

(BOTTOM HOLE: 80°39'14.6")

LON: -80°40'32.3"

2525'

LAT: 39°37'30"

1 - Well Hole and Latitude and Longitude were measured by GPS (Real-time Kinematic mode). Bearings are referenced to UTM 814 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.

SURVEY NOTES

UTM Coordinates (Zone 17N-NAD 1983)

Surface N=4,381,830m. E=527,871m.

Bottom Hole N=4,380,859m. E=529,727m.

LOCATION REFERENCES

NAD 1983

N 80°30' W 260' UTILITY POLE

N 44°29' E 222' SPDK

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



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 10/30/12
 OPERATOR'S WELL # 409 S-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 1340' WATERSHED NORTH FOR, FISHING CREEK 47 - 103 - 02881H6A
 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 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)
 PLUG & ABANDON CLEAN OUT & REPLUG

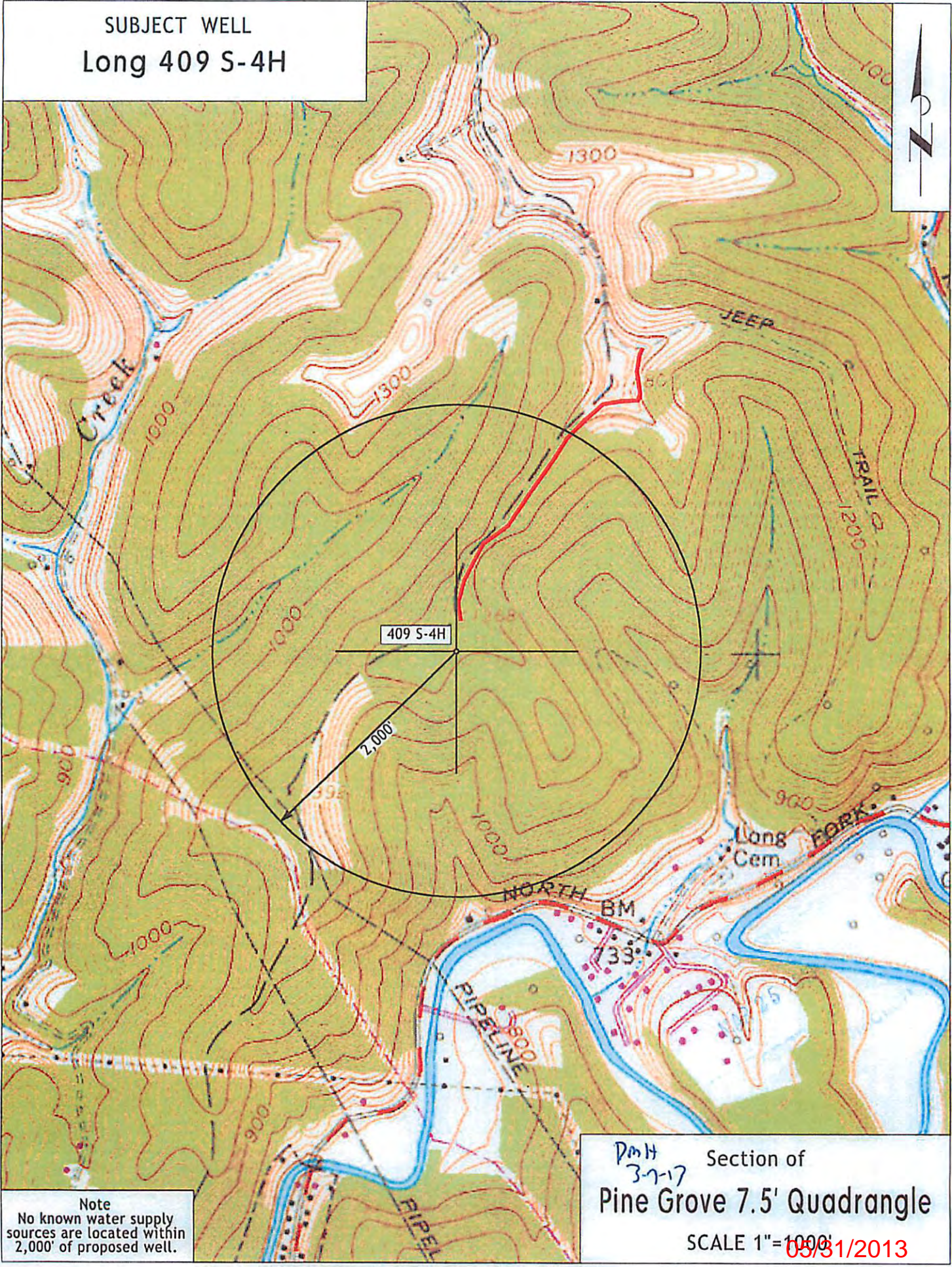
TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD= 7,300' MD= 13,584'
 WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH
 ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
 PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

FORM WW-6

LEASE # 31950-50 et al

05/31/2013

SUBJECT WELL
Long 409 S-4H



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

PMH Section of
3-7-17 Pine Grove 7.5' Quadrangle

SCALE 1"=1000'
08/31/2013