

(BOTTOM HOLE: 80°40'11.8")

LON: -80°40'35.9"

2814'

LAT: 39°37'30"

LON: 80°40'00"

15,144'

LAT: 39°35'00.4" (BOTTOM HOLE: 39°34'12.8")

- 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.

SURVEY NOTES

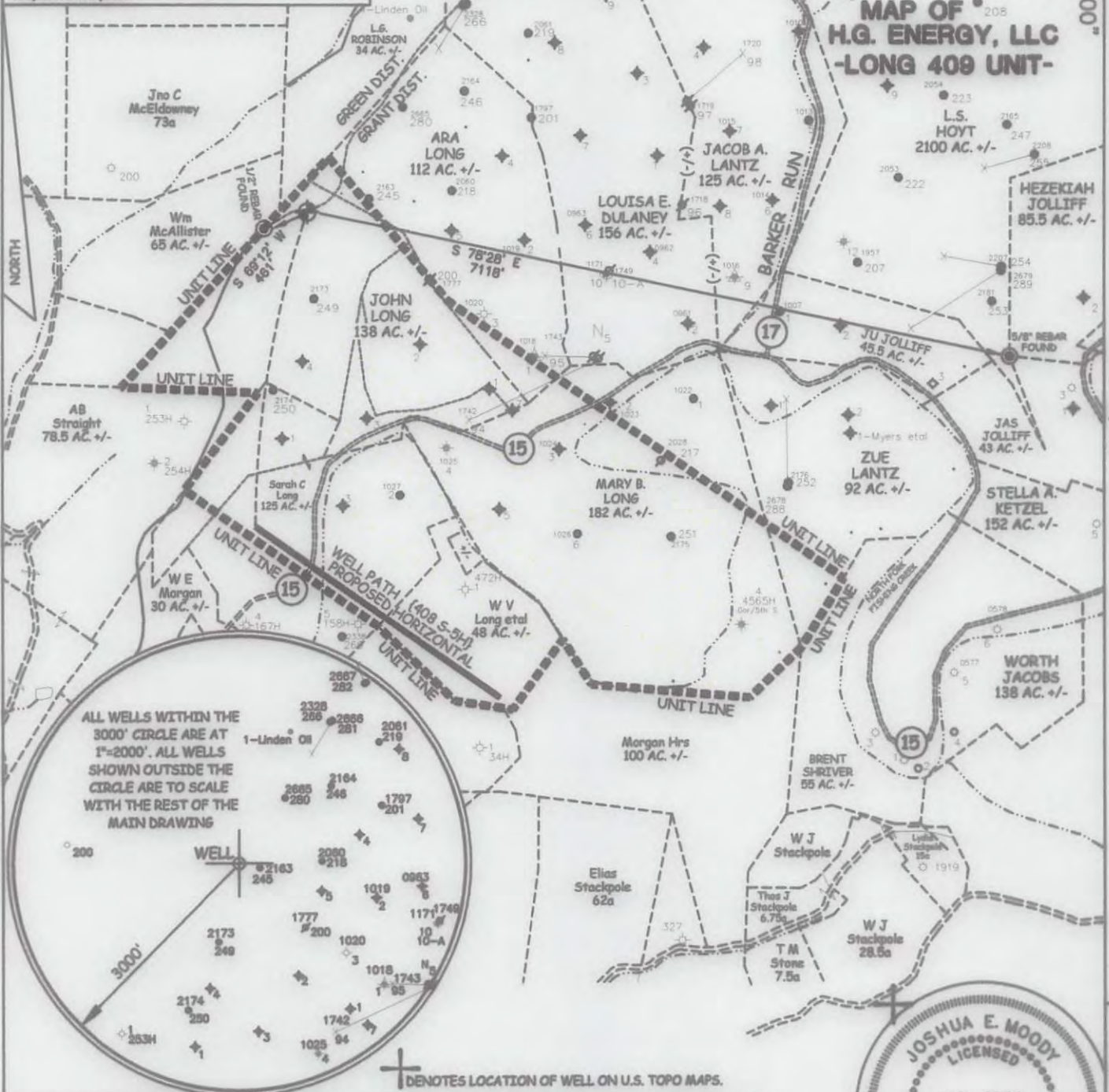
UTM Coordinates (Zone 17N-NAD 1983)

Surface N-4,381,584m.  
E-527,784m.  
Bottom Hole N-4,380,119m.  
E-528,365m.

LOCATION REFERENCES

NAD 1983  
N 41°09' E 184' SPIKE  
S 78°41' E 117' 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



JOSHUA E. MOODY, P.S. 2020  
DATE 1/31/13  
OPERATOR'S WELL #408 S-5H

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  
DISTRICT GRANT COUNTY WETZEL STATE 47 COUNTY 103 PERMIT H6A 2891  
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 419 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  
ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101  
ESTIMATED DEPTH TVD= 7,349' MD= 11,550'  
DESIGNATED AGENT MIKE KIRSCH  
ADDRESS 5260 DuPONT ROAD PARKERSBURG, WV 26101

FORM WW-6 LEASE # 31950-50 et al

07/05/2013

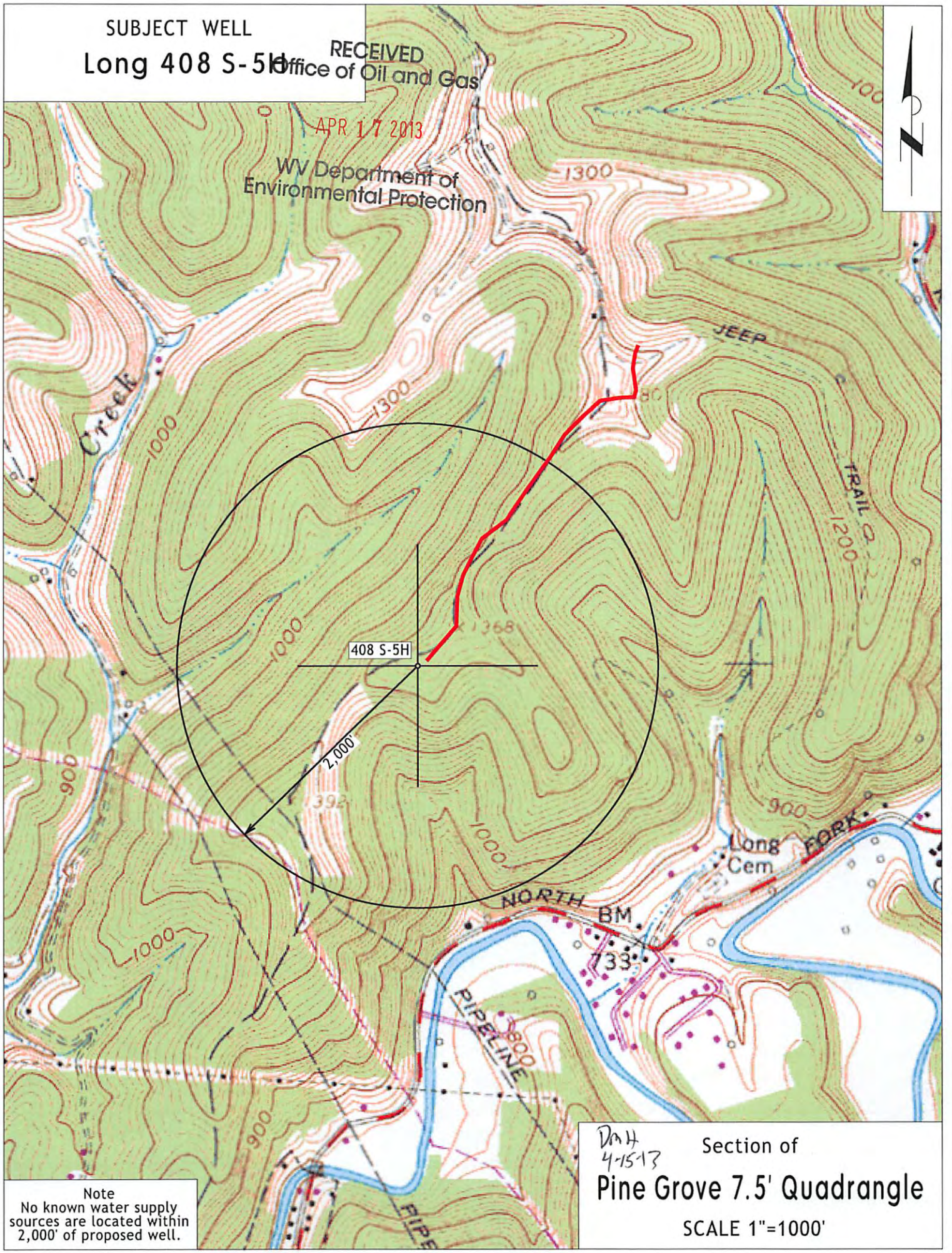


SUBJECT WELL  
Long 408 S-5H

RECEIVED  
Office of Oil and Gas

APR 17 2013

WV Department of  
Environmental Protection



408 S-5H

2,000

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

Section of  
Pine Grove 7.5' Quadrangle

SCALE 1"=1000'

DmH  
4-15-13