

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

API 47-103-03096 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 1H  
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 4,390,722.300 Easting 528,013.500  
Landing Point of Curve Northing 4,390,528.403 Easting 527,785.554  
Bottom Hole Northing 4,391,370.276 Easting 526,771.048

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 09/26/2012 Date drilling commenced 04/20/2015 Date drilling ceased 05/07/2015  
Date completion activities began 07/19/2015 Date completion activities ceased 08/17/2015  
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 1349.65' TO 2576.50' Cavern(s) encountered (Y/N) depths \_\_\_\_\_ N  
Is coal being mined in area (Y/N) \_\_\_\_\_ N

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Reviewed by:  
DW  
01/08/2016

API 47- 103 - 03096 Farm name RIDGETOP CAPITAL, LP Well number RIDGETOP LAND VENTURES WTZ 1H

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"	122'	NEW	F-25/94#		Y
Surface	17.5"	13.375"	792.80'	NEW	J-55/54.5#		Y
Coal	SEE INTERMEDIATE						
Intermediate 1	12.25"	9.625"	2986.51'	NEW	J-55/40#		Y
Intermediate 2							
Intermediate 3							
Production	8.75"/8.50"	5.5"	12370'	NEW	HCP-110/20#		Y
Tubing		2.375"	8030.6'	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	CLASS A	GROUT	19.3	1.19	119	SURFACE	24
Surface	CLASS A	733	15.6	1.19	872.27	SURFACE	8
Coal	SEE INTERMEDIATE						
Intermediate 1	CLASS A	1130	15.6	1.19	1344.7	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	1089/1109	15.6	1.24/1.19	1350.36/1319.71	SURFACE	24
Tubing							

Drillers TD (ft) 12370' Loggers TD (ft) 12370'  
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 6741'

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 - 1 IN THE MIDDLE (WITH STOP COLLAR) AND TOP OF SHOE JOINT, THEN EVERY 3RD JOINT OF CASING  
 INTERMEDIATE: 24 CENTRALIZERS - 1 IN THE MIDDLE (WITH STOP COLLAR) AND TOP OF SHOE JOINT, THEN EVERY 3RD JOINT OF CASING TO SURFACE, AND 1 ON THE LAST COLLAR IN THE HOLE  
 PRODUCTION: 181 CENTRALIZERS - 1 SOLID BODY CENTRALIZER LOCKED IN AGAINST FLOAT COLLAR, 1 SOLID BODY CENTRALIZER ON EACH JOINT TO 30 DEGREES, 1 BOWSPRING EVERY 3RD JOINT TO SURFACE

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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API 47- 103 - 03096

Farm name RIDGETOP CAPITAL, LP

Well number RIDGETOP LAND VENTURES WTZ 1H

### PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	EXHIBIT	1		

Please insert additional pages as applicable.

### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations 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/other (units)
		SEE	EXHIBIT	2				

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Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>7389.42'</u>	<u>TVD</u>	<u>7833.50'</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 300 psi Bottom Hole 4788 psi DURATION OF TEST N/A hrs

OPEN FLOW Gas 6682 mcfpd Oil 120 bpd NGL \_\_\_\_\_ bpd Water 0 bpd GAS MEASURED BY  Estimated  Orifice  Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H<sub>2</sub>S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	<u>0</u>		<u>0</u>		
	<u>SEE</u>	<u>EXHIBIT</u>	<u>3</u>		

Please insert additional pages as applicable.

Drilling Contractor NOMAC DRILLING  
Address 3400 SOUTH RADIO ROAD City EL RENO State OK Zip 73036

Logging Company SCHLUMBERGER WIRELINE AND TESTING  
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Cementing Company SCHLUMBERGER WELL SERVICES  
Address 110 SCHLUMBERGER DRIVE City SUGAR LAND State TX Zip 77478

Stimulating Company BAKER HUGHES  
Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380

Please insert additional pages as applicable.

Completed by Cody Magby Telephone 832-796-6215  
Signature Cody Magby Title Sr. Regulatory Date 11/19/15

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**Office of Oil & Gas**  
**NOV 20 2015**

NOV 20 2015  
Office of Oil & Gas  
Received

01/08/2016



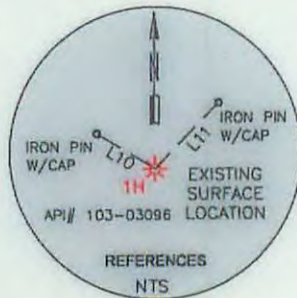


RETTEW Associates, Inc.  
27 Travata Street, Suite 101  
Bridgeport, WV 26330  
Phone (800) 738-8395  
Email: raltew@rettew.com  
Website: www.raltew.com

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

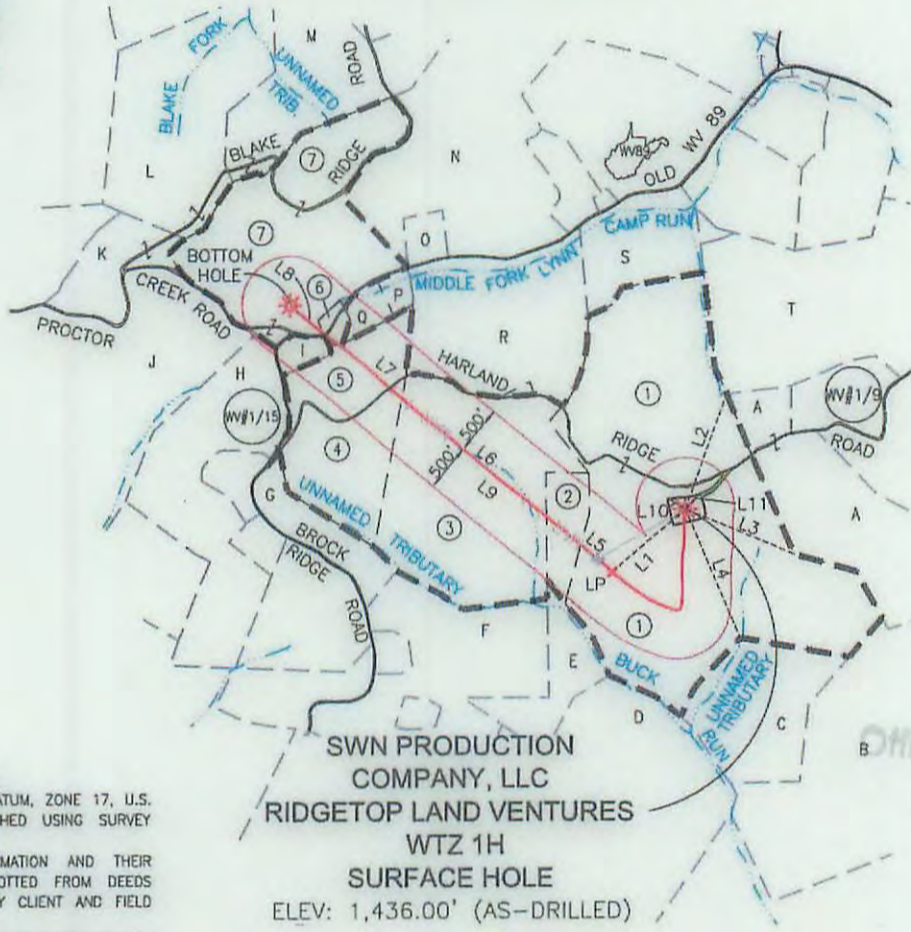
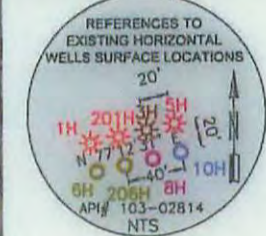
LINE	DESCRIPTION	DISTANCE	DESCRIPTION
L1	S 49°36'52" W	982'	SHL TO LPL
L2	N 19°48'34" E	1,266'	SHL TO LANDMARK
L3	S 67°26'03" E	1,207'	SHL TO LANDMARK
L4	S 22°51'52" E	1,432'	SHL TO LANDMARK
L5	N 50°46'05" W	1,421'	ASDRILLED BORE
L6	N 50°19'53" W	1,042'	ASDRILLED BORE
L7	N 49°13'14" W	1,042'	ASDRILLED BORE
L8	N 50°53'19" W	821'	ASDRILLED BORE
L9	N 50°18'47" W	4,325'	LPL TO BHL
L10	N 59°00'51" W	175'	REBAR
L11	N 43°59'57" E	234'	REBAR

Latitude: 39°40'00" SHL



<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,390,722.300
EASTING: 528,013.500
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,390,528.403
EASTING: 527,785.554
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,391,370.276
EASTING: 526,771.048

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	RIDGETOP CAPITAL, LP (S)	12-14-25	±173.0
2	CATHERINE L. GODDARD & JAMES M. LEDERGERBER (S)	12-14-24	±8.25
3	CATHERINE L. GODDARD & JAMES M. LEDERGERBER (S)	12-14-23	±84.0
4	OWEN E. SCHMUCKER (S)	12-14-22	±27.25
5	T & C TRUST (S)	12-14-22-1	±17.87
6	QUENTIN YOCUM SR. & FRANCES YOCUM (S)	12-14-22-2	±1.87
7	CHESAPEAKE APPALACHIA, LLC. (S)	12-14-13	±85.31



**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.

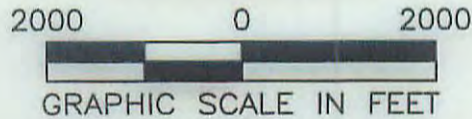
I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2313



**AS-DRILLED**

ADJOINING OWNER INFORMATION  
(SEE ADJOINING OWNER SHEET)



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

RIDGETOP LAND VENTURES WTZ

OPERATOR'S WELL #: 1H

API WELL #: 47 103 03096

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: 7,414' TVD 12,370' 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

LEGEND:  PROPOSED SURFACE HOLE / BOTTOM HOLE  EXISTING / PRODUCING WELLHEAD  ABANDONED WELL  PLUGGED & ABANDONED WELL  CUT CONDUCTOR

— MAR 1 — PROPOSED DHP  
--- TIE LINE  
--- LEASE BOUNDARY  
--- 500' DHP BUFFER  
--- AS-DRILLED DHP  
--- ABANDONED PATH

REVISIONS:  
▲ ADDED PROPOSED LATERAL 11-05-2015

DATE: 10-21-2015  
SHEET: 1 OF 3  
DRAWN BY: J. ROSS  
SCALE: 1" = 2000'  
DRAWING NO: 087569007  
WELL LOCATION PLAT



CUI CONDUCTOR  
 ABANDONED & ABANDONED WELL  
 EXISTING \ PRODUCING WELTHED  
 PROPOSED SURFACE HOLE \ BOTTOM HOLE

LEGEND:

WELL LOCATION PLAN  
 DRAWING NO: 0823289003  
 SCALE: 1" = 5000'  
 DRAWN BY: T. ROSS  
 SHEET: 1 OF 3  
 DATE: 10-31-2012

CITY: YANE LEW STATE: WA ZIP CODE: 98238  
 ADDRESS: P.O. BOX 1300  
 WELL OPERATOR: SMW PRODUCTION COMPANY, LLC  
 DESIGNATED AGENCY: DEE SOUTHMT

TARGET FORMATION: MARCELLUS  
 ESTIMATED DEPTH: 2'41', LVD 15'230, LMD

CONNECTION:  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) WS-DRILLED  
 DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORM NEW FORMATION   
 OIL & GAS ROYALTY OWNER: RIDGETOP SURFACE, LP  
 SURFACE OWNER: RIDGETOP SURFACE, LP  
 DISTRICT: PROCTOR COUNTY: WELZEL  
 WATERSHED: TULLE FISHING CREEK  
 WELL TYPE: OIL  AVERAGE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHUTTOW

CHARLESTON, WA 52034  
 801 21TH STREET  
 OFFICE OF OIL & GAS  
 WADEP

ELEVATION: (NAD 88' US FT)  
 SOURCE OF GRADE GAS PROVEN  
 ACCURACY: 1/500

WPI WELL #: 47 STATE: WA COUNTY: PERMIT: 103 03088  
 OPERATOR'S WELL #: 1H  
 RIDGETOP LAND VENTURES WLTS



UNLTD STATES TOPOGRAPHIC MAPS  
 (+) DENOTES LOCATION OF WELL ON MINIMUM

ELEVATION: (NAD 88' US FT)  
 SOURCE OF GRADE GAS PROVEN  
 ACCURACY: 1/500

WPI WELL #: 47 STATE: WA COUNTY: PERMIT: 103 03088  
 OPERATOR'S WELL #: 1H  
 RIDGETOP LAND VENTURES WLTS

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 REGULATIONS ISSUED AND PRESCRIBED BY THE  
 THE INFORMATION REQUIRED BY LAW AND  
 MY KNOWLEDGE AND BELIEF AND SHOWS WIT  
 THAT THIS PLAN IS CORRECT TO THE BEST OF  
 THE UNDERSIGNED HEREBY CERTIFY



Production Company, LLC Production Company, Inc

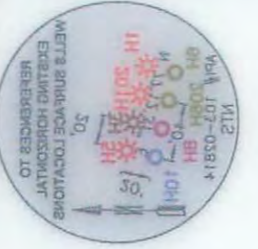
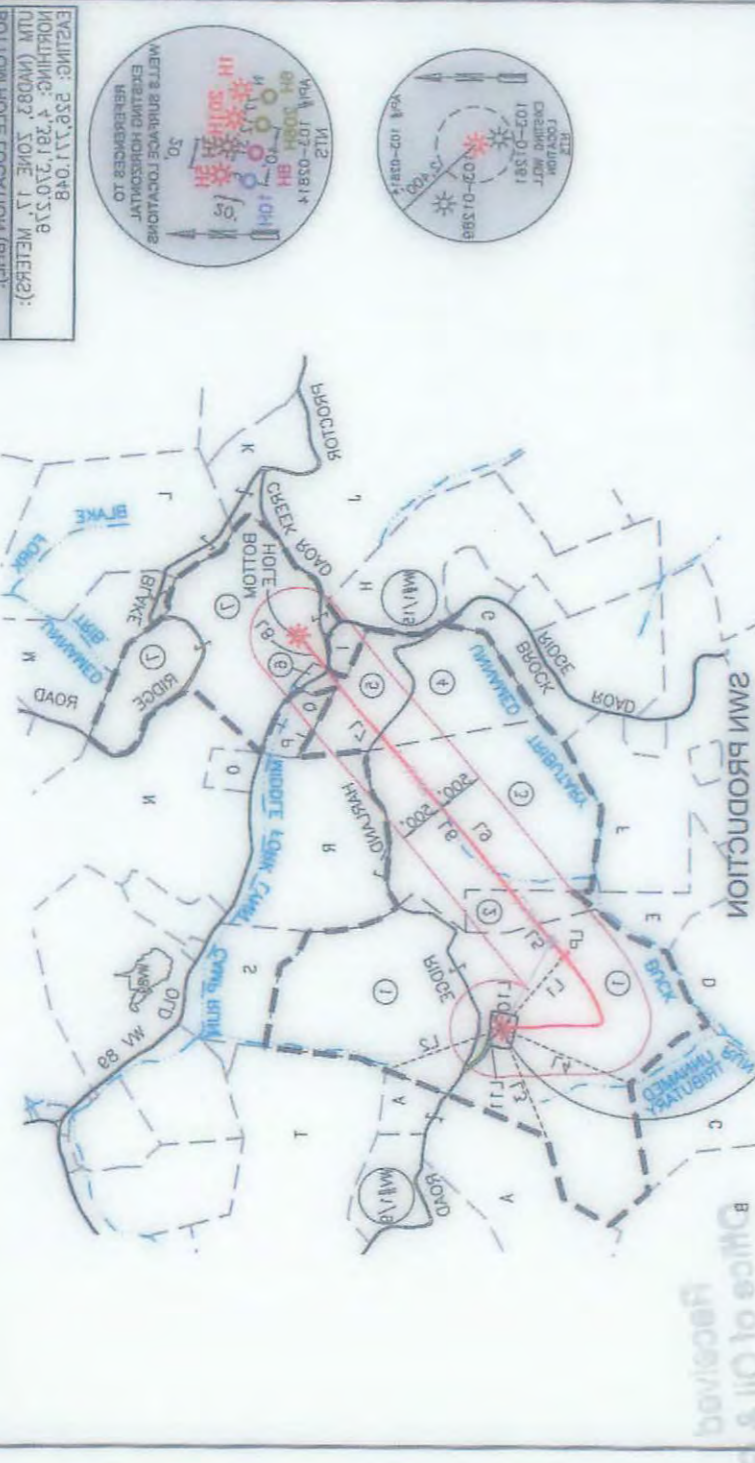
**SMW** **SMU**

GRAPHIC SCALE IN FEET  
 0 5000

(SEE ADJOINING OWNER SHEET)  
 ADJOINING OWNER INFORMATION  
**WS-DRILLED**

- NO NATURALITY, PRODDING, TROUT STREAM WITHIN 300 FEET OF WELTHEDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR OTHER PROPOSED WELLS
- NO OTHER WELLS OR DEVELOPED SPRINGS WITHIN 300 FEET OF CENTER OF WPI
- NO DWELTHEDS AND BUILDINGS WITHIN 625 FEET OF PROPOSED SURFACE SHOW HEREON
- THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE LOCATION
- NO/NOX TAX PARCELS PROVIDED BY CLIENT AND FIELD BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR ADDRESS AND
- LOCAL AND WELL COORDINATES ESTABLISHED USING SURVEY CONTROL AND WELL SYSTEM IS PLAN AND BY DRYLUM ZONE 1A, 1B

NOTES ON SURVEY

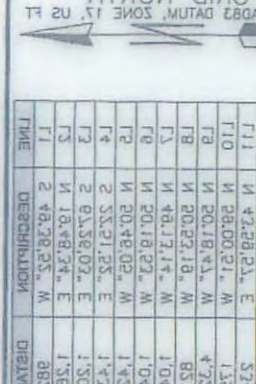


EVSING: 258°21.048  
 NORTHLING: 4°281,210,218  
 PLM (NAD83, ZONE 1A, METERS):  
 EVSING: 251°389,224  
 NORTHLING: 4°280,258,403  
 PLM (NAD83, ZONE 1A, METERS):  
 PLMIDIN: 258°01,3,200  
 NORTHLING: 4°280,255,200  
 PLM (NAD83, ZONE 1A, METERS):  
 SURFACE HOLE LOCATION (SHL):

LINE	DESCRIPTION	DISTANCE	DESCRIPTION	DISTANCE
F11	N 43.28, 2.3, E	524	REBEYS	
F10	N 28.00, 2.1, W	132	REBEYS	
F9	N 20.18, 4.3, W	47352	LP TO BH1	
F8	N 20.23, 1.8, W	831	VDRIPTED BORE	
F7	N 48.13, 1.4, W	1045	VDRIPTED BORE	
F6	N 20.18, 2.3, W	1045	VDRIPTED BORE	
F5	N 20.48, 0.8, W	1431	VDRIPTED BORE	
F4	S 33.27, 1.25, E	1431	SH TO LINDAVYRK	
F3	S 20.58, 0.7, E	1503	SH TO LINDAVYRK	
F2	N 18.48, 3.4, E	1588	SH TO LINDAVYRK	
F1	S 48.28, 2.5, W	883	SH TO TP1	



WWW.RETFLOW.COM  
 PHONE: 800-228-8282  
 BRIDGEPORT, WA 99220  
 23 TORONTO SQUARE SUITE 101  
 WELLEN WASHINGTON, INC



Longitude: 80.40.00, 1882







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

ADJOINING OWNERS

TRACT	ADJOINING SURFACE OWNER	TAX PARCEL	ACRES
A	ANTHONY A PITOSIA & DAVID T. PITOSCIA	12-14-26	±66.58
B	ROBERT LEE CECIL	12-15-33	±139.0
C	MARY M. BALLOUZ DAVIS	12-14-35	±36.0
D	ERICK D. & PHYLLIS BECKER	12-18-7	±57.13
E	PAUL BRENT BLAKE, ET AL	12-14-34	±18.0
F	PAUL BRENT BLAKE, ET AL	12-14-32-3	±85.96
G	OWEN E. SCHMUCKER	12-14-21-4	±15.0
H	JAMES H. FOGG	12-14-21-1	±66.44
I	ALAN QUENTIN YOCUM, JR.	12-14-22-3	±3.21
J	BUSTER & BARBARA A. BLAKE	12-14-12-1	±134.5
K	SHEILA K. WHITE	12-14-12-4	±18.35
L	ROBERT C. & DENISE M. PENDLEBURY	12-14-3	±67.50
M	NORMAN E. KEENEY, JR. & NANCY M. KEENEY	12-09-45	±113.4
N	RONNIE E. & YVONNE M. WADE	12-14-4-1	±94.37
O	RONNIE E. & YVONNE M. WADE	12-14-4-4	±5.00
P	ALAN SHERAL YOCUM	12-14-22-4	±2.38
Q	JULIE SNIDER	12-14-22-6	±4.67
R	JAMES & JORETTA RITCHEA	12-14-40	±62.11
S	MICHAEL E. & VELVA C. LASURE	12-14-14	±25.00
T	WILLIAM R. PITOSCIA	12-14-16	±104.0

01/08/2016

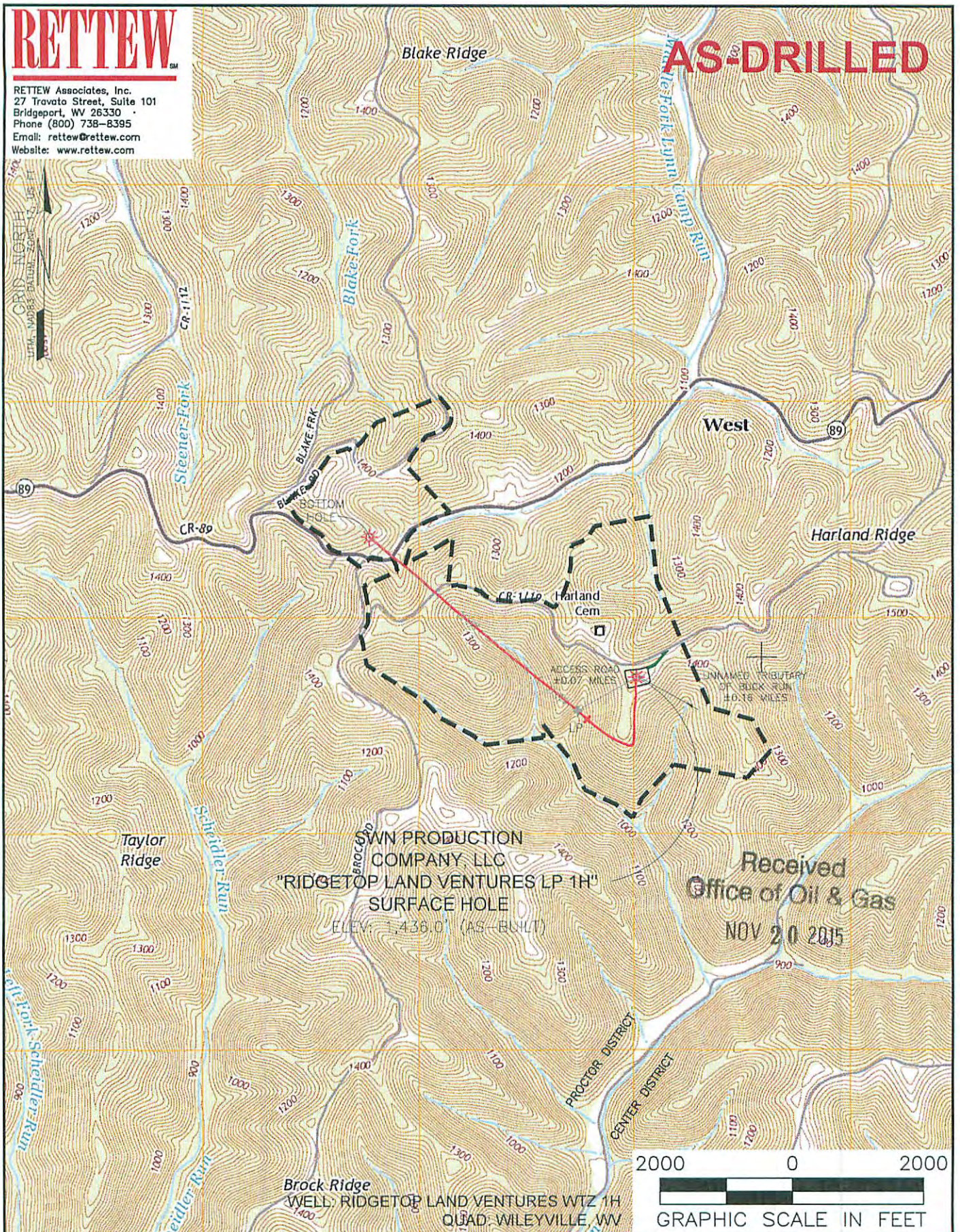
REVISIONS:	COMPANY:	 	
△ ADDED PROPOSED LATERAL 11-05-2015			
	OPERATOR'S	RIDGETOP LAND VENTURES WTZ	DATE: 10-26-2015
	WELL #:	1H	SHEET: 2 OF 3
	LOCATION:	PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	DRAWN BY: J. ROSS
			SCALE: NTS
			DRAWING NO:087569007
			ADJOINING OWNERS



# RETTEW

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

## AS-DRILLED



<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> AN UNNAMED TRIBUTARY TO BUCK RUN IS LOCATED 853 FEET SE SOUTHEAST OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> NO NEW CROSSINGS.		<b>COMPANY:</b> 	
<b>WELL RESTRICTIONS:</b> 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		<b>OPERATOR'S</b> RIDGETOP LAND VENTURES WTZ <b>WELL #:</b> 1H		<b>LOCATION:</b> PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	
<b>FEMA FLOOD INFORMATION:</b> PER FEMA TILE 54051C0250E, EFFECTIVE DATE SEPTEMBER 25, 2009, NO FLOOD ZONES		<b>SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 39.665854° LONGITUDE: -80.673405°		<b>BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 39.671732° LONGITUDE: -80.687864°	
<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD * ABANDONED WELL * PLUGGED & ABANDONED WELL △ CUT CONDUCTOR - - - MAR - - - PROPOSED DHP - - - AS-DRILLED DHP - - - LEASE BOUNDARY - - - ACCESS ROAD - - - ACCESS ROAD TO PREV. SITE - - - HIGHWAY/INTERSTATE - - - COUNTY ROAD		<b>REVISIONS:</b> △ ADDED PROPOSED LATERAL 11-05-2015		<b>DATE:</b> 10-26-2015 <b>3 OF 3</b> <b>DRAWN BY:</b> J. ROSS <b>SCALE:</b> 1" = 2000' <b>DRAWING NO:</b> 087569007 <b>TOPOGRAPHIC MAP</b>	

01/08/2016





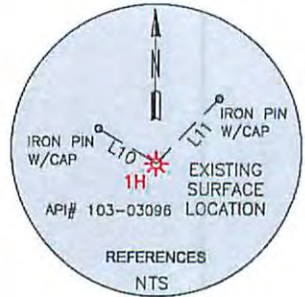
RETTEW Associates, Inc.  
27 Travato Street, Suite 101  
Bridgeport, WV 26330  
Phone (800) 738-8395  
Email: rettew@rettew.com  
Website: www.rettew.com

<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,390,722.300 EASTING: 528,013.500
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,390,528.403 EASTING: 527,785.554
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,391,370.276 EASTING: 526,771.048

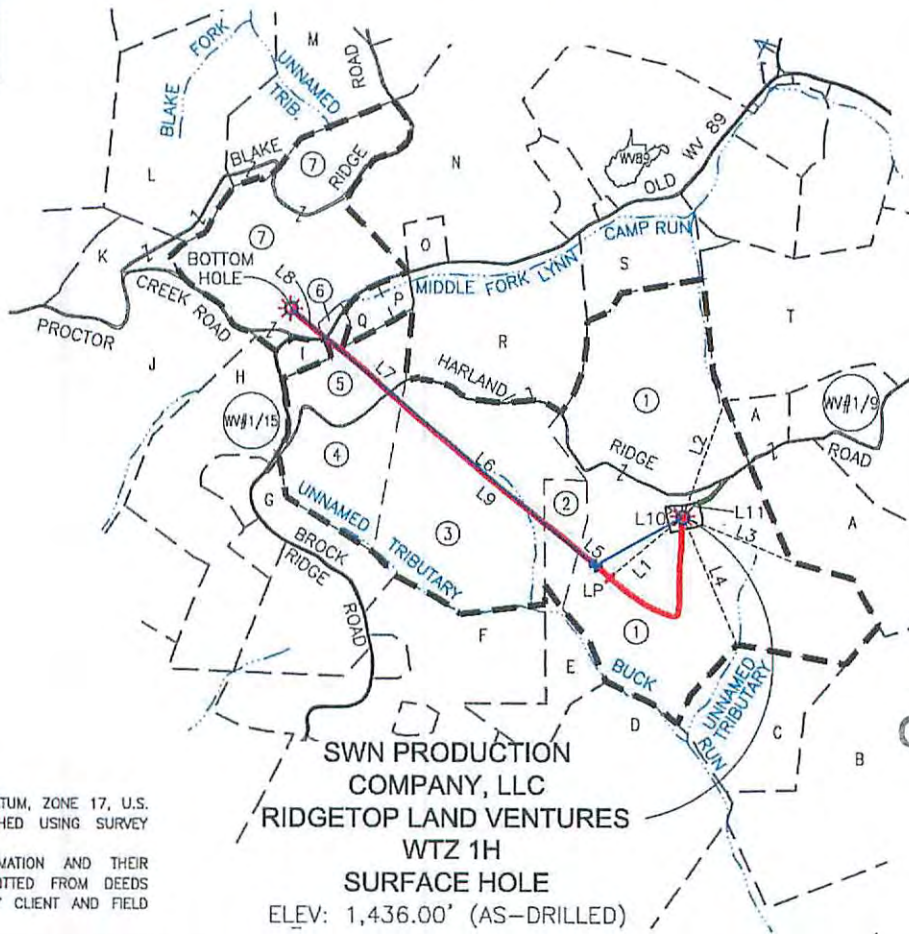
GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

LINE	DESCRIPTION	DISTANCE	DESCRIPTION
L1	S 49°36'52" W	982'	SHL TO LPL
L2	N 19°48'34" E	1,266'	SHL TO LANDMARK
L3	S 67°26'03" E	1,207'	SHL TO LANDMARK
L4	S 22°51'52" E	1,432'	SHL TO LANDMARK
L5	N 50°46'05" W	1,421'	ASDRILLED BORE
L6	N 50°19'53" W	1,042'	ASDRILLED BORE
L7	N 49°13'14" W	1,042'	ASDRILLED BORE
L8	N 50°53'19" W	821'	ASDRILLED BORE
L9	N 50°18'47" W	4,325'	LPL TO BHL
L10	N 59°00'51" W	175'	REBAR
L11	N 43°59'57" E	234'	REBAR

Latitude: 39°40'00" SHL



TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	RIDGETOP CAPITAL, LP (S)	12-14-25	±173.0
2	CATHERINE L. GODDARD & JAMES M. LEDERGERBER (S)	12-14-24	±8.25
3	CATHERINE L. GODDARD & JAMES M. LEDERGERBER (S)	12-14-23	±84.0
4	OWEN E. SCHMUCKER (S)	12-14-22	±27.25
5	T & C TRUST (S)	12-14-22-1	±17.87
6	QUENTIN YOCUM SR. & FRANCES YOCUM (S)	12-14-22-2	±1.87
7	CHESAPEAKE APPALACHIA, LLC. (S)	12-14-13	±85.31



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

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**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.

P.S. 2313



**AS-DRILLED**

ADJOINING OWNER INFORMATION  
(SEE ADJOINING OWNER SHEET)

2000 0 2000



GRAPHIC SCALE IN FEET

COMPANY:

SWN

SWN<sup>R2-V+0</sup><sub>A</sub>

Production Company, LLC Production Company™



(+) 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)

RIDGETOP LAND VENTURES WTZ  
OPERATOR'S WELL #: 1H  
API WELL #: 47 103 03096  
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: WILEVILLE, 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: 7,414' TVD 12,370' TMD

01/08/2016

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>	<b>REVISIONS:</b>	<b>DATE:</b> 10-21-2015
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	△ ADDED PROPOSED LATERAL 11-05-2015	SHEET: 1 OF 3
✱ EXISTING / PRODUCING WELLHEAD	△ REMOVED 500' BUFFER FROM LEGEND 11-16-2015	DRAWN BY: J. ROSS
○ ABANDONED WELL		SCALE: 1" = 2000'
✱ PLUGGED & ABANDONED WELL		DRAWING NO: 087569007
△ CUT CONDUCTOR		WELL LOCATION PLAT





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

ADJOINING OWNERS

TRACT	ADJOINING SURFACE OWNER	TAX PARCEL	ACRES
A	ANTHONY A PITOSIA & DAVID T. PITOSCIA	12-14-26	±66.58
B	ROBERT LEE CECIL	12-15-33	±139.0
C	MARY M. BALLOUZ DAVIS	12-14-35	±36.0
D	ERICK D. & PHYLLIS BECKER	12-18-7	±57.13
E	PAUL BRENT BLAKE, ET AL	12-14-34	±18.0
F	PAUL BRENT BLAKE, ET AL	12-14-32-3	±85.96
G	OWEN E. SCHMUCKER	12-14-21-4	±15.0
H	JAMES H. FOGG	12-14-21-1	±66.44
I	ALAN QUENTIN YOCUM, JR.	12-14-22-3	±3.21
J	BUSTER & BARBARA A. BLAKE	12-14-12-1	±134.5
K	SHEILA K. WHITE	12-14-12-4	±18.35
L	ROBERT C. & DENISE M. PENDLEBURY	12-14-3	±67.50
M	NORMAN E. KEENEY, JR. & NANCY M. KEENEY	12-09-45	±113.4
N	RONNIE E. & YVONNE M. WADE	12-14-4-1	±94.37
O	RONNIE E. & YVONNE M. WADE	12-14-4-4	±5.00
P	ALAN SHERAL YOCUM	12-14-22-4	±2.38
Q	JULIE SNIDER	12-14-22-6	±4.67
R	JAMES & JORETTA RITCHEA	12-14-40	±62.11
S	MICHAEL E. & VELVA C. LASURE	12-14-14	±25.00
T	WILLIAM R. PITOSCIA	12-14-16	±104.0

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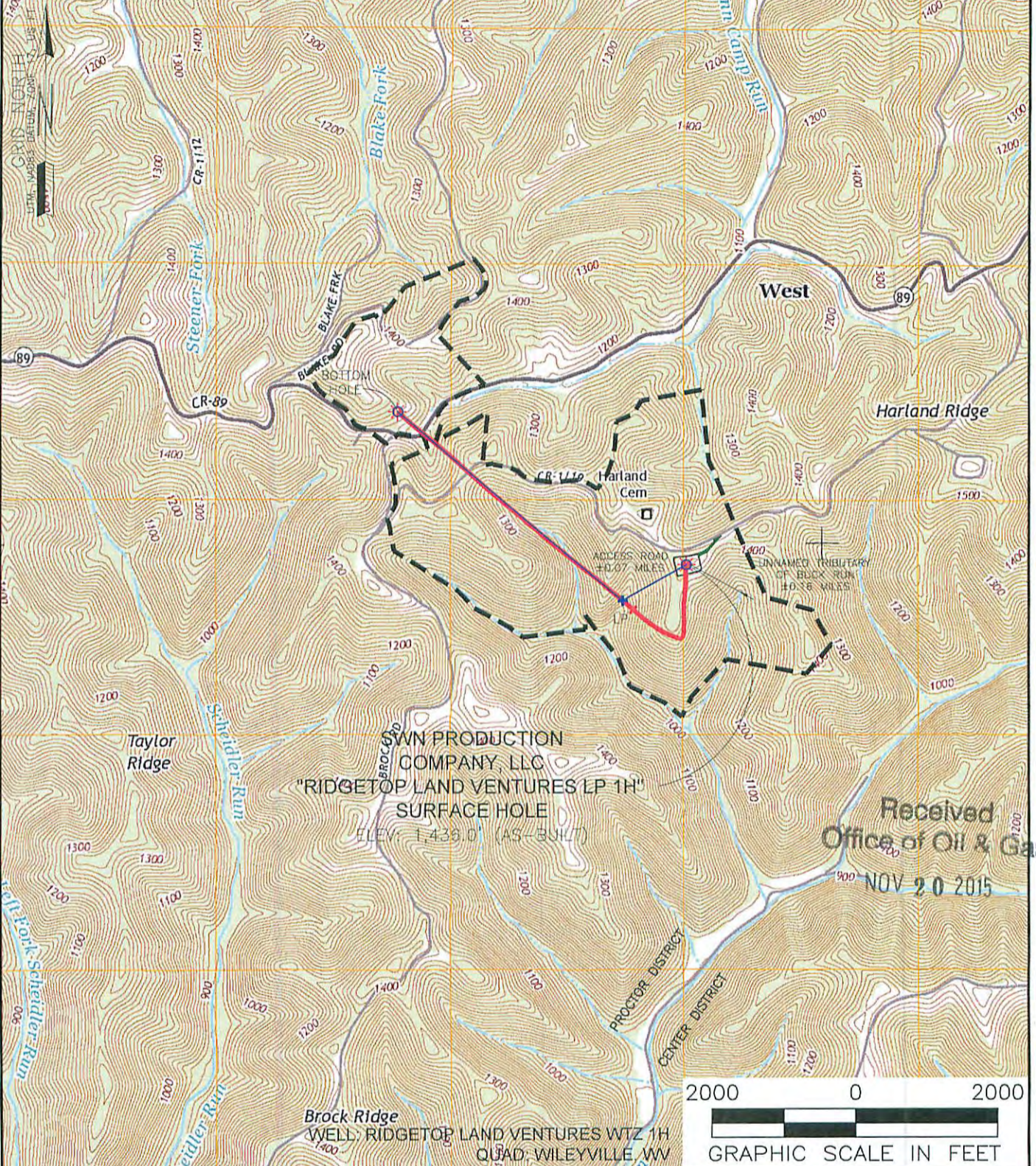
REVISIONS:	COMPANY:	 	
△ ADDED PROPOSED LATERAL 11-05-2015			
	OPERATOR'S	RIDGETOP LAND VENTURES WTZ	DATE: 10-26-2015
	WELL #:	1H	SHEET: 2 OF 3
	LOCATION:	PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	DRAWN BY: J. ROSS
			SCALE: NTS
			DRAWING NO:087569007
			ADJOINING OWNERS



# RETTEW

RETTEW Associates, Inc.  
 27 Travato Street, Suite 101  
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 Website: www.rettetw.com

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<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> AN UNNAMED TRIBUTARY TO BUCK RUN IS LOCATED 853 FEET± SOUTHEAST OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> NO NEW CROSSINGS.		<b>COMPANY:</b> 	
<b>WELL RESTRICTIONS:</b> 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		<b>OPERATOR'S</b> RIDGETOP LAND VENTURES WTZ <b>WELL #:</b> 1H		<b>LOCATION:</b> PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA	
<b>FEMA FLOOD INFORMATION:</b> PER FEMA TILE 54051C0250E, EFFECTIVE DATE SEPTEMBER 25, 2009, NO FLOOD ZONES		<b>SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 39.665854° LONGITUDE: -80.673405°		<b>BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 39.671732° LONGITUDE: -80.687864°	
<b>LEGEND:</b> 		<b>REVISIONS:</b> Δ ADDED PROPOSED LATERAL 11-05-2015		<b>DATE:</b> 10-26-2015 3 OF 3 <b>DRAWN BY:</b> J. ROSS <b>SCALE:</b> 1" = 2000' <b>DRAWING NO:</b> 087569007 <b>TOPOGRAPHIC MAP</b>	

01/08/2016



**RIDGETOP LAND VENTURES WTZ 1**

**EXHIBIT 1**

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG	FORMATION
1	7/19/2015	12,027	12,219	42	MARCELLUS
2	7/19/2015	11,763	11,963	42	MARCELLUS
3	7/20/2015	11,499	11,699	42	MARCELLUS
4	7/20/2015	11,235	11,435	42	MARCELLUS
5	7/20/2015	10,971	11,171	42	MARCELLUS
6	7/20/2015	10,707	10,907	42	MARCELLUS
7	7/21/2015	10,443	10,643	42	MARCELLUS
8	7/21/2015	10,179	10,379	42	MARCELLUS
9	7/21/2015	9,915	10,115	42	MARCELLUS
10	7/21/2015	9,651	9,851	42	MARCELLUS
11	7/21/2015	9,387	9,587	42	MARCELLUS
12	7/22/2015	9,123	9,323	42	MARCELLUS
13	7/22/2015	8,859	9,059	42	MARCELLUS
14	7/23/2015	8,595	8,795	42	MARCELLUS
15	7/23/2015	8,331	8,531	42	MARCELLUS
16	7/23/2015	8,067	8,267	42	MARCELLUS

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**RIDGETOP LAND VENTURES WTZ 1**

**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/ other
1	7/19/2015	101	8,138	8,708	4,684	485,518	7,490	
2	7/19/2015	100	8,181	9,183	4,929	502,697	7,336	
3	7/20/2015	100	8,058	8,400	4,880	502,435	7,176	
4	7/20/2015	101	8,099	8,707	5,184	503,999	7,205	
5	7/20/2015	102	7,983	8,383	5,024	502,615	7,228	
6	7/20/2015	100	7,759	8,513	4,734	501,666	7,709	
7	7/21/2015	102	7,798	8,502	4,482	504,079	7,178	
8	7/21/2015	102	7,725	8,167	5,201	501,433	7,030	
9	7/21/2015	101	7,730	8,137	5,197	500,723	7,071	
10	7/21/2015	101	7,790	8,709	5,026	472,913	6,773	
11	7/21/2015	101	7,527	7,948	4,994	503,504	7,519	
12	7/22/2015	102	7,510	8,208	4,742	501,452	6,963	
13	7/22/2015	101	7,561	8,450	4,760	491,214	6,811	
14	7/23/2015	102	7,193	7,881	5,041	506,427	7,191	
15	7/23/2015	100	7,429	9,343	5,386	500,550	7,165	
16	7/23/2015	100	7,511	7,888	5,505	504,240	7,129	
<b>Grand Total</b>		<b>101</b>	<b>7,750</b>	<b>9,343</b>	<b>4,986</b>	<b>7,985,465</b>	<b>114,974</b>	

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**RIDGETOP LAND VENTURES WTZ 1H  
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	1349.60	2576.31	1349.65	2576.50	?
Big Injun (ss)	2576.31	3135.76	2576.50	3136.00	?
Berea (siltstone)	3135.76	6738.72	3136.00	6900.10	?
Rhinstreet (shale)	6738.72	7054.54	6900.10	7238.27	?
Cashaqua (shale)	7054.54	7173.07	7238.27	7388.55	?
Middlesex (shale)	7173.07	7259.60	7388.55	7522.82	?
Burket (shale)	7259.60	7284.35	7522.82	7565.58	?
Tully (ls)	7284.35	7306.07	7565.58	7605.68	?
Mahantango (shale)	7306.07	7389.42	7605.68	7833.50	?
Marcellus (shale)	7389.42	N.A.	7833.50	N.A.	?

*drilling*

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/30/2015
Job End Date:	7/23/2015
State:	West Virginia
County:	Wetzel
API Number:	47-103-03096-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	RIDGETOP LAND VENTURES WTZ 1H
Longitude:	-80.68736000
Latitude:	39.67124000
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	7,299
Total Base Water Volume (gal):	4,189,332
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
Water	Operator	Carrier					
			Water	7732-18-5	100.00000	82.60053	
Sand, White, 40/70	Baker Hughes	Proppant					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		9.58565	
Sand, White, 100 mesh	Baker Hughes	Proppant					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		6.41162	
HCl, 10.1 - 15%	Baker Hughes	Acidizing					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		1.22154	SmartCare Product
MaxPerm-20A, 265 gallon tote	Baker Hughes	Friction Reducer					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.09202	SmartCare Product
Alpha 1427	Baker Hughes	Biocide					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00966	SmartCare Product
Scaletrol 720	Baker Hughes	Scale Inhibitor					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00912	SmartCare Product
Ferrotrol 300L	Baker Hughes	Iron Control					



			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00838	SmartCare Product
CI-39	Baker Hughes	Corrosion Inhibitor					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00252	
GBW-5	Baker Hughes	Breaker					
			MSDS and Non-MSDS Ingredients Listed Below	N/A		0.00142	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	15.98614	
			Water	7732-18-5	85.00000	1.10750	
			Hydrochloric Acid	7647-01-0	15.00000	0.18310	
			1-Propanesulfonic acid, 2- methyl-2-[(1-oxo-2-propen-1-yl) amino]-, polymer with 2- propenamide, sodium salt	83446-68-8	60.00000	0.05517	
			Hydrotreated Light Distillate	64742-47-8	30.00000	0.02759	
			Citric Acid	77-92-9	60.00000	0.00502	
			Sodium Chloride	7647-14-5	5.00000	0.00469	
			Oxyalkylated alcohol	78330-21-9	5.00000	0.00460	
			Sorbitan, mono-(9Z)-9- octadecenoate	1338-43-8	5.00000	0.00460	
			Polyoxyethylene sorbitan monooleate	9005-65-6	5.00000	0.00460	
			Ethylene Glycol	107-21-1	45.00000	0.00410	
			Glutaraldehyde	111-30-8	30.00000	0.00290	
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9	20.00000	0.00182	
			Ammonium Persulphate	7727-54-0	100.00000	0.00142	
			Oxyalkylated Fatty Acid	61791-002	40.00000	0.00101	
			Didecyl Dimethyl Ammonium Chloride	7173-51-5	10.00000	0.00097	
			Formic Acid	64-18-6	30.00000	0.00076	
			Aldehyde	104-55-2	30.00000	0.00076	
			Tar Bases, Quinoline Derivs., Benzyl Chloride-Quaternized	72480-70-7	30.00000	0.00076	
			Quaternary Ammonium Compound	68424-85-1	5.00000	0.00061	
			Ethanol	64-17-5	5.00000	0.00048	
			Calcium Chloride	10043-52-4	5.00000	0.00046	
			Isopropanol	67-63-0	5.00000	0.00013	
			Sulfurized polyolefin	68037-13-8	5.00000	0.00013	
			Potassium Chloride	7447-40-7	1.00000	0.00009	
			Potassium Iodide	7681-11-0	2.00000	0.00005	
			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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