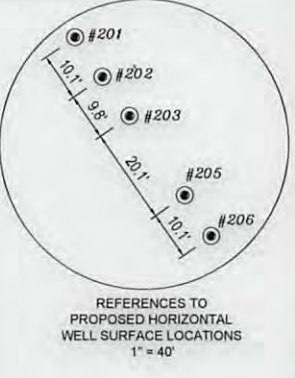
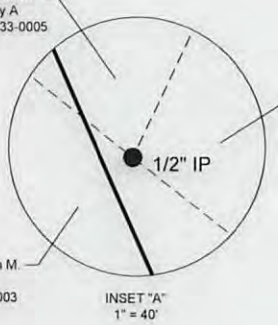
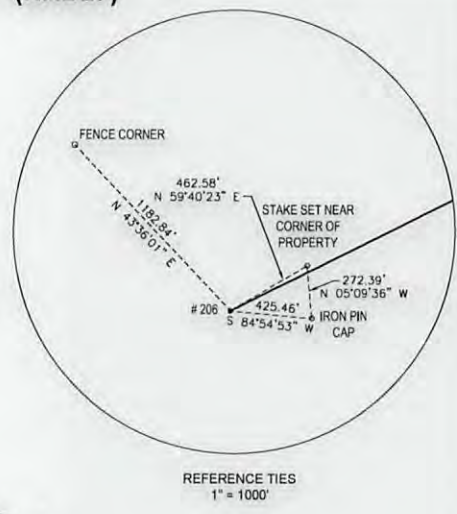
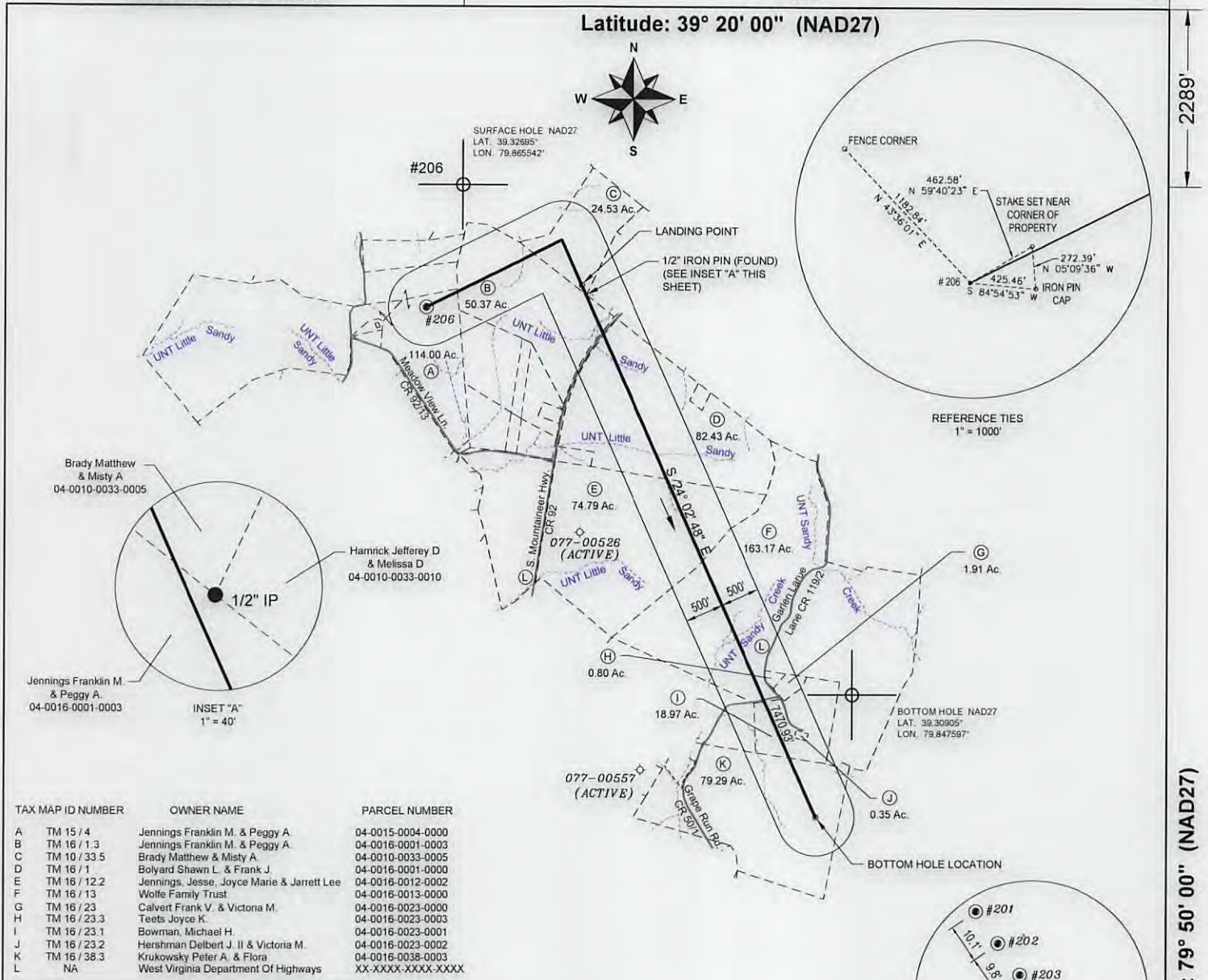


SURFACE HOLE DEC. LONG. = -78.11975582
 SURVEYED LONG. = -78° 07' 11.12"

9121'

Latitude: 39° 20' 00" (NAD27)

2289'



TAX MAP ID NUMBER	OWNER NAME	PARCEL NUMBER
A	Jennings Franklin M. & Peggy A.	04-0015-0004-0000
B	Jennings Franklin M. & Peggy A.	04-0016-0001-0003
C	Brady Matthew & Misty A.	04-0010-0033-0005
D	Bolyard Shawn L. & Frank J.	04-0016-0001-0000
E	Jennings, Jesse, Joyce Marie & Jarrett Lee	04-0016-0012-0002
F	Wolfe Family Trust	04-0016-0013-0000
G	Calvert Frank V. & Victoria M.	04-0016-0023-0000
H	Teets Joyce K.	04-0016-0023-0003
I	Bowman, Michael H.	04-0016-0023-0001
J	Hershman Delbert J. II & Victoria M.	04-0016-0023-0002
K	Krukowsky Peter A. & Flora	04-0016-0038-0003
L	West Virginia Department Of Highways	XX-XXXX-XXXX-XXXX

- REFERENCE NOTES
- Property lines as shown taken from deeds, tax maps, and field locations. A full boundary survey is not expressed or implied. All bearings are based on grid North. Ownership taken from public records Preston County, West Virginia Date 2017
 - State Plane Coordinates & NAD83 Lat/Long by differential submeter mapping grade GPS.
 - There are no railroads, dwellings, or agricultural buildings within 625 feet of center of pad.
 - No water wells found within 250' of the center of well pad.

LEGEND

- PROPOSED WELL LATERAL
- - - PROPOSED WELL TIE LINE
- STREAM
- EXISTING ROAD
- BUFFER
- - - PROPERTY LINE
- #H PROPOSE WELL HEAD
- EXISTING WELL HEAD
- ◇ LANDING POINT/BOTTOM HOLE
- SURFACE OWNER
- LAND TIE HOOK

(NAD83-WV) US SURVEY FT.	(NAD83 LAT/LONG) Decimal	(NAD83 UTM) Meters
TOP HOLE	TOP HOLE	TOP HOLE
NJ 301443.50	NJ 39.32704756	NJ 4353684.186
EJ 1865153.80	EJ 79.86533573	EJ 597799.925
LANDING POINT	LANDING POINT	LANDING POINT
NJ 301726.60	NJ 39.32784700	NJ 4353780.603
EJ 1867160.20	EJ 79.85824704	EJ 598409.815
BOTTOM HOLE	BOTTOM HOLE	BOTTOM HOLE
NJ 294903.50	NJ 39.30914688	NJ 4351717.109
EJ 1870205.10	EJ 79.84738983	EJ 599372.101

FILE#: 17078-003
 SHEET#: 1 of 1
 SCALE: 1" = 2000'
 TICK SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/200
 PROVEN SOURCE OF ELEVATION: WV-RTN CORS STATION

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 THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *Gary W. Kuroski 08-14-17*
 P.S. #2069: Gary W. Kuroski, P.S.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: AUGUST 14, 2017
 ROCKY JENNINGS
 OPERATOR'S WELL #: #206
 API WELL #: 47 77 00636 H6A
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow
 WATERSHED: TYGART VALLEY - SANDY CREEK
 COUNTY / DISTRICT: PRESTON / RENO
 SURFACE OWNER: FRANKLIN M. and PEGGY A. JENNINGS
 OIL & GAS ROYALTY OWNER: FRANKLIN M. AND PEGGY A. JENNINGS

ELEVATION: 1651.5' - DESIGN
 QUADRANGLE: FELLOWSVILLE WV
 ACREAGE: 114
 ACREAGE: 607 ±

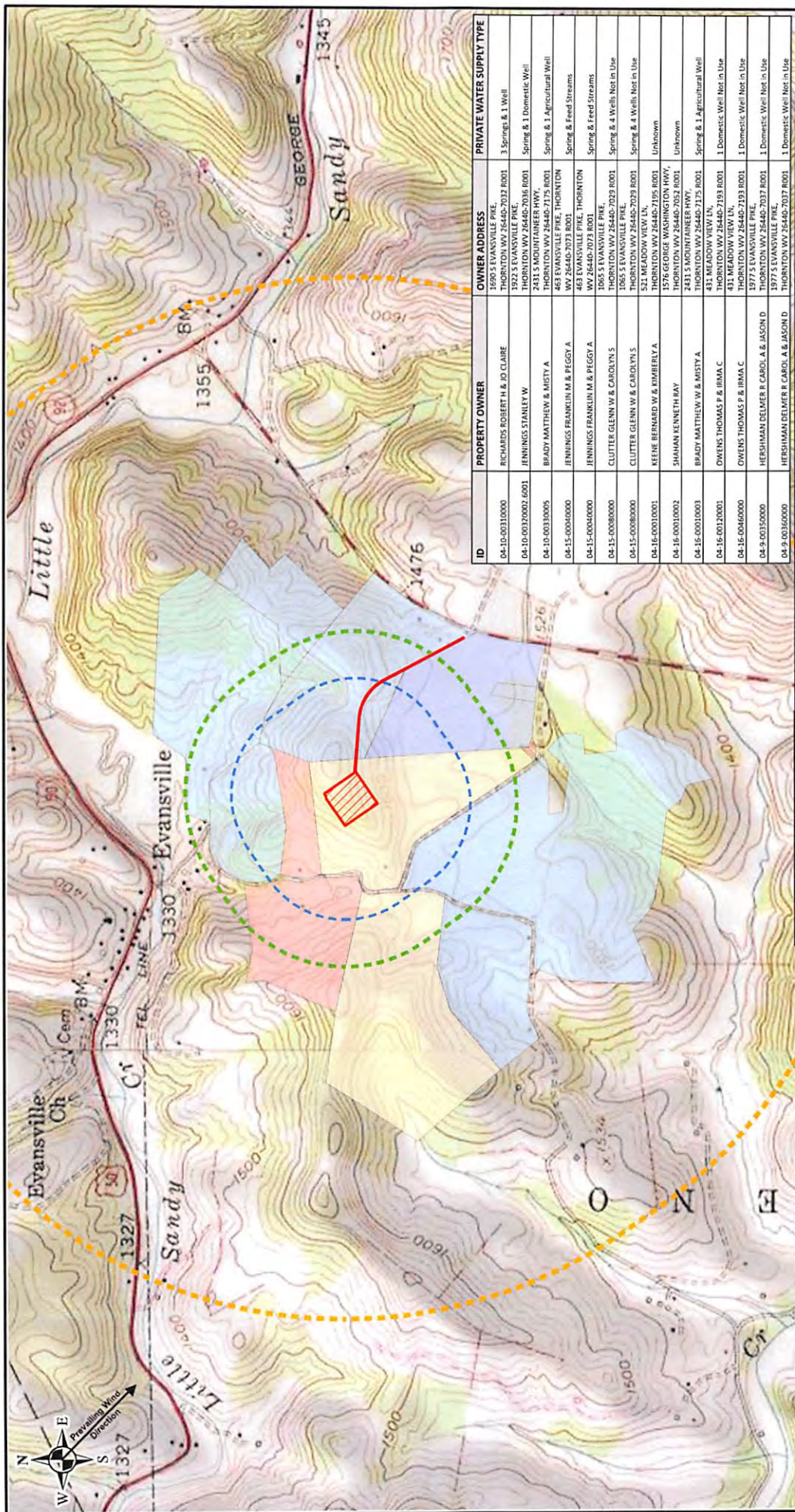
- DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
- PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
- CLEAN OUT & REPLUG OTHER CHANGE

TARGET FORMATION: MARCELLUS
 WELL OPERATOR: ARSENAL RESOURCES
 ADDRESS: 6031 WALLACE ROAD EXTENSION # 300
 CITY: WEXFORD STATE: PA ZIP: 15090

SPECIFY:
 ESTIMATED DEPTH: TVD: 7,940' TMD: 16,181'
 DESIGNATED AGENT: WILLIAM VEIGEL
 ADDRESS: 65 PROFESSIONAL PLACE SUITE 200
 CITY: BRIDGEPORT STATE: WV ZIP: 26330

Longitude: 79° 50' 00" (NAD27)
 SURFACE HOLE DEC. LAT. = 40.16023111
 SURVEYED LAT. = 40° 08' 36.83"

03/02/2018



ID	PROPERTY OWNER	OWNER ADDRESS	PRIVATE WATER SUPPLY TYPE
04-10-00110000	RICHARDS ROBERT H & JO CLARE	1690 S EVANSVILLE PIKE THORNTON WV 26440-7037 R001	3 Springs & 1 Well
04-10-00120002-6001	JENNINGS STANLEY W	1922 S EVANSVILLE PIKE THORNTON WV 26440-7036 R001	Spring & 1 Domestic Well
04-10-00130005	BRADY MATTHEW & MISTY A	2431 S MOUNTAINEER HWY. THORNTON WV 26440-7175 R001	Spring & 1 Agricultural Well
04-15-00040000	JENNINGS FRANKLIN W & PEGGY A	463 EVANSVILLE PIKE, THORNTON WV 26440-7073 R001	Spring & Feed Streams
04-15-00040000	JENNINGS FRANKLIN W & PEGGY A	463 EVANSVILLE PIKE, THORNTON WV 26440-7073 R001	Spring & Feed Streams
04-15-00080000	CLUTTER GLENN W & CAROLYN S	1065 S EVANSVILLE PIKE THORNTON WV 26440-7029 R001	Spring & 4 Wells Not in Use
04-15-00080000	CLUTTER GLENN W & CAROLYN S	1065 S EVANSVILLE PIKE THORNTON WV 26440-7029 R001	Spring & 4 Wells Not in Use
04-16-00010001	KEEHE BERNARD W & KIMBERLY A	521 MEADOW VIEW LN, THORNTON WV 26440-7195 R001	Unknown
04-16-00010002	SHAHAN KENNETH RAY	THORNTON WV 26440-7052 R001 THORNTON WV 26440-7052 R001	Unknown
04-16-00010003	BRADY MATTHEW W & MISTY A	2431 S MOUNTAINEER HWY. THORNTON WV 26440-7175 R001	Spring & 1 Agricultural Well
04-16-00120001	OWENS THOMAS P & IRMA C	431 MEADOW VIEW LN, THORNTON WV 26440-7193 R001	1 Domestic Well Not in Use
04-16-00160000	OWENS THOMAS P & IRMA C	431 MEADOW VIEW LN, THORNTON WV 26440-7193 R001	1 Domestic Well Not in Use
04-9-00350000	HERSHAM DELMER B CAROL A & JASON D	THORNTON WV 26440-7037 R001 THORNTON WV 26440-7037 R001	1 Domestic Well Not in Use
04-9-00360000	HERSHAM DELMER B CAROL A & JASON D	THORNTON WV 26440-7037 R001 THORNTON WV 26440-7037 R001	1 Domestic Well Not in Use

Project: ARSENAL RESOURCES
JENNINGS WELL PAD SITE

Project No. 250023101

Drawing Title: PRIVATE WELL LOCATION MAP

Scale: 1"=1000'

Drawn By: BJS

Submission Date: n/a

Figure: 1

Sheet 1 of 1

Project: WEST VIRGINIA

Project: PRESTON COUNTY

Project: THORNTON

LANGAN
100 Platinum Drive, Suite E
T: 724.514.5100 F: 724.514.5101 www.langan.com

Langan Engineering & Environmental Services, Inc.
Langan Engineering & Environmental Services, Inc.
Langan International LLC
Collectively known as Langan

Scale: 1"=1000'

Scale in Feet: 0, 500, 1000

Scale in Meters: 0, 500, 1000

Scale in Kilometers: 0, 5, 10

Legend

- Proposed Access Road
- Proposed Well Pad Location
- 1000ft. Radius from Well Pad
- 500ft. Radius from Well Pad
- One-Mile Radius from Well Pad
- Well
- Spring
- Spring & Well
- Unknown

Notes:

1. Prevailing wind direction is Southeast
2. Geographic coordinates are per ACSRS through Langan's Esri
3. Copyright © 2011 National Geographic Society, Inc.
4. Water supply areas obtained from WV DEP.

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Office of Oil and Gas
AUG 22 2017
WV Department of Environmental Protection