

BOTTOM HOLE: LON: -80°37'56.3"

LON: -80°36'45.4"

8250

LON: 80°35'00"

3640

LAT: 39°36'54.0"

BOTTOM HOLE: LAT: 39°38'03.5"

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 1983).

2 - Surface owners & adjoiner information obtained from Wetzel Co. Assessors Office. Lease names & line mapping provided by HGE GIS system. Ends of unit lines mapped by MLS lic & HGE. (Zone 17 North - NAD 1983).

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-4,385,110m.
E-533,268m.

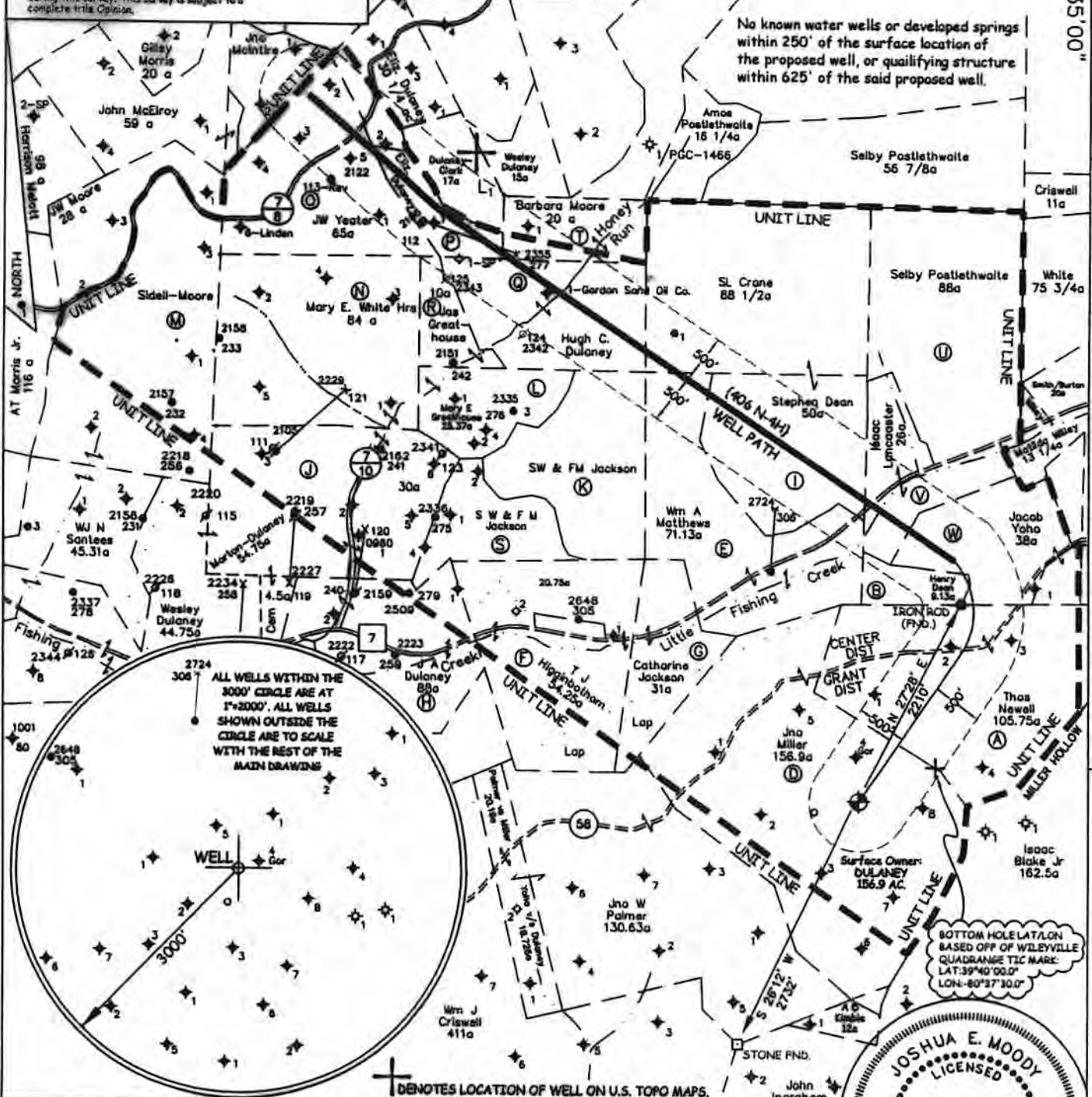
Bottom Hole N-4,387,244m.
E-531,570m.

NAD83 LOCATION REFERENCES

N 41°54' W 548' 5/8" REBAR
S 21°13' E 190' SPIKE

LAT: 39°37'30"
REVISED MAP OF H.G. ENERGY, LLC - MILLER 406 UNIT-

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.



ALL WELLS WITHIN THE 3000' CIRCLE ARE AT 1"=2000'. ALL WELLS SHOWN OUTSIDE THE CIRCLE ARE TO SCALE WITH THE REST OF THE MAIN DRAWING.

BOTTOM HOLE LAT/LON BASED OFF OF WILEYVILLE QUADRANGLE TIC MARK
LAT: 39°40'00.0"
LON: -80°37'30.0"



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 5/07/14
OPERATOR'S WELL # 406 N-4H

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
DISTRICT GRANT COUNTY WETZEL
QUADRANGLE BIG RUN 7.5'

API WELL # H6A
47 - 103 - 03026
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
ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101

ESTIMATED DEPTH TVD= 7,230' MD= 17,053'
DESIGNATED AGENT MIKE KIRSCH
ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101

FORM WW-6

LEASE # 107748-00

03/13/2015