

BOTTOM HOLE: LON:-80°38'04.9"

LON: -80°36'45.5"

8255

LAT: 39°37'30"

MAP OF H.G. ENERGY, LLC -MILLER 406 UNIT-

LON: 80°35'00"

3625

LAT:39°36'54.2"

BOTTOM HOLE: LAT:39°37'56.0"

**SURVEY NOTES**

1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owners & adjoiners information obtained from Wetzel Co. Assessors' Office. Lease names, & line mapping provided by HGE GIS system. Ends of unit lines mapped by MLS LLC & HGE.

3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title Opinion.

**UTM Coordinates (Zone 17N-NAD 1983)**

Surface N-4,385,114m. E-533,266m.

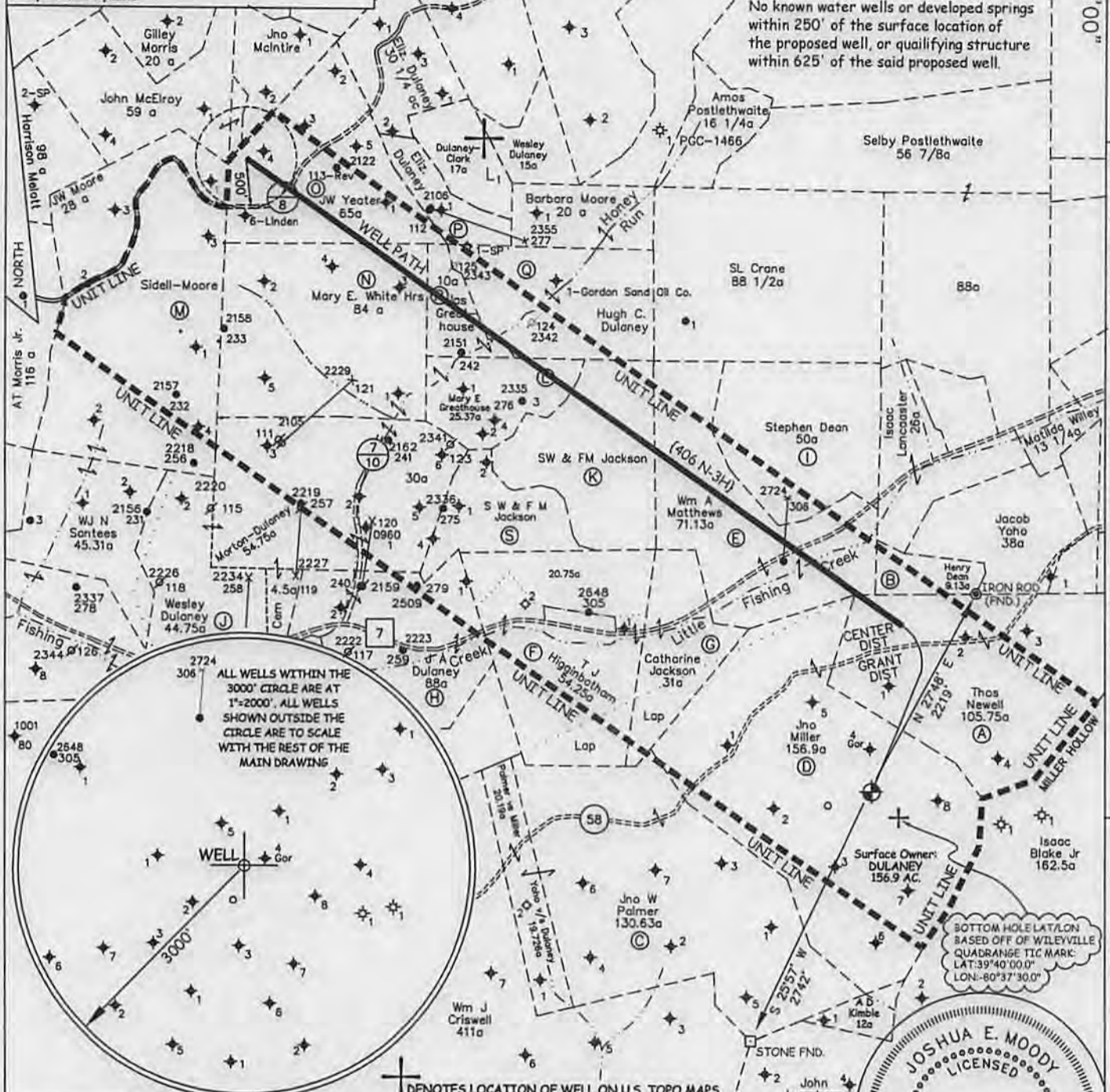
Bottom Hole N-4,387,013m. E-531,364m.

**NAD83 LOCATION REFERENCES**

N 42°24' W 531' 5/8" REBAR

S 21°23' E 205' SPIKE

No known water wells or developed springs within 250' of the surface location of the proposed well, or qualifying structure within 625' of the said proposed well.



JOB # 13-001  
 DRAWING # 13HG405B 406B  
 SCALE 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY 1/200'  
 PROVEN SOURCE OF ELEV. 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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



**WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**

MOODY LAND SURVEYING, LLC  
 ST. MARYS, WV 26170



JOSHUA E. MOODY, P.S. 2020  
 DATE 1/27/14  
 OPERATOR'S WELL # 406 N-3H

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  HORIZONTAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1369' WATERSHED NORTH FOR, FISHING CREEK API WELL # 47-103-02997 HLG  
 DISTRICT GRANT COUNTY WETZEL STATE COUNTY PERMIT

SURFACE OWNER DALE K. DULANEY (surface hole) ACREAGE 156.9 AC. +/-  
 OIL & GAS ROYALTY OWNER ARTHUR MILLER et al LEASE ACREAGE 156.9 AC. +/-  
 PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION   
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLUG & ABANDON CLEAN OUT & REPLUG \_\_\_\_\_  
 TARGET FORMATION MARCELLUS  
 WELL OPERATOR H.G. ENERGY, LLC ESTIMATED DEPTH TVD= 7,080' MD= 16,248'  
 ADDRESS 5260 DuPONT ROAD DESIGNATED AGENT MIKE KIRSCH  
 PARKERSBURG, WV 26101 ADDRESS 5260 DuPONT ROAD  
 PARKERSBURG, WV 26101

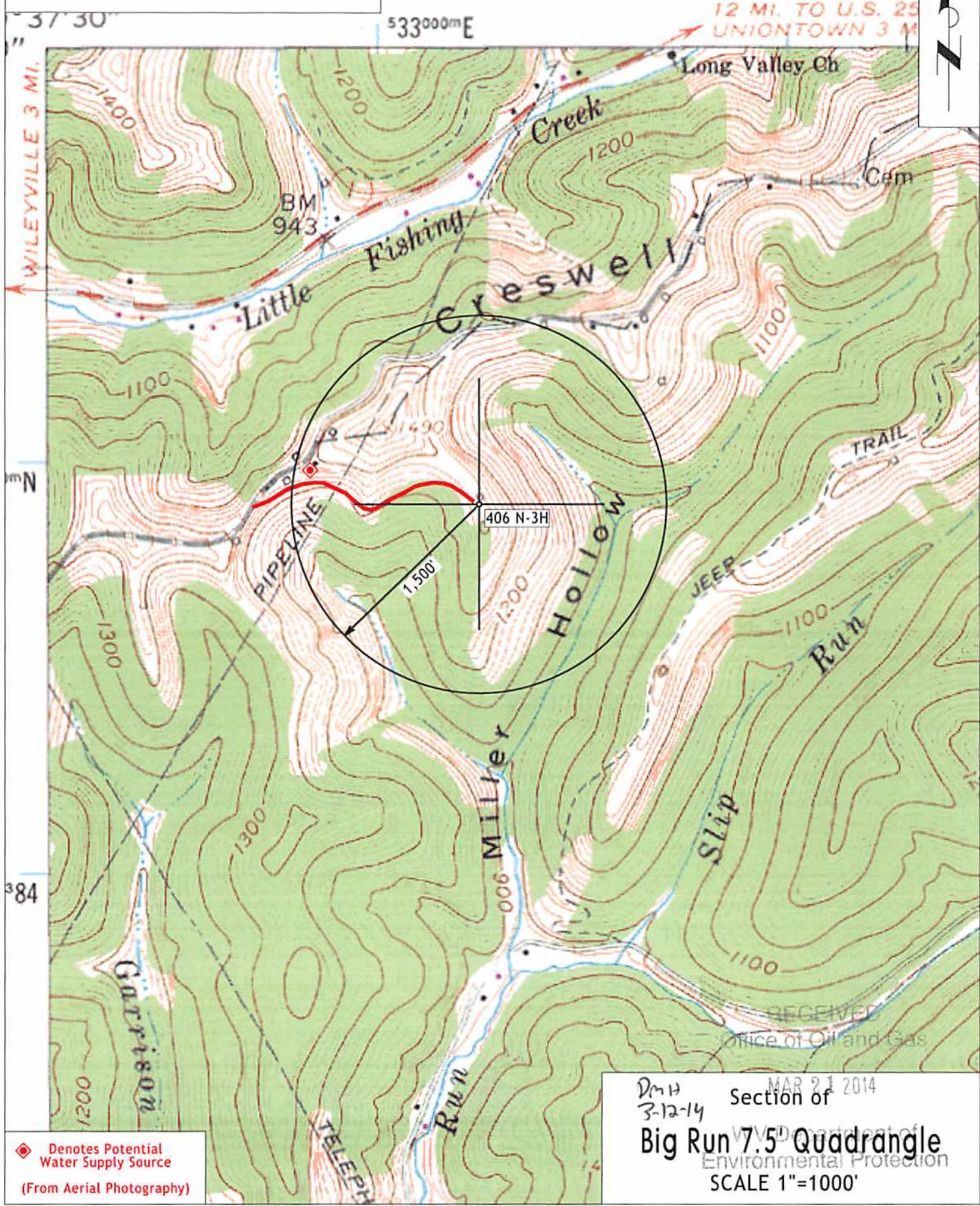
FORM WW-6

LEASE # 107748-00

05/23/2014

SUBJECT WELL  
Mary A. Miller 406 N-3H

# OF THE INTERIOR AL SURVEY



37 30"  
WILEYVILLE 3 MI.

533000mE

12 MI. TO U.S. 25  
UNIONTOWN 3 M

Long Valley Oh

BM  
943

Cem

406 N-3H

1,500'

384

384

RECEIVED  
Office of Oil and Gas

◆ Denotes Potential  
Water Supply Source  
(From Aerial Photography)

DMH  
3-12-14  
Section of  
Big Run 7.5 Quadrangle  
U.S. Department of  
Environmental Protection  
SCALE 1"=1000'

MAR 21 2014