

APR 13 2017

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

API 47-051-01600 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 210H
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 4,416,445.521 Easting 538,125.883
Landing Point of Curve Northing 4,416,471.560 Easting 538,736.246
Bottom Hole Northing 4,414,452.381 Easting 539,662.050

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 03/17/2013
Date completion activities began 01/10/2017 Date completion activities ceased 02/10/2017
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:

11/12/2021

API 47- 051 - 01600 Farm name MICHAEL A. DUNN AND KANDY R. DUNN Well number MICHAEL DUNN MSH 210H

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 210H
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	1/10/2017	98	8,088	8,678	4,389	501,760	7,256	
2	1/10/2017	97	8,210	8,740	4,786	500,080	7,591	
3	1/11/2017	92	8,125	8,778	5,259	500,400	7,524	
4	1/11/2017	91	8,089	8,790	5,126	501,740	7,940	
5	1/11/2017	95	7,911	8,648	5,252	500,860	7,740	
6	1/11/2017	96	800	8,665	5,199	500,600	7,430	
7	1/12/2017	97	7,936	8,197	5,087	500,400	7,557	
8	1/12/2017	97	7,997	8,308	5,252	500,120	7,635	
9	1/12/2017	99	7,862	8,210	4,977	501,820	7,598	
10	1/13/2017	93	8,094	9,120	5,408	499,220	8,829	
11	1/13/2017	94	8,043	8,398	5,613	502,460	7,448	
12	1/13/2017	100	7,830	8,027	5,664	500,160	7,354	
13	1/14/2017	100	8,164	8,874	5,104	500,280	7,179	
14	1/14/2017	99	7,875	8,164	5,319	499,200	7,415	
15	1/14/2017	95	7,796	8,172	5,399	499,400	7,677	
16	1/15/2017	99	7,897	8,112	5,714	500,020	7,420	
17	1/15/2017	99	7,740	7,962	4,935	494,820	7,310	
18	1/15/2017	100	7,712	8,062	5,014	500,200	7,420	
19	1/16/2017	100	7,617	8,001	5,173	498,960	7,377	
20	1/16/2017	98	7,831	8,443	5,274	500,940	7,397	
21	1/16/2017	99	7,902	8,043	5,464	513,100	7,141	
22	1/17/2017	98	7,845	8,072	5,355	500,080	7,317	
23	1/17/2017	99	7,788	8,006	5,298	500,100	7,307	
24	1/18/2017	99	7,562	7,786	5,115	501,920	7,248	
25	1/18/2017	100	7,735	7,949	4,795	500,980	7,162	
26	1/18/2017	100	7,669	7,943	5,107	500,170	7,133	
27	1/19/2017	100	7,708	8,271	5,338	499,530	7,129	
28	1/19/2017	101	7,532	7,787	5,333	501,240	7,085	
29	1/19/2017	100	7,705	7,915	5,199	500,260	7,106	
30	1/20/2017	101	7,514	8,196	5,414	497,200	7,102	
31	1/20/2017	100	7,542	7,880	5,230	498,140	7,134	
32	1/20/2017	100	7,415	7,657	5,262	498,860	7,019	
33	1/20/2017	100	7,502	7,641	5,239	497,920	7,035	
34	1/21/2017	101	7,409	7,803	5,230	498,420	7,122	
35	1/21/2017	100	7,521	8,084	5,206	499,940	6,970	
36	1/21/2017	100	7,623	7,944	4,897	500,180	7,034	
37	1/22/2017	97	7,333	8,853	5,373	498,880	7,380	
38	1/23/2017	98	7,282	7,948	4,977	497,840	7,524	
39	1/24/2017	100	7,313	7,577	5,313	504,420	6,959	
40	1/24/2017	100	7,304	7,575	5,267	503,140	6,954	
41	1/25/2017	100	7,564	8,021	5,472	494,520	8,030	
42	1/25/2017	100	7,246	7,959	5,252	499,200	6,970	
43	1/25/2017	101	7,617	8,280	5,154	501,560	6,880	
44	1/26/2017	100	7,354	7,861	5,313	501,680	7,294	
45	1/26/2017	100	7,418	8,062	5,343	501,040	6,826	
46	1/26/2017	101	7,343	8,039	4,863	499,620	6,841	
47	1/27/2017	100	7,485	7,834	5,218	498,840	6,822	
48	1/27/2017	100	7,387	7,846	5,415	501,140	6,988	
49	1/27/2017	95	7,119	8,703	4,739	499,660	6,724	
50	1/28/2017	94	7,135	8,256	5,276	499,540	6,727	

11/12/2021

MICHAEL DUNN MSH 210H

PERF SUMMARY

STAGE NUM	Perf Date	Perf Top MD	Perf Bottom MD	# SHOTS PER STG
1	1/10/2017	14,305	14,412	48
2	1/10/2017	14,165	14,272	42
3	1/11/2017	14,025	14,128	42
4	1/11/2017	13,885	13,992	42
5	1/11/2017	13,745	13,852	42
6	1/11/2017	13,605	13,712	42
7	1/12/2017	13,465	13,572	42
8	1/12/2017	13,325	13,432	42
9	1/12/2017	13,185	13,292	42
10	1/13/2017	13,045	13,152	42
11	1/13/2017	12,905	13,012	42
12	1/13/2017	12,765	12,872	42
13	1/14/2017	12,625	12,732	42
14	1/14/2017	12,485	12,592	42
15	1/14/2017	12,345	12,452	42
16	1/15/2017	12,205	12,312	42
17	1/15/2017	12,065	12,172	42
18	1/15/2017	11,925	12,032	42
19	1/16/2017	11,785	11,892	42
20	1/16/2017	11,645	11,752	42
21	1/16/2017	11,505	11,612	42
22	1/17/2017	11,365	11,472	42
23	1/17/2017	11,226	11,332	48
24	1/18/2017	11,085	11,192	48
25	1/18/2017	10,945	11,052	48
26	1/18/2017	10,805	10,912	48
27	1/19/2017	10,665	10,772	48
28	1/19/2017	10,525	10,632	42
29	1/19/2017	10,385	10,492	42
30	1/20/2017	10,245	10,352	42
31	1/20/2017	10,105	10,212	42
32	1/20/2017	9,965	10,072	42
33	1/20/2017	9,825	9,932	42
34	1/21/2017	9,685	9,792	42
35	1/21/2017	9,545	9,652	42
36	1/21/2017	9,405	9,512	42
37	1/22/2017	9,265	9,372	42
38	1/23/2017	9,125	9,232	42
39	1/24/2017	8,985	9,092	42
40	1/24/2017	8,845	8,952	42
41	1/25/2017	8,705	8,812	42
42	1/25/2017	8,565	8,672	42
43	1/25/2017	8,425	8,532	42
44	1/26/2017	8,285	8,392	42
45	1/26/2017	8,145	8,252	42
46	1/26/2017	8,005	8,112	42

11/12/2021

MICHAEL DUNN MSH 210H
PERF SUMMARY

47	1/27/2017	7,865	7,972	42
48	1/27/2017	7,725	7,832	42
49	1/27/2017	7,585	7,692	42
50	1/28/2017	7,445	7,552	42

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/10/2017
Job End Date:	1/28/2017
State:	West Virginia
County:	Marshall
API Number:	47-051-01600-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Michael Dunn MSH 210H
Latitude:	39.89721900
Longitude:	-80.55402000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,854
Total Base Water Volume (gal):	15,033,316
Total Base Non Water Volume:	0



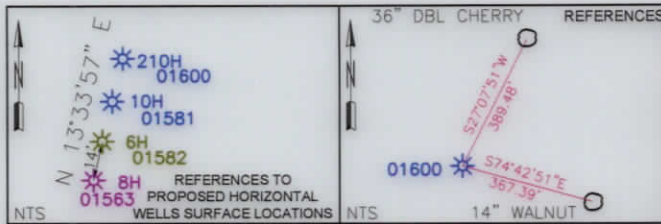
Hydraulic Fracturing Fluid Composition:

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	82.18200	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	1.34060	

SAND- PREMIUM WHITE-40/70, BULK	Halliburton	Proppant											
					Listed Below								
HYDROCHLORI C ACID	Halliburton	Solvent											
					Listed Below								
SAND-COMMON WHITE - 100 MESH, 3307 LB BAG	Halliburton	Proppant											
					Listed Below								
HAI-150E	Halliburton	Corrosion Inhibitor											
					Listed Below								
Bactron K-219	Nalco Champion Company	Biocide											
					Listed Below								
FDP-S1176-15	Halliburton	Friction Reducer											
					Listed Below								
EC6486A	Nalco Champion Company	Scale Inhibitor											
					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				16.41483		
				Hydrochloric acid	7647-01-0		15.00000				0.19334		
				Hydrotreated light petroleum distillate	64742-47-8		30.00000				0.02585		

JACKSON SURVEYING
INC.

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



SURFACE HOLE LOCATION (SHL):		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,416,445.521		
EASTING: 538,125.883		
"LANDING POINT" LOCATION (LPL):		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,416,471.560		
EASTING: 538,736.246		
BOTTOM HOLE LOCATION (BHL):		
UTM (NAD83, ZONE 17, METERS):		
NORTHING: 4,414,452.381		
EASTING: 539,662.050		

- A-GARY L. MITCHELL & MONA S. MITCHELL 4.258 AC. T.M. 15-12-08
- B-ROBERT WILLIAM BROWN 3.695 AC. T.M. 15-12-07
- C-CONSOL PENNSYLVANIA COAL COMPANY, LLC 4.643 AC. T.M. 15-12-06
- D-HELEN L. DOMAN 48.66 AC. T.M. 15-12-23
- F-WILLIAM B. SCHAFER ET AL 9.92 AC. T.M. 15-12-10.1
- F-MICHELLE P. NEELY 8.474 AC. T.M. 03-05-04.1
- G-STEVEN L. ROBINSON ET UX 9.4 AC. T.M. 03-05-05.1
- H-LINDA L. MCCrackEN 66.33 AC. T.M. 03-05-09
- I-MILTON E. & LINDA MCCrackEN 3.906 AC. T.M. 03-05-07
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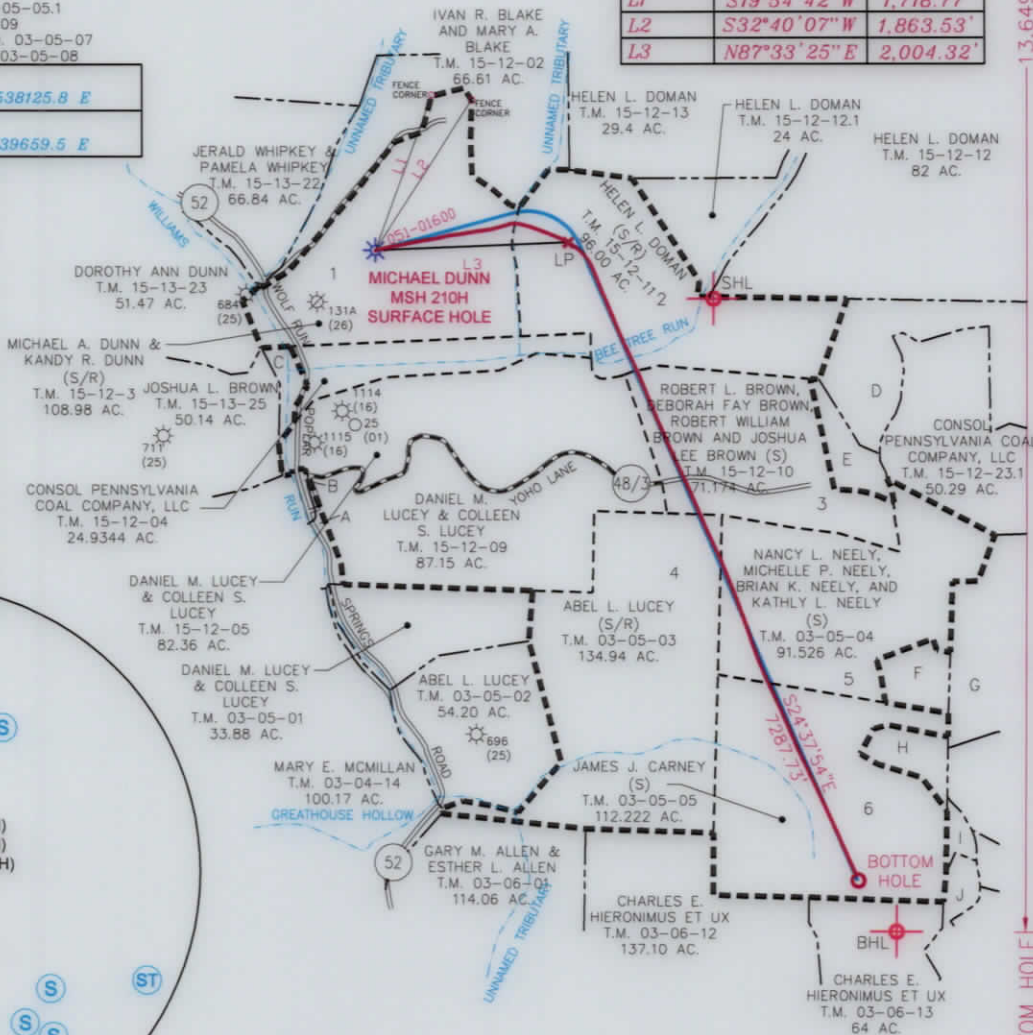
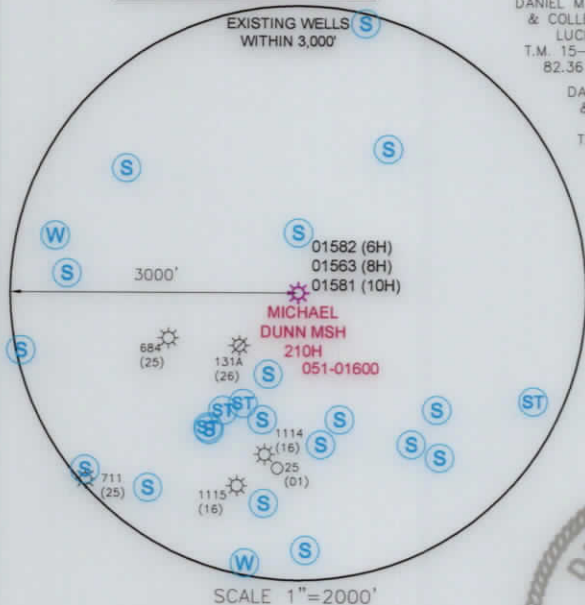
SURFACE HOLE LOCATION
UTM NAD 83 (METERS)-4416444.9 N, 538125.8 E
BOTTOM HOLE LOCATION
UTM NAD 83 (METERS)-4414451.4 N, 539659.5 E

NUMBER	DIRECTION	DISTANCE
L1	S19°54'42"W	1,718.77'
L2	S32°40'07"W	1,863.53'
L3	N87°33'25"E	2,004.32'

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



- 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

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

MICHAEL DUNN MSH

OPERATOR'S WELL #: 210H

API WELL #: 47 051 01600

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 11/12/2021

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

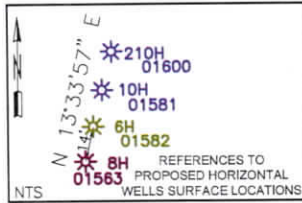
LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- ⊘ ABANDONED WELL
- ⊗ PLUGGED & ABANDONED WELL
- △ CUT CONDUCTOR
- LEASE BOUNDARY
- PERMIT DHP
- MARCELLUS DHP
- ABANDONED PATH

REVISIONS: DATE: 07-12-2016

DRAWN BY: N. MANO
SCALE: 1" = 2000'
DRAWING NO:
WELL LOCATION PLAT

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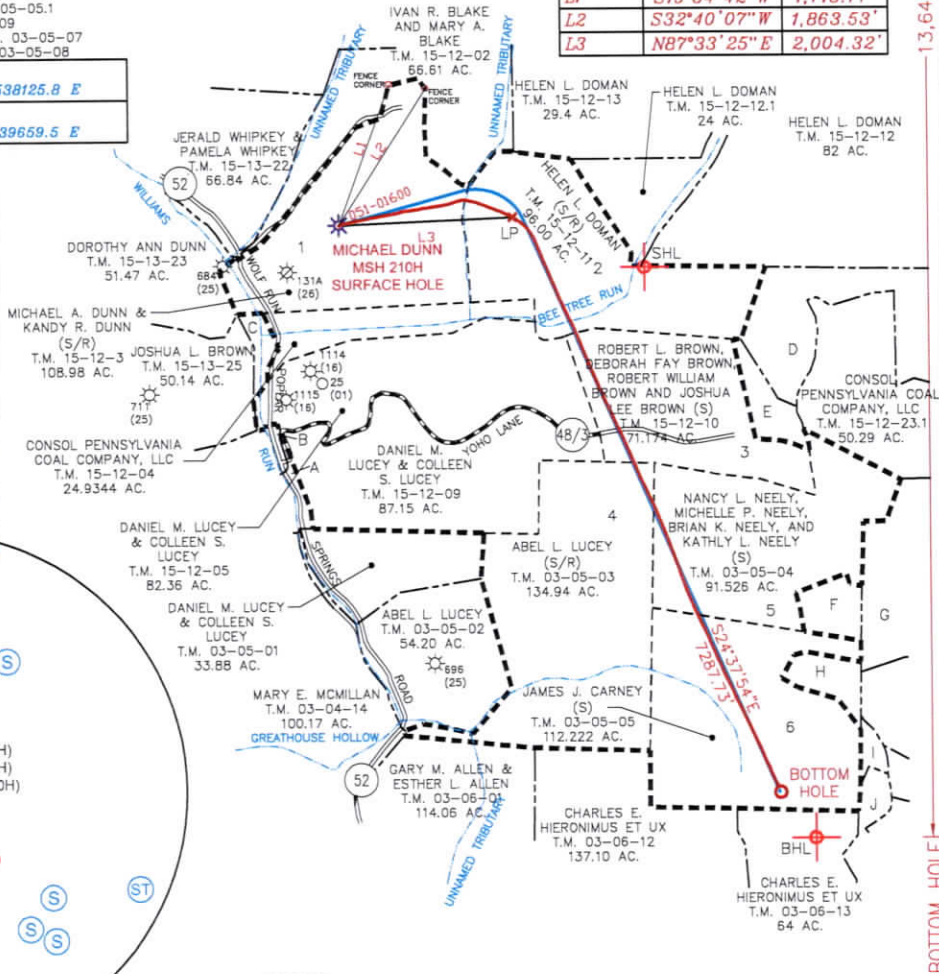
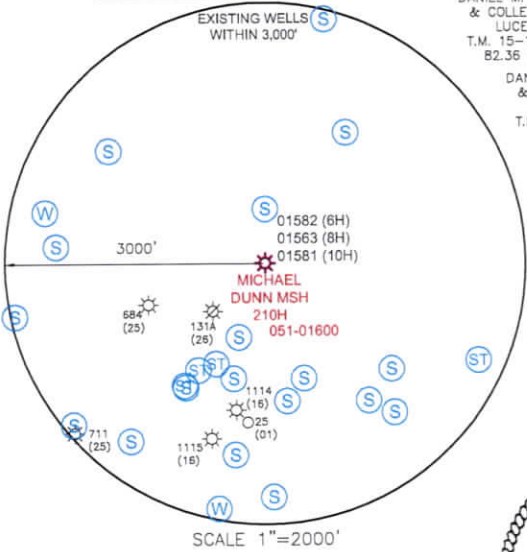
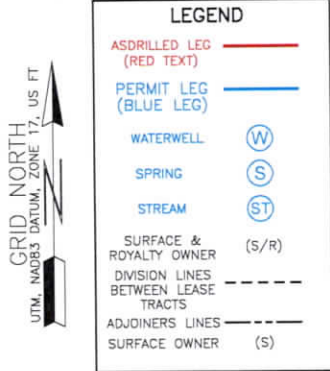
SURFACE HOLE 3,465'
Latitude: 39°55'00" BOTTOM HOLE 1,542'

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PLAT SCALE 1"=2000'



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P.S. 708 *David L Jackson*

COMPANY: **SWN** Production Company, LLC

<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	MICHAEL DUNN MSH
	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: 210H
	API WELL #: 47 051 01600	STATE COUNTY PERMIT

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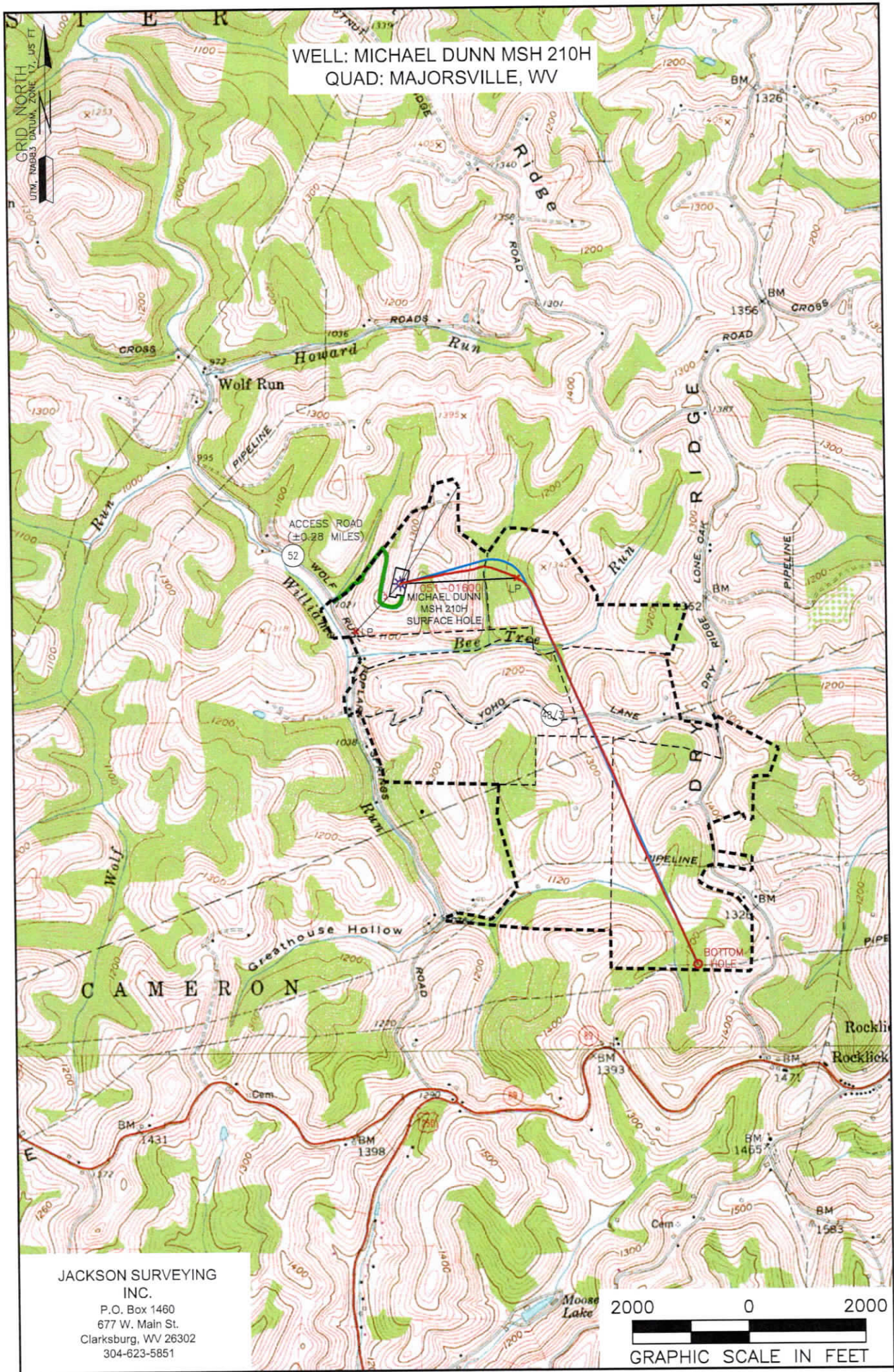
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,833' TVD 12,987' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL

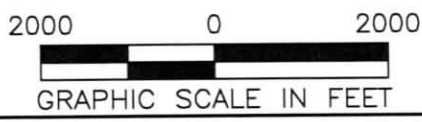
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

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	--- LEASE BOUNDARY	DRAWN BY: N. MAND
⊙ EXISTING / PRODUCING WELLHEAD	--- PERMIT DHP	SCALE: 1"=2000'
⊙ ABANDONED WELL	--- MARCELLUS DHP	DRAWING NO:
⊙ PLUGGED & ABANDONED WELL	--- ABANDONED PATH	WELL LOCATION PLAT
△ CUT CONDUCTOR		



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 210H	Well# 210H
Address PO BOX 1300 JANE LEW, WV 26378	County MARSHALL	District WEBSTER
Surface Landowner/ Lessor MICHAEL A. DUNN ET UX	USGS 7 1/2 Quadrangle Map Name MAJORSVILLE	

11/12/2021