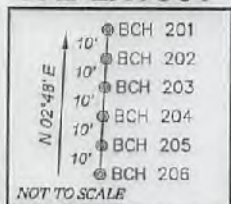


HOWERSHETT PAD LAYOUT



NOTES ON SURVEY

1. NO WATER WELLS OR DEVELOPED SPRINGS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS > 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD. NO RAILROADS WERE FOUND WITHIN THE SCOPE OF THIS PLAT.
2. TAX MAPS IN THIS AREA WERE FOUND TO CONTAIN SIGNIFICANT ERROR. PROPERTY LINES SHOWN HEREON WERE TAKEN FROM DEEDS AND FIELD EVIDENCE.
3. TIES TO WELLS, CORNERS AND REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD' 27.

TAG	SURFACE OWNER	TAX MAP/PCL.	ACREAGE
A	HOWERSHETT LIVING TRUST, MELVIN & RENEE HOWERSHETT TRUSTEES	19-41	158.94±
B	HOWERSHETT LIVING TRUST, MELVIN & GRACE HOWERSHETT TRUSTEES	19-40	71.78±
C	J. GLENN MOORE	18-8	62.30±
D	J. GLENN MOORE, ET UX	15-13	5.00±
E	THOMAS WILLIAM OWENS	18-10	6.10±
F	ELBERT MCLEAN, ET UX	18-39	1.97±
G	MARK L. & ELOISE (HWS) HOLLER	18-30	70.00±
H	PAUL D. & JOHN R. ADAMS	18-31	109.00±
I	THOMAS G. & RAMBLE HWS POLING	18-32	174.00±
J	ROMMELL FAMILY TRUST	26-5	179.02±
K	KEVIN E. KLINGENSMITH, ET AL.	26-6	109.50±

**ARSENAL RESOURCES
HOWERSHETT BCH 206**

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C.(FT) N. 254,058.4 E. 1,862,148.3
 NAD'83 GEO. LAT-(N) 39.196916 LONG-(W) 79.875261
 NAD'83 UTM (M) N. 4,339,231.5 E. 597,123.9

LANDING POINT

NAD'83 S.P.C.(FT) N. 254,173.6 E. 1,863,676.5
 NAD'83 GEO. LAT-(N) 39.197250 LONG-(W) 79.869970
 NAD'83 UTM (M) N. 4,339,274.3 E. 597,588.9

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 246,576.5 E. 1,967,098.2
 NAD'83 GEO. LAT-(N) 39.176430 LONG-(W) 79.857890
 NAD'83 UTM (M) N. 4,338,976.9 E. 598,669.8

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 DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7962NP206.dwg
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION EXISTING: 1,560.90' / PROPOSED: 1,558' WATERSHED BRUSHY FORK
 DISTRICT COVE COUNTY BARBOUR QUADRANGLE NESTORVILLE 7.5'
 SURFACE OWNER HOWERSHETT LIVING TRUST, MELVIN & RENEE HOWERSHETT TRUSTEES ACREAGE 158.94±
 ROYALTY OWNER HOWERSHETT LIVING TRUST, MELVIN & RENEE HOWERSHETT TRUSTEES, ET AL. ACREAGE 158.94±
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER
 PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
 ESTIMATED DEPTH 16,570' TMD / 7,594' TVD

WELL OPERATOR ARSENAL RESOURCES DESIGNATED AGENT WILLIAM VEIGEL
 ADDRESS 6031 WALLACE RD. EXT. SUITE 300 ADDRESS 65 PROFESSIONAL PLACE
WEXFORD, PA 15090 BRIDGEPORT, WV 26330

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- FENCE LINE
- COUNTY ROUTE
- STATE ROUTE
- PROPOSED WELL
- EXISTING WELL
- PERMITTED WELL
- LEASE TAG

REFERENCES

1" = 200'

LINE	BEARING	DISTANCE
L1	N 64°14' W	2578.42'
L2	N 11°08' W	2722.00'
L3	N 61°14' E	1445.22'
L4	S 24°15' E	636.64'

MANHOLE LTD IN TOP CONCRETE CISTERN
 N 15°45' E 395.46'
 WELL NO. BCH 201
 WELL NO. BCH 202
 WELL NO. BCH 203
 WELL NO. BCH 204
 WELL NO. BCH 205
 WELL NO. BCH 206
 CORNER POST IN THIS FENCE
 S 42°11' W 309.61'

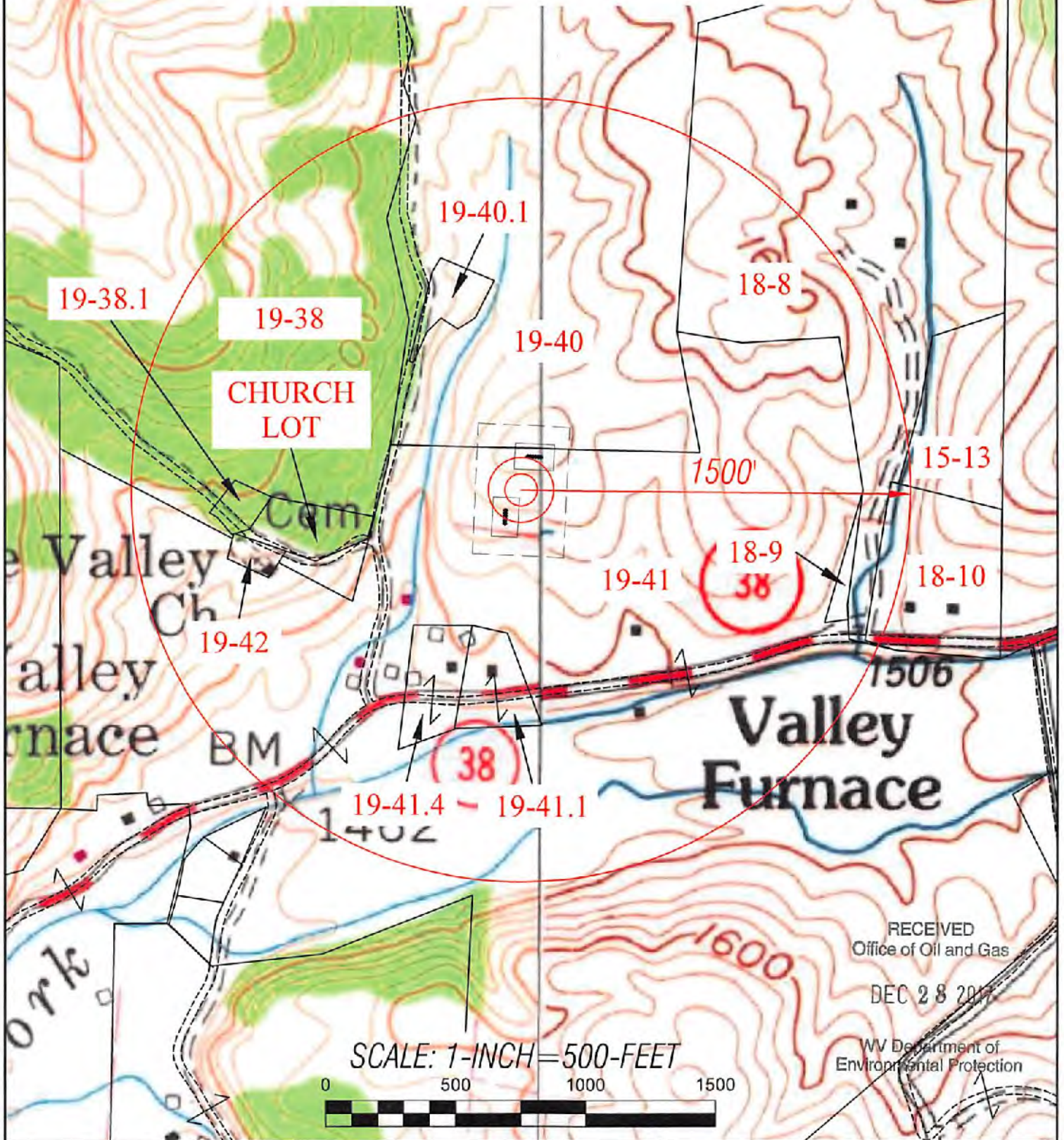
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE DECEMBER 7, 20 17
 REVISED _____
 OPERATORS WELL NO. HOWERSHETT BCH 206
 API WELL NO. 47 - 001 - 03360
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

05/25/2018

COUNTY NAME PERMIT

HOWDERSHOLT PAD POSSIBLE WATER PURVEYORS



RECEIVED
Office of Oil and Gas

DEC 28 2017

WV Department of
Environmental Protection

SCALE: 1-INCH = 500-FEET



TOPO SECTIONS OF:
COLEBANK & NESTORVILLE WV
7.5' QUADRANGLE

OPERATOR:
ARSENAL RESOURCES
65 Professional Place, Suite 200
Bridgeport, WV 26330 **05/25/2018**

DRAWN BY K.G.M.	FILE NO. 8606	DATE 12-11-17	CADD FILE: 7062MATOPURVEYOR.DWG
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COUNTY BARBOUR	DISTRICT COVE
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