SURFACE HOLE 3,475'

Latitude: 39°55'00" BOTTOM HOLE 936'

Longitude: 80°32'30"

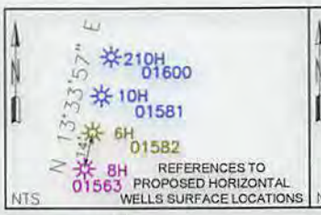
12,978'

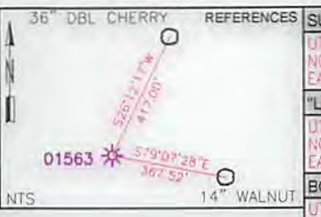
7,124'

SURFACE HOLE

BOTTOM HOLE

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

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

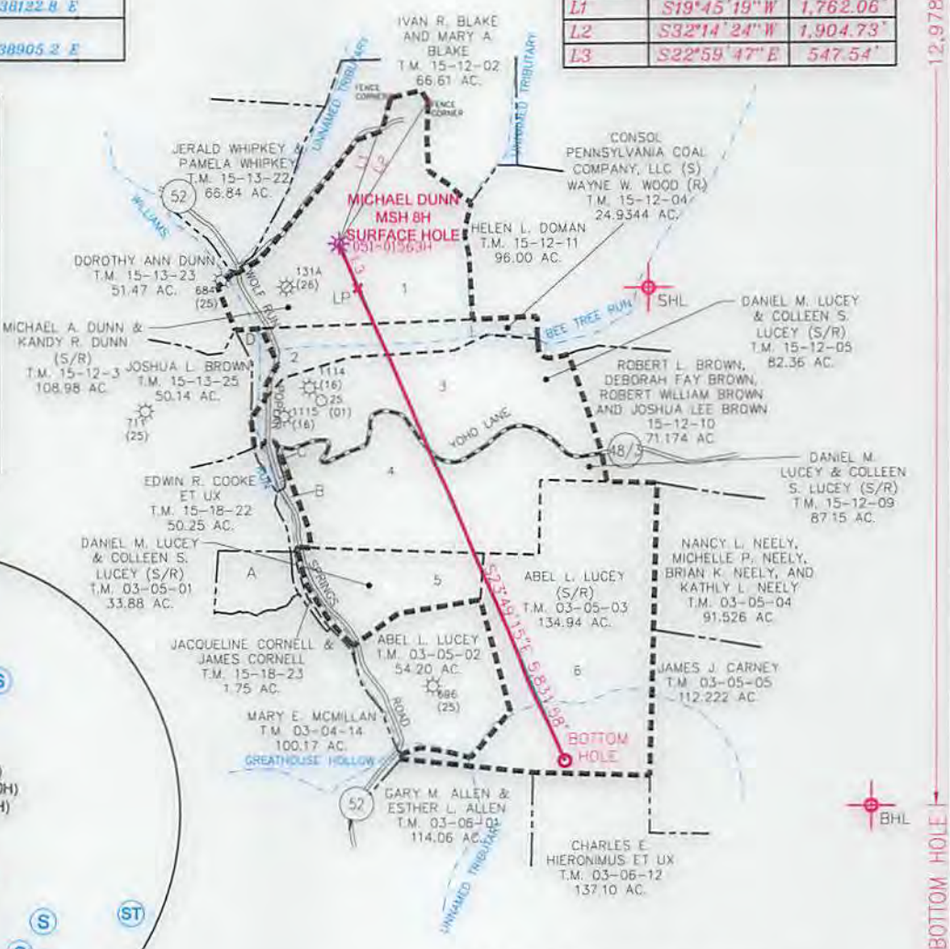
SURFACE HOLE LOCATION
UTM NAD 83 (METERS)-4416432.4 N, 538122.8 E
BOTTOM HOLE LOCATION
UTM NAD 83 (METERS)-4414652.9 N, 538905.2 E

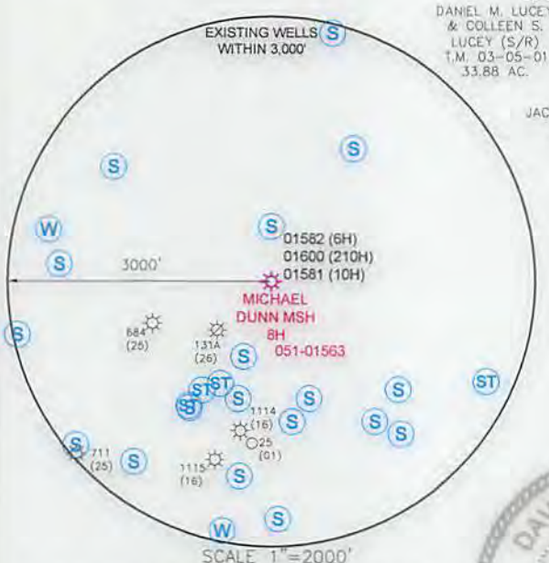
NUMBER	DIRECTION	DISTANCE
L1	S19°45'19"W	1,762.06'
L2	S32°14'24"W	1,904.73'
L3	S22°59'47"E	547.54'

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
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 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

DAVID JACKSON LICENSED No. 708 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

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

OPERATOR'S WELL #: MICHAEL DUNN MSH 8H

API WELL #: 47 (STATE) 051 (COUNTY) 01563 (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

01/05/2018

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

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

DESIGNATED AGENT: DEE SOUTHALL
ADDRESS: P.O. BOX 1300
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: 07-05-2016
⚠ 07-05-2016 ADDED LP	
	DRAWN BY: N. MANO
	SCALE: 1" = 2000'
	DRAWING NO:
	WELL LOCATION PLAT

\\D7W3HRL1\1-04-16 DJ\SWN\MICHAEL DUNN MSH\WELL PLAT\8H ASDRILLED\PRIOR DRAWING\MICHAEL DUNN MSH 8H ASDRILLED 07-05-2016.DWG
THURSDAY FEBRUARY 09 2017 09:59AM

PROPERTY NUMBER 2501160320
PAD ID 3001155648