

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL.
2. ONE DWELLING IS LOCATED WITHIN 625' OF THE CENTER OF WELL PAD.
3. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'
4. AS-DRILLED DATA PROVIDED BY ARSENAL RESOURCES.

ARSENAL RESOURCES  
MACKEY WOLFE 203

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

NAD'83 S.P.C.(FT) N. 275,392.7 E. 1,859,031.1  
 NAD'83 GEO. LAT-(N) 39.255454 LONG-(W) 79.886583  
 NAD'83 UTM (M) N. 4,345,715.9 E. 596,066.3

LANDING POINT

NAD'83 S.P.C.(FT) N. 275,841.6 E. 1,858,313.6  
 NAD'83 GEO. LAT-(N) 39.256678 LONG-(W) 79.889124  
 NAD'83 UTM (M) N. 4,345,849.0 E. 595,845.4

BOTTOM HOLE

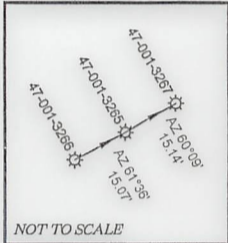
NAD'83 S.P.C.(FT) N. 283,160.7 E. 1,855,085.8  
 NAD'83 GEO. LAT-(N) 39.276734 LONG-(W) 79.900638  
 NAD'83 UTM (M) N. 4,348,062.7 E. 594,824.9

TAG	SURFACE OWNER	TAX MAP / PCL	ACREAGE
A	MARGARET WOLFE MACKEY (LIFE EST) & JOHN M. WOLFE	7-21	226.815±
B	STATE OF WEST VIRGINIA - MORGANTOWN-BEVERLY TURNPIKE	N/A	N/A
C	SCOT L. & DENISE E. HARSHBERGER	7-11.3	187.83±
D	CATHARINE WOLFE	7-13	65.00±
E	ZACKARY S. BERGDORF	7-12	180.25±
F	ZACKARY BERGDORF	7-3	65.15±
G	LAWRENCE BOYCE, JR.	4-28	169.66±

203 WELL TIES

LINE	BEARING	DISTANCE
L1	N 42°52' E	469.39'
L2	S 40°22' E	1064.79'

MACKEY WOLFE  
PAD LAYOUT



NOT TO SCALE

LEGEND

AS DRILLED ————

PROPOSED - - - - -

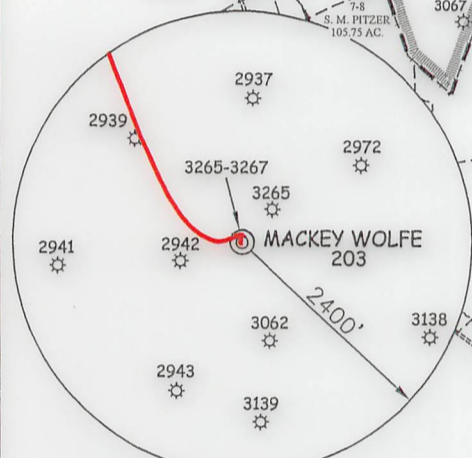
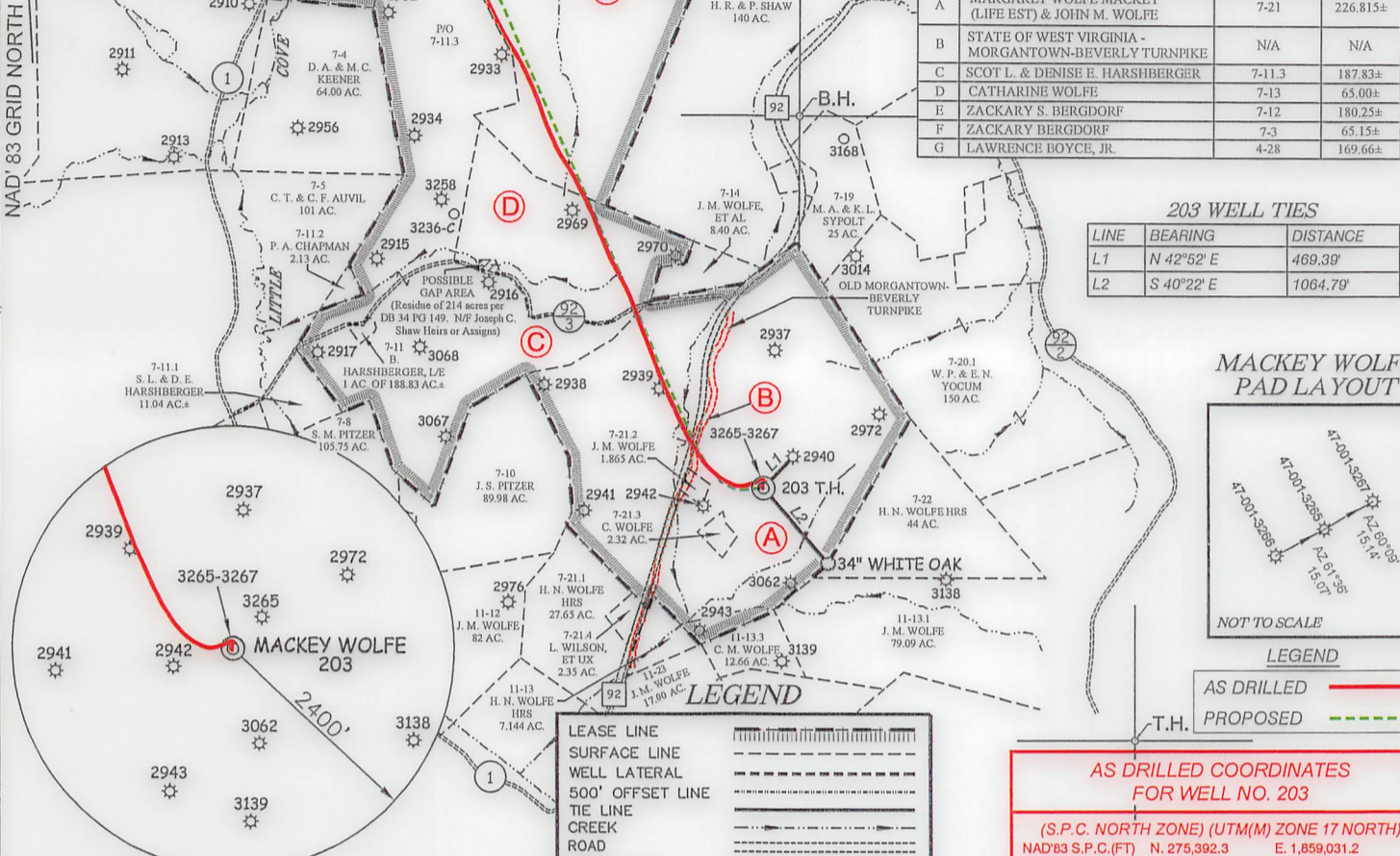
NAD'83 GRID NORTH

B.H. LONGITUDE 79°52'30"

AS-DRILLED

13,190' T.H.

AS-DRILLED



LEGEND

LEASE LINE	—————
SURFACE LINE	—————
WELL LATERAL	—————
500' OFFSET LINE	—————
TIE LINE	—————
CREEK	~~~~~
ROAD	—————
FENCE LINE	—————
COUNTY ROUTE	—————
STATE ROUTE	—————
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
LEASE TAG	⊙

AS DRILLED COORDINATES FOR WELL NO. 203

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

NAD'83 S.P.C.(FT) N. 275,392.3 E. 1,859,031.2  
 NAD'83 GEO.(DD) LAT-(N) 39.255453 LONG-(W) 79.886583  
 NAD'83 GEO.(DMS) LAT-(N) 39°15'19.6" LONG-(W) 79°53'11.7"  
 NAD'83 UTM (M) N. 4,345,715.8 E. 596,066.3

BOTTOM HOLE

NAD'83 S.P.C.(FT) N. 282,162.3 E. 1,855,446.9  
 NAD'83 GEO.(DD) LAT-(N) 39.273997 LONG-(W) 79.899347  
 NAD'83 GEO.(DMS) LAT-(N) 39°16'26.4" LONG-(W) 79°53'57.6"  
 NAD'83 UTM (M) N. 4,347,760.4 E. 594,940.0

**SLS**  
Land & Energy Development  
Solutions from the ground up.  
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I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

DATE JUNE 19, 20 18

REVISED \_\_\_\_\_

OPERATORS WELL NO. MACKEY WOLFE 203

API WELL NO. 47 — 001 — 03267

STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 7968NADP203.dwg

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

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

LOCATION: ELEVATION 1,626' WATERSHED LITTLE COVE RUN

DISTRICT COVE COUNTY BARBOUR QUADRANGLE THORNTON 7.5'

SURFACE OWNER MARGARET WOLFE MACKEY (LIFE EST) & JOHN M. WOLFE ACREAGE 226.185±

ROYALTY OWNER MARGARET WOLFE MACKEY (LIFE EST) & JOHN M. WOLFE ET AL ACREAGE 226.185±

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

PROPOSED DEPTH 16,340' TMD / 8,025' TVD

AS-DRILLED DEPTH 15,341' TMD / 7,894' 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

COUNTY NAME

PERMIT