

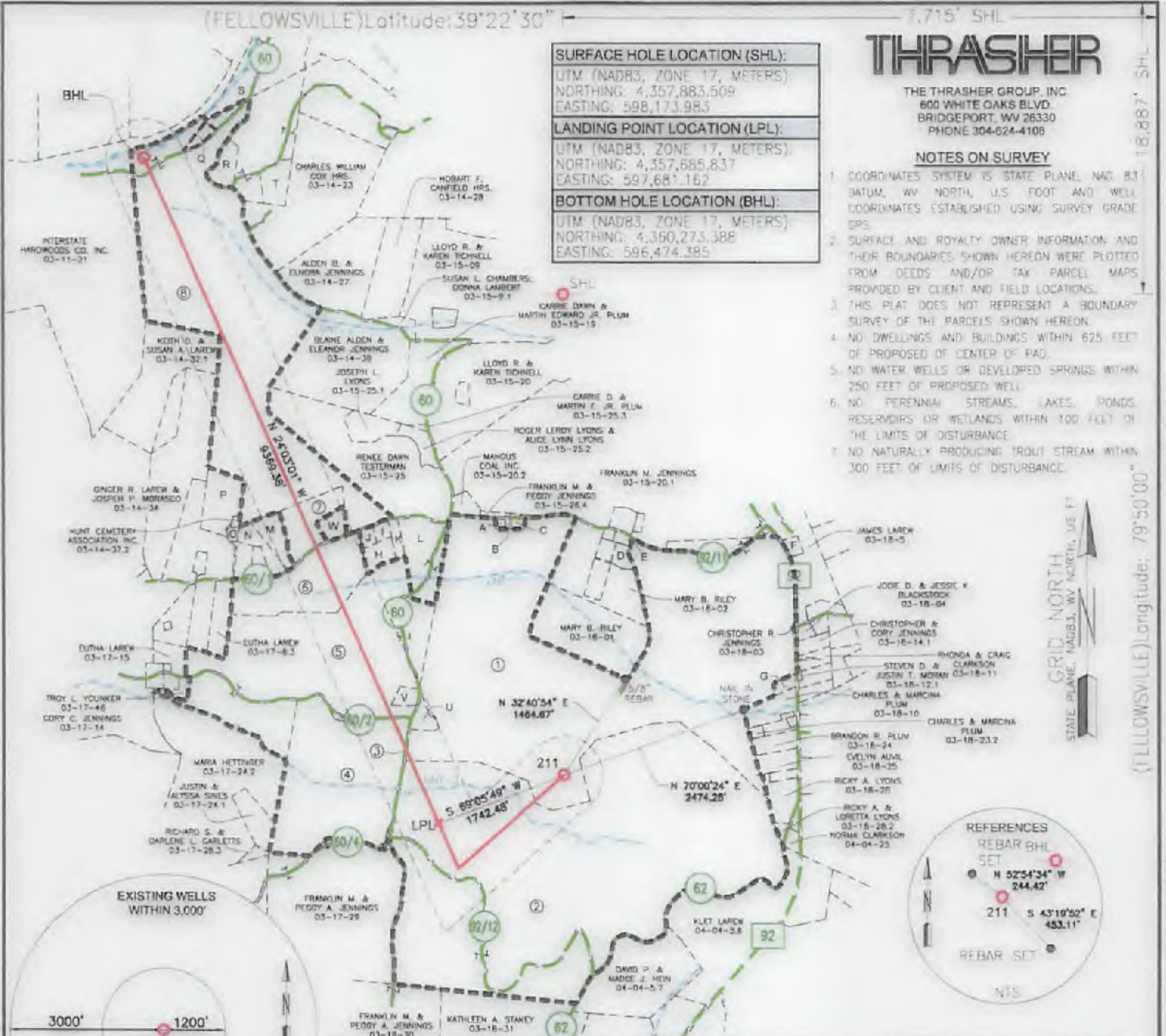
THRASHER

THE THRASHER GROUP, INC.
600 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 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.

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS)
NORTHING: 4,357,883.509
EASTING: 598,173.983
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS)
NORTHING: 4,357,685.837
EASTING: 597,681.162
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS)
NORTHING: 4,350,273.388
EASTING: 596,474.385

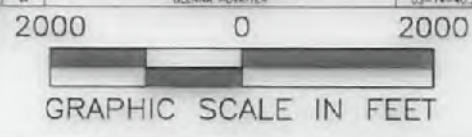


TRACT	SURFACE OWNER	TAX PARCEL	ACRES	TRACT	ADJONER	TAX PARCEL
1	CHRISTOPHER R. JENNINGS	03-18-35	265.96	A	LEE L. & TRACY FRIEND	03-15-26.1
2	CHRISTOPHER R. JENNINGS	03-18-36	297	B	LEE L. & TRACY FRIEND	03-15-26.3
3	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS	EVANSVILLE PIKE ROUTE 60	N/A	C	OWEY F. PERCE	03-15-26.2
4	WATNEER E. LAMBERT	03-17-35	60.33	D	CHRISTOPHER R. JENNINGS	03-18-2.1
5	FRANKLIN M. JENNINGS	03-17-49	81	E	RICHARD O. BOLYARD	03-15-27.1
6	BRENT L. SMITH	03-17-9	26.457	F	JAMES E. LAREW JR., MELISSA G. BONAR, CRYSTAL A. NESTOR	03-18-5.3
7	RICHARD A. & WANDA L. MAXWELL	03-14-40	9.134	G	BETH TAYLOR	03-18-9
8	ALDEN BLAINE & ELNORA JENNINGS	03-14-44	144	H	KENNETH & LORETTA STONE	03-17-9.1
				I	KENNETH D. STONE & GINNY R. PEISND	03-14-42
				J	KENNETH D. STONE & GINNY R. PEISND	03-14-45
				K	KENNETH D. STONE	03-15-20.3
				L	D.R. & D. ENTERPRISES, LLC	03-15-26
				M	RICHARD A. & WANDA L. MAXWELL	03-14-40.1
				N	YVONNE H. MURRAY	03-14-38
				O	HUNT CEMETERY ASSOCIATION INC.	03-18-41
				P	JOHN LAREW ET AL.	03-14-37
				Q	HRAM GORDON & ELIZABETH T. & JANE JO LAREW	03-14-18.1
				R	ADAM R. & CHRISTINE L. FEATHERS	03-14-21
				S	FRANK & ALICE THOMAS	03-14-9.2
				T	ALDEN BLAINE JR. & ANITA D. JENNINGS	03-14-52.1
				U	CRIG JENNINGS	03-18-35.1
				V	H D & SHARAH G T BEAVER	03-17-44
				W	GLENNA HOWATTE	03-14-40.2



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.

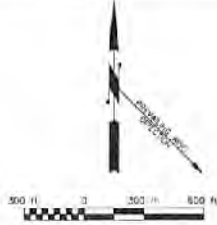
P.S. 2270 *MSW* 4/14/18



<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF ELEVATION: GRADE GPS (NAVD 88, US FT)</p>	<p>OPERATOR'S WELL #: CHRIS JENNINGS PL2017E 211</p> <p>API WELL #: 47 STATE 77 COUNTY 00651 PERMIT</p>
	<p>WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: SANDY CREEK ELEVATION: 1735.2' (DESIGN)</p> <p>DISTRICT: LYON COUNTY: PRESTON QUADRANGLE: FELLOWSVILLE/GLADESVILLE</p> <p>SURFACE OWNER: CHRISTOPHER R. JENNINGS ACREAGE: 265.96</p> <p>OIL & GAS ROYALTY OWNER: CHRISTOPHER R. JENNINGS ACREAGE: 265.96</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER REDRILL FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION PERFORATE NEW FORMATION</p> <p>CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 8,262 TVD 18,363 TMD</p>	<p>DESIGNATED AGENT: WILLIAM VEIGEL</p> <p>ADDRESS: 65 PROFESSIONAL PLACE, SUITE 200</p> <p>CITY: BRIDGEPORT STATE: WV ZIP CODE: 26330</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ○ EXISTING / PRODUCING WELLHEAD LPL LANDING POINT LOCATION ○ EXISTING WATER WELL ○ EXISTING SPRING — SURVEYED BOUNDARY — DRILLING UNIT — LEASE BOUNDARY — PROPOSED PATH — 500' BUFFER 	<p>REVISIONS:</p> <p>DATE: 04-05-2018</p> <p>DRAWN BY: R.DOERR</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 030-3213</p> <p>WELL LOCATION PLAT</p>	

05/18/2018

4707700651



EMERGENCY CONTACT INFORMATION

OPERATOR:
 Arsenal Resources
 6831 Wallace Rd East, Suite 300
 Windsor, PA 15090
 1-724-508-1300
 1-204-629-6899 (24 hour contact number)

WVDEP:
 Office of Oil and Gas
 1-304-526-6499
 1-800-642-3674 (WVDEP 24 hour pollution & emergency
 spill contact number)

OIL AND GAS INSPECTOR:
 Gayle J. Kinkaid, 1-204-546-8171 (Preston County)

LOCAL EMERGENCY RESPONSE UNIT

Nation of Response Center for Reporting
 & Remediation of Spills, 1-800-524-3862
 State Emergency Spill Notification:
 1-800-642-3674

Ambulance, Fire, Law Enforcement:
 911

LEGEND

- 1500-FT RADIUS FROM WELL PAD
- PROPOSED WELL PAD
- PROPERTY LEASE
- PROPERTY ID

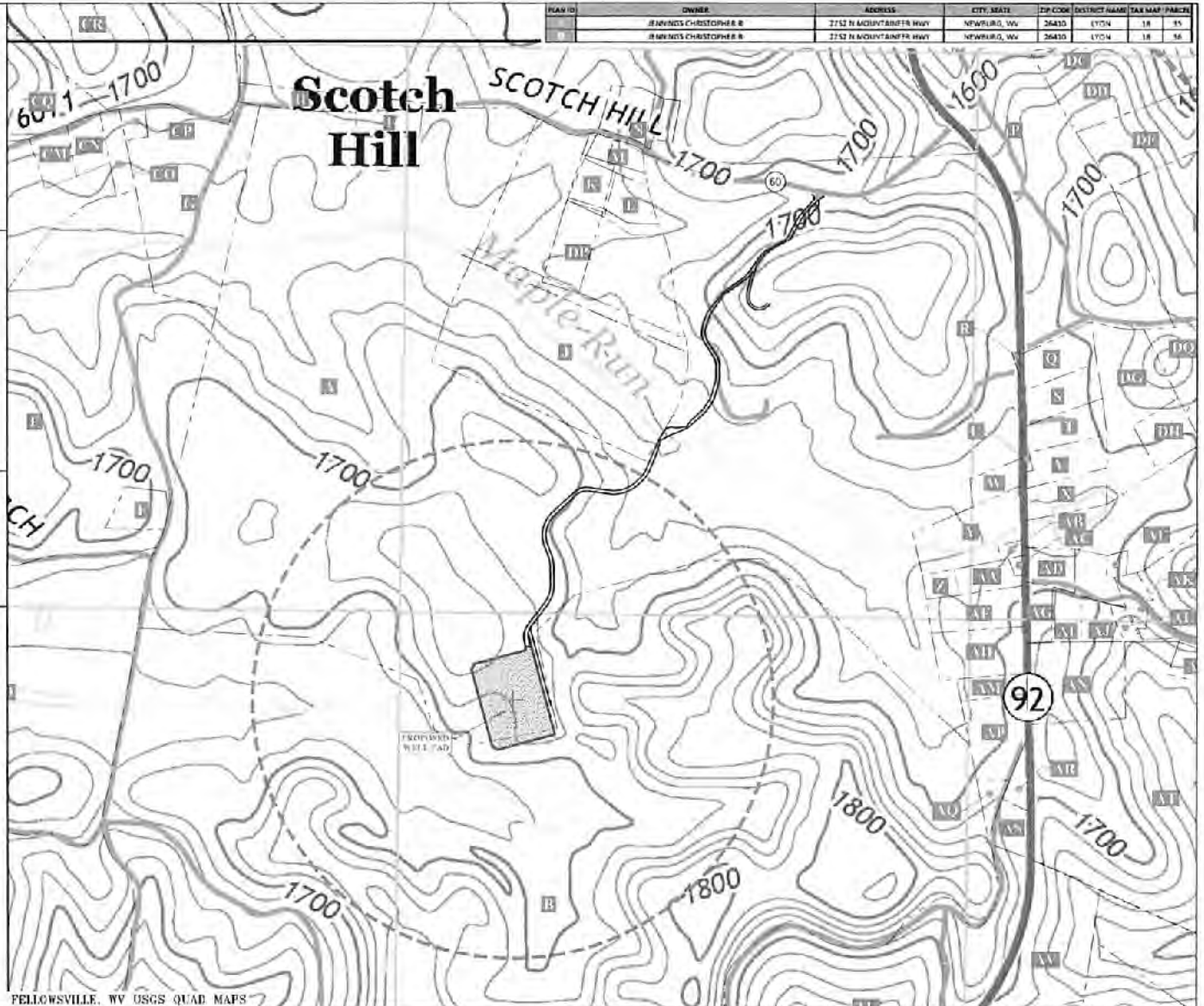
Chris Jennings PL2017E Well Pad Size Coordinates

Coordinates Label	Well Pad Center	Downhole Pit Center	Access Road Beginning
WVDEP N Location	N 31.364117°	N 30.263778°	N 30.272541°
WVDEP N Longitude	W 79.818987°	W 79.818987°	W 79.818987°
WVDEP N Northing	435076.518 ft	314444.288 ft	314003.383 ft
WVDEP N Easting	186606.828 ft	186724.057 ft	186626.376 ft
UTM83 N Northing	4117151.000 m	4117268.899 m	4117246.512 m
UTM83 N Easting	588213.581 m	588370.553 m	588275.130 m

PRESTON COUNTY, WV HIGHWAY MAP



HIGHWAY MAP SCALE



PLAN ID	OWNER	ADDRESS	CITY, STATE	ZIP CODE	DISTRICT NAME	TAX MAP PARCEL
1	JENNINGS CHRISTOPHER B	2752 N MOUNTAIN PK HWY	NEWBURG, WV	26435	LYON	18 85
1	JENNINGS CHRISTOPHER B	2752 N MOUNTAIN PK HWY	NEWBURG, WV	26435	LYON	18 86

FELLCWSVILLE, WV USGS QUAD MAPS

SCALE BAR: 0 1 2 MILES
 DATE: 03/11/2014
 TIME: 10:00 AM
 PROJECT: 101-030-3215
 SHEET: W

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NO.	REV.	DATE	DESCRIPTION



SCALE:	DATE:
DRAWN:	DATE:
TRACKED:	DATE:
APPROVED:	DATE:
DESIGN DATE:	
DESIGN BY:	
FIELD NUMBER:	



OWNER NO.
PROJECT NO.
101-030-3215

ARSENAL RESOURCES
 SITE SAFETY PLANS FOR THE
 CHRIS JENNINGS PL2017E WELL PAD
 PRESTON COUNTY, WEST VIRGINIA
 POTENTIAL WATER SOURCES

SHEET 146
W