

987'

Latitude: 39°45'00"

Longitude: 80°42'30"

10,370'

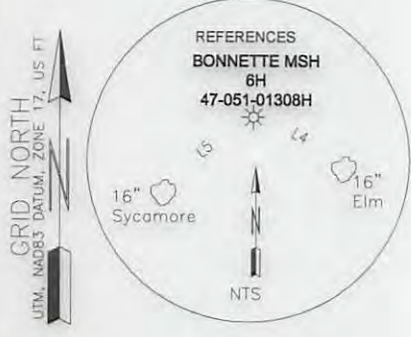
**JACKSON SURVEYING
INC.**
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

LINE	DESCRIPTION	DISTANCE	DESCRIPTION
L1	N 10°02'13" W	2,457.21'	SHL TO FENCE CORNER
L2	S 29°43'47" E	1,031.89'	SHL TO 34" W.O.
L3	S 27°57'08" E	504.74'	SHL TO LPL
L4	S 61°34'00" E	332.20'	SHL TO 16" ELM
L5	S 48°21'55" W	362.05'	SHL TO 16" SYCA.

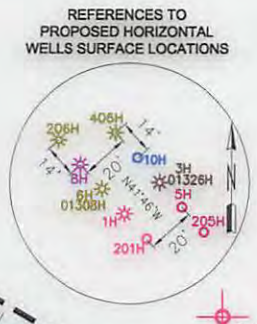
NOTES ON SURVEY

- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- A DWELLING IS LOCATED S14°16'W 535' FROM THE CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- 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.

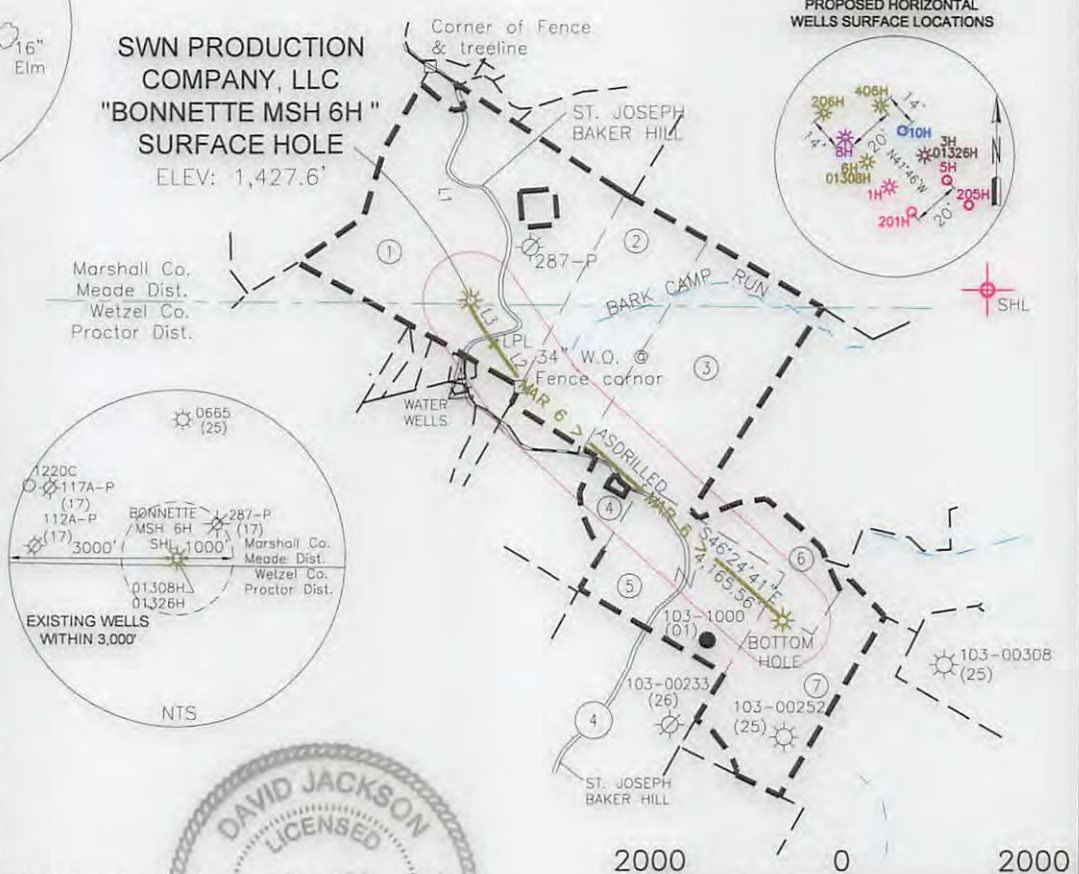
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	ROBERT WILLIAM BONNETTE ET UX (S) / ANDREW STEIN (R)	09-22-08	126.53
2	PAUL & CYNTHIA FOX (S) / C.P. HERRICK (R)	12-04-01	56.00
3	PAUL & CYNTHIA FOX (S) / C.P. HERRICK (R)	12-04-02	74.70
4	LAWRENCE E. BLATT JR (S) / JOSEPH C. & HILDA WEIGAND (R)	12-03-11.3	7.42
5	PATSY L. DULANEY & DENNIS L. ROMANOSKI (S) / LAVINA M. BAUER, LAURA BATES, LEONA PIETRO, A/K/A LEONA J. ESTEP PIETRO, VIRGINIA ANN MILLER, KATHALEEN C. LEWIS, PAUL EDWARD ESTEP, ANNE CHRISTINE GRIFFITH, JOHN LAWRENCE ESTEP, MARY CATHERINE WEST, JANET L. OLESKY, A/K/A JANET L. ESTEP OLESKY, F/K/A JANET L. ESTEP, MARY A. HUFF, A/K/A MARY A. ESTEP HUFF, F/K/A MARY A. ESTEP, BARBARA A. CRAWFORD, A/K/A BARBARA A. ESTEP CRAWFORD, F/K/A BARBARA A. ESTEP, WILLIAM D. PIERSON, A/K/A BILL PIERSON, CHARLES J. ESTEP, PATSY L. DULANEY, WILLIAM GATCHELL, & JAY LEE HOWELL, A/K/A JAY HOWELL (R)	12-04-12	52.00
6	LAWRENCE E. BLATT (S) / HOWARD & CHRISTINA BLATT, ET AL (R)	12-04-13	22.14
7	EILEEN KLUG ET AL & JOAN LOUISE KLUG (S) / JOAN L. KLUG, ATTORNEY-IN-FACT FOR ROBERT A. KLUG, MARTIN L. KLUG, EILEEN J. KLUG, & RAYMOND E. KLUG (R)	12-04-22	48.00



SWN PRODUCTION COMPANY, LLC
"BONNETTE MSH 6H"
SURFACE HOLE
ELEV: 1,427.6'



SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 39.721522°
	LONGITUDE: -80.711843°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,425,460.918
	EASTING: 1,721,442.312
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,396,889.282
	EASTING: 524,696.666
"LANDING POINT" LOCATION (LPL):	
GEOGRAPHIC (NAD83):	LATITUDE: 39.720295°
	LONGITUDE: -80.711005°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,425,015.061
	EASTING: 1,721,678.902
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,396,753.384
	EASTING: 524,768.779
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	LATITUDE: 39.712380°
	LONGITUDE: -80.700311°
UTM (NAD83, ZONE 17, FEET):	NORTHING: 14,422,143.011
	EASTING: 1,724,696.052
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,395,877.981
	EASTING: 525,688.408



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 **SWN** Production Company™

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	BONNETTE MSH		
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: 47	051	01308
			STATE	COUNTY	PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: WHETSTONE CREEK OF UPPER OHIO RIVER 2 ELEVATION: 1,427.6'

DISTRICT: MEADE COUNTY: MARSHALL QUADRANGLE: WILEYVILLE 7 1/2'

SURFACE OWNER: ROBERT WILLIAM BONNETTE ET UX ACREAGE: 126.53 ac.

OIL & GAS ROYALTY OWNER: ANDREW STEIN ACREAGE: 126.53 ac.

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) ASDRILLED / Frac 10/23/2015

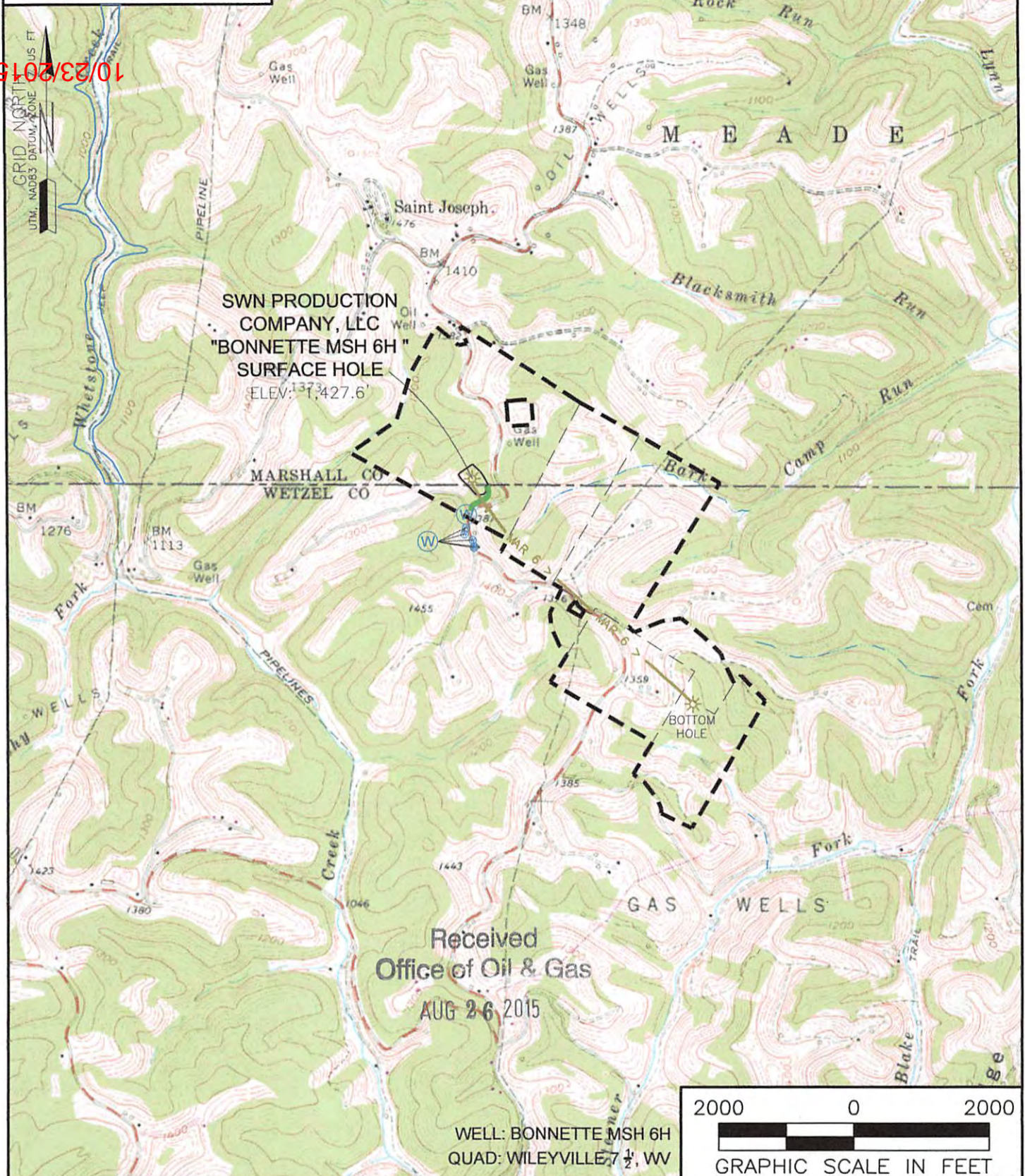
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,163' TVD 11,599' TMD

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: 06-18-2015
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊙ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR 	<ul style="list-style-type: none"> --- LEASE BOUNDARY --- 500' DHP BUFFER - MAR 6 - MARCELLUS DHP --- ABANDONED PATH 	DRAWN BY: N. MANO SCALE: 1" = 2000' DRAWING NO: WELL LOCATION PLAT

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

10/23/2015



Received
 Office of Oil & Gas
 AUG 26 2015

WELL: BONNETTE MSH 6H
 QUAD: WILEYVILLE 7 1/2, WV



NAME AND DISTANCE TO THE NEAREST STREAM: WHETSTONE CREEK IS LOCATED ±0.76 MILES SW OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: 	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: 535 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S BONNETTE MSH			
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0230 E; EFFECTIVE DATE: SEPTEMBER 25 2009. NO FEMA INFORMATION AVAILABLE FOR WETZEL COUNTY.		WELL #: 6H		LOCATION: MEADE DISTRICT, MARSHALL COUNTY, WEST VIRGINIA	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR ○ EXISTING SPRING ⊙ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.721522° LONGITUDE: -80.711843°		REVISIONS:	
		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.712380° LONGITUDE: -80.700311°		DATE: 06-18-2015	
		DATE: 06-18-2015		DRAWN BY: N. MANO	
		SCALE: 1" = 2000'		DRAWING NO:	
		TOPOGRAPHIC MAP		PROPERTY NUMBER 2501160281 PAD ID 3001155956	