

Top Hole Latitude: 40°15'00"

10.937'

7.871'

Bottom Hole Latitude: 40°15'00"

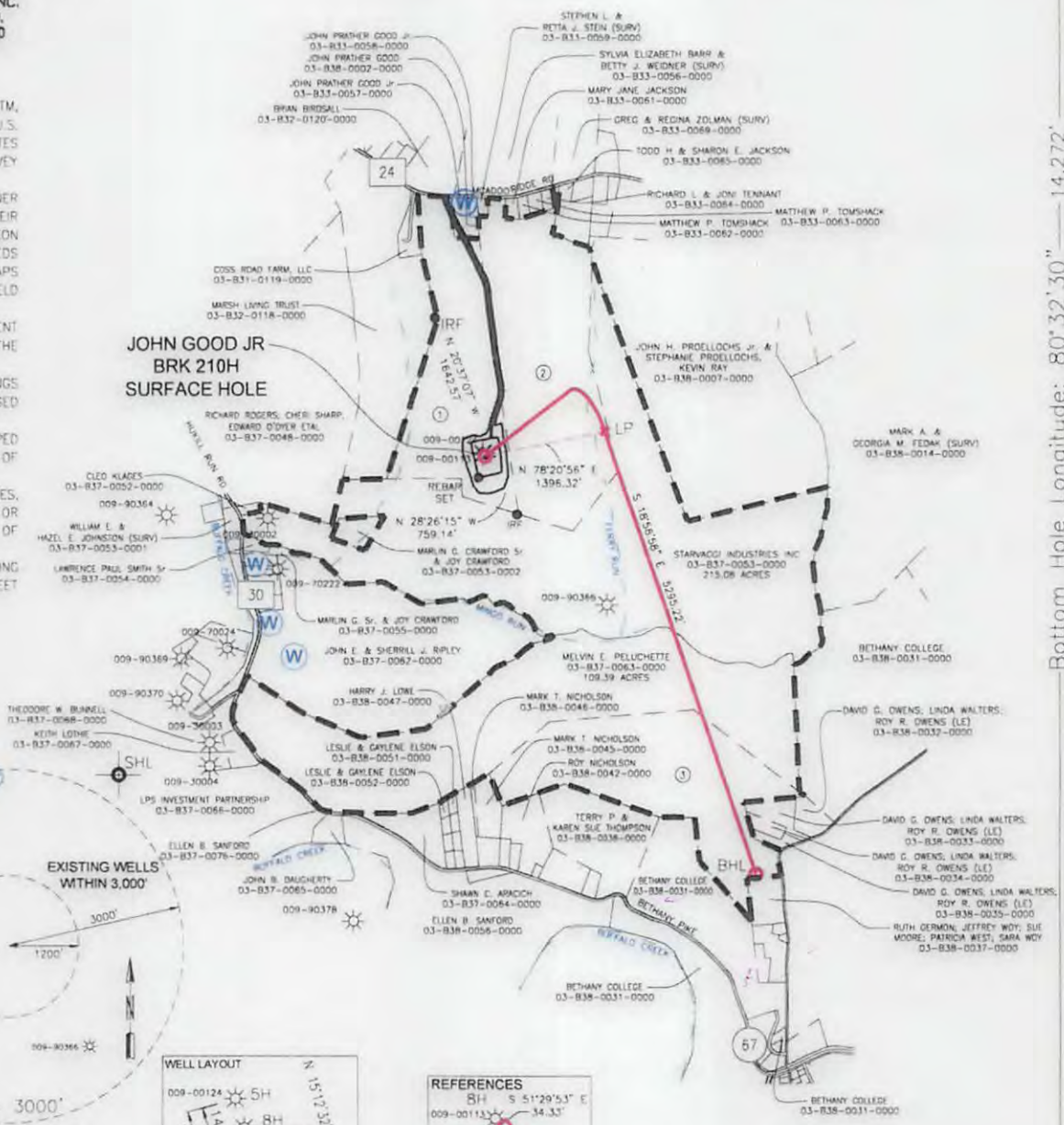
# THRASHER

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

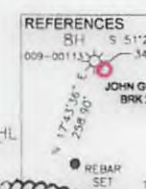
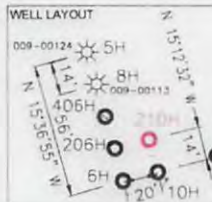
### NOTES ON SURVEY

- 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 OF 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.

### JOHN GOOD JR BRK 210H SURFACE HOLE



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

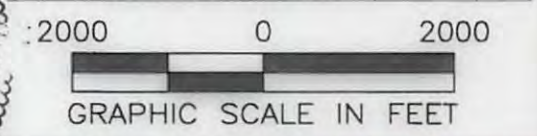


<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,686.963 EASTING: 535,680.686
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,772.913 EASTING: 535,097.516
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,451,246.701 EASTING: 535,622.517

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.



TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	JOHN PRATHER GOOD JR TRUSTEE OF THE JOHN P. GOOD JR IRREVOCABLE TRUST	03-B38-0001-0000	86.57
2	MARY JANE JACKSON	03-B38-0060-0000	89.784
3	ALLEN SCOTT JOHNSON, WARREN RAY JOHNSON, DEBORAH SUE CRAIG, VICTORIA LYNN OWENS, CHARLES LAWRENCE JOHNSON	03-B38-0036-0000	84.00



P.S. 2270 *[Signature]* 3/31/17

(+) 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:	SURVEY GRADE GPS (NAVD 88, US FT)	COMPANY:	<b>SWN</b> Production Company, LLC	<b>SWN</b> Production Company™	
	OPERATOR'S WELL #:	JOHN GOOD JR BRK 210H	API WELL #:	47	STATE:	WV	COUNTY:	BETHANY
					PERMIT:		009	00197

WELL TYPE:	OIL	WASTE DISPOSAL	PRODUCTION	DEEP	GAS	LIQUID INJECTION	STORAGE	SHALLOW
WATERSHED:	BUFFALO CREEK						ELEVATION:	1152.6'
DISTRICT:	BUFFALO						QUADRANGLE:	BETHANY
SURFACE OWNER:	JOHN P. GOOD III, TRUSTEE OF THE JOHN P. GOOD JR IRREVOCABLE TRUST						ACREAGE:	66.57
OIL & GAS ROYALTY OWNER:	JOHN P. GOOD JR						ACREAGE:	66.57
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:	6,007' TVD 11,815 TMD

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

LEGEND:	REVISIONS:	DATE:	03-31-17
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		DRAWN BY:	R.DOERR
⊗ EXISTING / PRODUCING WELLHEAD		SCALE:	1" = 200'
⊗ ABANDONED WELL		DRAWING NO.:	050-5700
⊗ PLUGGED & ABANDONED WELL		WELL LOCATION PLAT	
△ CUT CONDUCTOR			
○ EXISTING WATER WELL			
○ EXISTING SPRING			
--- LEASE BOUNDARY			
--- MARCELLUS DHP			
--- ABANDONED PATH			

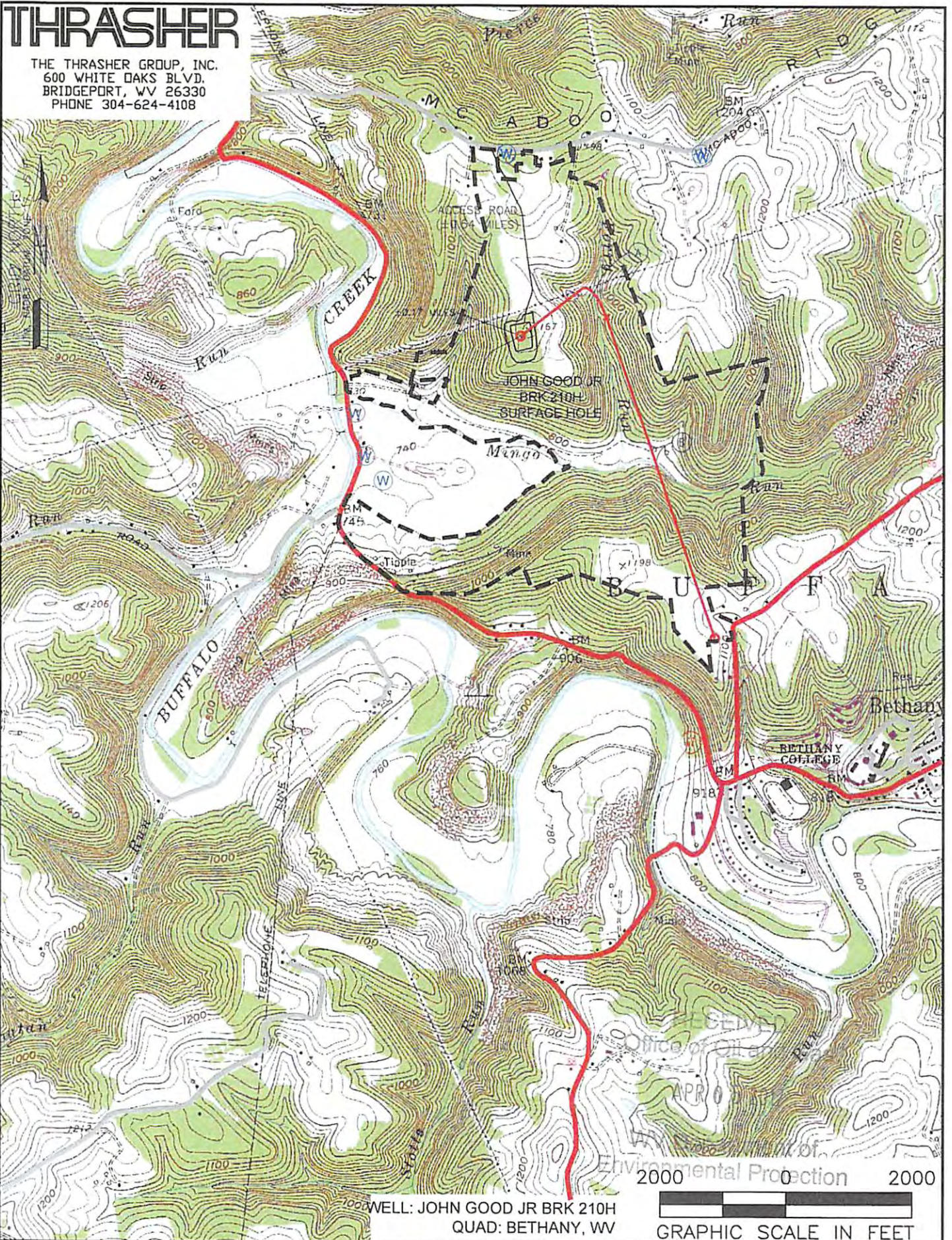
Bottom Hole Longitude: 80°32'30"  
Top Hole Longitude: 80°32'30"

06/09/2017



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WELL: JOHN GOOD JR BRK 210H  
QUAD: BETHANY, WV

GRAPHIC SCALE IN FEET

<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> UNNAMED TRIBUTARY TO MINGO RUN IS LOCATED ±0.18 MILES NORTHEAST OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> A. LAT: 40.225644' / LONG: -80.576441' B. LAT: 40.218284' / LONG: -80.572928'		<b>COMPANY:</b> 	
<b>WELL RESTRICTIONS:</b> 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		<b>OPERATOR'S</b> JOHN GOOD JR			
<b>FEMA FLOOD INFORMATION:</b> BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBER 54009C0130D; EFFECTIVE DATE: APRIL 19, 2010.		<b>WELL #:</b> BRK 210H		<b>LOCATION:</b> BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA	
<b>LEGEND:</b> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR ○ EXISTING SPRING W EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		<b>SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.223848' LONGITUDE: -80.580624' 06/09/2017		<b>BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.210832' LONGITUDE: -80.569637'	
<b>REVISIONS:</b>		DATE: 03-31-17		DRAWN BY: R.DOERR SCALE: 1" = 2000' DRAWING NO: 050-5700 TOPOGRAPHIC MAP	