

SURFACE HOLE DEC. LONG: 80.612622  
SURVEYED LONG: 80° 36' 45.4"

8,250'

Latitude: 39° 37' 30" (NAD27)

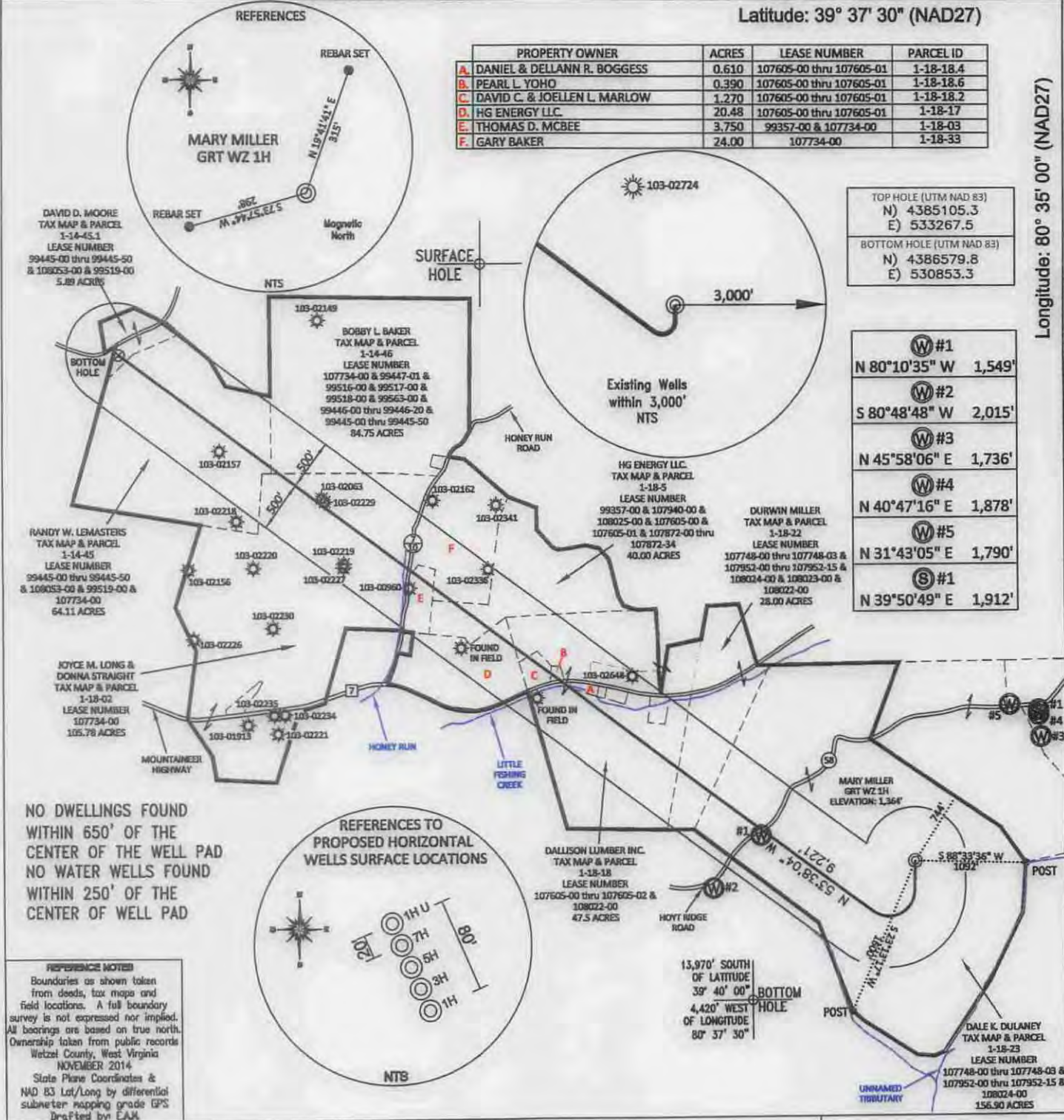
Longitude: 80° 35' 00" (NAD27)

3,860'  
SURFACE HOLE DEC. LAT: 39.614874  
SURVEYED LAT: 39° 36' 03.8"

|    | PROPERTY OWNER               | ACRES | LEASE NUMBER             | PARCEL ID |
|----|------------------------------|-------|--------------------------|-----------|
| A. | DANIEL & DELLANN R. BOGGESS  | 0.610 | 107605-00 thru 107605-01 | 1-18-18.4 |
| B. | PEARL L. YOHO                | 0.390 | 107605-00 thru 107605-01 | 1-18-18.6 |
| C. | DAVID C. & JOELLEN L. MARLOW | 1.270 | 107605-00 thru 107605-01 | 1-18-18.2 |
| D. | HG ENERGY LLC.               | 20.48 | 107605-00 thru 107605-01 | 1-18-17   |
| E. | THOMAS D. MCBEE              | 3.750 | 99357-00 & 107734-00     | 1-18-03   |
| F. | GARY BAKER                   | 24.00 | 107734-00                | 1-18-33   |

|                          |           |
|--------------------------|-----------|
| TOP HOLE (UTM NAD 83)    |           |
| N)                       | 4385105.3 |
| E)                       | 533267.5  |
| BOTTOM HOLE (UTM NAD 83) |           |
| N)                       | 4386579.8 |
| E)                       | 530853.3  |

|     |               |        |
|-----|---------------|--------|
| W#1 | N 80°10'35" W | 1,549' |
| W#2 | S 80°48'48" W | 2,015' |
| W#3 | N 45°58'06" E | 1,736' |
| W#4 | N 40°47'16" E | 1,878' |
| W#5 | N 31°43'05" E | 1,790' |
| S#1 | N 39°50'49" E | 1,912' |

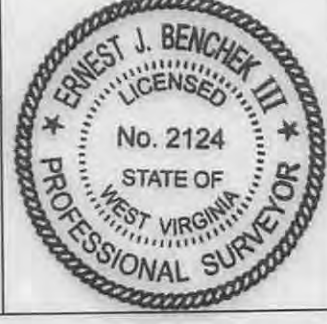


NO DWELLINGS FOUND WITHIN 650' OF THE CENTER OF THE WELL PAD  
NO WATER WELLS FOUND WITHIN 250' OF THE CENTER OF WELL PAD

**REFERENCE NOTES**  
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records Wetzel County, West Virginia NOVEMBER 2014.  
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS. Drafted by EAM.

FILE #: AE001  
DRAWING #: 2454  
SCALE: PLAT - 1" = 1400'  
TICK MARK - 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

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: *[Signature]*  
L.L.S. #2124 : Ernest J. Benchek III



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

DATE: FEBRUARY 23, 2015  
OPERATOR'S WELL #: MARY MILLER GRT WZ 1H  
API WELL #: 47 103 03070H6A  
STATE COUNTY PERMIT

Well Type:  Oil  Waste Diposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: FISHING CREEK  
COUNTY/DISTRICT: WETZEL / CENTER  
SURFACE OWNER: DALE K. DULANEY  
OIL & GAS ROYALTY OWNER: PATSY C. FISH, ARTHUR R. & JOAN E. MILLER, CONNIE S. WHITE, KEITH R. MOORE  
LEASE NUMBERS:

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

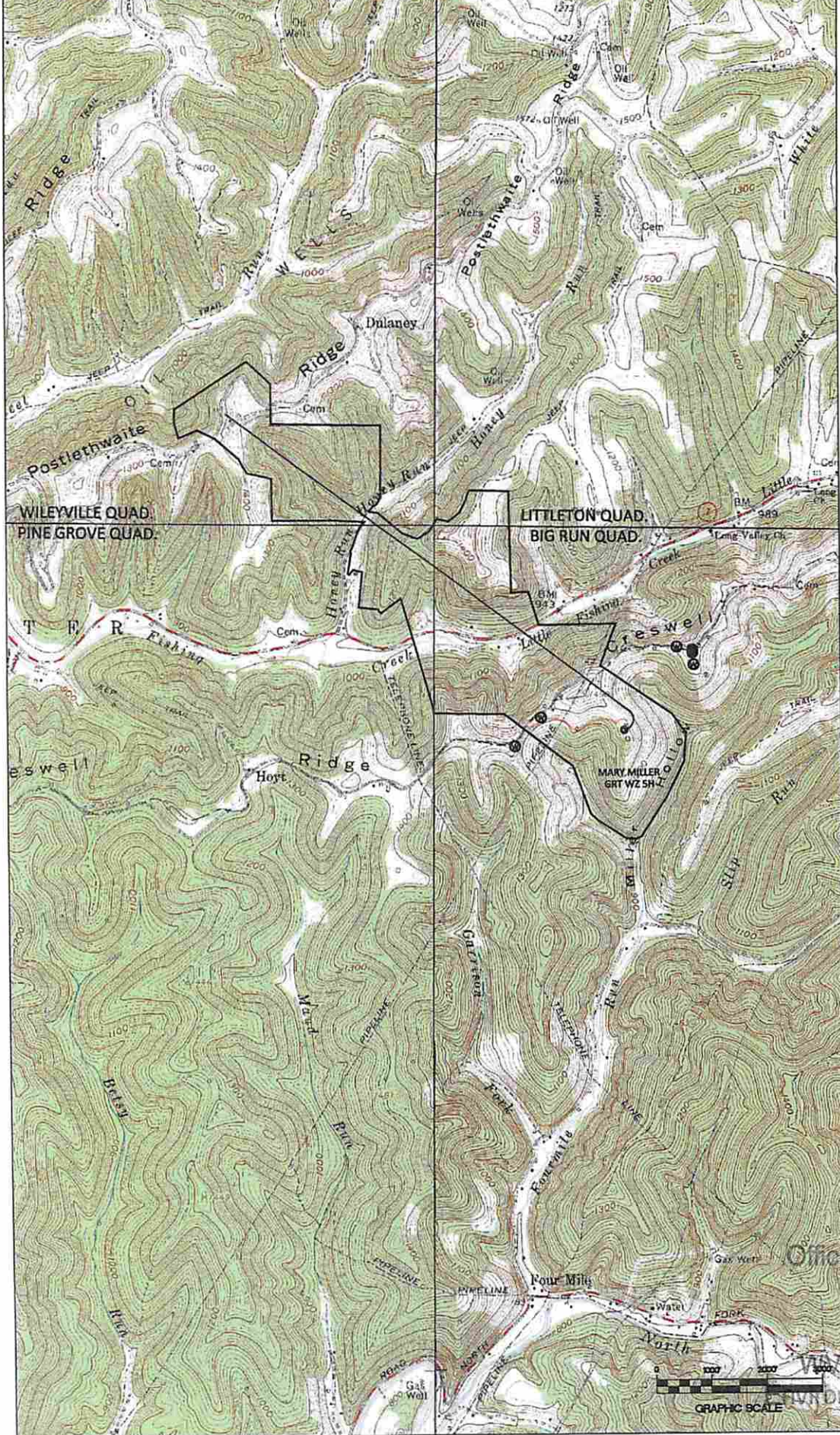
TARGET FORMATION: MARCELLUS  
WELL OPERATOR: American Energy-Marcellus LLC.  
ADDRESS: 3501 NW 63rd Street  
CITY: Oklahoma City STATE: OK ZIP CODE: 73116

ASBUILT ELEVATION: 1,364'  
QUADRANGLE: BIG RUN, WV  
ACREAGE: 156.90 +/-  
ACREAGE: 583.43 +/-  
ESTIMATED DEPTH: TVD: 7,439' TMD: 17,200'  
DESIGNATED AGENT: Eric B. Gillespie  
ADDRESS: 103 Taryn Lane  
CITY: Cross Lanes STATE: WV ZIP CODE: 25513

03/06/2015

WELL NAME: MARY MILLER GRT WZ 5H  
QUAD: BIG RUN, WV

47 10 30 30 70



RECEIVED  
Office of Oil and Gas

JAN 09 2015

West Virginia Department of Environmental Protection