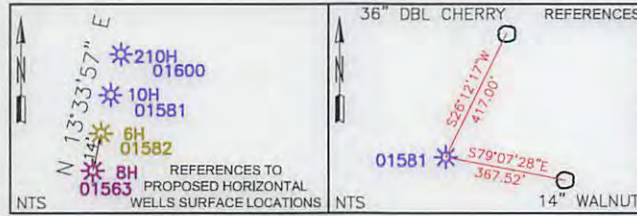


JACKSON SURVEYING
INC.
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

SURFACE HOLE 3,469'
Latitude: 39°55'00" BOTTOM HOLE 395'



REFERENCES	
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	

Longitude: 80°32'30"
7.097'

- 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 66.33 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

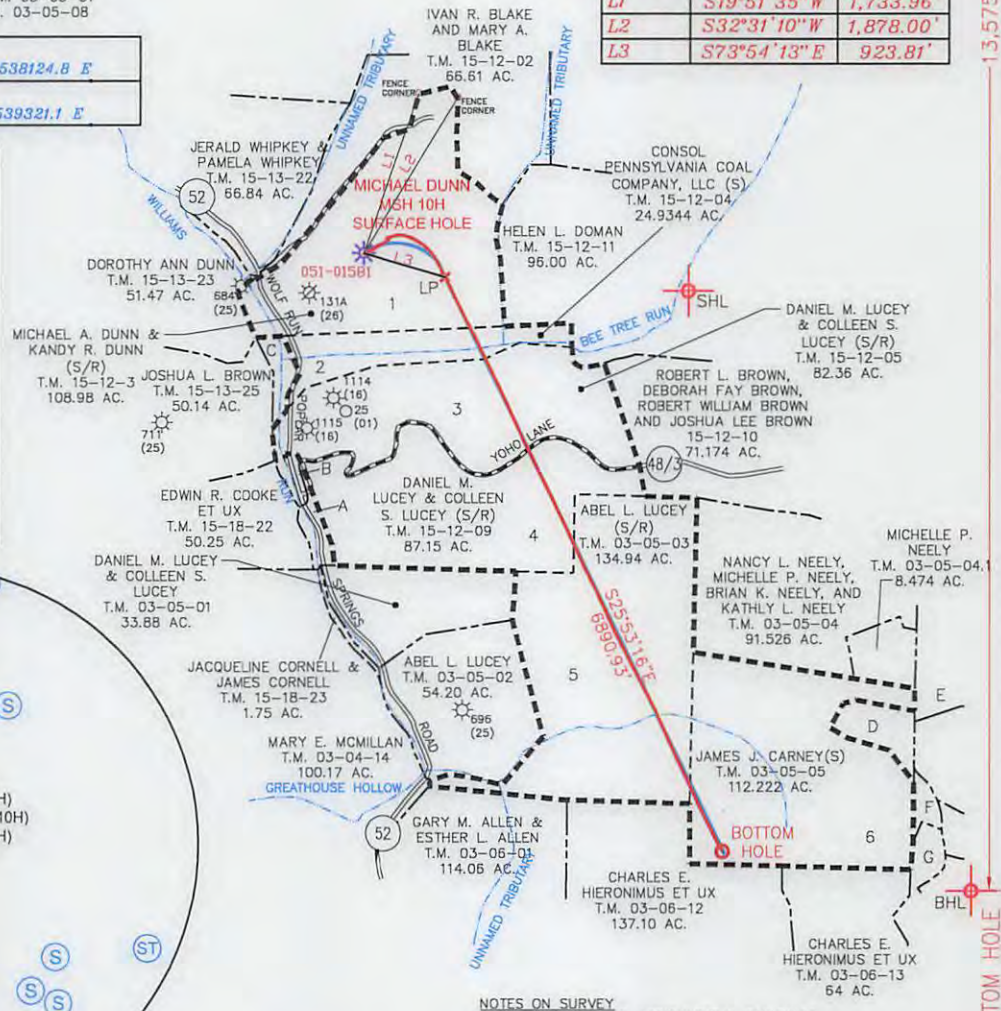
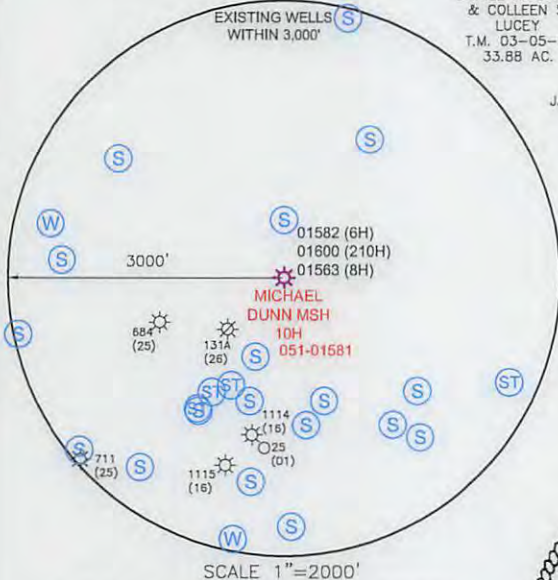
SURFACE HOLE LOCATION
UTM NAD 83 (METERS)-4416440.7 N, 538124.8 E
BOTTOM HOLE LOCATION
UTM NAD 83 (METERS)-4414464.1 N, 539321.1 E

NUMBER	DIRECTION	DISTANCE
L1	S19°51'35"W	1,733.96'
L2	S32°31'10"W	1,878.00'
L3	S73°54'13"E	923.81'

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)

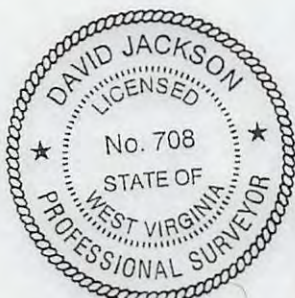
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



- 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.

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 GRADE GPS ELEVATION: (NAVD 88, US FT)	COMPANY: MICHAEL DUNN MSH OPERATOR'S WELL #: 10H API WELL #: 47 051 01581F 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' TWD 12,987' TWD

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	REVISIONS: --- LEASE BOUNDARY --- PERMIT DHP --- MARCELLUS DHP --- ABANDONED PATH	DATE: 07-12-2016 DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT
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51-01581 F

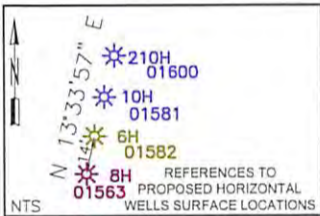
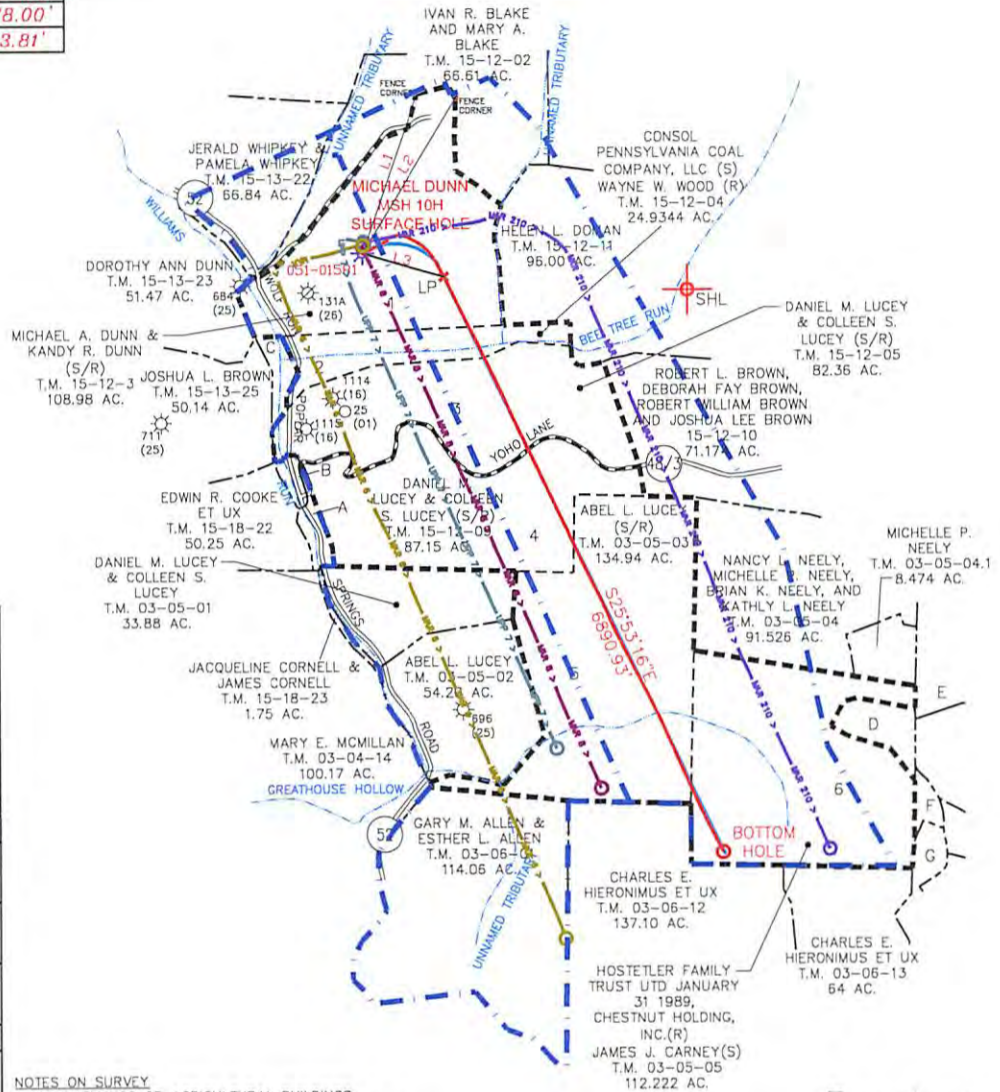
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GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



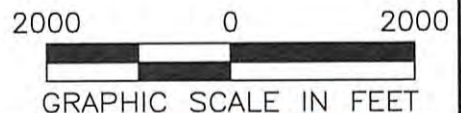
REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS	
SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 39.897185°	LONGITUDE: -80.554032°
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,489,606.864	EASTING: 1,765,497.645
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,416,441.005	EASTING: 538,124.758
LANDING POINT LOCATION (LPL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 39.896469°	LONGITUDE: -80.550872°
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,489,350.734	EASTING: 1,766,385.235
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,416,362.936	EASTING: 538,395.296
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 39.879403°	LONGITUDE: -80.540260°
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,483,151.304	EASTING: 1,769,393.885
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,414,473.346	EASTING: 539,312.335

NOTES ON SURVEY

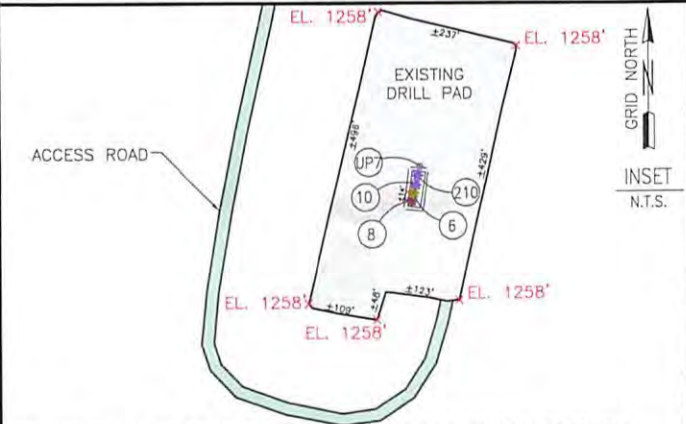
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**SWN PRODUCTION COMPANY, LLC
SURFACE HOLES**

- "MICHAEL DUNN MSH 6H"
- "MICHAEL DUNN UP MSH 7H"
- "MICHAEL DUNN MSH 8H"
- "MICHAEL DUNN MSH 10H"
- "MICHAEL DUNN MSH 210H"



Received
Office of Oil & Gas
JUL 14 2016



NOTE: ANY UTILITIES OR IMPROVEMENTS SHOWN ON THIS PLAT ARE FROM REASONABLE VISUAL OBSERVATIONS. NO UTILITY COMPANIES WERE CONTACTED FOR UTILITY LINE LOCATIONS.

○	PROPOSED SURFACE HOLE / BOTTOM HOLE	— — — — —	DRILLING UNIT
⊙	EXISTING / PRODUCING WELLHEAD	— — — — —	LEASE BOUNDARY
⊗	ABANDONED WELL	— — — — —	500' DHP BUFFER
⊗	PLUGGED & ABANDONED WELL	— — — — —	MARCELLUS DHP
△	CUT CONDUCTOR	— — — — —	ABANDONED PATH

COMPANY:	SWN Production Company, LLC	SWN ^{RT-V+} Production Company™
OPERATOR'S	MICHAEL DUNN MSH	
WELL #:	10H	
LOCATION:	WEBSTER DISTRICT, MARSHALL COUNTY, WEST VIRGINIA	
SURFACE HOLE LOCATION:	GEOGRAPHIC (NAD83): LATITUDE: 39.897185° LONGITUDE: -80.554032°	
BOTTOM HOLE LOCATION:	GEOGRAPHIC (NAD83): LATITUDE: 39.879403° LONGITUDE: -80.540260°	
REVISIONS:	DATE: 07-12-2016	
	DRAWN BY: N. MANO	
	SCALE: 1" = 2000'	
	DRAWING NO:	
	INTERNAL WELL PLAT	

08/12/2016