

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

API 47-051-01563 County MARSHALL District WEBSTER  
Quad MAJORSVILLE Pad Name MICHAEL DUNN-MSH-PAD1 Field/Pool Name NORTH VICTORY FIELD  
Farm name MICHAEL A DUNN AND KANDY R DUNN Well Number MICHAEL DUNN MSH 8H  
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC  
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 4,416,432.619 Easting 538,122.770  
Landing Point of Curve Northing 4,416,278.990 Easting 538,187.970  
Bottom Hole Northing 4,414,652.940 Easting 538,905.854

Elevation (ft) 1,258' 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 \_\_\_\_\_

RECEIVED  
Office of Oil and Gas  
APR 18 2017  
WV Department of  
Environmental Protection

RECEIVED  
Office of Oil and Gas  
APR 19 2017  
WV Department of  
Environmental Protection

Date permit issued 08/04/2016 Date drilling commenced 12/14/2012 Date drilling ceased 01/16/2013  
Date completion activities began 01/02/2017 Date completion activities ceased 02/03/2017  
Verbal plugging (Y/N) N Date permission granted N/A

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

Freshwater depth(s) ft \_\_\_\_\_ Open mine(s) (Y/N) depths \_\_\_\_\_  
Salt water depth(s) ft \_\_\_\_\_ Void(s) encountered (Y/N) depths \_\_\_\_\_  
Coal depth(s) ft \_\_\_\_\_ Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) \_\_\_\_\_

Reviewed by: \_\_\_\_\_

**APPROVED**

NAME: [Signature]

DATE: 11/8/17

01/05/2018

API 47-051 - 01563 Farm name MICHAEL A DUNN AND KANDY R DUNN Well number MICHAEL DUNN MSH 8H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							
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							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_  
Deepest formation penetrated \_\_\_\_\_ Plug back to (ft) \_\_\_\_\_  
Plug back procedure \_\_\_\_\_

Kick off depth (ft) <sup>6,315'</sup> \_\_\_\_\_

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

Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

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

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 \_\_\_\_\_

API 47-051 - 01563 Farm name MICHAEL A DUNN AND KANDY R DUNN Well number MICHAEL DUNN MSH 8H

**PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMENT	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	ATTACHMENT	2				

Please insert additional pages as applicable.

API 47- 051 - 01563

Farm name MICHAEL A DUNN AND KANDY R DUNN Well number MICHAEL DUNN MSH 8H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>MARCELLUS</u>	<u>6804.17'</u>	<u>TVD</u>	<u>6964.62'</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 1,650 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs

OPEN FLOW Gas 4,024 mcfpd Oil 5.6 bpd NGL \_\_\_\_\_ bpd Water 519 bpd  
 GAS MEASURED BY  Estimated  Orifice  Pilot

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

Please insert additional pages as applicable.

Drilling Contractor \_\_\_\_\_  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Logging Company \_\_\_\_\_  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Cementing Company \_\_\_\_\_  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Stimulating Company HALLIBURTON ENERGY SERVICES  
 Address 14851 MILNER ROAD, GATE 5A City HOUSTON State TX Zip 77032

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139  
 Signature *Denise Grantham* Title REGULATORY TECHNICIAN Date 4/12/2017

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

MICHAEL DUNN MSH 8H  
PERF SUMMARY

STAGE NUM	# SHOTS PER STG	Perf Top MD	Perf Bottom MD	Perf Date
1	84	12,642	12,827	10/16/2016
2	84	12,374	12,577	1/2/2017
3	84	12,106	12,309	1/2/2017
4	84	11,838	12,041	1/3/2017
5	84	11,570	11,773	1/3/2017
6	84	11,302	11,506	1/3/2017
7	84	11,034	11,237	1/3/2017
8	84	10,766	10,969	1/4/2017
9	84	10,498	10,701	1/4/2017
10	84	10,230	10,433	1/5/2017
11	84	9,962	10,165	1/5/2017
12	84	9,694	9,897	1/6/2017
13	84	9,426	9,629	1/6/2017
14	84	9,158	9,361	1/7/2017
15	84	8,890	9,093	1/7/2017
16	84	8,622	8,823	1/8/2017
17	84	8,354	8,557	1/8/2017
18	84	8,086	8,289	1/8/2017
19	84	7,818	8,021	1/8/2017
20	84	7,550	7,753	1/9/2017
21	84	7,282	7,485	1/9/2017
22	84	7,014	7,217	1/9/2017

01/05/2018



MICHAEL DUNN MSH 8H  
FRAC STAGE SUMMARY

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	10/16/2016	94	7,991	8,982	4,608	999,120	14,986	
2	1/2/2017	96	8,042	9,270	4,737	1,000,160	19,130	
3	1/2/2017	95	7,554	8,914	5,535	1,001,120	14,846	
4	1/3/2017	97	7,792	8,291	4,491	1,000,040	15,322	
5	1/3/2017	97	7,663	8,910	4,696	1,001,840	16,700	
6	1/3/2017	97	7,633	8,516	4,700	999,680	14,494	
7	1/3/2017	100	7,789	8,350	4,943	1,000,960	17,436	
8	1/4/2017	98	7,511	8,507	5,022	1,000,680	14,620	
9	1/4/2017	100	7,529	8,276	5,637	1,000,440	14,448	
10	1/5/2017	99	7,713	8,326	5,013	999,920	18,128	
11	1/5/2017	100	7,598	7,995	4,891	998,920	14,644	
12	1/6/2017	99	7,411	8,495	4,923	1,000,640	13,978	
13	1/6/2017	98	7,341	8,497	5,206	957,120	14,088	
14	1/7/2017	99	7,507	8,551	5,070	1,001,920	14,144	
15	1/7/2017	97	7,306	8,248	5,231	996,920	17,148	
16	1/8/2017	91	7,234	7,800	4,875	1,000,520	14,330	
17	1/8/2017	92	7,057	8,296	5,380	1,000,560	14,612	
18	1/8/2017	98	6,824	7,098	5,087	1,002,480	14,120	
19	1/8/2017	98	6,946	7,832	4,880	999,720	14,222	
20	1/9/2017	95	7,151	8,272	4,918	999,440	13,796	
21	1/9/2017	98	6,913	8,830	5,123	1,000,160	13,468	
22	1/9/2017	91	7,714	9,357	4,820	999,480	13,968	

01/05/2018

## Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/2/2017
Job End Date:	1/10/2017
State:	West Virginia
County:	Marshall
API Number:	47-051-01563-08-00
Operator Name:	Southwestern Energy
Well Name and Number:	Michael Dunn MSH 8H
Latitude:	39.89710700
Longitude:	-80.55405600
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,877
Total Base Water Volume (gal):	6,907,514
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
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	82.94170	Density = 8.340
SAND-PREMIUM WHITE-40/70, BULK	Halliburton	Proppant					

					Listed Below				
EC6486A	Nalco Champion	Scale Inhibitor			Listed Below				
					Listed Below				
15% HCl Acid	Halliburton	Solvent			Listed Below				
					Listed Below				
FDP-S1176-15	Halliburton	Friction Reducer			Listed Below				
					Listed Below				
SAND-COMMON WHITE - 100 MESH, 3307 LB BAG	Halliburton	Proppant			Listed Below				
					Listed Below				
HA1-150E	Halliburton	Corrosion Inhibitor			Listed Below				
					Listed Below				
Bactron K-219	Nalco Champion	Biocide			Listed Below				
					Listed Below				
Ingredients	Listed Above	Listed Above			Listed Below				
					Listed Below				
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.									
			Crystalline silica, quartz	14808-60-7	100.00000	15.80976			
			Hydrochloric Acid	7647-01-0	15.00000	0.17039			



			Polyacrylate	Proprietary	30.00000	0.02531	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02531	
			Methanol	67-56-1	60.00000	0.01385	
			Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00693	
			Glutaraldehyde	111-30-8	10.00000	0.00231	
			Ethylene Glycol	107-21-1	30.00000	0.00151	
			Amine Triphosphate	Proprietary	30.00000	0.00151	
			Non-hazardous food substance	Proprietary	100.00000	0.00013	

\* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

\*\*\* If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

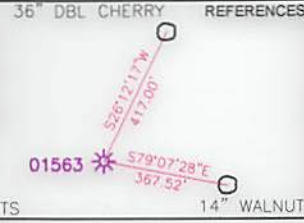
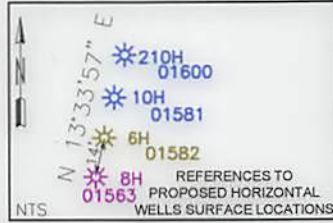
Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)



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

A-EDWIN R. COOKE 15.17 AC. 03-04-13  
 B-GARY L. MITCHELL & MONA S. MITCHELL 4.258 AC. 15-12-08  
 C-ROBERT WILLIAM BROWN 1.80 AC. 15-12-07  
 D-CONSOL PENNSYLVANIA COAL COMPANY, LLC 4.643 AC. 15-12-06

**SURFACE HOLE LOCATION**  
 UTM NAD 83 (METERS)-4416432.4 N, 538122.8 E  
**BOTTOM HOLE LOCATION**  
 UTM NAD 83 (METERS)-441652.9 N, 538905.2 E



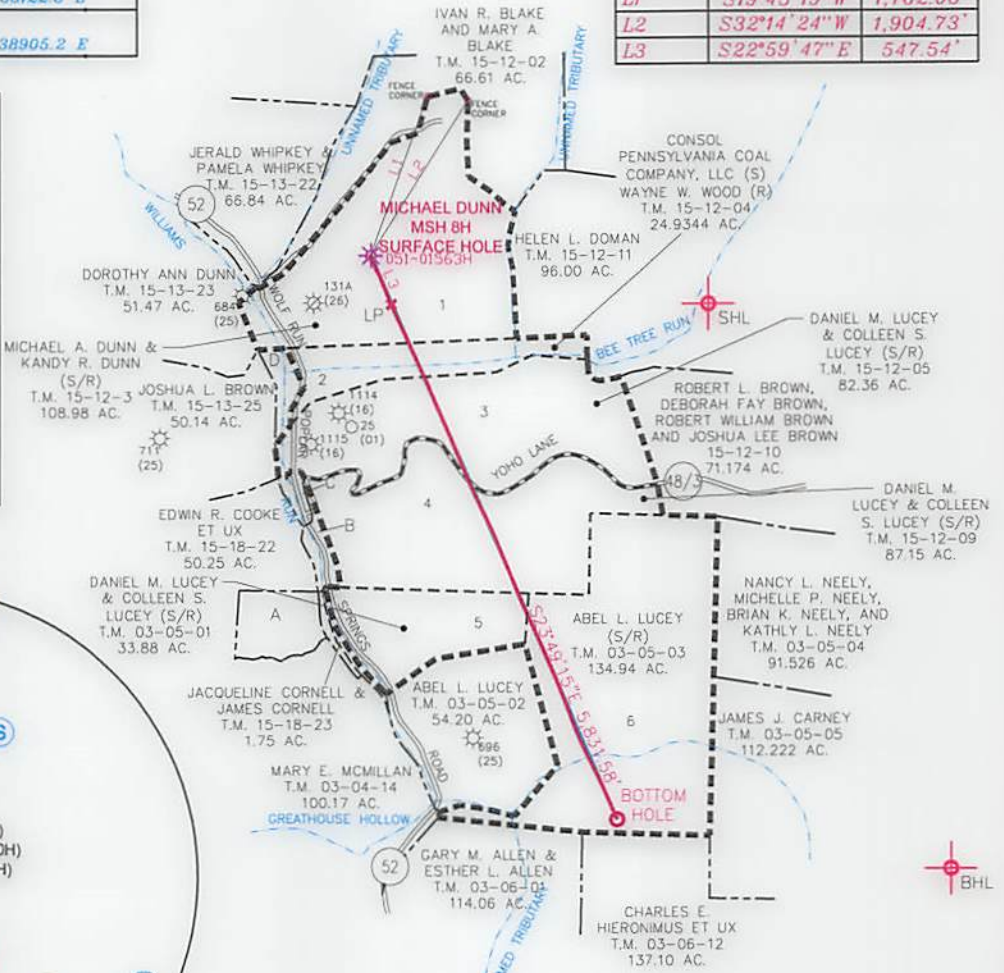
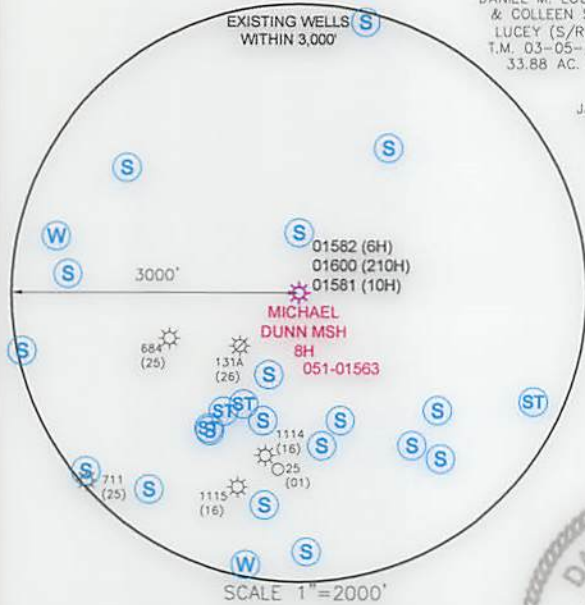
<b>SURFACE HOLE LOCATION (SHL):</b>		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,416,432.619		
EASTING: 538,122.770		
<b>"LANDING POINT" LOCATION (LPL):</b>		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,416,278.990		
EASTING: 538,187.970		
<b>BOTTOM HOLE LOCATION (BHL):</b>		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,414,652.940		
EASTING: 538,905.854		

NUMBER	DIRECTION	DISTANCE
L1	S19°45'19"W	1,762.06'
L2	S32°14'24"W	1,904.73'
L3	S22°59'47"E	547.54'

**LEGEND**

ASDRILLED LEG (RED TEXT)	---
PERMIT LEG (BLUE LEG)	---
WATERWELL	(W)
SPRING	(S)
STREAM	(ST)
SURFACE & ROYALTY OWNER	(S/R)
DIVISION LINES BETWEEN LEASE TRACTS	---
ADJOINERS LINES	---
SURFACE OWNER	(S)
ROYALTY OWNER	(R)

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



- NOTES ON SURVEY**
- NO DWELLINGS OR AGRICULTURAL BUILDINGS GREATER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
  - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
  - 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.
  - COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.



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*

PLAT SCALE 1"=2000'

COMPANY:  
**SWN** Production Company, LLC **SWN** 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 ELEVATION: GRADE GPS (NAVD 88, US FT)

**MICHAEL DUNN MSH**  
 OPERATOR'S WELL #: 8H  
 API WELL #: 47 051 01563  
 STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
 WATERSHED: WILLIAMS RUN OF UPPER OHIO SOUTH ELEVATION: 1,258'  
 DISTRICT: WEBSTER COUNTY: MARSHALL QUADRANGLE: MAJORSVILLE  
 SURFACE OWNER: MICHAEL A. DUNN AND KANDY R. DUNN ACREAGE: 108.98  
 OIL & GAS ROYALTY OWNER: MICHAEL A. DUNN AND KANDY R. DUNN ACREAGE: 108.98  
 DRILL  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 CONVERT  PLUG & ABANDON  CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY) ASDRILLED  
 TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,833' TVD 12,987' TMD

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

<b>LEGEND:</b>	<b>REVISIONS:</b>	<b>DATE:</b> 07-05-2016
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	△ 07-05-2016 ADDED LP	
⊗ EXISTING / PRODUCING WELLHEAD		DRAWN BY: N. MANO
⊘ ABANDONED WELL	---	SCALE: 1" = 2000'
⊙ PLUGGED & ABANDONED WELL	---	DRAWING NO:
△ CUT CONDUCTOR	---	WELL LOCATION PLAT



WELL OPERATOR: SWM PRODUCTION COMPANY, LLC  
 ADDRESS: P.O. BOX 1300  
 CITY: JANE LEW STATE: WV ZIP CODE: 26378  
 DESIGNATED AGENT: DEE SOUTHALL  
 REVISIONS: DATE: 07-05-2016  
 DRAWN BY: N. MANO  
 SCALE: 1" = 2000'  
 DRAWING NO.: WELL LOCATION PLAT

LEGEND:  
 ○ PROPOSED SURFACE HOLE / BOTTOM HOLE  
 \* EXISTING / PRODUCING WELLS  
 \* ABANDONED WELL  
 \* PLUGGED & ABANDONED WELL  
 \* CUT CONDUCTOR  
 --- LEASE BOUNDARY  
 --- PERMIT DHP  
 --- MARCELLUS DHP  
 --- ABANDONED PATH

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
 WATERSHED: WILLIAMS RUN OF UPPER OHIO SOUTH  
 DISTRICT: WEBSTER COUNTY: MARSHALL  
 SURFACE OWNER: MICHAEL A. DUNN AND KANDY R. DUNN  
 OIL & GAS ROYALTY OWNER: MICHAEL A. DUNN AND KANDY R. DUNN  
 ACREAGE: 108.98  
 ESTIMATED DEPTH: 6,833' TVD 12,987' TMD

WVDE OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25034

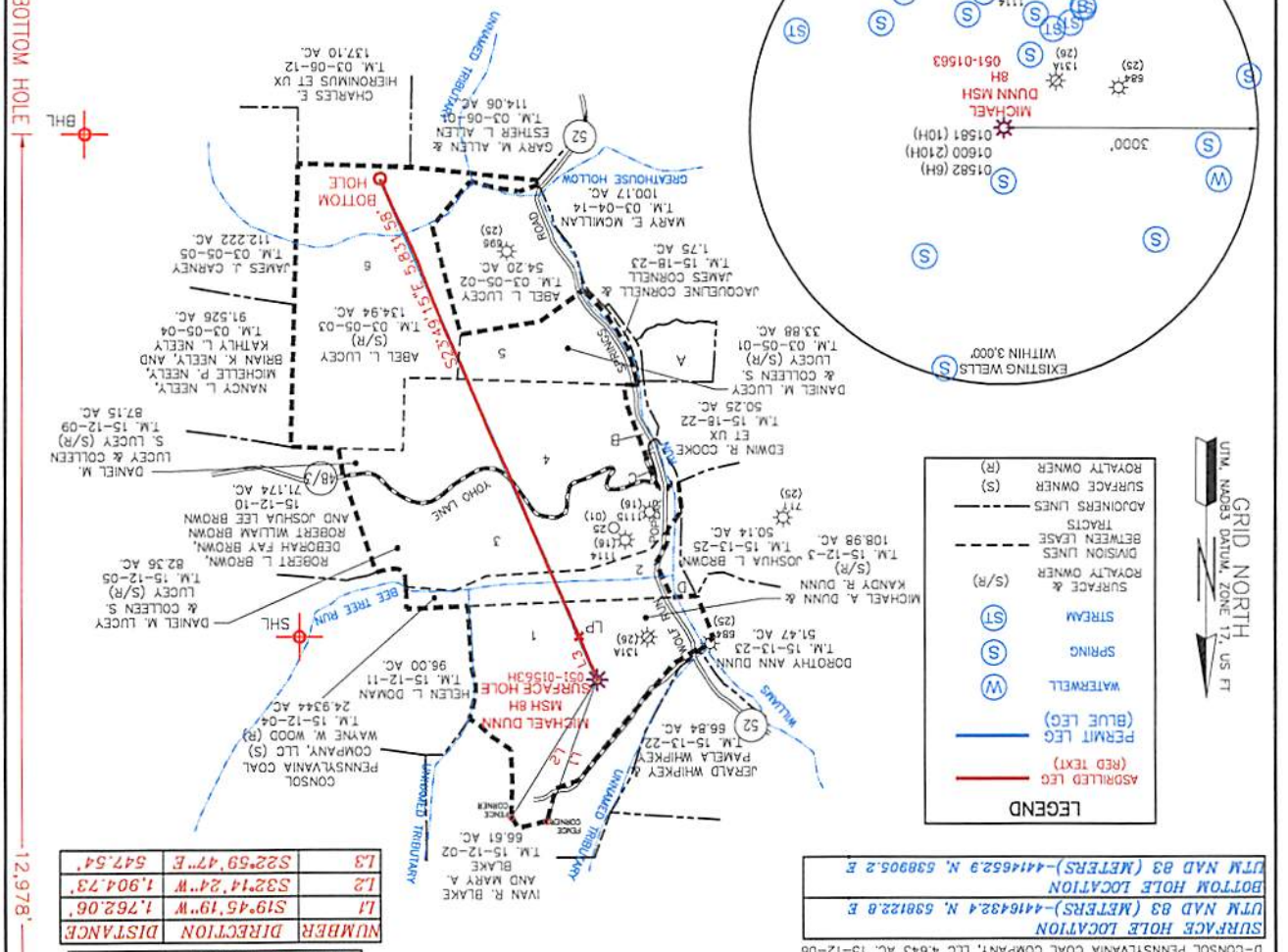
DEGREE OF ACCURACY: 1/200  
 PROVEN SOURCE OF GRADE GPS  
 ELEVATION: (NAVD 88, US FT)

APL WELL #: 47 STATE: WV COUNTY: PERMIT: 01563

OPERATOR'S WELL #: 8H  
 MICHAEL DUNN MSH

P.S. 708  
 DAVID J. JACKSON  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS  
 MINIMUM DEGREE OF ACCURACY: 1/200  
 SURVEY SOURCE OF GRADE GPS  
 ELEVATION: (NAVD 88, US FT)

NOTES ON SURVEY:  
 1. NO DWELLINGS OR AGRICULTURAL BUILDINGS GREATER THAN 2,500 SQUARE FEET WITHIN 625 FEET OF PROPOSED CENTER OF PAD.  
 2. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.  
 3. 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.  
 4. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND METR COORDINATES ESTABLISHED USING SURVEY GRADE GPS.  
 PLAT SCALE 1"=2000'



NUMBER	DIRECTION	DISTANCE
L3	S22°59'47"E	547.54'
L2	S32°14'24"W	1,904.73'
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 EASTING: 538,122.770

UTM (NAD83, ZONE 17, METERS):  
 LANDING POINT LOCATION (LPL):  
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UTM (NAD83, ZONE 17, METERS):  
 BOTTOM HOLE LOCATION (BHL):  
 NORTHING: 4,414,652.940  
 EASTING: 538,905.854

REFERENCES:  
 36" DBL CHERRY  
 367.52'  
 367.28'  
 417.00'  
 528.217W  
 579.072E

REFERENCES TO WELLS SURFACE LOCATIONS:  
 210H  
 01600  
 105H  
 01581  
 101H  
 01582  
 6H  
 01582  
 01563 BH

UTM NAD 83 (METERS) - 441632.4 N, 538905.2 E  
 BOTTOM HOLE LOCATION

UTM NAD 83 (METERS) - 441652.9 N, 538905.2 E  
 SURFACE HOLE LOCATION

UTM NAD 83 (METERS) - 441632.4 N, 538905.2 E  
 SURFACE HOLE LOCATION

UTM NAD 83 (METERS) - 441652.9 N, 538905.2 E  
 BOTTOM HOLE LOCATION

LONGITUDE: 80°32'30"  
 SURFACE HOLE 3.475'  
 BOTTOM HOLE 9.36'  
 SURFACE HOLE 7.124'  
 BOTTOM HOLE 12.978'



Well (Farm) Name MICHAEL DUNN MSH BH		Applc't/Well Operator Name SMN PRODUCTION COMPANY, LLC
County MARSHALL		Address PO BOX 1300 JANE LEW, WV 26378
USCS 7 1/2 Quadrangle Map Name MAJORSVILLE		Surface Landowner/ Lessor MICHAEL A. DUNN ET UX
Well# BH (051-01563)	District WEBSTER	

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

LEGEND:  
----- EXTERNAL BOUNDARY

