

(NEWBURG) Latitude: 39°25'00"

8,784' BHL

7,699' SHL

# THRASHER

(FELLOWSVILLE) Latitude: 39°22'30"

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

### NOTES ON SURVEY

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

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	CHRISTOPHER R. JENNINGS	03-15-35	265.96
2	CHRISTOPHER R. JENNINGS	03-18-36	237
3	MARY B. RILEY	03-18-01	23.7
4	MARY B. RILEY	03-18-02	16.122
5	CRESTY J. & CHRISTOPHER L. BAKER	03-18-23	2.5
6	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	SCOTCH HILL RD CR 52/11	N/A
7	FRANKLIN M. JENNINGS	03-15-20.1	168.03
8	LLOYD R. & KAREN TICHNELL	03-15-20	24.84

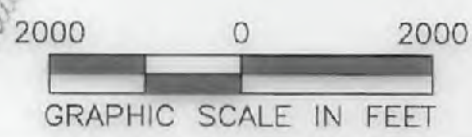
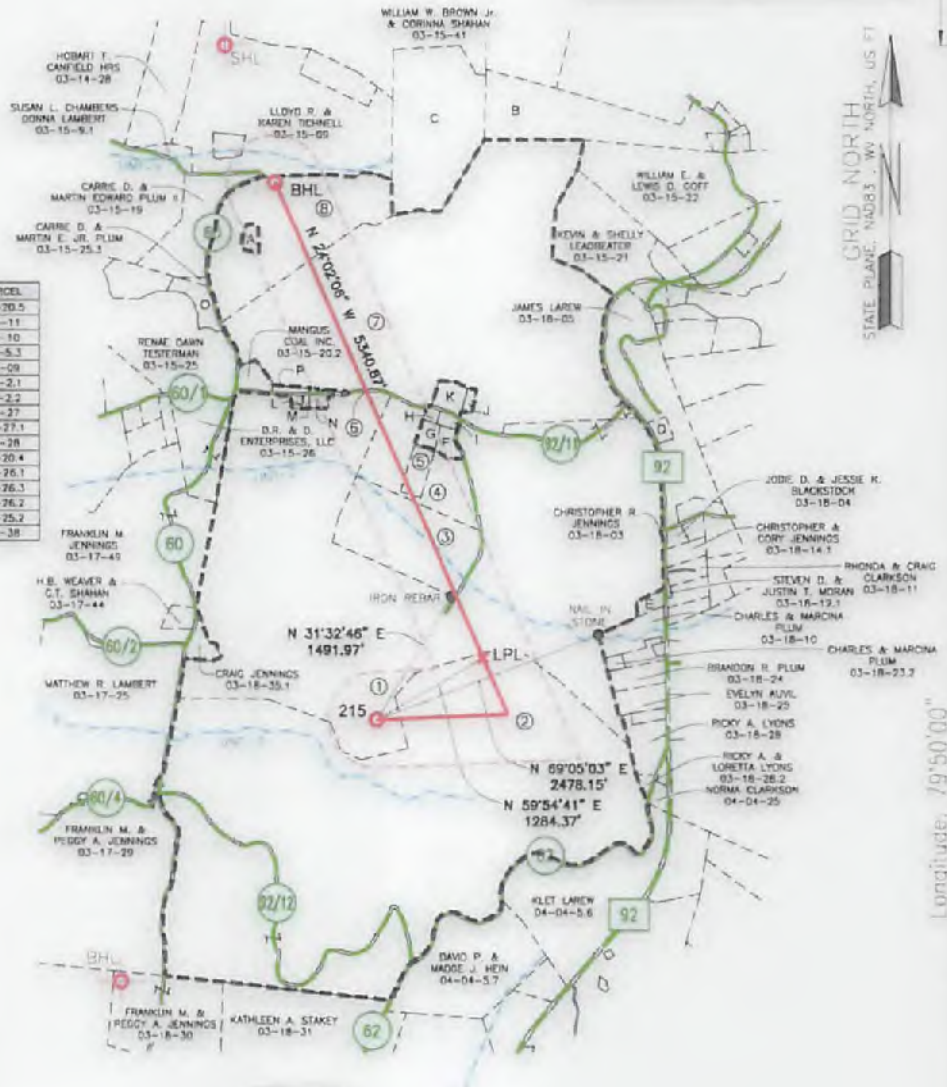
SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,357,871.769	
EASTING: 598,177.317	
LANDING POINT LOCATION (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,358,073.589	
EASTING: 598,512.654	
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,359,548.772	
EASTING: 597,825.148	

TRACT	OWNER	TAX PARCEL
A	LLOYD RANDALL TICHNELL	03-15-20.5
B	TIMOTHY G. WEAVER	03-15-11
C	WILLIAM R. BROWN & CORINNA S. SHAMAH	03-15-10
D	JAMES E. LAREW JR., MELISSA O. BOWAR, CRYSTAL A. NESTOR	03-18-5.3
E	RUTH TAYLOR	03-18-08
F	CHRISTOPHER R. JENNINGS	03-18-2.1
G	DYLAN J. RICHOUR	03-18-2.2
H	RICHARD LEE BOLYARD	03-15-27
I	RICHARD D. BOLYARD	03-15-27.1
J	SCOTCH HILL CEMETERY ASSOCIATION	03-15-28
K	ANTHONY J. & BETHEAN RIDDLE	03-15-20.4
L	LEE L. S. & TRACELY FRIEND	03-15-26.1
M	LEE L. S. & TRACELY FRIEND	03-15-26.3
N	BENNY F. PERCE	03-15-26.2
O	ROGER LEROY LYONS, ALICE LYNN LYONS	03-15-25.2
P	ACN, LLC	03-22-38

### REFERENCES


REBAR SET  
 N 47°48'13" W  
 277.08'  
 215 S 45°58'35" E  
 418.32'  
 REBAR SET  
 NTS

### EXISTING WELLS WITHIN 3,000'



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.

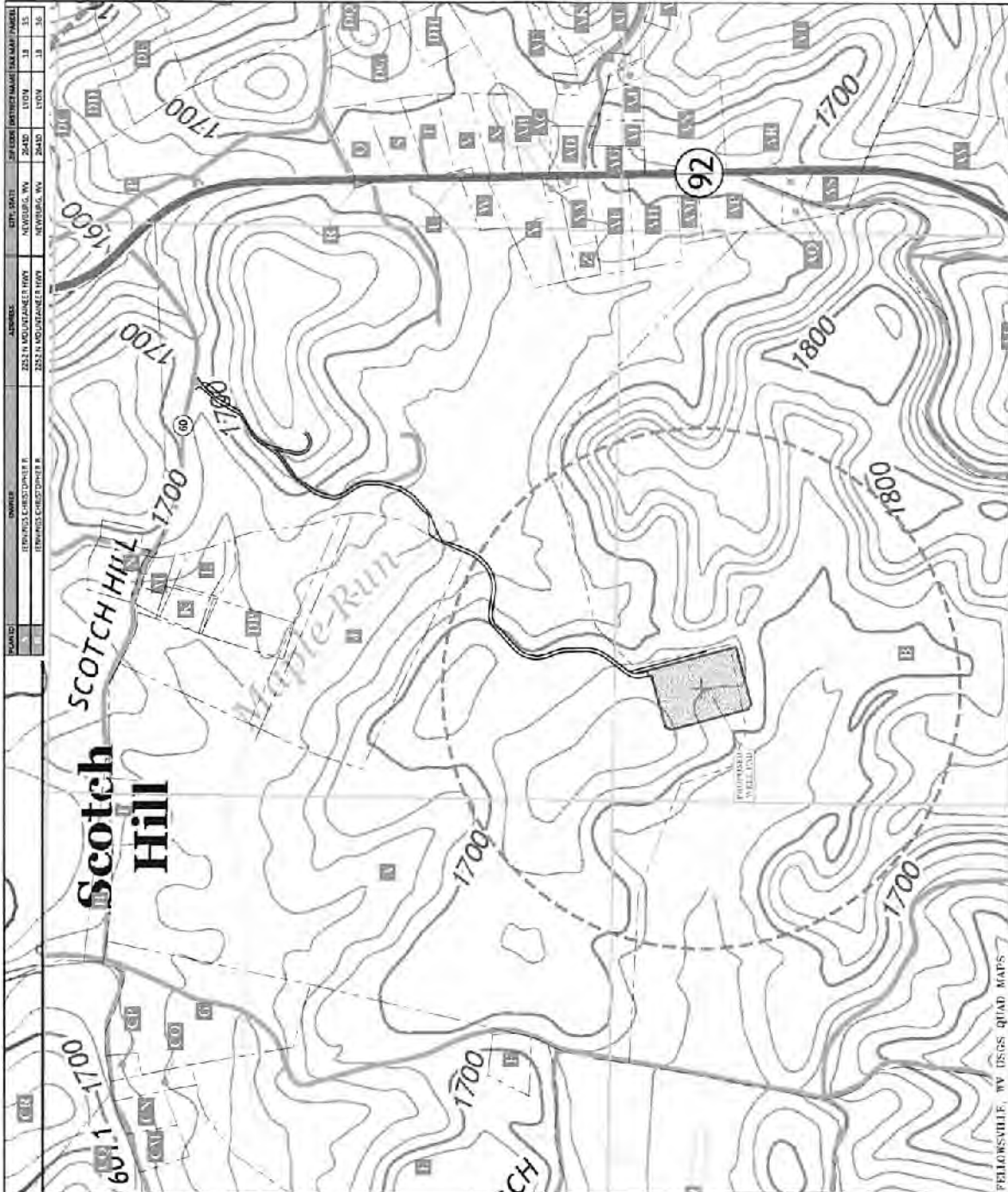
P.S. 2270 *MSW 4/2/18*

 (+) 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 SOURCE OF SURVEY GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: CHRIS JENNINGS PL2017E 215 API WELL #: 47 STATE 77 COUNTY 00653 PERMIT
	WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE SHALLOW <input checked="" type="checkbox"/> WATERSHED: SANDY CREEK DISTRICT: LYON COUNTY: PRESTON SURFACE OWNER: CHRISTOPHER R. JENNINGS OIL & GAS ROYALTY OWNER: CHRISTOPHER R. JENNINGS DRILL <input checked="" type="checkbox"/> DRILL DEEPER REDRILL FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION PERFORATE NEW FORMATION CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 8,262 TVD 14,230 TMD	ELEVATION: 1735.5' (DESIGN) QUADRANGLE: FELLOWSVILLE/NEWBURG ACREAGE: ± 265.96 ACREAGE: ± 265.96

05/18/2018



4707700653



OWNER	OWNER	DATE	DESCRIPTION
CHRISTOPHER B. STEPHENS	CHRISTOPHER B. STEPHENS	2/24/10	AS-BUILT
CHRISTOPHER B. STEPHENS	CHRISTOPHER B. STEPHENS	2/24/10	AS-BUILT
CHRISTOPHER B. STEPHENS	CHRISTOPHER B. STEPHENS	2/24/10	AS-BUILT
CHRISTOPHER B. STEPHENS	CHRISTOPHER B. STEPHENS	2/24/10	AS-BUILT
CHRISTOPHER B. STEPHENS	CHRISTOPHER B. STEPHENS	2/24/10	AS-BUILT

**EMERGENCY CONTACT INFORMATION**

**OPERATOR:**  
 Arundel Resources  
 6011 Williams Hill Pk., Suite 506  
 Newburg, WV 26049  
 1-724-343-1000

**WELL ID:**  
 OFFICE: 408484 G4  
 1-800-622-2674 (4-STATE) - 24 hour operations & emergency  
 (for customer contact)

**OIL AND GAS INSPECTOR:**  
 Center: J. Kottowski, 136-546-8774 (Overseas County)

**LOCAL EMERGENCY RESPONSE UNIT:**  
 National Fire Protection Association  
 Department of Agriculture, Forest Service  
 State Emergency Response Unit  
 1-800-424-2074  
 West Virginia, Fire, Law Enforcement

**Legend**

- 1500 FT. RADII
- PROPOSED WELL PAD
- PROPERTY LINE
- PROPERTY ID

**Ortho Jennings P32017C Well Pad Site Coordinates**

Coordinate	North	West
Well Pad Center	38 53 33.77 N	80 53 33.77 W
Well Pad East	38 53 33.77 N	80 53 33.77 W
Well Pad West	38 53 33.77 N	80 53 33.77 W
Well Pad South	38 53 33.77 N	80 53 33.77 W
Well Pad North	38 53 33.77 N	80 53 33.77 W
Well Pad East	38 53 33.77 N	80 53 33.77 W
Well Pad West	38 53 33.77 N	80 53 33.77 W
Well Pad South	38 53 33.77 N	80 53 33.77 W
Well Pad North	38 53 33.77 N	80 53 33.77 W



**THRASHER**  
 THE THRASHER GROUP, INC.  
 1700 ANNAPOLIS BLVD., SUITE 200  
 ANNAPOLIS, MD 21403  
 PHONE: 410-291-1919 FAX: 410-291-1915

**ARSENAL**  
 P E S T I C I D E S

**ARSENAL RESOURCES**  
 SITE SAFETY PLANS FOR THE  
 CHRIS JENNINGS P32017C WELL PAD  
 PRESTON COUNTY, WEST VIRGINIA  
 POTENTIAL WATER SOURCES

DATE: 08/18/2018  
 SHEET NO: W