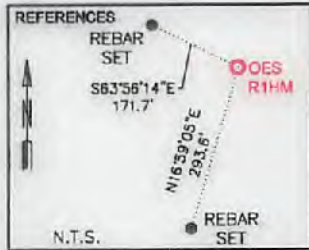


# THRASHER

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

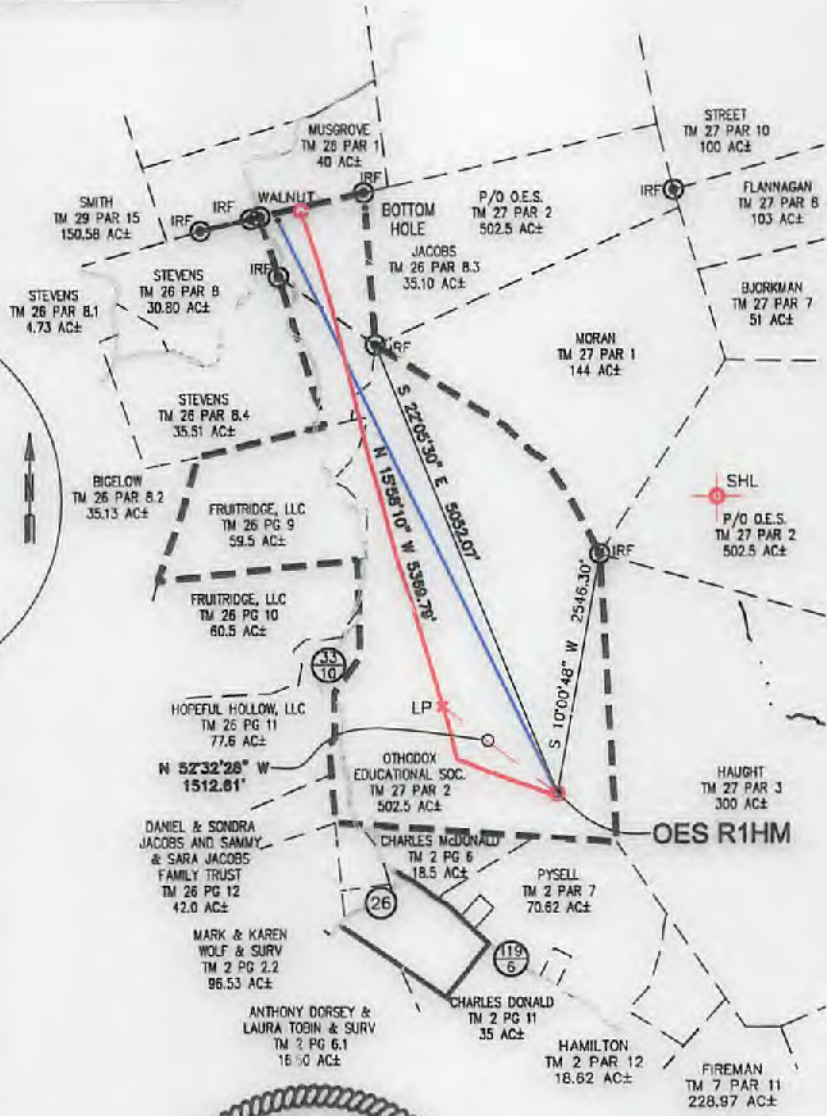
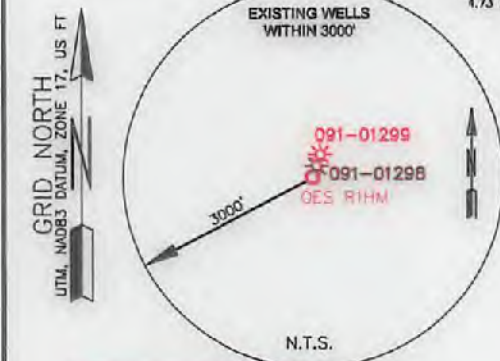
## NOTES ON SURVEY

- COORDINATES SYSTEM IS WV STATE PLANE NORTH, NAD 83 DATUM, 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.

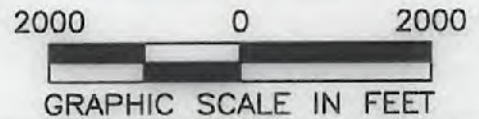


2,860' TOP HOLE  
5,566' BOTTOM HOLE  
LATITUDE 39°27'30"

LONGITUDE 79° 57' 30"  
2,073' BOTTOM HOLE  
8,143' TOP HOLE



AS-DRILLED COORDINATES	
<b>SURFACE HOLE LOCATION (SHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,365,669.041	
EASTING: 588,787.262	
<b>LANDING POINT LOCATION (LPL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,365,942.529	
EASTING: 588,417.086	
<b>BOTTOM HOLE LOCATION (BHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,367,508.686	
EASTING: 587,940.441	
DESIGN COORDINATES	
<b>SURFACE HOLE LOCATION (SHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,365,669.0	
EASTING: 588,787.3	
<b>LANDING POINT LOCATION (LPL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,365,813.0	
EASTING: 588,438.0	
<b>BOTTOM HOLE LOCATION (BHL):</b>	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,367,477.6	
EASTING: 587,866.3	



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

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: OES NO. R1HM
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY GRADE GPS SOURCE OF ELEVATION: (NAVD 88, US FT)	API WELL #: 47
WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input type="checkbox"/>			
WATERSHED: WHITE DAY CREEK		ELEVATION: 1951.00'	
DISTRICT: FETTERMAN COUNTY: TAYLOR		QUADRANGLE: GLADESVILLE 7.5'	
SURFACE OWNER: ORTHODOX EDUCATIONAL SOCIETY		ACREAGE: 502.5	
OIL & GAS ROYALTY OWNER: ORTHODOX EDUCATIONAL SOCIETY/CHARLES & LAVERNE MacDONALD		ACREAGE: 537.60	
DRILL <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/>			
CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED			
TARGET FORMATION: MARCELLUS SHALE		ESTIMATED DEPTH: LATERAL 7,803 TVD 13,620 TMD	
WELL OPERATOR: ARSENAL RESOURCES		DESIGNATED AGENT: WILLIAM VEIGEL	
ADDRESS: 6031 WALLACE ROAD EXTENSION #300		ADDRESS: 65 PROFESSIONAL PLACE, SUITE 200	
CITY: WEXFORD STATE: PA ZIP CODE: 15090		CITY: BRIDGEPORT STATE: WV ZIP CODE: 26330	
LEGEND:		REVISIONS:	
○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD * ABANDONED WELL * PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		--- LEASE BOUNDARY --- 500' DHP BUFFER --- PROPOSED PATH --- AS-DRILLED PATH --- DHP BUFFER	
		DATE: 06-21-2017	
		DRAWN BY: R. DOERR	
		SCALE: 1" = 2000'	
		DRAWING NO: 030-3241	
		WELL LOCATION PLAT	