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LINE	DESCRIPTION	DISTANCE	DESCRIPTION	MONUMENT
L1	N02°36'42"W	185'	SHL TO REF. PIN	IRON PIN
L2	N80°27'36"W	218'	SHL TO REF. PIN	IRON PIN
L3	N48°29'18"W	193'	SHL TO LANDMARK	POST
L4	N03°27'13"E	1,630'	SHL TO LANDMARK	REBAR
L5	N19°55'48"E	807'	SHL TO LP	
L6	N24°25'17"W	8,143'	LP TO BHL	

Latitude: 40°02'30"

684'

Longitude: 80°37'30"

12,772'

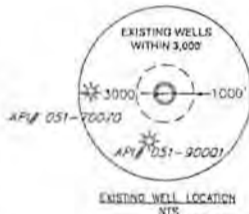
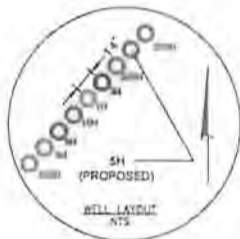
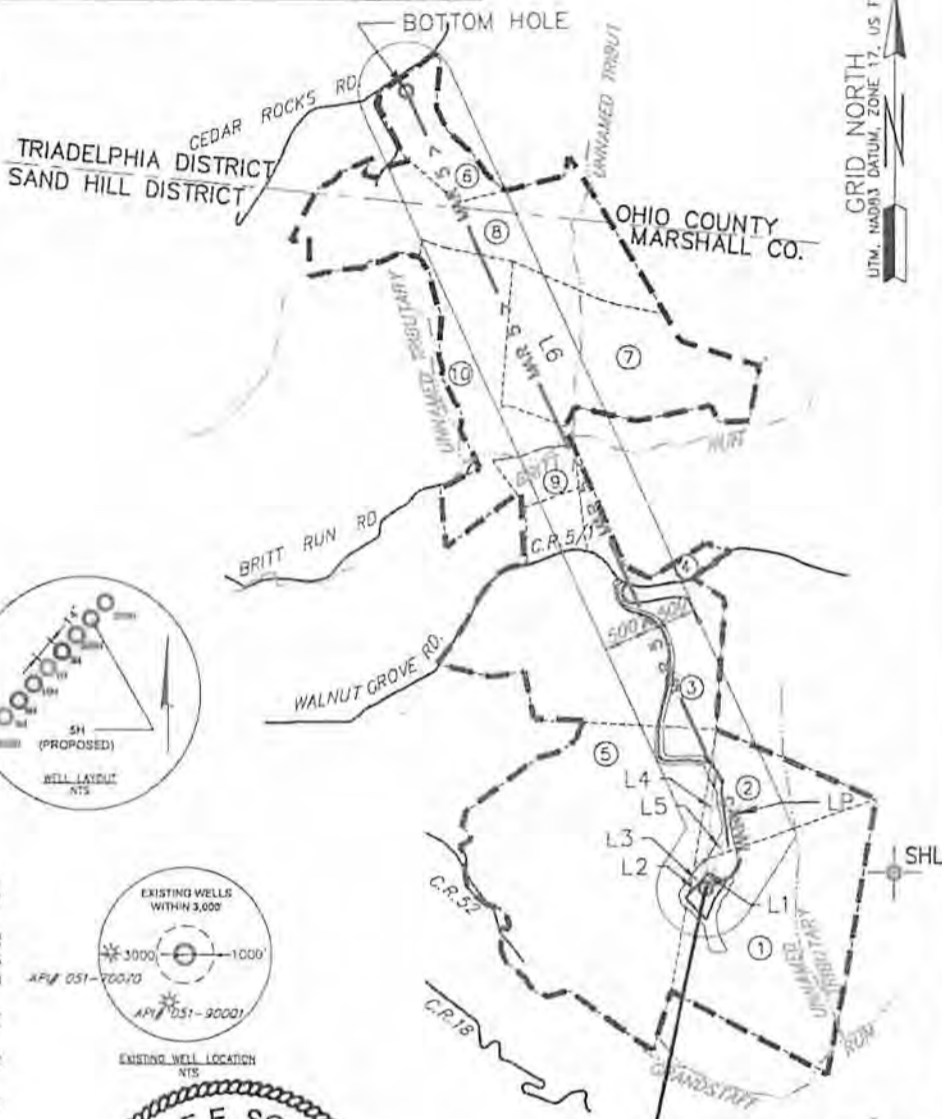
TRACT	SURFACE OWNER (S)	ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	EDGE, WILLIAM F. JR. & BARBARA (S)/FLETCHER, JOSEPHINE (R)		12-9-B	87.8±
2	EDGE, WILLIAM F. JR. & BARBARA (S)/FLETCHER, JOSEPHINE (R)		12-9-B.1	28.0±
3	SCHILLINGER, WARR & ANICKA R. (S)/(R)		12-1-18	93.8±
4	WELLS, VOLAT E. (S)/(R)		12-1-18.3	8.0±
5	FELKER, ERIN R. & EDITH (S)/(R)		12-1-19	112.6±
6	CAPONE, FAYMONI A. & KAREN (S)/(R)		6-117-15	22.3±
7	COFFIELD, MICHEL L. & THANE K. (S)/(R)		12-1-13	71.6±
8	HUTMAN, WALTER LEWIS & OLGA LUCIE (S)/(R)		12-1-10.1	47.8±
9	BARLOWER, BEYRON (S)/(R)		12-1-18.4	7.5±
10	BARLOWER, BEYRON (S)/(R)		12-1-11	48.5±

2000 0 2000



GRAPHIC SCALE IN FEET

SURFACE HOLE LOCATION (SHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.006607°	
LONGITUDE: -80.627443°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,529,357.404'	
EASTING: 1,744,741.680'	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,428,556.993'	
EASTING: 531,798.327'	
LANDING POINT LOCATION (LPL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.008667°	
LONGITUDE: -80.626449°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,530,116.030'	
EASTING: 1,745,016.790'	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,428,788.224'	
EASTING: 531,882.181'	
BOTTOM HOLE LOCATION (BHL):	
GEOGRAPHIC (NAD83):	
LATITUDE: 40.029085°	
LONGITUDE: -80.638365°	
UTM (NAD83, ZONE 17, FEET):	
NORTHING: 14,537,530.010'	
EASTING: 1,741,650.030'	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,431,048.009'	
EASTING: 530,855.991'	



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.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED 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.

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. 2313

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: **SWN** Production Company, LLC
OPERATOR'S WELL #: 5H
API WELL #: 47 051 01845H6A Mod

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1265.6 (1,254 DESIGN)

DISTRICT: SAND HILL COUNTY: MARSHALL QUADRANGLE: WHEELING, WV-OHIO

SURFACE OWNER: EDGE, WILLIAM F. JR. & BARBARA ACREAGE: 87.8 ±

OIL & GAS ROYALTY OWNER: FLETCHER, JOSEPHINE ACREAGE: 115.8 ±

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

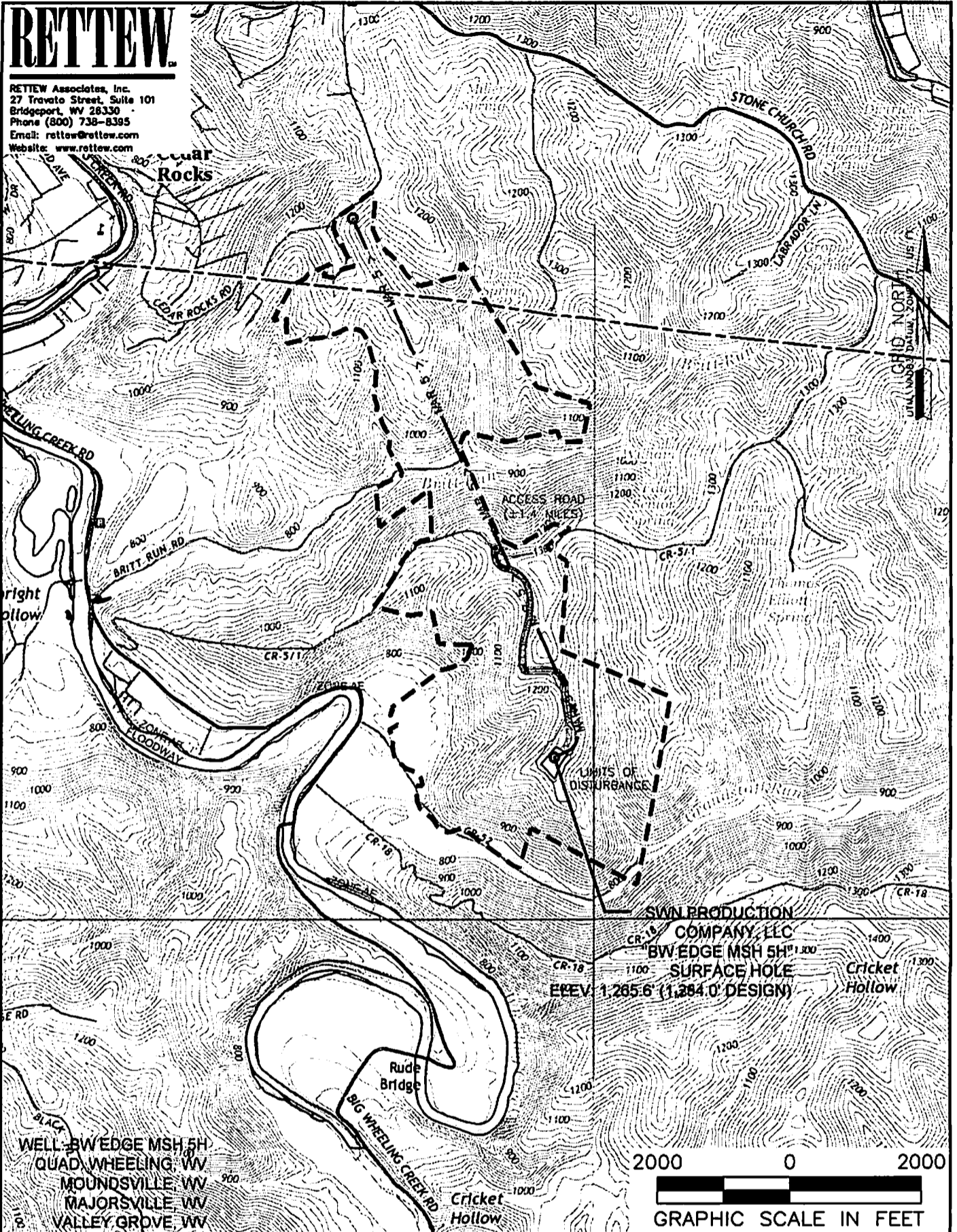
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,359' TVD 14,983' TMD

10/09/2015

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:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		08-07-2015
⊙ EXISTING / PRODUCING WELLHEAD		
⊘ ABANDONED WELL		
⊙ PLUGGED & ABANDONED WELL		
△ CUT CONDUCTOR		
---	LEASE BOUNDARY	
---	500' DHP BUFFER	
---	MAR 5 - MARCELLUS DHP	
---	ABANDONED PATH	
		DRAWN BY: B. HERMAN
		SCALE: 1" = 2000'
		DRAWING NO: 078569005
		WELL LOCATION PLAT



NAME AND DISTANCE TO THE NEAREST STREAM: UNNAMED TRIBUTARY TO GRANDSTAFF RUN IS LOCATED #0.17 MILES SE OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: SWN Production Company, LLC			
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: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET				OPERATOR'S BW EDGE MSH		WELL #: 5H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM UNINCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0019E, EFFECTIVE DATE SEPTEMBER 25, 2009.				LOCATION: SAND HILL DISTRICT, MARSHALL COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.006607° LONGITUDE: -80.627443°	
LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD X ABANDONED WELL X PLUGGED & ABANDONED WELL △ CUT CONDUCTOR (S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD				BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.029085° LONGITUDE: -80.638365°		10/09/2015	
REVISIONS:		DATE: 08-07-2015		DRAWN BY: B. HERMAN		SCALE: 1" = 2000'	
TOPOGRAPHIC MAP		PROPERTY NUMBER 2501161776		DRAWING NO: 078569005		PAD ID 3001161674	