

(BOTTOM HOLE: 80°39'04.5")

LON: -80°40'31.9"

2500'

LAT: 39°37'30"

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 and adjacent information obtained from the Wetzel County Assessor's tax records.

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-4,381,635m.
E-527,879m.

Bottom Hole N-4,381,173m.
E-529,987m.

LOCATION REFERENCES

NAD 1983
N 75°55' W 238' UTILITY POLE
N 48°16' E 251' SPIKE

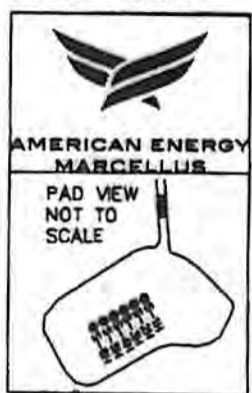
MAP OF H.G. ENERGY, LLC -LONG 409 UNIT-

LON: 80°40'00"

14,977'

LAT: 39°35'02.0"

(BOTTOM HOLE: 39°34'46.8")



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

+ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.

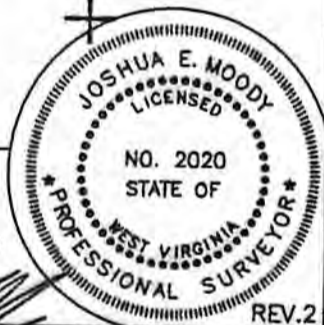
JOB # 12-025
DRAWING # 12HG409FOLDER
SCALE 1" = 1500'
MINIMUM DEGREE OF ACCURACY SUB-METER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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 12/08/14
OPERATOR'S WELL # 409 S-2H

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 1340' WATERSHED NORTH FORK, FISHING CREEK API WELL # 47-103-02879 H6A
DISTRICT GRANT COUNTY WETZEL STATE 47 COUNTY 103 PERMIT 02879 H6A
QUADRANGLE PINE GROVE 7.5'

SURFACE OWNER FRANCIS D. & FREEDA M. BROWN (surface hole) ACREAGE 103 ACRES +/-
OIL & GAS ROYALTY OWNER ROBERT B. MYERS ET AL LEASE ACREAGE 580 ACRES +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) AS DRILLED LOCATION
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS
WELL OPERATOR AMERICAN ENERGY-MARCELLUS ESTIMATED DEPTH TVD= 7,368.55' MD= 14,201'
ADDRESS 3501 NW 63rd STREET DESIGNATED AGENT BRANDON MCKINLEY
OKLAHOMA CITY, OK 73116 ADDRESS 3501 NW 63rd STREET
OKLAHOMA CITY, OK 73116

07/08/2016