

Latitude: 39°27'30" 7,779' SHL

10,961' BHL

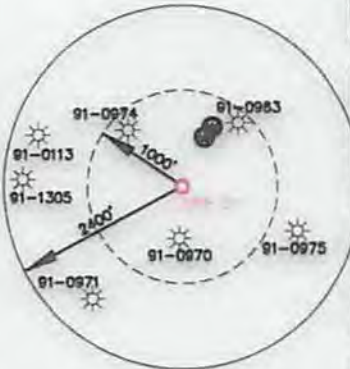
THRASHER

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

NOTES ON SURVEY

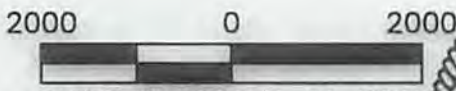
1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

REFERENCES



PROPOSED COORDINATES UTM (NAD83, ZONE 17, METERS)	
SURFACE HOLE LOCATION (SHL):	
NORTHING:	4,365,462.07
EASTING:	590,882.67
LANDING POINT LOCATION (LPL):	
NORTHING:	4,365,152.13
EASTING:	590,548.04
BOTTOM HOLE LOCATION (BHL):	
NORTHING:	4,367,181.87
EASTING:	589,888.21

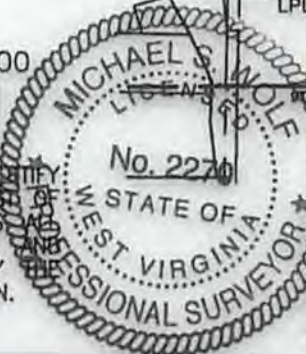
AS-DRILLED COORDINATES UTM (NAD83, ZONE 17, METERS)	
SURFACE HOLE LOCATION (SHL):	
NORTHING:	4,365,462.07
EASTING:	590,882.67
LANDING POINT LOCATION (LPL):	
NORTHING:	4,365,152.13
EASTING:	590,548.04
BOTTOM HOLE LOCATION (BHL):	
NORTHING:	4,367,181.87
EASTING:	589,888.21



GRAPHIC SCALE IN FEET

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS THE INFORMATION REQUIRED BY LAW AND REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2270



PT	TM	PAR	OWNER	ACRES
A	3	18	N/F CHARLES E. MacDONALD	222.75
B	6	7	VIRGINIA MORGAN BREWER	230.00
C	3	19.1	N/F CHARLES EDWARD & LAVERNE MACDONALD & SURV	20.28
D	3	20	N/F CHARLES EDWARD & LAVERNE MACDONALD & SURV	37.00
E	3	19	N/F BEVERLY HORNBEEK TRUSTEE OF THE BEVERLY HORNBEEK LIVING TRUST	24.50
F	27	4	N/F BEVERLY HORNBEEK TRUSTEE OF THE BEVERLY HORNBEEK LIVING TRUST	152.00

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 PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: 47 API WELL #: 47	UNB NO. 211 STATE COUNTY PERMIT 091
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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: ± 686.51 (LEASE)			
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 SHALE				ESTIMATED DEPTH: TDP TVD			

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: PROPOSED SURFACE HOLE / BOTTOM HOLE EXISTING / PRODUCING WELLHEAD LPL LANDING POINT LOCATION EXISTING WATER WELL EXISTING SPRING	LEASE BOUNDARY AS-DRILLED PATH PROPOSED PATH	REVISIONS: DATE: 09-29-2017 DRAWN BY: R.DOERR SCALE: 1" = 2000' DRAWING NO: XXXXX WELL LOCATION PLAT
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Longitude: 79°55'00"

07/20/2018