

Latitude: 39°27'30" 7,751' SHL

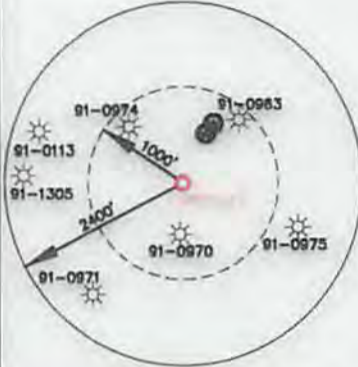
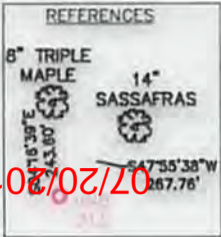
9,675' BHL

# THRASHER

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

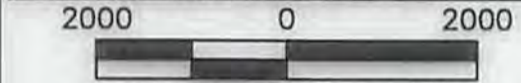
**NOTES ON SURVEY**

- 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 525 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.

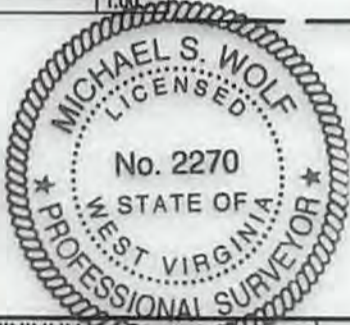


PROPOSED COORDINATES	
UTM (NAD83, ZONE 17, METERS)	
SURFACE HOLE LOCATION (SHL):	NORTHING: 4,365,465.50 EASTING: 590,806.17
LANDING POINT LOCATION (LPL):	NORTHING: 4,365,191.13 EASTING: 590,959.59
BOTTOM HOLE LOCATION (BHL):	NORTHING: 4,367,258.60 EASTING: 590,283.16
AS-DRILLED COORDINATES	
UTM (NAD83, ZONE 17, METERS)	
SURFACE HOLE LOCATION (SHL):	NORTHING: 4,365,465.50 EASTING: 590,806.17
LANDING POINT LOCATION (LPL):	NORTHING: 4,365,191.13 EASTING: 590,959.59
BOTTOM HOLE LOCATION (BHL):	NORTHING: 4,367,258.60 EASTING: 590,283.16

ID	TM	PAR	OWNER	ACRES
A	3	18	N/F CHARLES E. MacDONALD	222.75
B	6	7	N/F VIRGINIA MORGAN BREWER	230.00
C	3	19.1	N/F CHARLES EDWARD & LAVERNE MACDONALD & SURV	20.26
D	3	19.3	N/F JOHN V. ZINN II	2.92
E	3	1.1	N/F JOHN V. ZINN II	14.95
F	3	1.51	N/F SHANNON L. GRUENGE	2.00
G	3	1	N/F KIMBERLY BRYAN	14.78
H	3	1.35	N/F LYLE DOUGLAS & NANCY ELAINE MATTHEWS & SURV	2.00
I	27	4	N/F BEVERLY HORNBECK TRUSTEE OF THE BEVERLY HORNBECK LIVING TRUST	152.00
J	3	1.7	N/F LARRY & SHANON LAREW & SURV	1.00



GRAPHIC SCALE IN FEET  
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.



WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	UNB NO. 213
	PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 47	API WELL #: 091 01329

WELL TYPE: OIL	WASTE DISPOSAL	PRODUCTION	DEEP	GAS	LIQUID INJECTION	STORAGE	SHALLOW
WATERSHED: WHITE DAY CREEK				ELEVATION: 1878'			
DISTRICT: FETTERMAN				QUADRANGLE: GLADESVILLE 7.5'			
SURFACE OWNER: CHARLES MacDONALD				ACREAGE: ± 222.75			
OIL & GAS ROYALTY OWNER: JP MORGAN				ACREAGE: ± 679.61 (LEASE)			
DRILL	DRILL DEEPER	REDRILL	FRACTURE OR STIMULATE	PLUG OFF OLD FORMATION	PERFORATE NEW FORMATION		
CONVERT	PLUG & ABANDON		CLEAN OUT & REPLUG	OTHER CHANGE X (SPECIFY)			
TARGET FORMATION: MARCELLUS SHALE				ESTIMATED DEPTH: TMD TVD TMD			

WELL OPERATOR: ARSENAL RESOURCES	DESIGNATED AGENT: WILLIAM VEIGEL
ADDRESS: 6031 WALLACE ROAD EXTENSION #300	ADDRESS: 65 PPROFESSIONAL PLACE, SUITE 200
CITY: WEXFORD STATE: PA ZIP CODE: 15090	CITY: BRIDGEPORT STATE: WV ZIP CODE: 26330

LEGEND:	REVISIONS:	DATE: 09-26-2017
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		
★ EXISTING / PRODUCING WELLHEAD		
LPL LANDING POINT LOCATION		
○ EXISTING WATER WELL		
○ EXISTING SPRING		
— LEASE BOUNDARY		
— AS-DRILLED PATH		
— PROPOSED PATH		
		DRAWN BY: R.DOERR
		SCALE: 1" = 2000'
		DRAWING NO: XXXXX
		WELL LOCATION PLAT