

(BOTTOM HOLE: 80°39'14.2")

LON: -80°40'32.1"

2513'

LAT: 39°37'30"

LON: 80°40'00"

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 adjoiners 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.

SURVEY NOTES

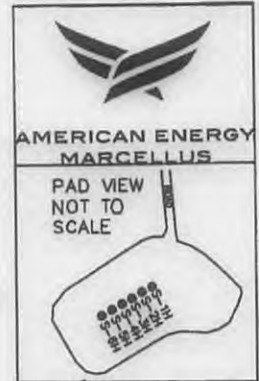
UTM Coordinates
(Zone 17N-NAD 1983)

Surface N-4,381,632m.
E-527,875m.

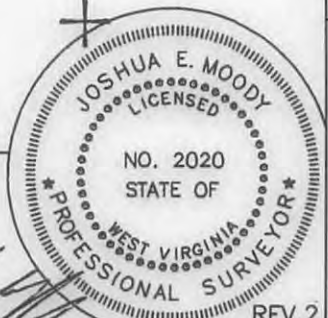
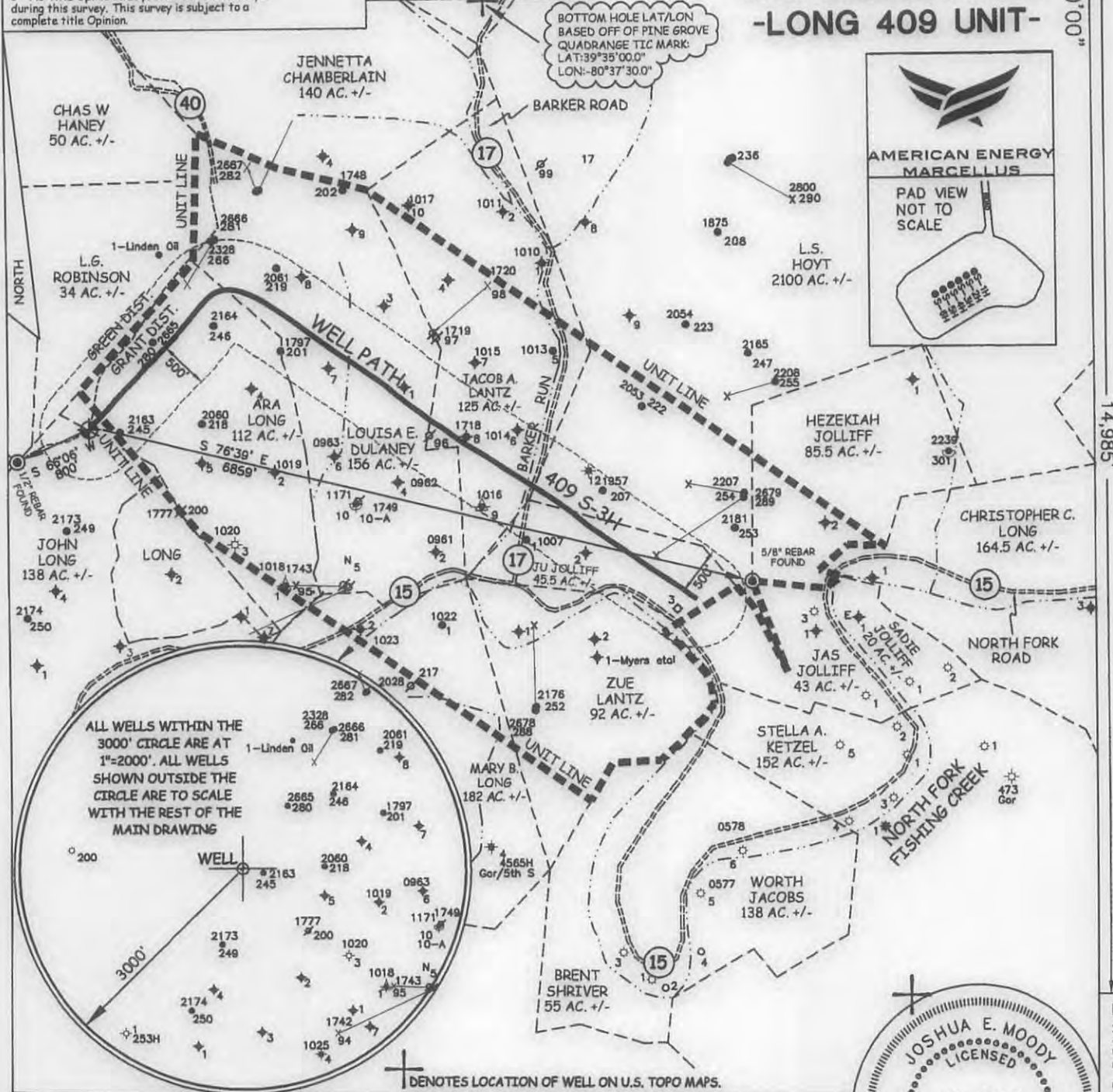
Bottom Hole N-4,381,095m.
E-529,737m.

LOCATION REFERENCES
NAD 1983
N 78°19' W 249' UTILITY POLE
N 47°31' E 236' SPIKE

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



AMERICAN ENERGY
MARCELLUS
PAD VIEW
NOT TO
SCALE



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-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 1340' WATERSHED NORTH FOR, FISHING CREEK API WELL # ___
DISTRICT GRANT COUNTY WETZEL STATE 47 COUNTY 103 PERMIT 02880
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
ADDRESS 3501 NW 63rd STREET
OKLAHOMA CITY, OK 73116
ESTIMATED DEPTH TVD= 7,378.63' MD= 13,312'
DESIGNATED AGENT BRANDON MCKINLEY
ADDRESS 3501 NW 63rd STREET
OKLAHOMA CITY, OK 73116

14,985'
LAT: 39°35'02.0" (BOTTOM HOLE: 39°34'44.3")