

(BOTTOM HOLE: 80°38'55.9")

LON: -80°40'31.8" 2487'

LAT: 39°37'30"

1 - Well Hole and Latitude and Longitude were measured by GPS (Sub-meter Accuracy). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1983).

2 - Surface elevations and other information obtained from the Wetland 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 (Date 17N-MAD 1983)	
Surface	N-4,391,637m. E-527,883m.
Bottom Hole	N-4,381,273m. E-530,172m.

LOCATION REFERENCES	
NAD 1983	
N 73°18' W 227' UTILITY POLE	
N 48°57' E 265' SPIKE	

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

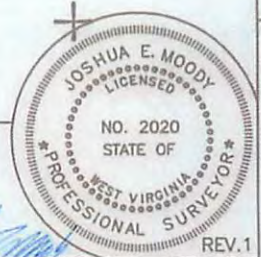


JOB # 12-025
DRAWING # 12HG409FOLDER
SCALE 1" = 1500'
MINIMUM DEGREE OF ACCURACY SUB-METER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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-1HA

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

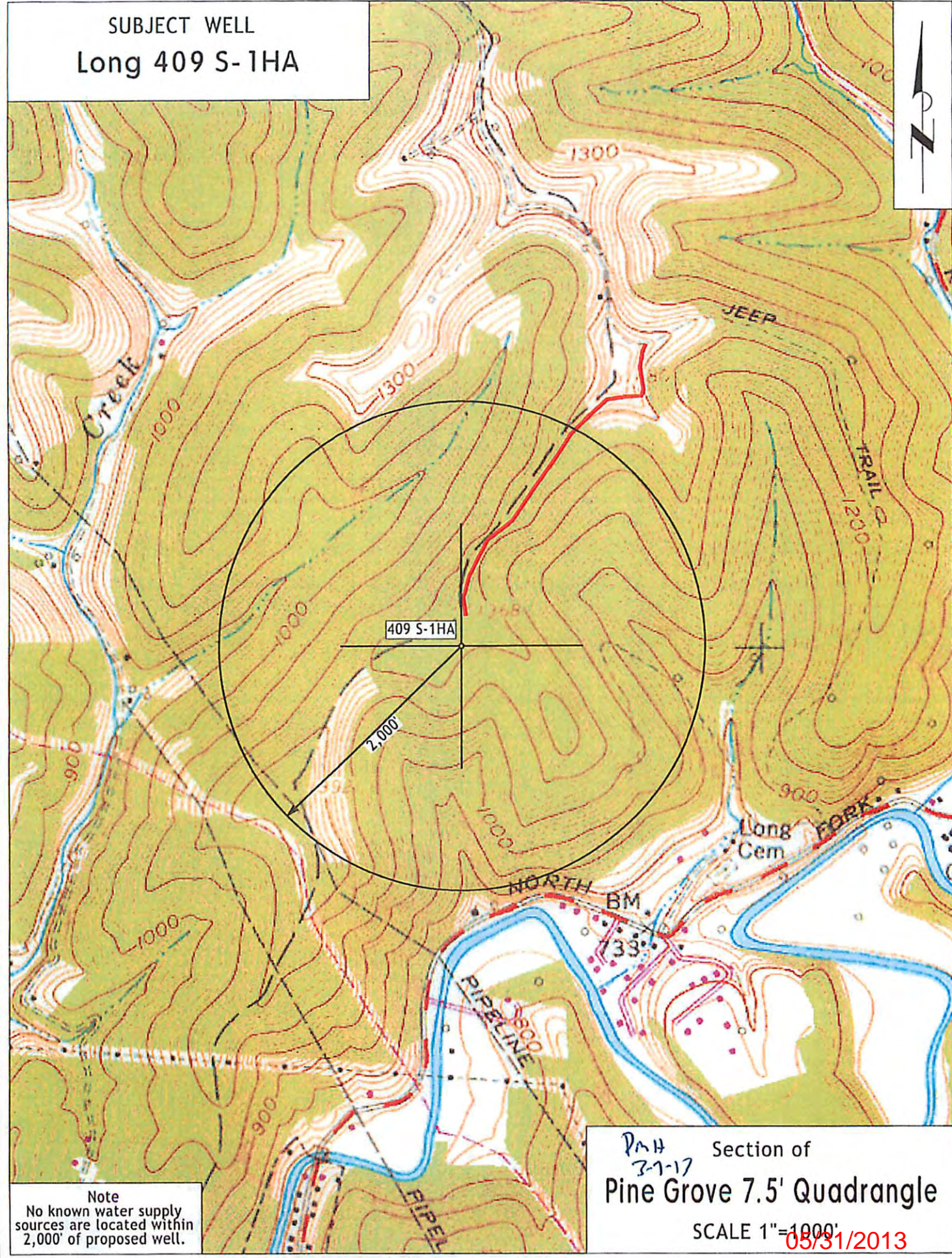
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1340' WATERSHED NORTH FOR, FISHING CREEK 47 - 103 - 02878 H6A
DISTRICT GRANT COUNTY WETZEL STATE COUNTY PERMIT

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
WELL OPERATOR H.G. ENERGY, LLC ESTIMATED DEPTH TVD= 7,300' MD= 14,933'
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

05/31/2013

SUBJECT WELL
Long 409 S-1HA



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'
05/31/2013