



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

October 23, 2015

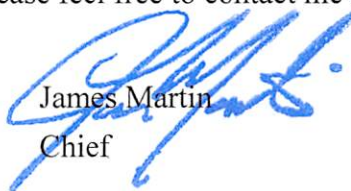
WELL WORK PERMIT
Rework/Horizontal 6A Well

This permit, API Well Number: 47-5101308, issued to SWN PRODUCTION COMPANY, LLC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 831314 ROBERT BONNETTE 6H
Farm Name: BONNETTE, ROBERT & LINDA

API Well Number: 47-5101308

Permit Type: Rework/Horizontal 6A Well

Date Issued: 10/23/2015

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
2. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
3. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
4. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: SWN Production Co., LLC

<u>494512924</u>	<u>51-Marshall</u>	<u>5-Meade</u>	<u>681- Wileyville</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: Bonnette MSH 6H Well Pad Name: Bonnette MSH Pad

3) Farm Name/Surface Owner: Robert and Linda Bonnette Public Road Access: Fish Creek

4) Elevation, current ground: 1457' Elevation, proposed post-construction: 1457'

5) Well Type (a) Gas Oil _____ Underground Storage _____
Other Re-frac

(b) If Gas Shallow Deep _____
Horizontal _____

6) Existing Pad: Yes or No yes

Handwritten signature and date: 10/14/15

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target Formation- Marcellus, Target Top TVD- 7074', Target Base TVD- 8024', Anticipated Thickness- 50', Associated Pressure- 4739

8) Proposed Total Vertical Depth: 7166'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 11599'

11) Proposed Horizontal Leg Length: 4179'

12) Approximate Fresh Water Strata Depths: 395'

13) Method to Determine Fresh Water Depths: from log analysis and nearby water wells

14) Approximate Saltwater Depths: None

15) Approximate Coal Seam Depths: 375'

16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No X

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	J-55	94#	80'	80'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	1231'	1231'	448 sx/CTS
Coal	9 5/8"	New	J-55	40#	2888'	2888'	1279sx/CTS
Intermediate	7"	New	P-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	P-110	20#	11,599'	11,599'	2799 sx/100' inside intermediate
Tubing	2 3/8"	New	P-110	4.7#	Approx. 7420'	Approx. 7420'	
Liners							

per 10/14/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

PACKERS

Kind:	10K Arrowset AS1-X			
Sizes:	5 1/2"			
Depths Set:				

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

None. We will be temporarily isolating existing perforations in the horizontal section of the wellbore. The chemical used to isolate the perforations is degradable at subsurface conditions and will decay then flowback with time. New perforations will be created and stimulated in addition to those existing.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13.4

22) Area to be disturbed for well pad only, less access road (acres): 11.6

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

See Attachment ***

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

Received
Office of Oil & Gas
AUG 26 2015

*Note: Attach additional sheets as needed.

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

Farm name: Bonnette 6H Operator Well No.: 831314

LOCATION: Elevation: 1,457' Quadrangle: Wileyville

District: Meade County: Marshall
Latitude: 1,025' Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 13,700' Feet West of 80 Deg. 42 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
P.O. Box 18496 Oklahoma City, OK 73154-0496	20"	80'	80'	Driven
Agent: Eric Gillespie	13 3/8"	1231'	1231'	448 Cu. Ft.
Inspector: Bill Hatfield	9 5/8"	2888'	2888'	1279 Cu. Ft.
Date Permit Issued: 9-18-2009	5 1/2"	11599'	11599'	2799 Cu. Ft.
Date Well Work Commenced: 7-2-2011				
Date Well Work Completed: 7-31-2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft): 7166'				
Total Measured Depth (ft): 11599'				
Fresh Water Depth (ft.): 395'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 375'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 7,335'-11,458'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,253* MCF/d Final open flow 76 Bbl/d
Time of open flow between initial and final tests 139 Hours *Calculated
Static rock Pressure 4,654* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8/3/2012
Date

Were core samples taken? Yes _____ No _____

Were cuttings caught during drilling? Yes _____ No _____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list _____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):


<u>Formations Encountered:</u>	<u>Top Depth</u>	<u>/</u>	<u>Bottom Depth</u>
<u>Surface:</u>			

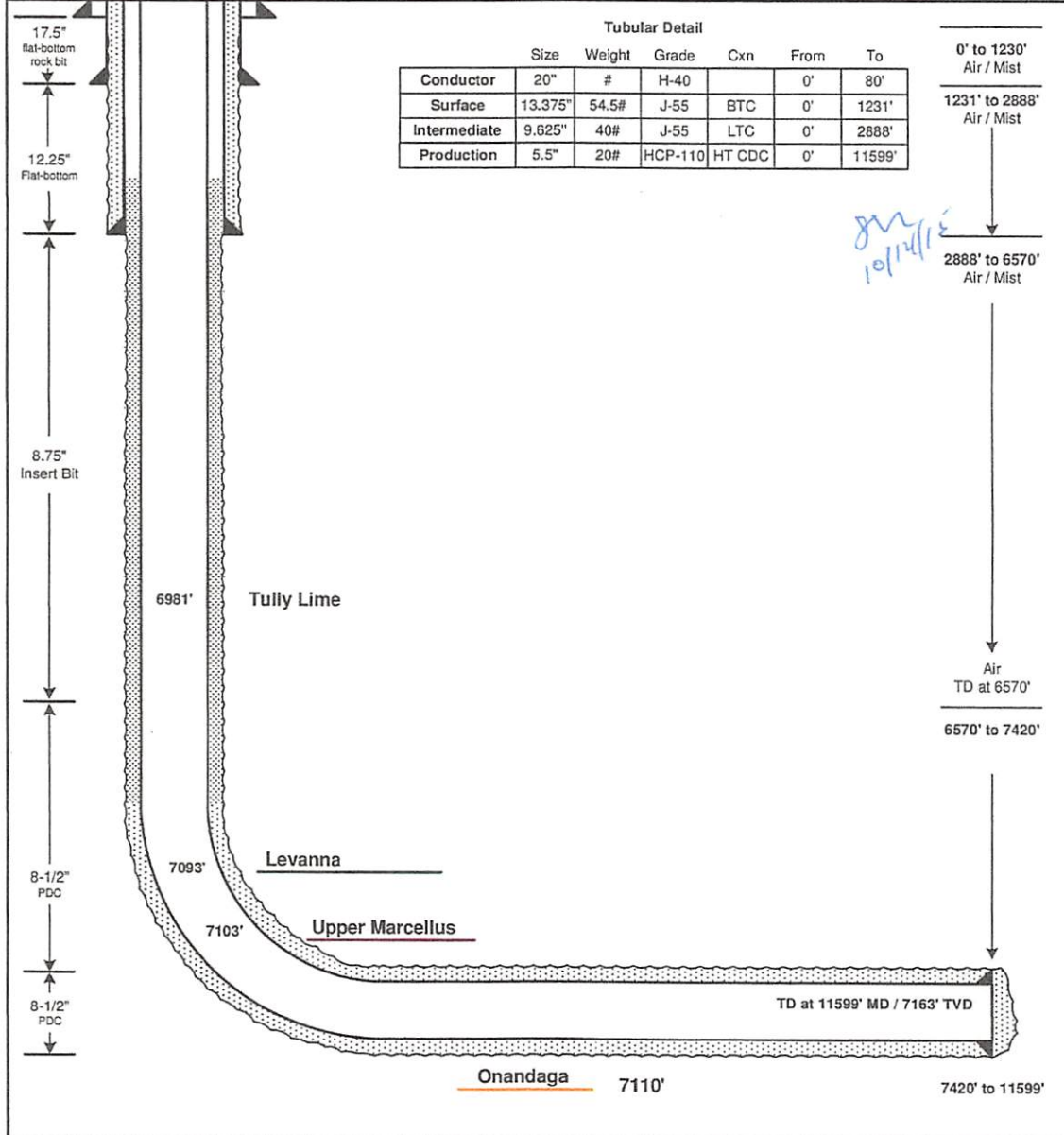
(See Attached)

HORIZONTAL WELL (No pilot hole associated with this pad)				
Maximum TVD of wellbore:	7166 ft TVD @ 11599 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/SS	0	0	36	36
SHALE	36	36	130	130
SHALE/LS	130	130	200	200
LS/SHALE	200	200	340	340
SHALE/LS	340	340	434	434
SHALE/SS	434	434	470	470
LS/SS	470	470	548	548
SHALE/SS	548	548	600	600
SS/LS	600	600	650	650
SS/SHALE	650	650	697	697
SHALE/SS	697	697	800	800
SS	800	800	850	850
SS/SHALE	850	850	900	900
SS	900	900	950	950
SS/LS	950	950	1006	1006
LS/SHALE	1006	1006	1070	1070
LS	1070	1070	1080	1080
LS/SHALE	1080	1080	1100	1100
COAL	1100	1100	1108	1108
LS/SHALE	1108	1108	1238	1238
LS	1238	1238	1330	1330
LS/SS	1330	1330	1400	1400
LS/SS	1400	1400	1500	1500
SHALE/SS	1500	1500	1550	1550
SS/SHALE	1550	1550	1626	1626
SHALE/SS	1626	1626	1650	1650
LS/SHALE	1650	1650	1716	1716
LS/SS	1716	1716	1740	1740
SS/LS	1740	1740	1750	1750
SS/SHALE	1750	1750	1794	1794
SS	1794	1794	1812	1812
SS/SHALE	1812	1812	2000	2000
LS/SHALE	2000	2000	2052	2052
SHALE/SS	2052	2052	2100	2100
SS/SHALE	2100	2100	2200	2200
SHALE/SS	2200	2200	2250	2250
LS/SHALE	2250	2250	2350	2350
LS/SS	2350	2350	2405	2405
SS/SHALE	2405	2405	2466	2466
SS	2466	2466	2530	2530

SS/SHALE	2530	2530	2560	2560
SS/LS	2560	2560	2572	2572
SS/SHALE	2572	2572	2620	2620
SHALE/LS	2620	2620	6604	6603
SHALE/LS	6604	6603	6642	6641
LS/SHALE	6642	6641	6704	6703
SHALE	6704	6703	6750	6747
LS/SHALE	6750	6747	6850	6838
SHALE	6850	6838	6900	6884
LS/SHALE	6900	6884	7011	6962
Tully	7011	6962	7059	6992
Hamilton	7059	6992	7236	7066
Marcellus	7236	7066	7291	7080
Purcell	7291	7080	7306	7083
LS/SHALE	7306	7083	7600	7094
SHALE/LS	7600	7094	8106	7108
SHALE	8106	7108	8300	7112
SHALE/LS	8300	7112		
End of Well			11599	7166

SI-01308RW

Southwestern Energy Company		As Drilled WBD	
Well	: BONNETTE 6	Re-entry Rig	: Nomac 242
Field	: VICTORY FIELD	Prospect	: VICTORY
County	: MARSHALL	State	: WV
SHL	: 39.7215201 Latitude -80.711841 Longitude		
BHL	: 39.71237348 Latitude -80.70030643 Longitude		
KB Elev	: 1473 ft MSL		



Data source: K:\EandP\WVD\Team Data\Drilling\Wells\Bonnette Pad\BONNETTE 6H\Drilling Program\Master SWN Well Input Sheet v E-0-1.xlsm

NOTE: This drawing was created for the Reentry Rig. The depths and lengths shown in the plot are referenced to Reentry Rig RKB.

WW-9
(9/13)

API Number 47 - 51 - _____
Operator's Well No. Bonnette MSH 6H

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name SWN Production Co., LLC OP Code 494512924

Watershed (HUC 10) Whetstone Creek Quadrangle 681-Wileyville

Elevation 1429.6' County 51-Marshall District 5- Meade

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill.

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317)
- Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum.)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility.)

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air and salt saturate mud

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? see attached sheets

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? meadow SWF- 1032, SS Grading SWF- 4902, Northwestern SWF- 1025, Short Creek 1034/WW0109517/CID28726, Carbon Limestone 28726/CID28726

Arden Landfill 10072, American 02-12954, Country Wide 38390/CID38390, Pine Grove 13688

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature _____

Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

Received
Office of Oil & Gas

Subscribed and sworn before me this 11th day of August, 20 15 AUG. 26 2015

Dee M. Cox Notary Public

My commission expires 12-9-2022

05 10 13 08

05 10 13 08

Form WW-9

Operator's Well No. Bonnette MSH 6H

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 18.4 Prevegetation pH _____

Lime as determined by pH test min. 2 _____ Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
White Grove	15	White Grove	15
Red Top	15	Red Top	15
Orchard Grass	20	Orchard Grass	20

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: *James W. ...*
Comments: _____

Received
Office of Oil & Gas
AUG 26 2015

Title: Oil and Gas Inspector

Date: 8/19/15

Field Reviewed? () Yes () No

10/23/2015

05 10 13 08

**Marcellus Well Drilling Procedures
And Site Safety Plan**

SWN Production Co., LLC

47 - 051 - 01308

Well name: Bonnette MSH 6H
Wileyville, Quad
Meade, District
Marshall County, West Virginia

Submitted by:

7/15/2015

Danielle Southall

Date:

Title Regulatory Supervisor

SWN Production Co., LLC

Approved by:

Date:

~~8/19/15~~ 8/19/15

Title: _____

Approved by:

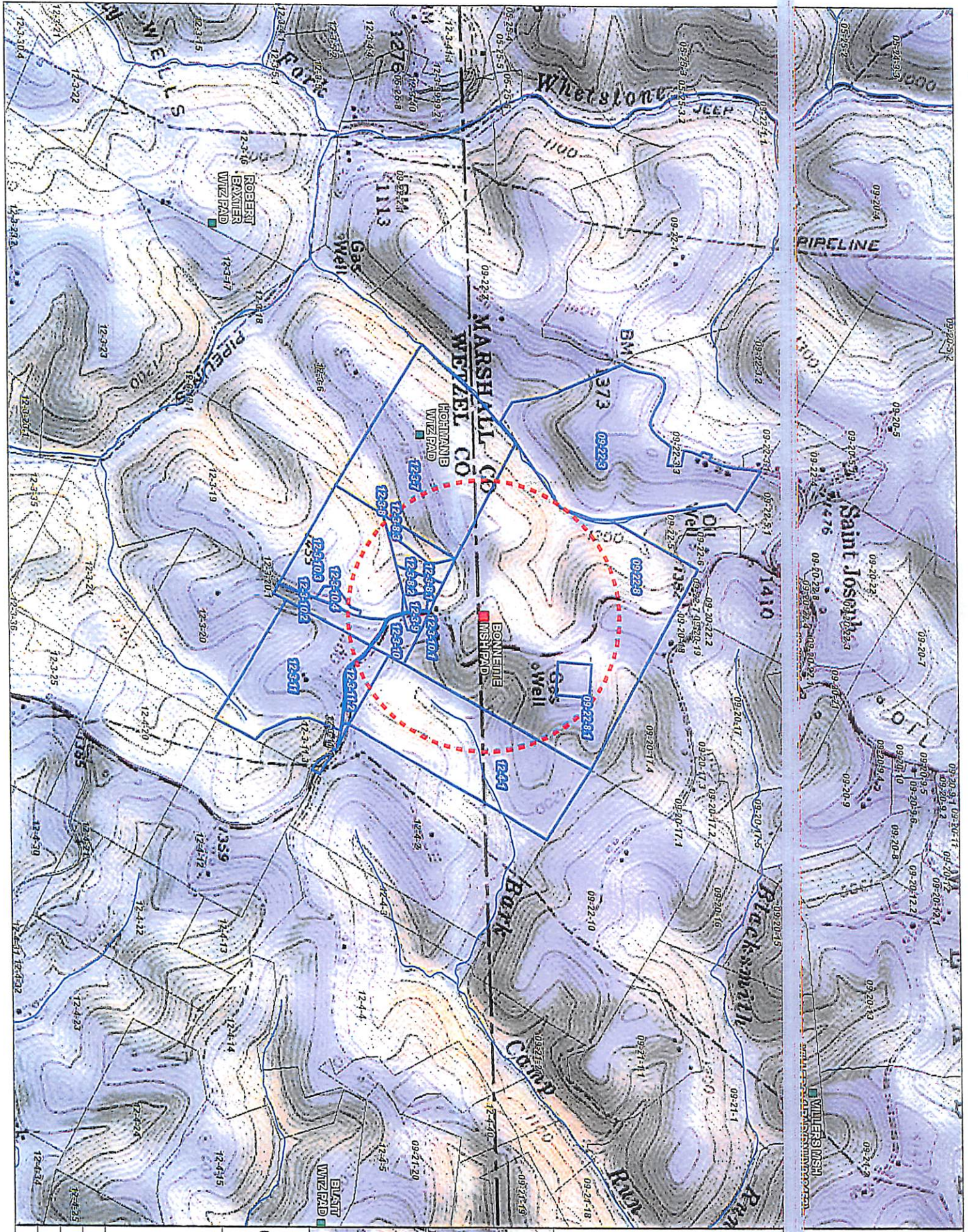
Date:

Title: _____

SWN Production Co., LLC – Confidential

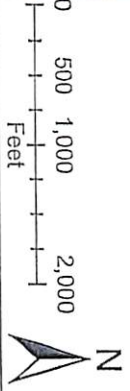
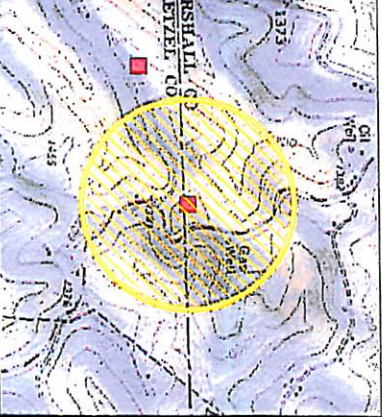
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10/23/2015



- Site of Interest
- Streams
- Parcels With Water Sources (1500' of Source)
- Other Parcels
- 1,500' Buffer Around Wells

Received
Office of Oil & Gas
 AUG 26 2015



WV Water Purveyor Map
BONNETTE MSH PAD - (907984)
 MARSHALL COUNTY, WV
 Lat: 39.72144 / Long: -80.71203
 Date: 9/12/2014
 Projection: WGS 1984 UTM Zone 17N
 Scale: 1 inch = 1,000 feet

10/23/2015

987'

Latitude: 39°45'00"

Longitude: 80°42'30"

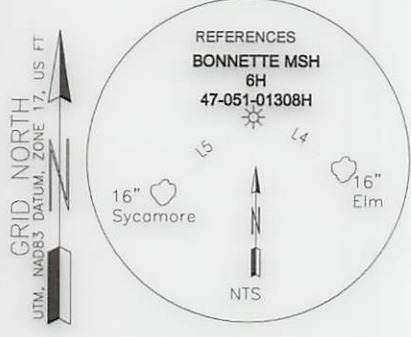
**JACKSON SURVEYING
INC.**
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

LINE	DESCRIPTION	DISTANCE	DESCRIPTION
L1	N 10°02'13" W	2,457.21'	SHL TO FENCE CORNER
L2	S 29°43'47" E	1,031.89'	SHL TO 34" W.O.
L3	S 27°57'08" E	504.74'	SHL TO LPL
L4	S 61°34'00" E	332.20'	SHL TO 16" ELM
L5	S 48°21'55" W	362.05'	SHL TO 16" SYCA.

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.
- A DWELLING IS LOCATED S14°16'W 535' FROM THE 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.
- ALL WELLS WITHIN 500' OF THE HORIZONTAL LEG ARE SHOWN ON THIS PLAT BASED UPON INFORMATION TAKEN FROM DEP MAPPING, WELL PLATS AND AERIAL PHOTOS.

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	ROBERT WILLIAM BONNETTE ET UX (S) / ANDREW STEIN (R)	09-22-08	126.53
2	PAUL & CYNTHIA FOX (S) / C.P. HERRICK (R)	12-04-01	56.00
3	PAUL & CYNTHIA FOX (S) / C.P. HERRICK (R)	12-04-02	74.70
4	LAWRENCE E. BLATT JR. (S) / JOSEPH C. & HILDA WEIGAND (R)	12-03-11.3	7.42
5	PATSY L. DULANEY & DENNIS L. ROMANOSKI (S) / LAVINA M. BAUER, LAURA BATES, LEONA PIETRO, A/K/A LEONA J. ESTEP PIETRO, VIRGINIA ANN MILLER, KATHALEEN C. LEWIS, PAUL EDWARD ESTEP, ANNE CHRISTINE GRIFFITH, JOHN LAWRENCE ESTEP, MARY CATHERINE WEST, JANET L. OLESKY, A/K/A JANET L. ESTEP OLESKY, F/K/A JANET L. ESTEP, MARY A. HUFF, A/K/A MARY A. ESTEP HUFF, F/K/A MARY A. ESTEP, BARBARA A. CRAWFORD, A/K/A BARBARA A. ESTEP CRAWFORD, F/K/A BARBARA A. ESTEP, WILLIAM D. PIERSON, A/K/A BILL PIERSON, CHARLES J. ESTEP, PATSY L. DULANEY, WILLIAM GATCHELL, & JAY LEE HOWELL, A/K/A JAY HOWELL (R)	12-04-12	52.00
6	LAWRENCE E. BLATT (S) / HOWARD & CHRISTINA BLATT, ET AL (R)	12-04-13	22.14
7	EILEEN KLUG ET AL & JOAN LOUISE KLUG (S) / JOAN L. KLUG, ATTORNEY-IN-FACT FOR ROBERT A. KLUG, MARTIN L. KLUG, EILEEN J. KLUG, & RAYMOND E. KLUG (R)	12-04-22	48.00

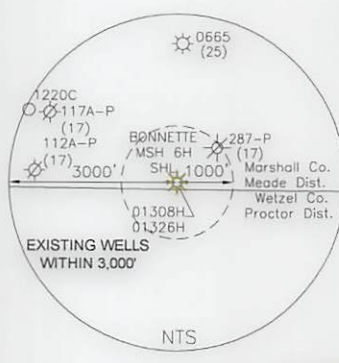
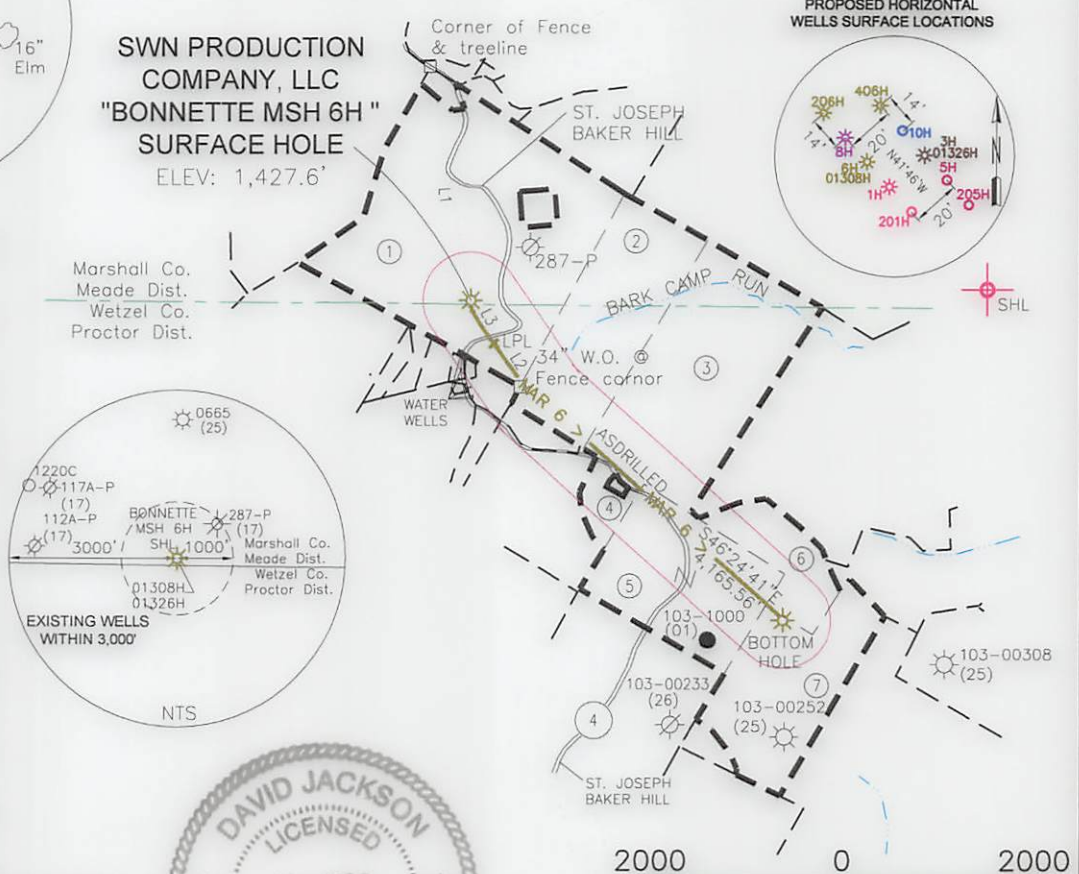


SWN PRODUCTION COMPANY, LLC
"BONNETTE MSH 6H"
SURFACE HOLE
ELEV: 1,427.6'

REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 39.721522°
	LONGITUDE: -80.711843°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,425,460.918
	EASTING: 1,721,442.312
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,396,889.282
	EASTING: 524,696.666
"LANDING POINT" LOCATION (LPL):	
GEOGRAPHIC (NAD83):	LATITUDE: 39.720295°
	LONGITUDE: -80.711006°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,425,015.061
	EASTING: 1,721,678.902
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,396,753.384
	EASTING: 524,768.779
"BOTTOM HOLE" LOCATION (BHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 39.712380°
	LONGITUDE: -80.700311°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,422,143.011
	EASTING: 1,724,696.052
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,395,877.981
	EASTING: 525,688.408



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. 708 *David Jackson*

COMPANY:
SWN Production Company, LLC **SWN** Production Company™

<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	BONNETTE MSH		
	PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 6H	API WELL #:	47 051 01308
		STATE	COUNTY	PERMIT

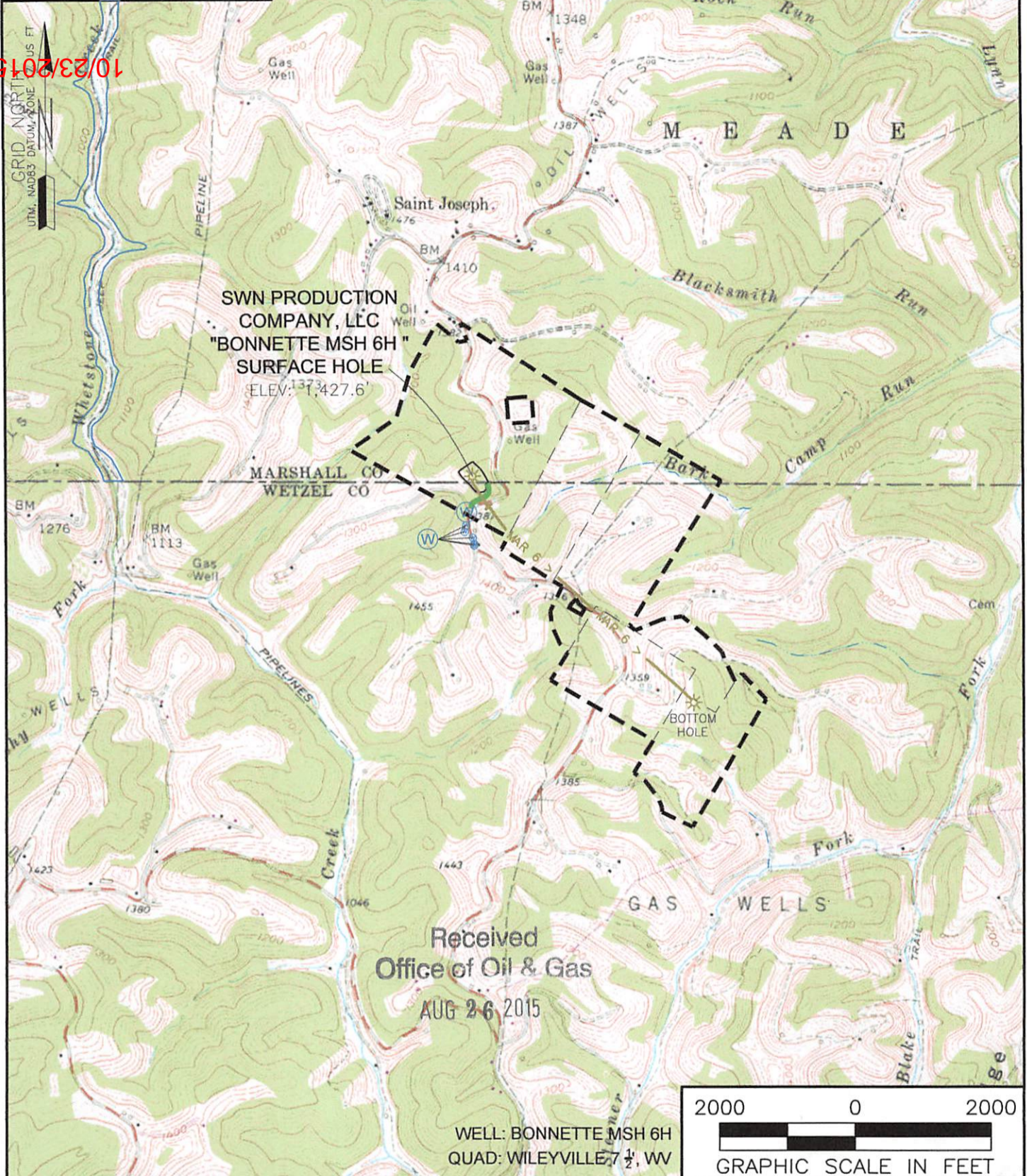
WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: WHETSTONE CREEK OF UPPER OHIO RIVER 2	ELEVATION: 1,427.6'
DISTRICT: MEADE	COUNTY: MARSHALL	QUADRANGLE: WILEYVILLE 7 1/2'
SURFACE OWNER: ROBERT WILLIAM BONNETTE ET UX	ACREAGE: 126.53 ac.	
OIL & GAS ROYALTY OWNER: ANDREW STEIN	ACREAGE: 126.53 ac.	
DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input checked="" type="checkbox"/>	CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) ASDRILLED / Frac	ESTIMATED DEPTH: 7,163' TVD 11,599' TMD
TARGET FORMATION: MARCELLUS		

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:	REVISIONS:	DATE: 06-18-2015
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊙ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR 	<ul style="list-style-type: none"> --- LEASE BOUNDARY --- 500' DHP BUFFER --- MAR 6 --- MARCELLUS DHP --- ABANDONED PATH 	DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT

JACKSON SURVEYING
 INC.
 P.O. Box 1460
 677 W. Main St.
 Clarksburg, WV 26302
 304-623-5851

10/23/2015





SWN PRODUCTION
 COMPANY, LLC
 "BONNETTE MSH 6H"
 SURFACE HOLE
 ELEV: 1374.27.6'

MARSHALL CO
 WETZEL CO

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 AUG 26 2015

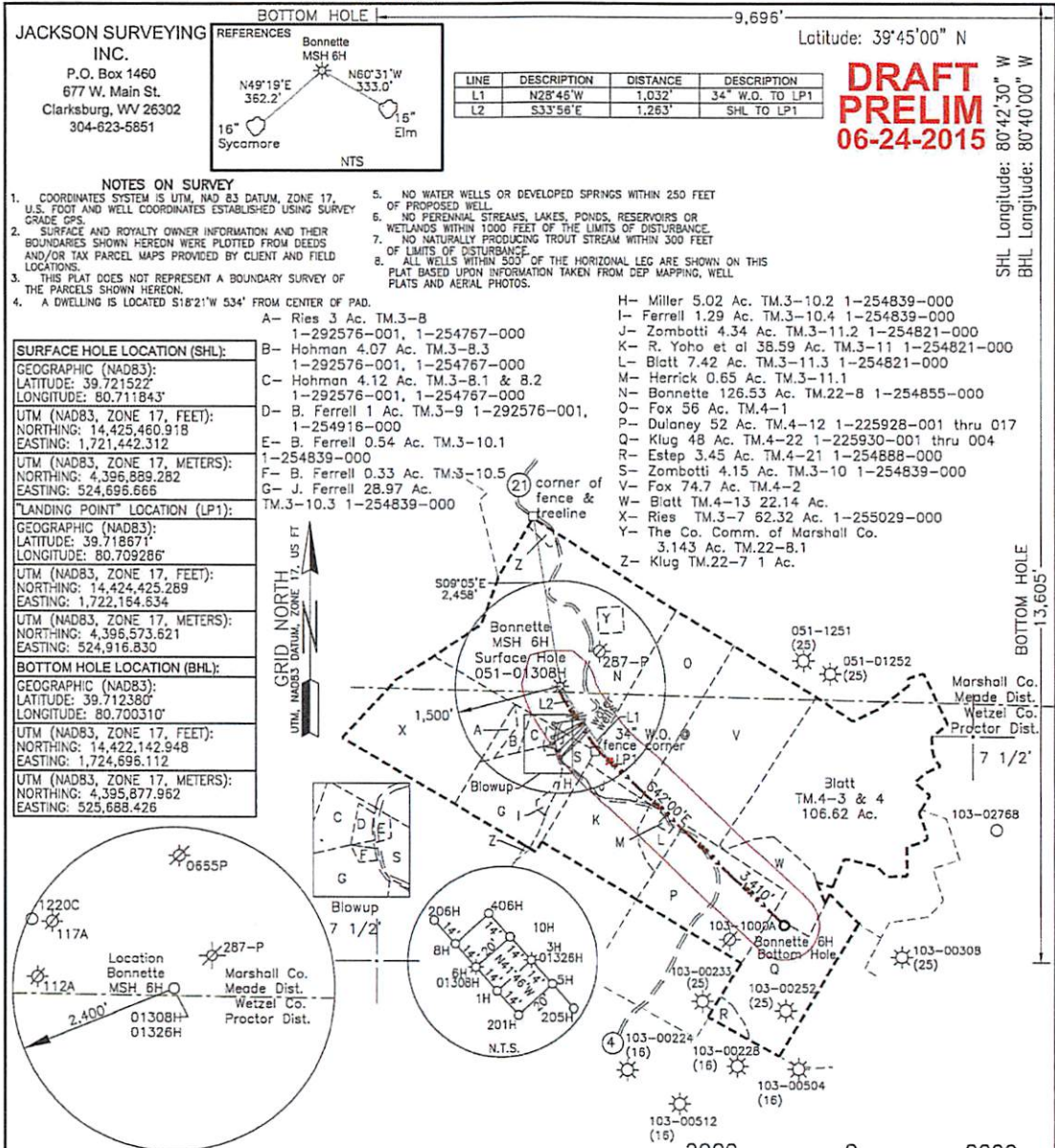
WELL: BONNETTE MSH 6H
 QUAD: WILEYVILLE 7 1/2, WV



NAME AND DISTANCE TO THE NEAREST STREAM: WHETSTONE CREEK IS LOCATED ±0.76 MILES SW 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: 535 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S BONNETTE MSH		WELL #: 6H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0230 E; EFFECTIVE DATE: SEPTEMBER 25 2009. NO FEMA INFORMATION AVAILABLE FOR WETZEL COUNTY.		LOCATION: MEADE DISTRICT, MARSHALL COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.721522° LONGITUDE: -80.711843°	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊗ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		○ EXISTING SPRING ○ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.712380° LONGITUDE: -80.700311°	
		REVISIONS:		DATE: 06-18-2015	
				DRAWN BY: N. MANO	
				SCALE: 1" = 2000'	
				DRAWING NO:	
				TOPOGRAPHIC MAP	

As-Drilled

SURFACE HOLE 1180'



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. 708



(+) 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
Bonniette MSH 6H

OPERATOR'S WELL #: 47 051 01308H
STATE COUNTY PERMIT

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

WATERSHED: Whetstone Creek ELEVATION: 1,429.6'

DISTRICT: Meade COUNTY: Marshall QUADRANGLE: Wileyville 7 1/2'

SURFACE OWNER: Robert and Linda Bonnette ACREAGE: 126.53 ac.

OIL & GAS ROYALTY OWNER: Robert and Linda Bonnette, Robert and Barbara Bias & Larry and Glenda Kress ACREAGE: 337.68 ac.

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,166' TO 11,369'

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:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		06-24-2015
⊙ EXISTING / PRODUCING WELLHEAD		
⊗ ABANDONED WELL	----- LEASE BOUNDARY	
⊗ PLUGGED & ABANDONED WELL	----- 500' DHP BUFFER	
△ CUT CONDUCTOR	--- MAR 6 --- MARCELLUS DHP	
	----- ABANDONED PATH	
		DRAWN BY: N. Mano
		SCALE: 1" = 2000'
		DRAWING NO:
		WELL LOCATION PLAT

WW-6A1
(5/13)

Operator's Well No:

05101308
Bonnette 6H

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: SWN Production Company, LLC.
 By: *Ted Han*
 Its: SENIOR LANDMAN - WEST VIRGINIA DIVISION

Page 1 of _____

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10/23/2015

#	TMP	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	09-22-08	1-254855-000	Andrew Stein, widower	The Manufacturer's Light and Heat Company	12.50%	272/265
			The Manufacturer's Light and Heat Company	Columbia Gas Transmission Corporation		422/204
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		662/332
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		33/110
2	12-04-01	1-254904-000	C.P. Herrick, single	The Manufacturer's Light and Heat Company	12.50%	44A/216
			The Manufacturer's Light and Heat Company	Columbia Gas Transmission Corporation		84A/129
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		90A/242
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
3	12-04-02	1-254904-000	C.P. Herrick, single	The Manufacturer's Light and Heat Company	12.50%	44A/216
			The Manufacturer's Light and Heat Company	Columbia Gas Transmission Corporation		84A/129
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		90A/242
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
4	12-03-11.3	1-254821-000	Joseph C. Weigand and Hilda Weigand, his wife, et al	The Manufacturer's Light and Heat Company	12.50%	45A/377
			The Manufacturer's Light and Heat Company	Columbia Gas Transmission Corporation		84A/129
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		90A/242
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
5	12-04-12	1-225928-001	Lavina M. Bauer, a widow	Chesapeake Appalachia, L.L.C.	12.50%	108A/805
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225928-002	Laura Bates, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/818
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225928-003	Leona Pietro, a/k/a Leona J. Estep Pietro, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/369
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225928-004	Virginia Ann Miller, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/822
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540

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	1-225928-005	Kathaleen C. Lewis, a widow	Chesapeake Appalachia, L.L.C.	12.50%	109A/16
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-006	Paul Edward Estep , a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/673
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-007	Anne Christine Griffith, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/677
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-008	John Lawrence Estep, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	108A/681
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-009	Mary Catherine West, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	110A/28
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-010	Janet L. Olesky, a/k/a Janet L. Estep Olesky, f/k/a Janet L. Estep, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	109A/422
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-011	Mary A. Huff, a/k/a Mary A. Estep Huff, f/k/a Mary A. Estep, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	109A/425
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-012	Barbara A. Crawford, a/k/a Barbara A. Estep Crawford, f/k/a Barbara A. Estep, a widow	Chesapeake Appalachia, L.L.C.	12.50%	109A/419
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-013	William D. Pierson, a/k/a Bill Pierson, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	110A/228
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
	1-225928-014	Charles J. Estep, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	12.50%	110A/972
		Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540

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		1-225928-015	Patsy L. Dulaney, a single woman and Dennis L. Romanoski, a single man	Chesapeake Appalachia, L.L.C.	18.75%	117A/250
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225928-016	William Gatchell, a widower	Chesapeake Appalachia, L.L.C.	17.00%	115A/375
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225928-017	Jay Lee Howell, a/k/a Jay Howell, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C.	17.00%	115A/463
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
6	12-04-13	1-254905-000	Howard Blatt and Christina Blatt, his wife, et al	The Manufacturer's Light and Heat Company	12.50%	44A/220
			The Manufacturer's Light and Heat Company	Columbia Gas Transmission Corporation		263/164
			Columbia Gas Transmission Corporation	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
7	12-04-22	1-225930-001	Joan L. Klug, Attorney-in-fact for Robert A. Klug, single	Columbia Natural Resources, L.L.C.	16.00%	84A/420
			Columbia Natural Resources, L.L.C.	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225930-002	Martin L. Klug, a married man dealing in his sole and separate property	Columbia Natural Resources, L.L.C.	16.00%	84A/416
			Columbia Natural Resources, L.L.C.	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225930-003	Eileen J. Klug, single	Columbia Natural Resources, L.L.C.	16.00%	84A/393
			Columbia Natural Resources, L.L.C.	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540
		1-225930-004	Raymond E. Klug, a married man dealing in his sole and separate property	Columbia Natural Resources, L.L.C.	16.00%	84A/391
			Columbia Natural Resources, L.L.C.	Chesapeake Appalachia, L.L.C.		402/446
			Chesapeake Appalachia, L.L.C.	SWN Production Company, L.L.C.		157A/540

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 Office of Oil & Gas
 AUG 26 2015

05101308

July 31, 2015

Ms. Laura Cooper
WV DEP Office of Oil & Gas
601 57th St., SE
Charleston, WV 25304

RE: SWN's proposed refract of the Bonnette MSH 6H in Marshall County, West Virginia, Drilling under Villers Road and St. Joseph Baker Hill Road

Dear Ms. Cooper:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Villers Road and St. Joseph Baker Hill Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you and should you have any questions please feel free to contact the undersigned at (832) 796-6259 or by email at thill@swn.com.

Sincerely,



Travis Hill
Senior Landman
SWN Production Company, LLC

10000 Energy Drive
Spring, TX 77389-4954



The Right People doing the Right Things,
wisely investing the cash flow from our
underlying Assets, will create Value.®

Received
Office of Oil & Gas
AUG 26 2015

10/23/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION **05101308**

Date of Notice Certification: _____

API No. 47- 51 _____

Operator's Well No. Bonnette MSH 6H

Well Pad Name: Bonnette MSH Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>WV</u>	UTM NAD 83 Easting: <u>524699.7</u>
County: <u>51-Marshall</u>	Northing: <u>4396885.9</u>
District: <u>5- Meade</u>	Public Road Access: <u>Fish Creek</u>
Quadrangle: <u>681- Wileyville</u>	Generally used farm name: <u>Bonnette</u>
Watershed: <u>Whetstone Creek</u>	

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

<p>Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:</p> <p>*PLEASE CHECK ALL THAT APPLY</p> <p><input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input checked="" type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED</p> <p><input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED</p> <p><input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or</p> <p style="padding-left: 40px;"><input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)</p> <p><input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION</p> <p><input checked="" type="checkbox"/> 5. PUBLIC NOTICE</p> <p><input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION</p>	<p>OOG OFFICE USE ONLY</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED/ NOT REQUIRED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p> <p><input type="checkbox"/> RECEIVED</p>
---	---

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

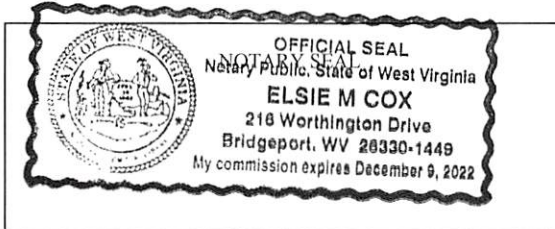
Received
Office of Oil & Gas
AUG 26 2015

Certification of Notice is hereby given:

THEREFORE, I _____, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: SWN Production Co., LLC
By: Dee Southall
Its: Regulatory Supervisor
Telephone: 832-796-1614

Address: P.O. Box 12359
Spring, TX 77391-4954
Facsimile: 92816182780@fax.com
Email: Dee_Southall@swn.com



Subscribed and sworn before me this 11th day of August 2015

Elsie M. Cox Notary Public

My Commission Expires 12-9-2022

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil & Gas
AUG 26 2015

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: _____ **Date Permit Application Filed:** _____

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

- SURFACE OWNER(s)
Name: Robert & Linda Bonnette
Address: 8 Amy Anna Drive
Moundsville, WV 26074
Name: _____
Address: _____
- SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: _____
Address: _____
Name: _____
Address: _____
- SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

- COAL OWNER OR LESSEE
Name: Consolidated Coal Company %Leatherwood
Address: 1000 Consol Energy Drive
Canonsburg, PA 15317
- COAL OPERATOR
Name: _____
Address: _____
- SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: *** See Attachment #1
Address: _____
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

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Office of Oil & Gas

*Please attach additional forms if necessary. **AUG. 26 2015**

Date	Pad No.	Pad Name	Full Parcel ID	Owner	Owner Address	Owner City	Owner State	Owner Zip	Owner Phone No.	Assumed/Known Water Source Present (Y/N)?
9/12/2014	907984	BONNETTE MSH PAD	09-22-8	BONNETTE ROBERT WILLIAM ET UX	109 AMY ANNA DR	MOUNDSVILLE	WV	26041		Y
9/12/2014	907984	BONNETTE MSH PAD	09-22-8.1	COUNTY COMMISSION OF MARSHALL	PO BOX 459	MOUNDSVILLE	WV	26041		Y
9/12/2014	907984	BONNETTE MSH PAD	12-3-10.3	FERRELL DOROTHY E <i>x2</i>	RR1 BOX 168	PROCTOR	WV	26055		Y
9/12/2014	907984	BONNETTE MSH PAD	12-3-10.4	FERRELL JOHN W	RR 1 BOX 165F	PROCTOR	WV	26055		Y
9/12/2014	907984	BONNETTE MSH PAD	12-4-1	FOX PAUL & CYNTHIA	RT 1 BOX 163	PROCTOR	WV	26055	304.455.3817	Y
9/12/2014	907984	BONNETTE MSH PAD	12-3-10.1	HOLMAN DONALD E	RR 1 Box 169	PROCTOR	WV	26055		Y
9/12/2014	907984	BONNETTE MSH PAD	09-22-3	MILLER HILARY G & MARK H	4537 ST JOSEPH RD	PROCTOR	WV	26055		Y
9/12/2014	907984	BONNETTE MSH PAD	12-3-10.2	MILLER JOHN MICHAEL ETAL	137 HUDSON HILLS ROAD	PITTSBORO	NC	27312		Y
9/12/2014	907984	BONNETTE MSH PAD	12-3-7	RIES HENRY W <i>x2</i>	10 MEADOW DR	WHEELING	WV	26003		Y
9/12/2014	907984	BONNETTE MSH PAD	12-3-11	YOHO DENVER F	RT 1 BOX 164 A	PROCTOR	WV	26055		Y
9/12/2014	907984	BONNETTE MSH PAD	12-3-11.2	ZOMBOTTI DELORES	RR1 BOX 167	PROCTOR	WV	26055		Y

Received
 Office of Oil & Gas
 AUG 26 2015

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05101308

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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API NO. 47-51
OPERATOR WELL NO. Bonnette MSH 6H
Well Pad Name: Bonnette MSH Pad

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Received
Office of Oil & Gas
AUG 26 2015

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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API NO. 47- 51 -
OPERATOR WELL NO. Bonnette MSH 6H
Well Pad Name: Bonnette MSH Pad

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Receiver
Office of Oil & Gas
AUG 26 2015

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(8-13)

API NO: 47-51-05101308
OPERATOR WELL NO. Bonnette MSH 6H
Well Pad Name: Bonnette MSH Pad

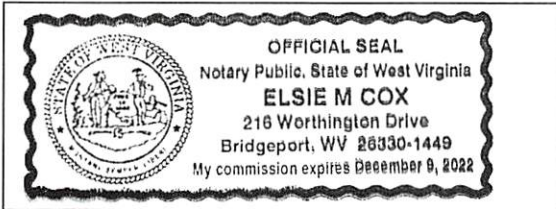
Notice is hereby given by:

Well Operator: SWN Production Co., LLC
Telephone: 832-796-1000
Email: Dee_Southall@swn.com

Address: P.O. Box 12359
Spring, TX 77391-4954
Facsimile: 92816182780@fax.com

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.



Subscribed and sworn before me this 11th day of August 2015
Elsie M. Cox Notary Public
My Commission Expires 12-9-2022

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Office of Oil & Gas
AUG 26 2015

10/23/2015

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 08/17/2015 **Date Permit Application Filed:** _____

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Robert William Bonnette ET UX
Address: 109 Amy Anna Dr.
Moundsville, WV 26041

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: West Virginia UTM NAD 83 Easting: 524,696.666
County: Marshall Northing: 4,396,889.282
District: Meade Public Road Access: St. Joseph Baker Hill
Quadrangle: Wileyville 7 1/2' Generally used farm name: _____
Watershed: Whetstone Creek of Upper Ohio River 2

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: PO Box 1300
Jane Lew, WV 26378
Telephone: 304-884-1611
Email: Micah_Feather@SWN.com
Facsimile: _____

Authorized Representative: Dee Southall
Address: PO Box 1300
Jane Lew, WV 26378
Telephone: 304-884-1614
Email: Dee_Southall@SWN.com
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

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Office of Oil and Gas
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**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION**

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 08/17/2015 **Date Permit Application Filed:** _____

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name: Robert William Bonnette ET UX
Address: 109 Amy Anna Dr.
Moundsville, WV 26041

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>524,696.666</u>
County: <u>Marshall</u>		Northing: <u>4,396,889.282</u>
District: <u>Meade</u>	Public Road Access: <u>St. Joseph Baker Hill</u>	
Quadrangle: <u>Wileyville 7 1/2'</u>	Generally used farm name: _____	
Watershed: <u>Whetstone Creek of Upper Ohio River 2</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: SWN Production Company, LLC
Telephone: 304-884-1614
Email: Dee_Southall@SWN.com

Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Received
Office of Oil & Gas
AUG 26 2015



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

August 12, 2015

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the **Bonnette Pad Well Sites**, Marshall County

Bonnette MSH 3H

Bonnette MSH 6H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0105 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Wetzel County Route 4 SLS.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton
Regional Maintenance Engineer
Central Office Oil & Gas Coordinator

Cc: Brittany Woody
Southwestern Energy
CH, OM, D-6
File

Received
Office of Oil & Gas
AUG 26 2015

05101308

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
NALCO ONESOURCE	EC6110A	Biocide	Ethanol	00064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compounds	N/A-063
	EC6629A	Biocide	No Hazardous Components	NONE
WEATHERFORD	WBK-133 OXIDIZER	Breaker	Ammonium Persulfate	007727-54-0
	WBK-134	Breaker	Ammonium Persulfate	007727-54-0
			Crystalline Silica (Quartz Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
			Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate Hydrotreated Light	064742-47-8
	WPB-584-L	Buffer	Potassium Carbonate	000584-08-7
			Potassium Hydroxide	001310-58-3
	WXL-101LE	Corsslinker	No Hazardous Components	NONE
	WXL-101LM	Crosslinker	Petroleum Distillate Hydrotreated Light	064742-47-8
			Water	007732-18-5
	WXL-105L	Crosslinker	Ethylene Glycol	000107-21-1
Boric Acid			010043-35-3	
Ethanolamine			000141-43-5	
SCHLUMBERGER	B244 Green-Cide 25G	Biocide	Glutaraldehyde	111-30-8
	L071 Temporary Clay Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
	EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2

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Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
SCHLUMBERGER	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
	Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303- 96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310- 58-3

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Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
BAKER HUGHES	ALPHA 1427	Biocide	Didecyl Dimethyl Ammonium Chloride	007173-51-1
			Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium Compound	068424-85-1
			Water	007732-18-5
	BF-7L	Buffer	Potassium Carbonate	000584-08-7
	ClayCare	Clay Stabilizer	Choline Chloride	000067-48-1
			Water	007732-18-5
	Enzyme G-I	Breaker	No Hazardous Components	NONE
	ENZYME G-NE	Breaker	No Hazardous Components	NONE
	FRW-18	Friction Reducer	Petroleum Distillate Hydrotreated Light	064742-47-8
	GW-3LDF	Gel	Petroleum Distillate Blend	N/A-014
			Polysaccharide Blend	N/A-021
	SCALETROL 720	Scale Inhibitor	Diethylene Glycol	000111-46-6
Ethylene Glycol			000107-21-1	
XLW-32	Crosslinker	Boric Acid	010043-35-3	
		Methanol (Methyl Alcohol)	000067-56-1	
FRAC TECH SERVICES	APB01 (AMMONIUM PERSUFATE BREAKER)	Breaker	Ammonium Persulfate	007727-54-0
	B05 (LOW PH BUFFER)	Buffer	Acetic acid	000064-19-7
	BXL03 Borate XL Delayed High Temp	Crosslinker	No Hazardous Components	NONE
	FRW-200	Friction Reducer	No Hazardous Components	NONE
	HVG01 (TURQUOISE-1 BULK)	Gelling Agent	Petroleum Distillate Hydrotreated Light	064742-47-8
	KCLS-4	Clay Stabilizer	No Hazardous Components	NONE
	LTB-1	Breaker	Ammonium Persulfate	N/A

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