

Via Federal Express

April 12, 2017

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: SWN Production Company, LLC
Operator ID: 494512924
Regulatory Filings: WR-35 & WR-36 Filing

To Whom It May Concern:

Please find enclosed forms WR-35 Well Operator's Report of Well Work and WR-36 Well Operator's Report of Initial Gas-Oil Ratio for the following wells:

Michael Dunn MSH 6H (API 47-051-01563)
Michael Dunn MSH 8H (API 47-051-01582)
Michael Dunn MSH 10H (API 47-051-01581)
Michael Dunn MSH 210H (API 47-051-01600)

Please note these wells were drilled by Chesapeake Appalachia prior to the acquisition by SWN Production Company, LLC on December 23, 2014 and an interim WR-35 was filed.

If you have any questions or require additional information, please contact me via email at denise_grantham@swn.com or telephone at (832) 796-6139.

Sincerely,



Denise Grantham
Regulatory Technician
West Virginia Division

/dg
Encl.

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+®

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

API 47 - 051 - 01581 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 10H
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 4,416,441.005 Easting 538,124.758
Landing Point of Curve Northing 4,416,362.936 Easting 538,395.296
Bottom Hole Northing 4,414,473.346 Easting 539,312.335

Elevation (ft) 1258' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

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

Date permit issued 08/09/2016 Date drilling commenced 12/14/2012 Date drilling ceased 02/24/2013
Date completion activities began 12/06/2016 Date completion activities ceased 02/07/2017
Verbal plugging (Y/N) N Date permission granted N/A Granted by 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:

API 47-051 - 01581 Farm name MICHAEL A DUNN AND KANDY R DUNN Well number MICHAEL DUNN MSH 10H

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 ³ /sks)	Volume (ft ³)	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) _____

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 _____

MICHAEL DUNN MSH 10H
PERF SUMMARY

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	12/6/2016	14,001	14,078	42
2	12/6/2016	13,861	13,968	42
3	12/8/2016	13,721	13,828	42
4	12/8/2016	13,581	13,688	42
5	12/9/2016	13,441	13,548	42
6	12/9/2016	13,301	13,408	42
7	12/9/2016	13,161	13,268	42
8	12/11/2016	13,021	13,121	42
9	12/11/2016	12,881	12,988	42
10	12/11/2016	12,741	12,848	42
11	12/12/2016	12,601	12,704	42
12	12/12/2016	12,461	12,566	42
13	12/13/2016	12,321	12,428	42
14	12/13/2016	12,181	12,288	42
15	12/14/2016	12,041	12,148	42
16	12/14/2016	11,901	12,008	42
17	12/15/2016	11,761	11,868	42
18	12/15/2016	11,621	11,728	42
19	12/16/2016	11,481	11,588	42
20	12/16/2016	11,341	11,448	42
21	12/17/2016	11,201	11,308	42
22	12/17/2016	11,061	11,168	42
23	12/18/2016	10,921	11,028	48
24	12/19/2016	10,781	10,888	48
25	12/19/2016	10,641	10,748	48
26	12/19/2016	10,501	10,608	48
27	12/20/2016	10,361	10,468	48
28	12/19/2016	10,221	10,328	42
29	12/20/2016	10,081	10,188	42
30	12/21/2016	9,941	10,048	42
31	12/21/2016	9,801	9,908	42
32	12/22/2016	9,661	9,768	42
33	12/22/2016	9,521	9,628	42
34	12/27/2016	9,381	9,488	42
35	12/27/2016	9,241	9,348	42
36	12/28/2016	9,101	9,208	42
37	12/28/2016	8,961	9,068	42
38	12/28/2016	8,821	8,928	42
39	12/28/2016	8,681	8,788	42
40	12/29/2016	8,541	8,648	42
41	12/29/2016	8,401	8,508	42
42	12/29/2016	8,261	8,368	42
43	12/30/2016	8,121	8,228	42
44	12/30/2016	7,986	8,088	42
45	12/30/2016	7,839	7,948	42
46	12/31/2016	7,700	7,808	42

MICHAEL DUNN MSH 10H
PERF SUMMARY

47	12/31/2016	7,561	7,668	42
48	12/31/2016	7,421	7,528	42
49	1/1/2017	7,281	7,388	42
50	1/1/2017	7,141	7,248	42

MICHAEL DUNN MSH 10H
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	12/6/2016	95	7,834	8,871	4,817	496,360	7,274	
2	12/6/2016	94	8,101	9,007	5,054	498,120	7,711	
3	12/8/2016	90	7,791	8,501	5,237	492,400	7,403	
4	12/8/2016	78	8,155	8,816	4,903	498,320	10,623	
5	12/9/2016	94	7,470	9,200	5,500	503,300	7,863	
6	12/9/2016	99	7,823	8,263	5,112	499,560	7,768	
7	12/9/2016	96	8,001	8,482	5,294	500,560	9,883	
8	12/11/2016	94	8,166	8,424	4,743	502,760	7,516	
9	12/11/2016	95	8,086	8,501	5,174	512,060	8,608	
10	12/11/2016	95	8,020	8,755	4,949	500,080	7,994	
11	12/12/2016	95	8,070	8,362	4,845	501,840	7,392	
12	12/12/2016	99	7,947	8,312	5,274	501,180	7,743	
13	12/13/2016	99	7,786	8,276	5,108	500,220	7,307	
14	12/13/2016	100	7,749	8,233	5,823	500,140	7,096	
15	12/14/2016	101	8,020	8,656	5,731	500,060	11,077	
16	12/14/2016	100	8,042	8,462	4,993	499,040	7,323	
17	12/15/2016	99	7,990	8,591	5,137	503,460	9,988	
18	12/15/2016	98	8,008	8,452	5,014	508,200	7,146	
19	12/16/2016	98	8,073	8,510	5,115	501,280	7,265	
20	12/16/2016	97	7,885	8,539	5,068	500,320	8,119	
21	12/17/2016	93	7,900	9,199	5,730	499,860	10,353	
22	12/17/2016	15	8,624	9,287	4,615	13,820	3,097	
23	12/18/2016	99	7,288	7,741	5,371	434,940	9,242	
24	12/19/2016	95	7,285	7,555	5,028	500,120	7,383	
25	12/19/2016	100	7,424	8,470	4,700	500,580	7,662	
26	12/19/2016	94	7,379	7,856	4,920	500,100	7,179	
27	12/20/2016	100	7,458	8,095	4,703	500,372	7,245	
28	12/19/2016	100	7,566	8,377	4,665	494,160	7,031	
29	12/20/2016	100	7,549	7,813	4,829	483,040	7,041	
30	12/21/2016	100	7,643	7,930	4,858	501,220	7,374	
31	12/21/2016	100	7,668	7,832	5,535	498,000	7,291	
32	12/22/2016	100	7,676	8,914	5,054	499,820	7,486	
33	12/22/2016	100	7,555	7,882	4,997	500,260	7,148	
34	12/27/2016	101	7,627	8,359	5,462	503,220	7,249	
35	12/27/2016	98	7,486	7,628	5,014	501,720	7,238	
36	12/28/2016	101	7,649	8,084	5,097	504,920	7,078	
37	12/28/2016	99	7,482	7,734	4,852	500,920	7,144	
38	12/28/2016	100	7,407	7,686	5,462	500,020	7,131	
39	12/28/2016	100	7,490	8,015	5,051	497,080	7,073	
40	12/29/2016	100	7,522	8,760	4,667	500,420	6,941	
41	12/29/2016	101	7,445	7,972	4,879	500,480	7,033	
42	12/29/2016	100	7,636	9,675	5,115	463,940	10,334	
43	12/30/2016	99	7,485	8,137	4,910	498,880	7,564	
44	12/30/2016	100	7,426	8,707	4,892	499,980	6,817	
45	12/30/2016	100	7,196	7,531	5,218	501,800	7,048	
46	12/31/2016	99	7,391	8,331	5,205	502,420	7,198	
47	12/31/2016	100	7,235	7,581	5,379	501,560	6,958	
48	12/31/2016	100	7,386	7,892	5,048	500,100	6,752	
49	1/1/2017	100	7,157	8,425	5,120	497,800	6,867	
50	1/1/2017	101	7,316	7,619	5,376	500,100	6,666	

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	12/6/2016
Job End Date:	1/2/2017
State:	West Virginia
County:	Marshall
API Number:	47-051-01581-08-00
Operator Name:	Southwestern Energy
Well Name and Number:	Michael Dunn MSH 10H
Latitude:	39.89715000
Longitude:	-80.55402000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,879
Total Base Water Volume (gal):	15,699,292
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	83.08569	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	1.29501	

EC6486A	Nalco Champion	Scale Inhibitor							
					Listed Below				
15% HCl Acid	Halliburton	Solvent							
					Listed Below				
FDP-S1176-15	Halliburton Energy Services	Friction Reducer							
					Listed Below				
HAI-150E	Halliburton	Corrosion Inhibitor							
					Listed Below				
SAND- PREMIUM WHITE-40/70, BULK	Halliburton	Proppant							
					Listed Below				
Bactron K-219	Nalco Champion	Biocide							
					Listed Below				
SAND-COMMON WHITE - 100 MESH, 3307 LB BAG	Halliburton	Proppant							
					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	15.51543			
			Hydrochloric acid	7647-01-0	15.00000	0.19425			
			Polyacrylate	Proprietary	30.00000	0.02261			

				Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02261	
				Methanol	67-56-1	60.00000	0.01391	
				Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00695	
				Glutaraldehyde	111-30-8	10.00000	0.00232	
				Amine Triphosphate	Proprietary	30.00000	0.00155	
				Ethylene Glycol	107-21-1	30.00000	0.00155	
				Non-hazardous food substance	Proprietary	100.00000	0.00015	

* 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

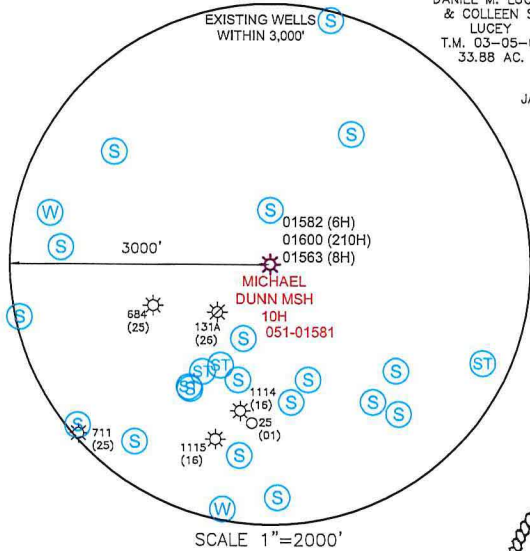
- A-GARY L. MITCHELL & MONA S. MITCHELL 4.258 AC. T.M. 15-12-08
- B-ROBERT WILLIAM BROWN 3.695 AC. 15-12-07
- C-CONSOL PENNSYLVANIA COAL COMPANY, LLC 4.643 AC. T.M. 15-12-06
- D-STEVEN L. ROBINSON ET UX 9.4 AC. T.M. 03-05-05.1
- E-LINDA L. MCCrackEN 66.35 AC. T.M. 03-05-09
- F-MILTON E. & LINDA MCCrackEN 3.906 AC. T.M. 03-05-07
- G-MILTON E. & LINDA MCCrackEN 6.00 AC. T.M. 03-05-08

SURFACE HOLE LOCATION
UTM NAD 83 (METERS)-4416440.7 N, 538124.8 E
BOTTOM HOLE LOCATION
UTM NAD 83 (METERS)-4414464.1 N, 539321.1 E

LEGEND

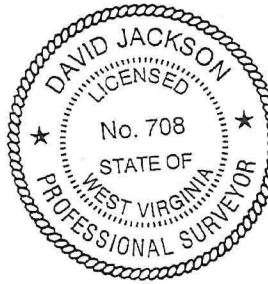
- ASDRILLED LEG (RED TEXT)
- PERMIT LEG (BLUE LEG)
- WATERWELL (W)
- SPRING (S)
- STREAM (ST)
- SURFACE & ROYALTY OWNER (S/R)
- DIVISION LINES BETWEEN LEASE TRACTS (---)
- ADJOINERS LINES SURFACE OWNER (S)

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

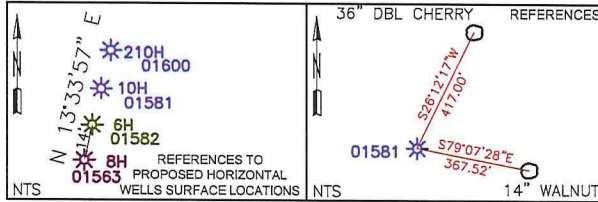


I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 708 *David L Jackson*

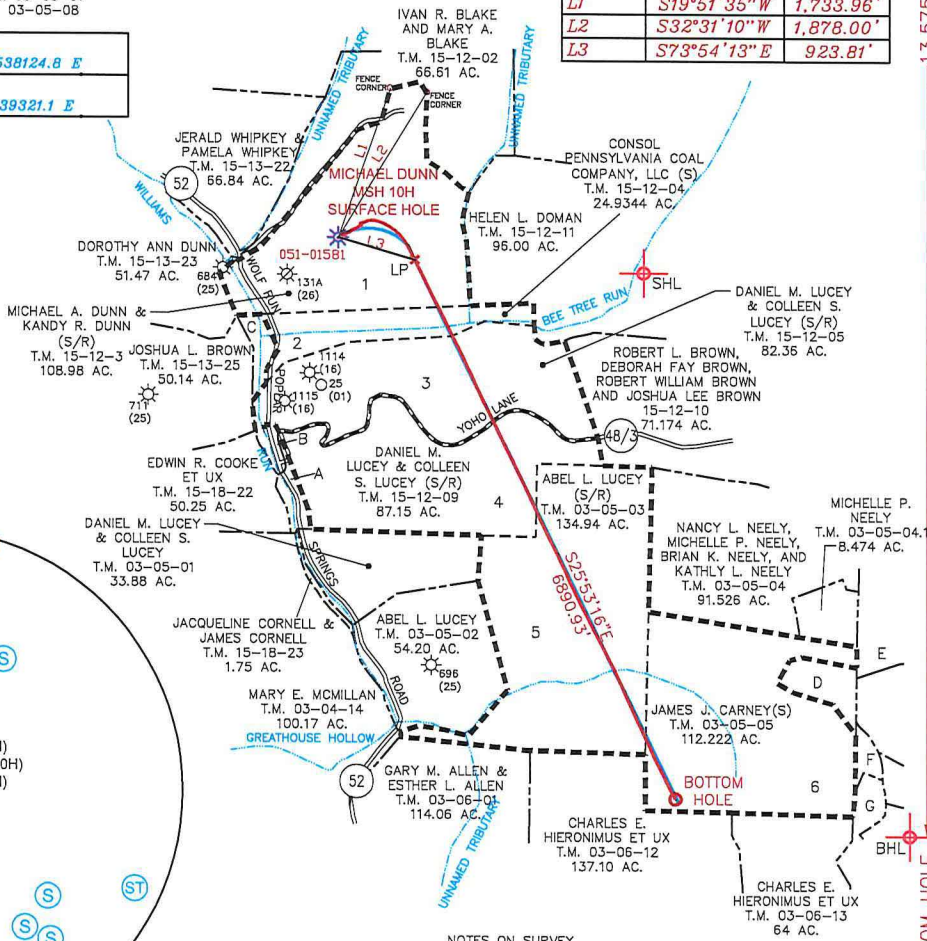


SURFACE HOLE 3,469'
Latitude: 39°55'00" BOTTOM HOLE 395'
Longitude: 80°32'30" 7,097'



SURFACE HOLE LOCATION (SHL):		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,416,441.005		
EASTING: 538,124.758		
"LANDING POINT" LOCATION (LPL):		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,416,362.936		
EASTING: 538,395.296		
BOTTOM HOLE LOCATION (BHL):		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,414,473.346		
EASTING: 539,312.335		

NUMBER	DIRECTION	DISTANCE
L1	S19°51'35\"/>	



- 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.

PLAT SCALE 1"=2000'

COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

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

MICHAEL DUNN MSH
OPERATOR'S WELL #: 10H
API WELL #: 47 051 01581
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

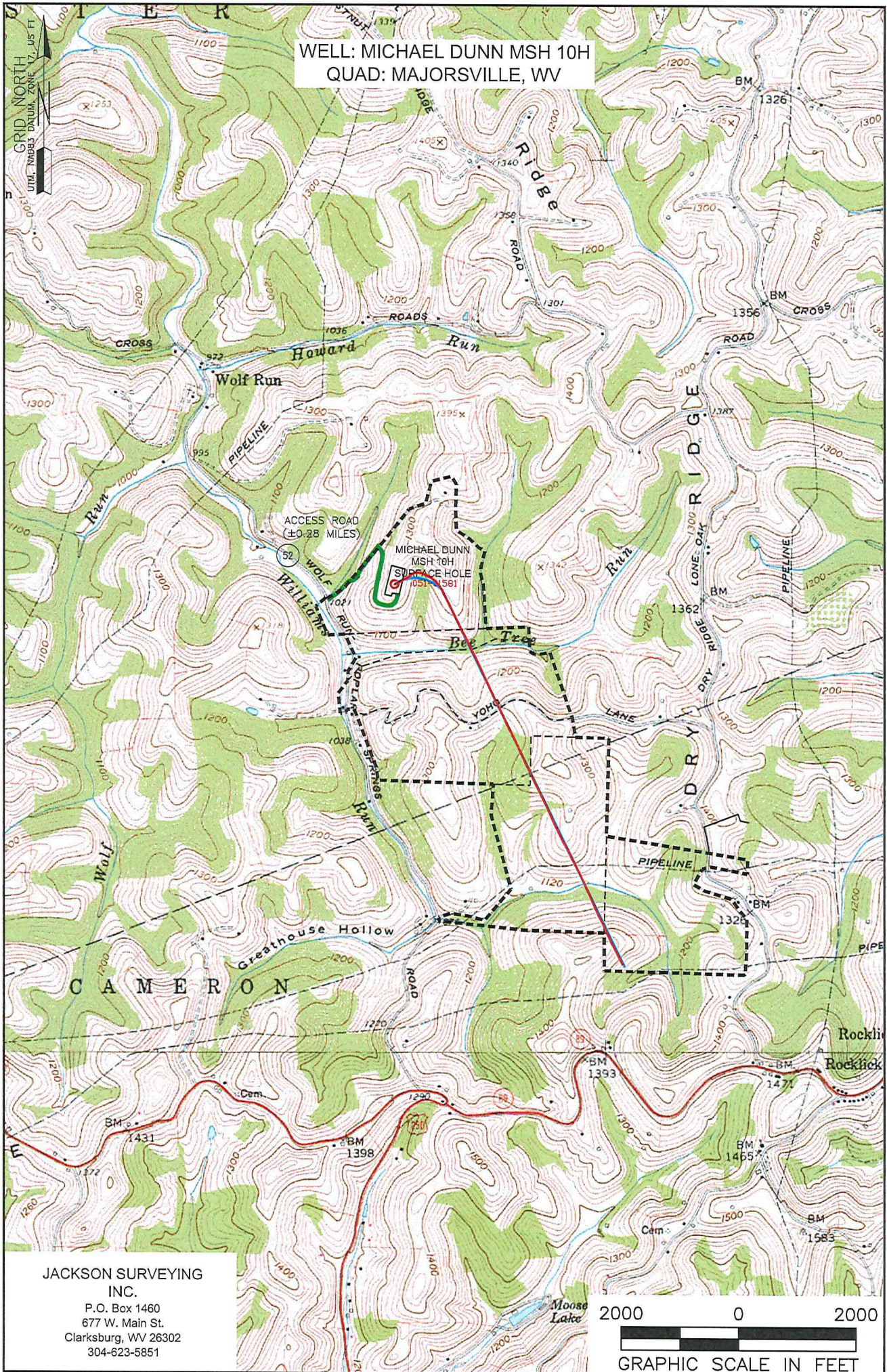
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) ASDRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,833' TVD 12,987' TMD

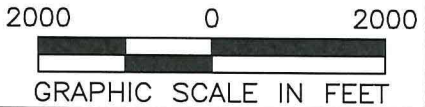
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE: 07-12-2016
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		
⊙ EXISTING / PRODUCING WELLHEAD	--- LEASE BOUNDARY	DRAWN BY: N. MANO
⊘ ABANDONED WELL	--- PERMIT DHP	SCALE: 1" = 2000'
⊙ PLUGGED & ABANDONED WELL	--- MARCELLUS DHP	DRAWING NO:
△ CUT CONDUCTOR	--- ABANDONED PATH	WELL LOCATION PLAT

WELL: MICHAEL DUNN MSH 10H
 QUAD: MAJORSVILLE, WV



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



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

Applicant/Well Operator Name SWN PRODUCTION COMPANY, LLC	Well (Farm) Name MICHAEL DUNN MSH 10H	Well# 10H (051-01581)
Address PO BOX 1300 JANE LEW, WV 26378	County MARSHALL	District WEBSTER
Surface Landowner/ Lessor MICHAEL A. DUNN ET UX	USCS 7 1/2 Quadrangle Map Name MAJORSVILLE	

**State of West Virginia
Department of Environmental Protection
Office of Oil and Gas**

Well Operator's Report of
Initial Gas-Oil Ratio

Well Operator SWN PRODUCTION COMPANY LLC Designated Agent _____
Address PO BOX 12359 Address _____
SPRING, TX 77391-2359 _____

Geological Target Formation: MARCELLUS Depth 7,092.06 MD/ 6,802.37' TVD feet
Perforation Interval 7,141'/14,078' MD feet

Guidelines for testing:

1. A minimum of gas vented or flared.
2. A 24 hour pre-flow into pipelines or tanks.
3. Uniform producing rate during the 24 hour test per test period.
4. Measurement standards as for Form WR-39, "Report of Annual Production" (see 35CSR4-15)
5. Separate Form WR-36 for each producing formation in a multiple completion.

TEST DATA

Start of Test Date	Time	End of Test Date	Time	Duration of Test
Tubing Pressure	Casing Pressure	Separator Pressure	Separator Temperature	
Oil Production During Test	Gas Production During Test	Water Production During Test		
BBLs	MCF	BBLs	-Salinity	
Oil Gravity	Producing Method (flowing, pumping, gas lift etc.)			
API				

GAS PRODUCTION

Measurement Method Flange Tap <input type="checkbox"/> Pipe Tap <input type="checkbox"/> L-10 <input type="checkbox"/>		Positive Choke <input type="checkbox"/>
		Positive flow prover <input type="checkbox"/>
Orifice diameter	Pipe Diameter (inside)	Nominal Choke Size inches 13
Differential Pressure range	Max. Static pressure range	Prover and Orifice diameter - inches
Differential		Static
Gas Gravity (Air = 1.0)	Flowing Temperature	Gas Temperature
Measured	Estimated	
24 Hour Coefficient	24 Hour coefficient pressure PSIA	

TEST RESULTS

Daily Oil 4.1 BBLs	Daily Water 771.8 BBLs	Daily Gas 3,866 MCF	Gas-Oil Ratio
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Denise Grantham
Well Operator

BY DENISE GRANTHAM

ITS: DESIGNATED REPRESENTATIVE