

BOTTOM HOLE: LON: -80°37'10.8"

LON: -80°36'45.3"

8245

LON: 80°35'00"

3650

LAT: 39°36'53.9"

BOTTOM HOLE: LAT: 39°37'52.3"

- SURVEY NOTES**
- 1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM and North (Zone 17 North - NAD 1927).
 - 2 - Surface owners & adjoiner information obtained from Wetzel Co. Assessors Office. Lot/acre names & line mapping provided by HGE GIS system. Ends of unit lines mapped by MLS tie & HGE (Zone 17 North - NAD 1927).
 - 3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title Opinion.

SURVEY NOTES

UTM Coordinates (Zone 17N-NAD 1983)

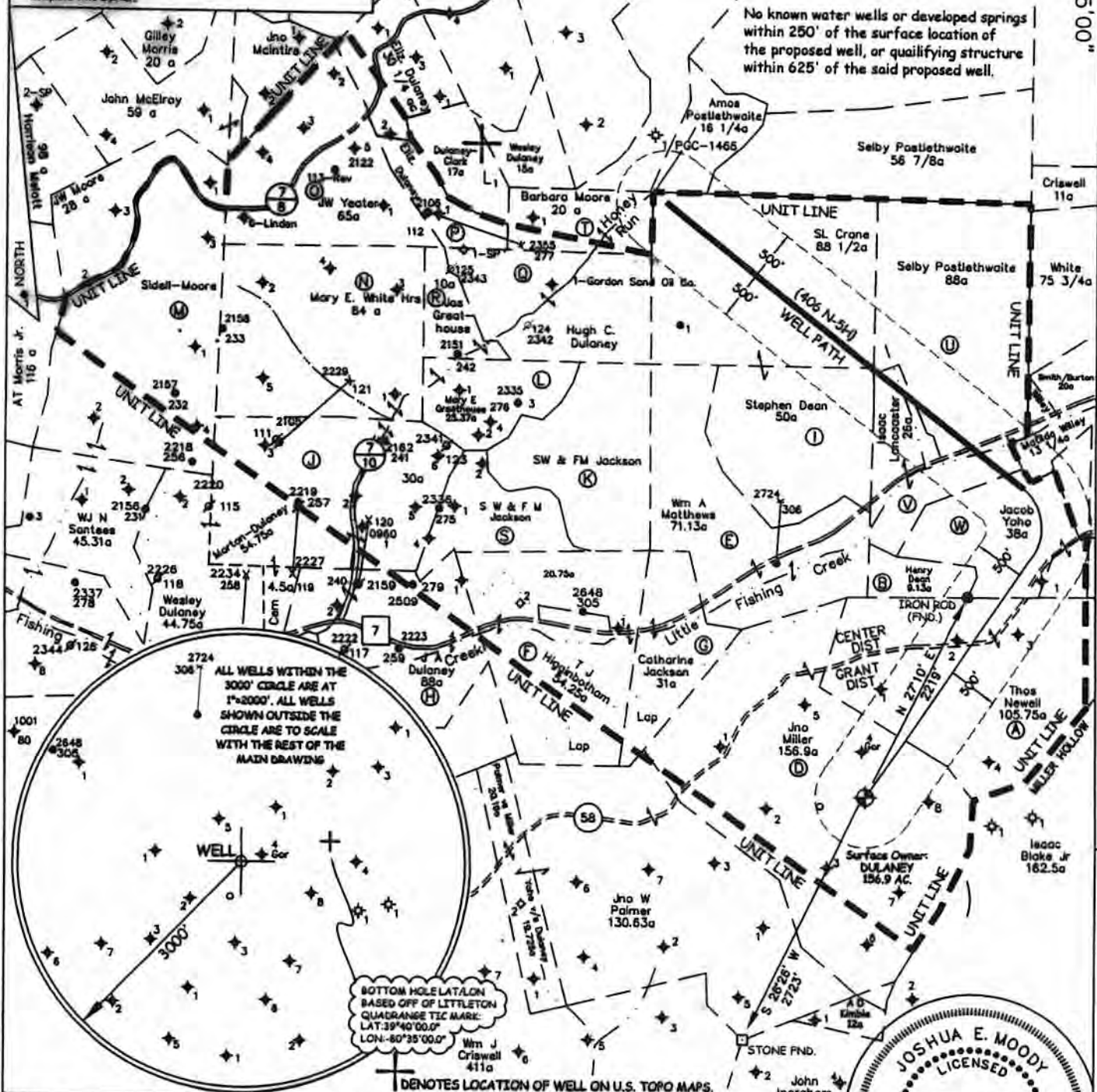
Surface N-4,385,106m.
E-533,270m.
Bottom Hole N-4,386,903m.
E-532,655m.

NAD83 LOCATION REFERENCES

N41°24' W 509' 5/8" REBAR
S 21°03' E 175' 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.

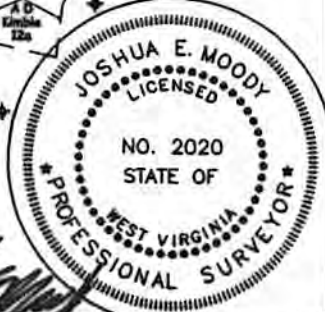


JOB # 13-001
DRAWING # 13HG405B 406B
SCALE 1" = 1500'
MINIMUM DEGREE OF ACCURACY 1/200'
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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

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'

CANCELLED
API WELL # **HGA**
47 - 103 - **03027**
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= 14,387'
DESIGNATED AGENT MIKE KIRSCH
ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101

COUNTY NAME PERMIT