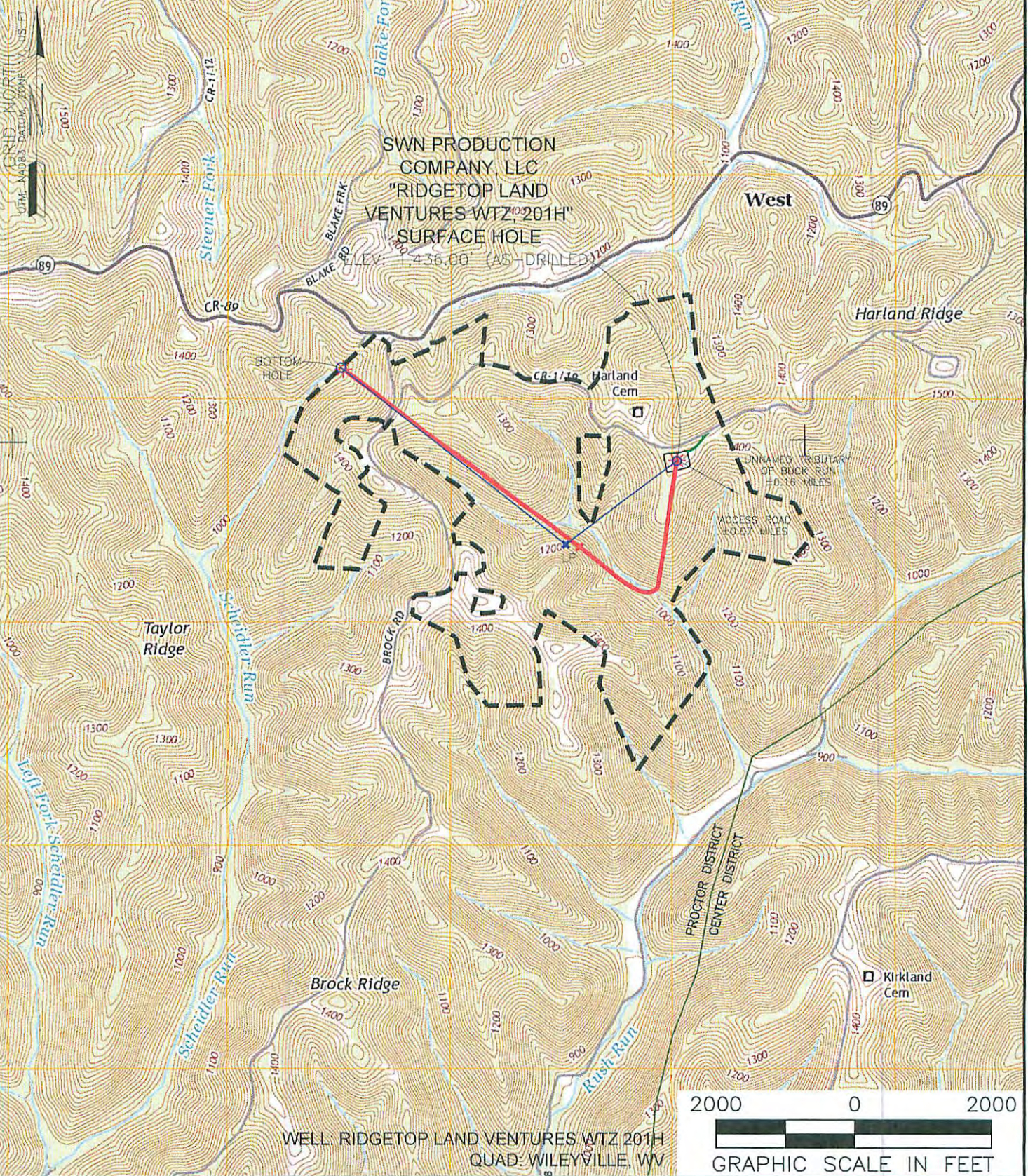
01/08/2016

REVISIONS: ▲ ADDED PROPOSED LATERAL 11-05-2015	COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Production Company, LLC </div> <div style="text-align: center;">  Production Company™ </div> </div>
OPERATOR'S RIDGETOP LAND VENTURES WTZ WELL #: 201H LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	DATE: 10-26-2015 DRAWN BY: B. HERMAN SCALE: N/A DRAWING NO: 087569007 ADJOINING OWNERS

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AS-DRILLED



NAME AND DISTANCE TO THE NEAREST STREAM: UN NAMED TRIBUTARY TO BUCK RUN IS LOCATED ±0.16 MILES SOUTHEAST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: 	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF WETZEL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0250E; EFFECTIVE DATE: SEPTEMBER 25, 2009. NO FLOOD ZONES.		OPERATOR'S RIDGETOP LAND VENTURES WTZ WELL #: 201H LOCATION: PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA SURFACE HOLE LOCATION: Received Office of City & Gas 01/08/2016 GEOGRAPHIC (NAD83): LATITUDE: 39.665866° LONGITUDE: -80.673336° BOTTOM HOLE LOCATION: NOV 20 2015 GEOGRAPHIC (NAD83): LATITUDE: 39.669588° LONGITUDE: -80.690859°	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ☀ EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR — PROPOSED DHP — AS-DRILLED DHP (S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		REVISIONS: △ ADDED PROPOSED LATERAL 11-05-2015		DATE: 10-26-2015 DRAWN BY: B. HERMAN SCALE: 1" = 2000' DRAWING NO: 087569007 TOPOGRAPHIC MAP	