

Latitude: 39°27'30" 7,765' SHL

10,340' BHL

THRASHER

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

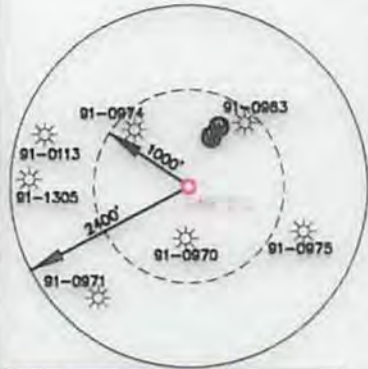
NOTES ON SURVEY

- 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 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.

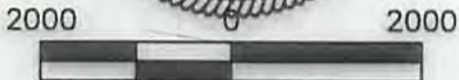
3,082' BHL

8,927' SHL

Longitude: 79°55'00"



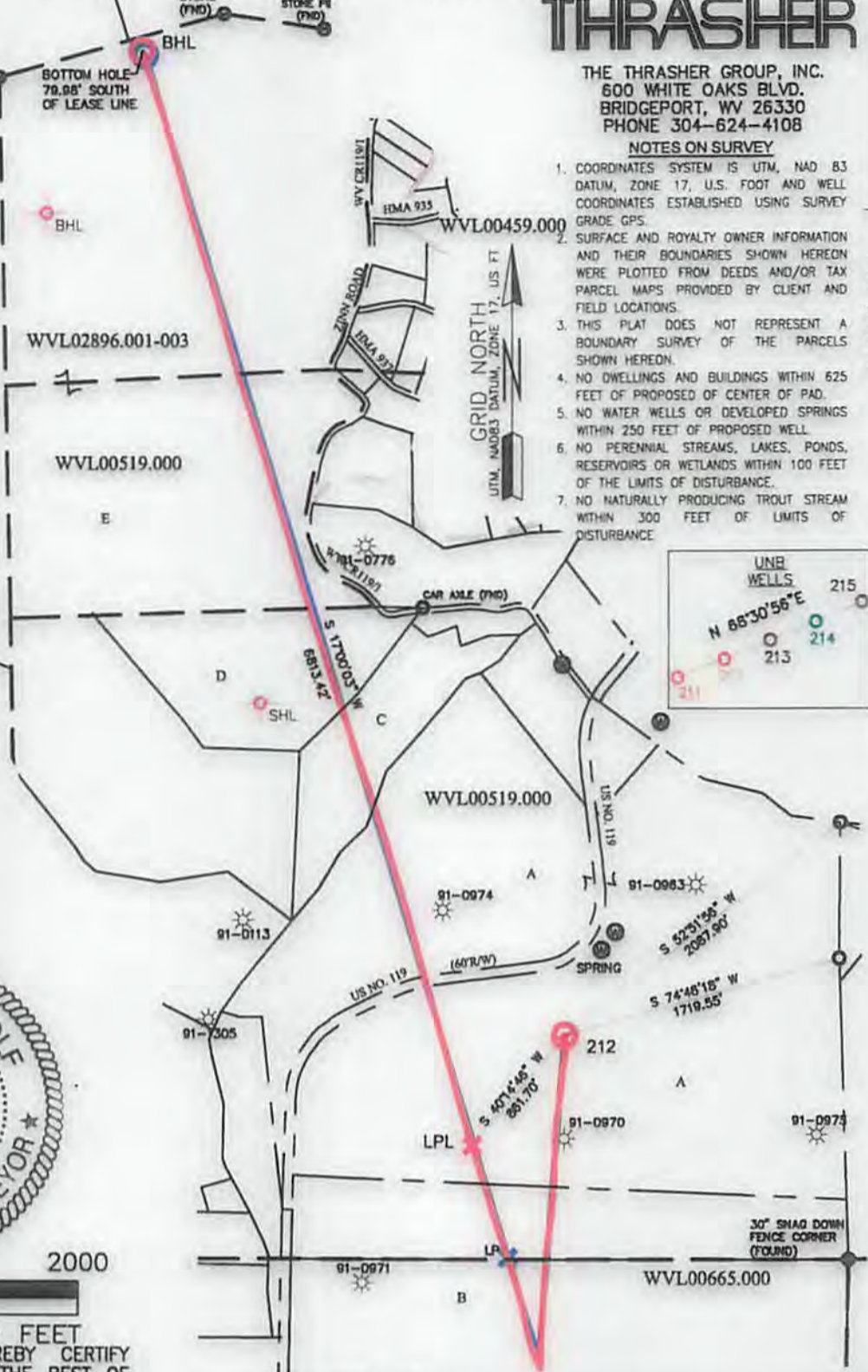
PROPOSED COORDINATES	
UTM (NAD83, ZONE 17, METERS)	
SURFACE HOLE LOCATION (SHL):	NORTHING: 4,365,463.76 EASTING: 590,886.91
LANDING POINT LOCATION (LPL):	NORTHING: 4,365,057.09 EASTING: 590,789.42
BOTTOM HOLE LOCATION (BHL):	NORTHING: 4,367,227.42 EASTING: 590,085.58
AS-DRILLED COORDINATES	
UTM (NAD83, ZONE 17, METERS)	
SURFACE HOLE LOCATION (SHL):	NORTHING: 4,365,463.76 EASTING: 590,886.91
LANDING POINT LOCATION (LPL):	NORTHING: 4,365,057.09 EASTING: 590,789.42
BOTTOM HOLE LOCATION (BHL):	NORTHING: 4,367,227.42 EASTING: 590,085.58



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.

P.S. 2270



ID	TM	PAR	OWNER	ACRES
A	3	16	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	20.25
D	3	19	N/F BEVERLY HORNBECK TRUSTEE OF THE BEVERLY HORNBECK LIVING TRUST	24.50
E	27	4	N/F BEVERLY HORNBECK TRUSTEE OF THE BEVERLY HORNBECK LIVING TRUST	152.00

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	OPERATOR'S WELL #: 212 API WELL #: 47	UNB NO. 091 01328 STATE COUNTY PERMIT
	WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW WATERSHED: WHITE DAY CREEK DISTRICT: FETTERMAN COUNTY: TAYLOR SURFACE OWNER: CHARLES MacDONALD OIL & GAS ROYALTY OWNER: JP MORGAN DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE X (SPECIFY)	ESTIMATED DEPTH: 1699 TVD (6,300) TMD	WELL OPERATOR: ARSENAL RESOURCES ADDRESS: 6031 WALLACE ROAD EXTENSION #300 CITY: WEXFORD STATE: PA ZIP CODE: 15090

TARGET FORMATION: MARCELLUS SHALE	DESIGNATED AGENT: WILLIAM VEIGEL ADDRESS: 65 PROFESSIONAL PLACE, SUITE 200 CITY: BRIDGEPORT STATE: WV ZIP CODE: 26330
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LEGEND:	REVISIONS:	DATE:
<ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD LPL LANDING POINT LOCATION ⊕ EXISTING WATER WELL ⊕ EXISTING SPRING — LEASE BOUNDARY — AS-DRILLED PATH — PROPOSED PATH 	DATE: 09-26-2017	DRAWN BY: R.DOERR SCALE: 1" = 2000' DRAWING NO: XXXXX WELL LOCATION PLAT