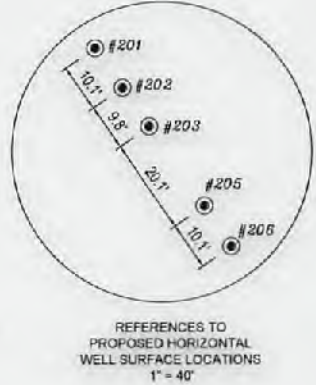
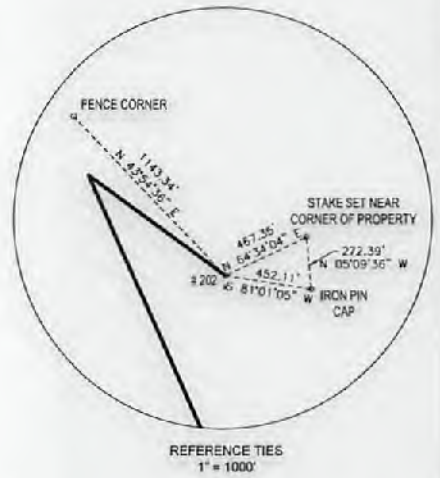
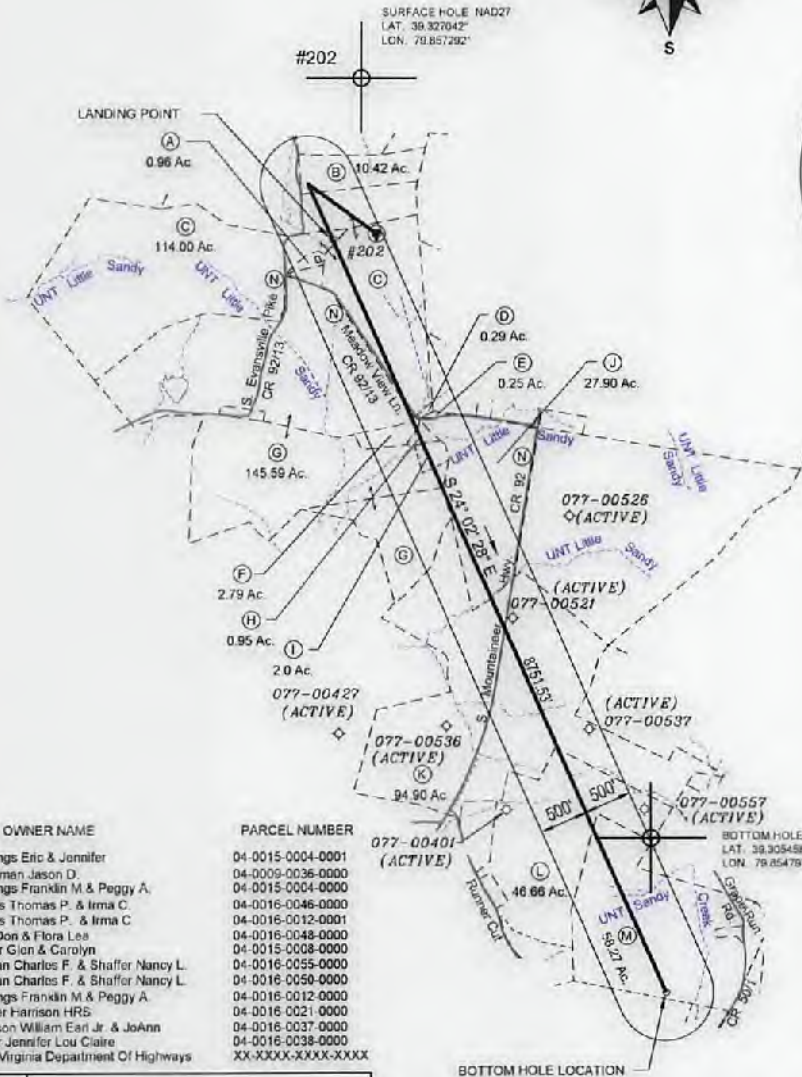


SURFACE HOLE DEC. LONG. = -79.8541680
 SURVEYED LONG. = -79° 51' 55.50"

9149'

Latitude: 39° 20' 00" (NAD27)

2248'



TAX MAP ID NUMBER	OWNER NAME	PARCEL NUMBER
A	Jennings Eric & Jennifer	04-0015-0004-0001
B	Hershman Jason D.	04-0009-0036-0000
C	Jennings Franklin M & Peggy A.	04-0015-0004-0000
D	Owens Thomas P. & Irma C.	04-0016-0046-0000
E	Owens Thomas P. & Irma C.	04-0016-0012-0001
F	Post Don & Flora Lea	04-0016-0048-0000
G	Clutter Glen & Carolyn	04-0015-0008-0000
H	Shahan Charles F. & Shaffer Nancy L.	04-0016-0055-0000
I	Shahan Charles F. & Shaffer Nancy L.	04-0016-0050-0000
J	Jennings Franklin M & Peggy A.	04-0016-0012-0000
K	Runner Harrison HRS	04-0016-0021-0000
L	Clarkson William Earl Jr & JoAnn	04-0016-0037-0000
M	Baylor Jennifer Lou Claire	04-0016-0038-0000
N	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
N) 301476.30	N) 39.32713736	N) 4353694.064
E) 1865131.00	E) 79.86541680	E) 597792.812
LANDING POINT	LANDING POINT	LANDING POINT
N) 301414.60	N) 39.32656288	N) 4353672.965
E) 1864676.70	E) 79.86702187	E) 597654.706
BOTTOM HOLE	BOTTOM HOLE	BOTTOM HOLE
N) 293603.60	N) 39.30555606	N) 4351310.706
E) 1868162.40	E) 79.85459085	E) 598756.297

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 08/23/17
 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 23, 2017
 ROCKY JENNINGS
 OPERATOR'S WELL #: #202
 API WELL #: 47 77 00633 HGA
 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

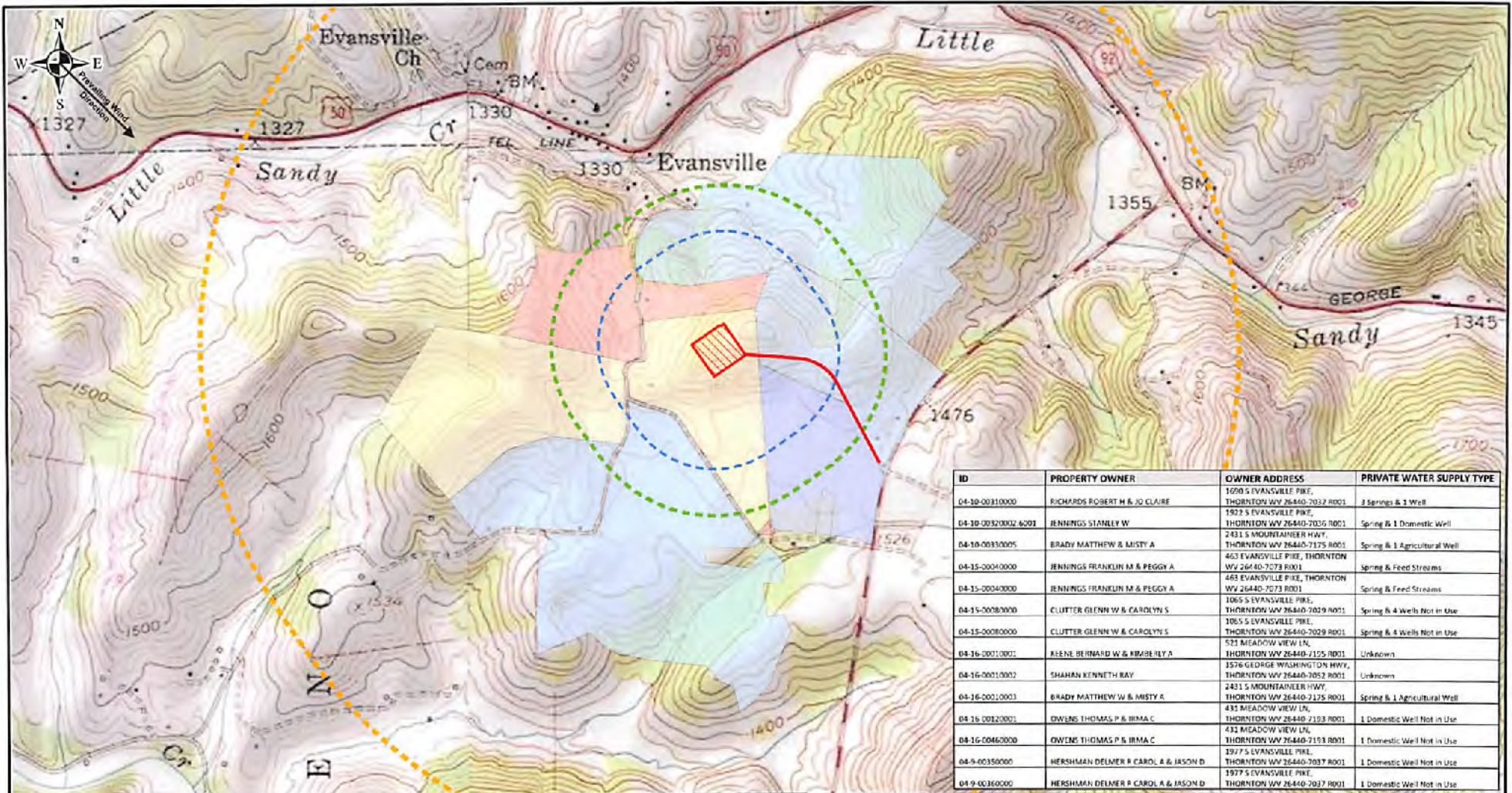
ELEVATION: 1651.5' - DESIGN
 QUADRANGLE: FELLOWSVILLE WV
 ACREAGE: 114 03/02/2018
 ACREAGE: 504 ±

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

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

ESTIMATED DEPTH: TVD: 7940' TMD: 16978'
 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. = 39.32713737
 SURVEYED LAT. = 39° 18' 37.68"



ID	PROPERTY OWNER	OWNER ADDRESS	PRIVATE WATER SUPPLY TYPE
04-10-00310000	RICHARDS ROBERT H & JO CLAIRE	1070 S EVANSVILLE PIKE, THORNTON WV 26440-2032 R001	3 Springs & 1 Well
04-10-00320002 6201	JENNINGS STANLEY W	1927 S EVANSVILLE PIKE, THORNTON WV 26440-2036 R001	Spring & 1 Domestic Well
04-10-00330005	BRADY MATTHEW & MISTY A	2431 S MOUNTAINEER HWY, THORNTON WV 26440-2175 R001	Spring & 1 Agricultural Well
04-15-00040000	JENNINGS FRANKLIN M & PEGGY A	463 EVANSVILLE PIKE, THORNTON WV 26440-2073 R001	Spring & Feed Streams
04-15-00040000	JENNINGS FRANKLIN M & PEGGY A	463 EVANSVILLE PIKE, THORNTON WV 26440-2073 R001	Spring & Feed Streams
04-15-00080000	CLIFFER GLENN W & CAROLYN S	1065 S EVANSVILLE PIKE, THORNTON WV 26440-2029 R001	Spring & 4 Wells Not in Use
04-15-00080000	CLIFFER GLENN W & CAROLYN S	1065 S EVANSVILLE PIKE, THORNTON WV 26440-2029 R001	Spring & 4 Wells Not in Use
04-16-00010001	REENE BERNARD W & KIMBERLY A	523 MEADOW VIEW LN, THORNTON WV 26440-2125 R001	Unknown
04-16-00010002	SHAHAN KENNETH RAY	3576 GEORGE WASHINGTON HWY, THORNTON WV 26440-2052 R001	Unknown
04-16-00010003	BRADY MATTHEW W & MISTY A	2431 S MOUNTAINEER HWY, THORNTON WV 26440-2175 R001	Spring & 1 Agricultural Well
04-16-00020001	OWENS THOMAS P & IRMA C	432 MEADOW VIEW LN, THORNTON WV 26440-2193 R001	1 Domestic Well Not in Use
04-16-00060000	OWENS THOMAS P & IRMA C	432 MEADOW VIEW LN, THORNTON WV 26440-2193 R001	1 Domestic Well Not in Use
04-9-00350000	HERSHMAN DELMER R CAROL A & JASON D	1977 S EVANSVILLE PIKE, THORNTON WV 26440-2037 R001	1 Domestic Well Not in Use
04-9-00360000	HERSHMAN DELMER R CAROL A & JASON D	1977 S EVANSVILLE PIKE, THORNTON WV 26440-2037 R001	1 Domestic Well Not in Use

Legend

- Proposed Access Road
- Proposed Well Pad Location
- 1000ft. Radius from Well Pad
- 1500ft. Radius from Well Pad
- One-Mile Radius from Well Pad

Private Water Supply Type

- Well
- Spring
- Spring & Well
- Unknown

SCALE IN FEET

Notes:
 1. Prevailing wind direction is Southeast
 2. Topographic base map is provided through Langan's Esri ArcGIS software licensing and ArcGIS online.
 Copyright: © 2011 National Geographic Society, Incubed.
 3. Water supply areas obtained from WV DEP.

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Langan Engineering & Environmental Services, Inc.
 Langan Engineering, Environmental, Surveying and
 Landscape Architecture, D.P.C.
 Langan International LLC
 Collectively known as Langan

Project
**ARSENAL RESOURCES
 JENNINGS WELL PAD SITE**
 THORNTON
 PRESTON COUNTY WEST VIRGINIA

Drawing Title
**PRIVATE WELL
 LOCATION MAP**

Project No. 250023101
 Date 4/11/2017
 Scale 1"=1000'
 Drawn By BJS
 Submission Date n/a

Figure 1
 Sheet 1 of 1

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

77-00633