

(BOTTOM HOLE: 80°38'58.5")

LONG: -80°40'31.6"

2475'

LAT: 39°37'30"

LONG: 80°40'00"

14,860'

LAT: 39°35'02.2" (BOTTOM HOLE: 39°34'48.2")

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 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.

SURVEY NOTES

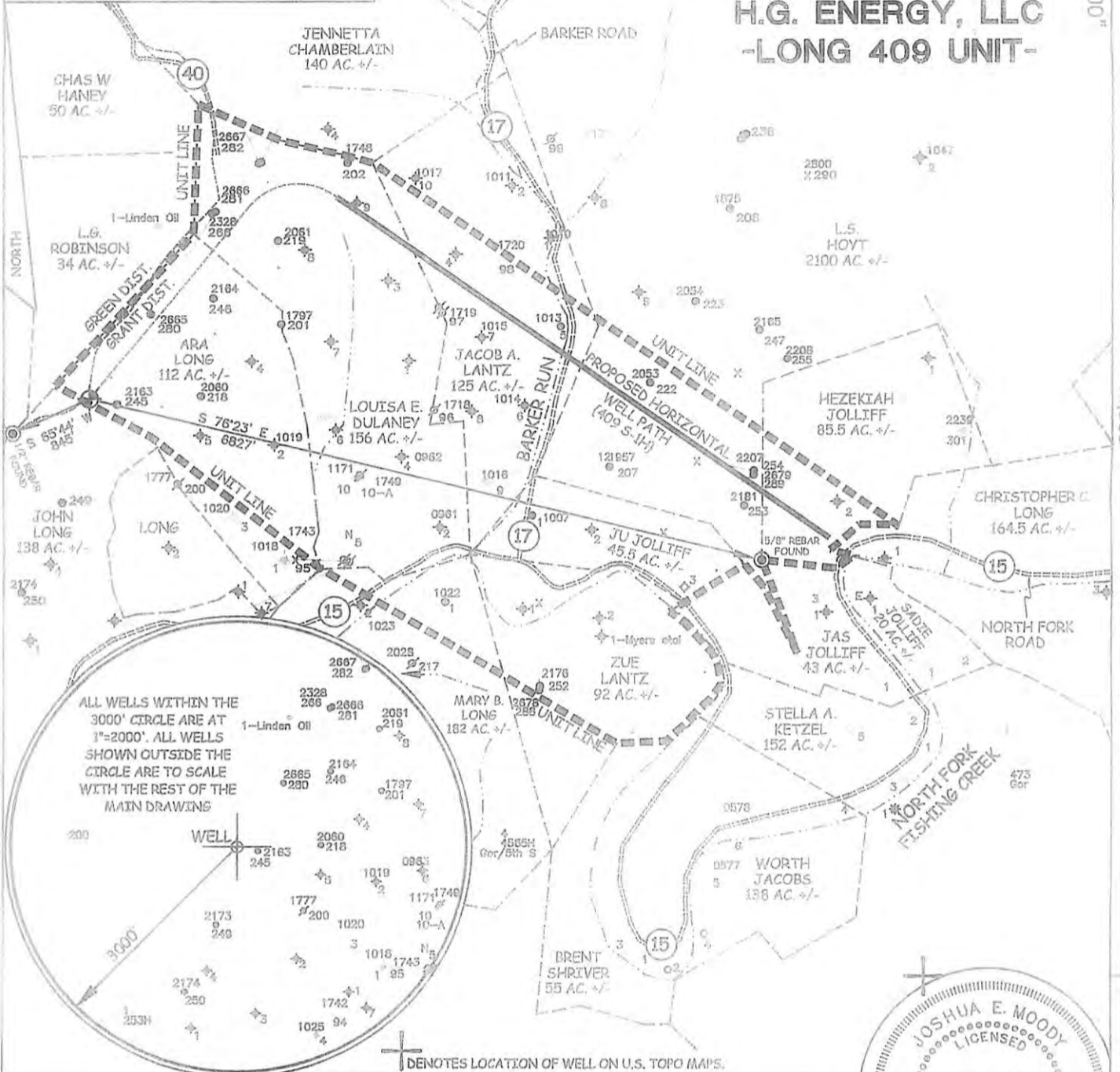
UTM Coordinates (Zone 17N-NAD 1983)

Surface: N-4,381,640m. E-527,887m.
 Bottom Hole: N-4,381,217m. E-530,111m.

LOCATION REFERENCES

NAD 1983
 N 70°30' W 217' UTILITY POLE
 N 50°30' E 200' SPIKE

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



+ 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



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

JOSHUA E. MOODY, P.S. 2020
 DATE 10/30/12
 OPERATOR'S WELL # 409 S-1H

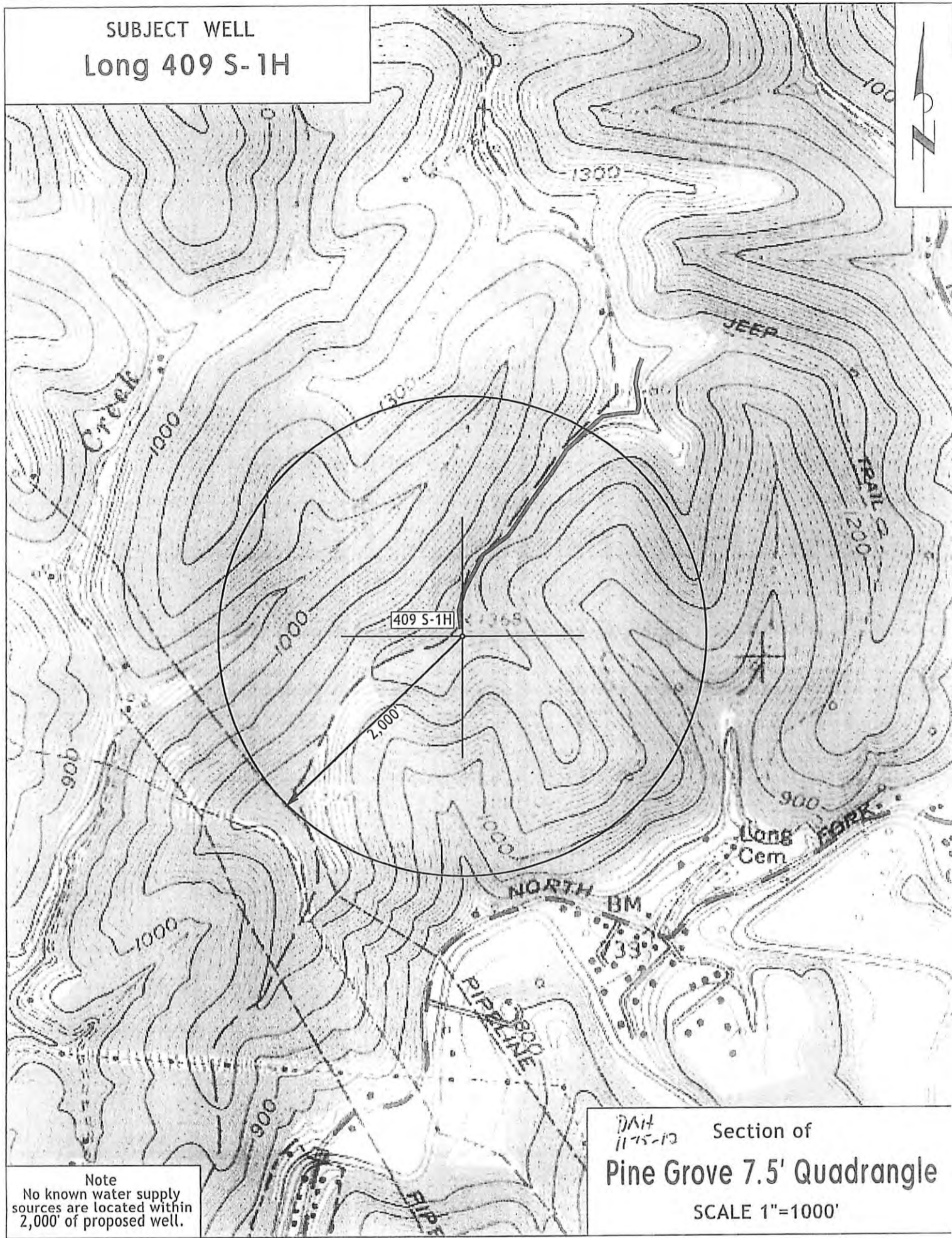
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1340' WATERSHED NORTH FOR, FISHING CREEK API WELL # 47-103-02854
 DISTRICT GRANT COUNTY WETZEL STATE COUNTY PERMIT
 QUADRANGLE PINE GROVE 7.5'

SURFACE OWNER FRANCIS D. & FREEDA M. BROWN (surface hole) ACREAGE 103 ACRES +/-
 OIL & GAS ROYALTY OWNER ROBERT B. MYERS ET AL LEASE ACREAGE 549 ACRES +/-
 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= 7,315' MD= 14,942'
 ADDRESS 5260 DuPONT ROAD DESIGNATED AGENT MIKE KIRSCH
 PARKERSBURG, WV 26101 ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101

FORM WW-6 LEASE # 31950-50 et al

03/01/2013

SUBJECT WELL
Long 409 S-1H



Note
No known water supply
sources are located within
2,000' of proposed well.

DNH
11-15-12 Section of
Pine Grove 7.5' Quadrangle
SCALE 1"=1000'