

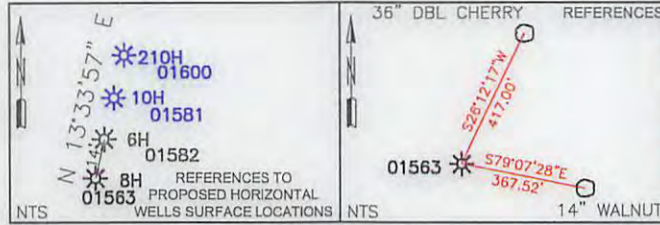
JACKSON SURVEYING INC.

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

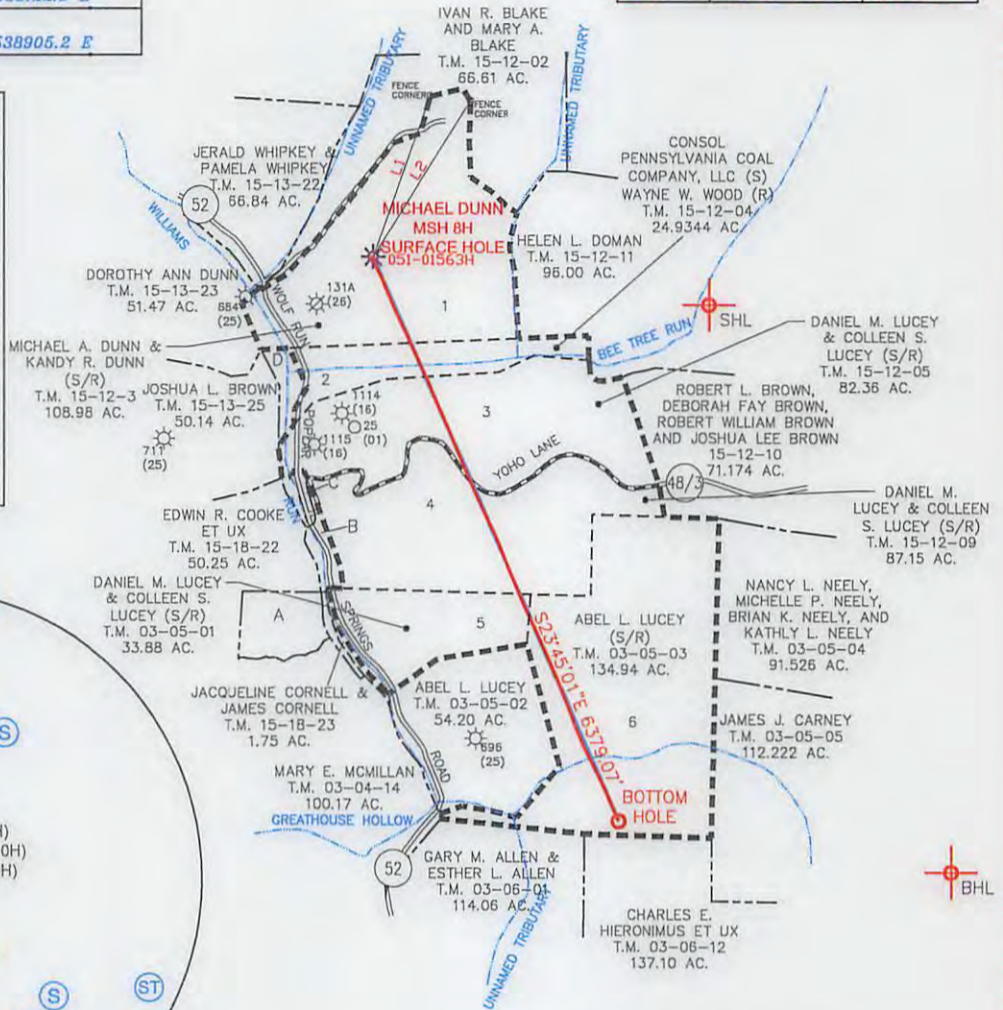
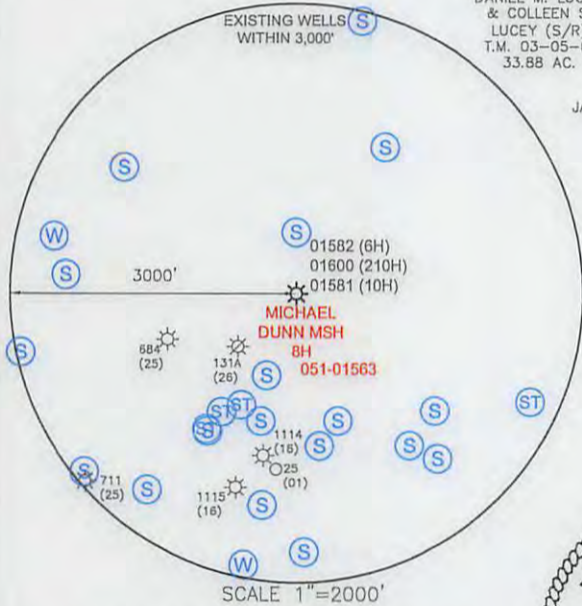


SURFACE HOLE LOCATION (SHL):		
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,416,432.619	
	EASTING: 538,122.770	
BOTTOM HOLE LOCATION (BHL):		
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,414,652.940	
	EASTING: 538,905.854	

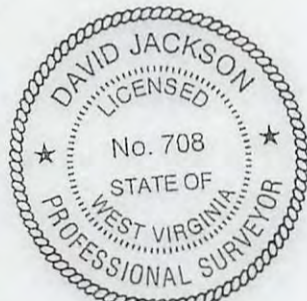
NUMBER	DIRECTION	DISTANCE
L1	S19°45'19\"/>	

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)



- 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'

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

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 ELEVATION: GRADE GPS (NAVD 88, US FT)

OPERATOR'S WELL #: MICHAEL DUNN MSH 8H
API WELL #: 47 051 01563F
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

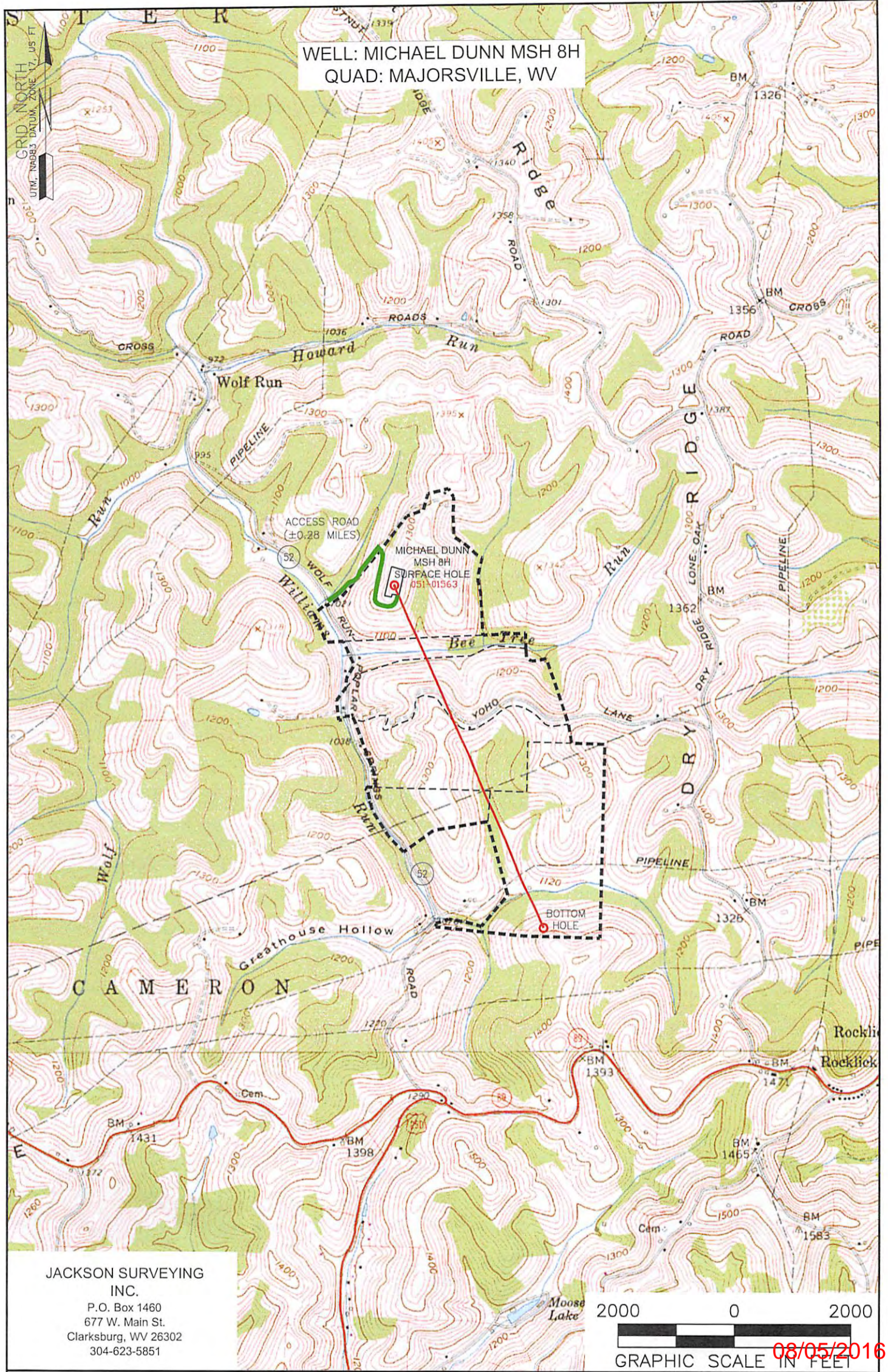
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) ASDRILLED 08/05/2016

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

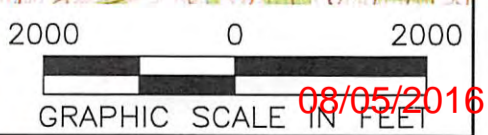
WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND:	REVISIONS:	DATE: 07-01-2016
○ 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 8H
 QUAD: MAJORSVILLE, WV



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 INC.
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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 8H	Well# 8H (051-01563)
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	