

(BOT. HL: LON:-80°30'49.9") LON:-80°30'38.7"

3040

LAT: 39°17'30"

MAP OF H.G. ENERGY, LLC -WATERFLOOD UNIT- S.E. ADAMS 148

LON: 80°30'00"

7345

LAT: 39°16'17.4"

(BOTTOM HOLE: LAT: 39°16'13.4")

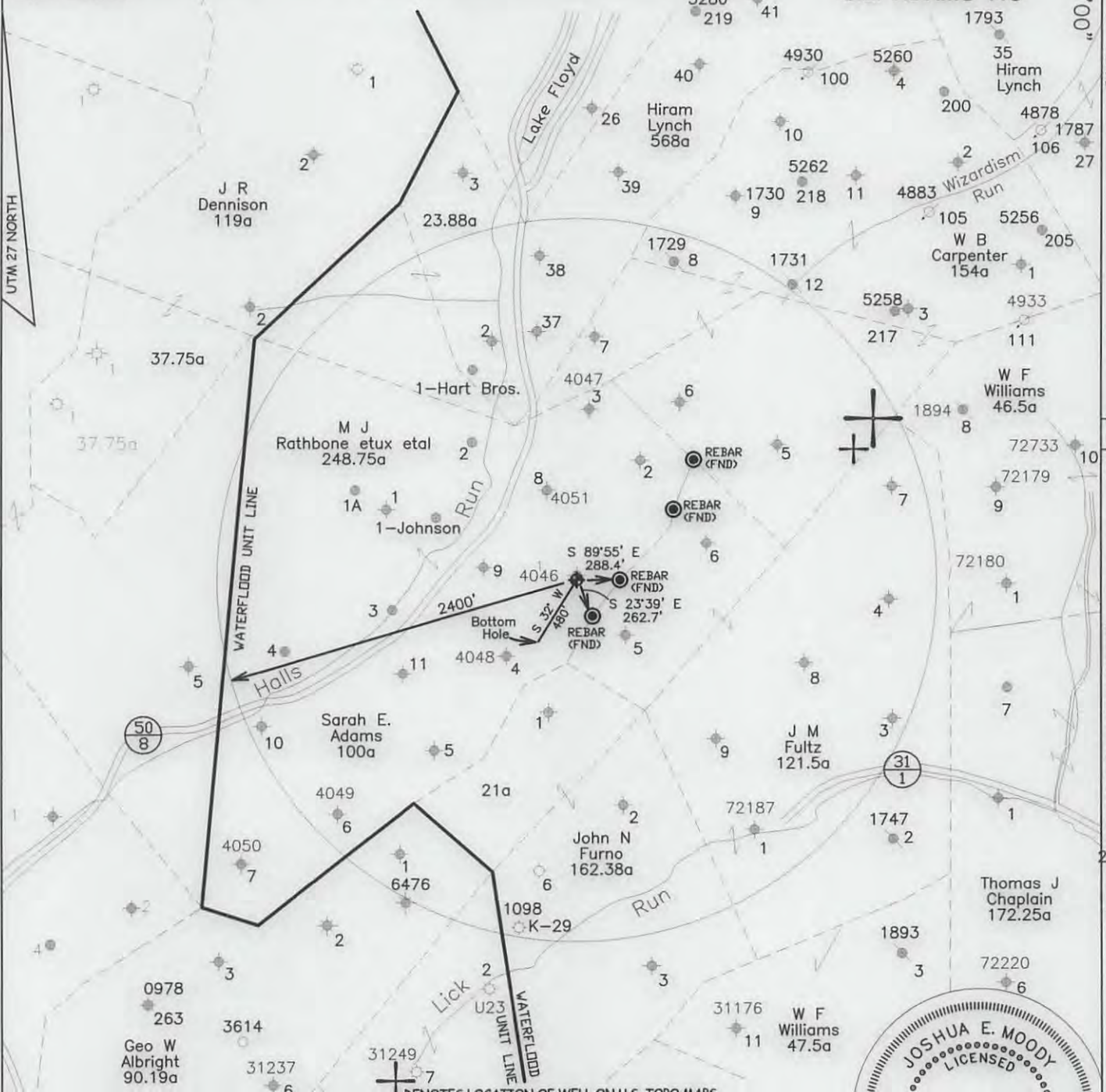
SURVEY NOTES

1 - Well ties and Latitude and Longitude were measured by Topcon Hiper GA survey grade GPS. Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).

2 - Surface owners, adjoiners information, Lease names, & line mapping obtained from HGE GIS system.

3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title Opinion.

UTM Coordinates (Zone 17N-NAD 1983)		LOCATION REFERENCES	
Surface	N-4,347,030m. E-542,219m.	UTM 27 N 01°36' E 28.8' EX: WELL S 22°40' W 125.9' 12" HICKORY	
Bottom Hole	N-4,346,906m. E-542,142m.	Brg. Direction is prop. well to the ref.	



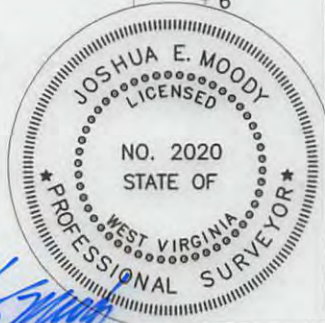
⊕ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.

JOB # 13-014
DRAWING # 13LAKEFLOYD FOLDER
SCALE 1" = 1500'
MINIMUM DEGREE OF ACCURACY 1/2500
PROVEN SOURCE OF ELEV. BENCH MARK H-80

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



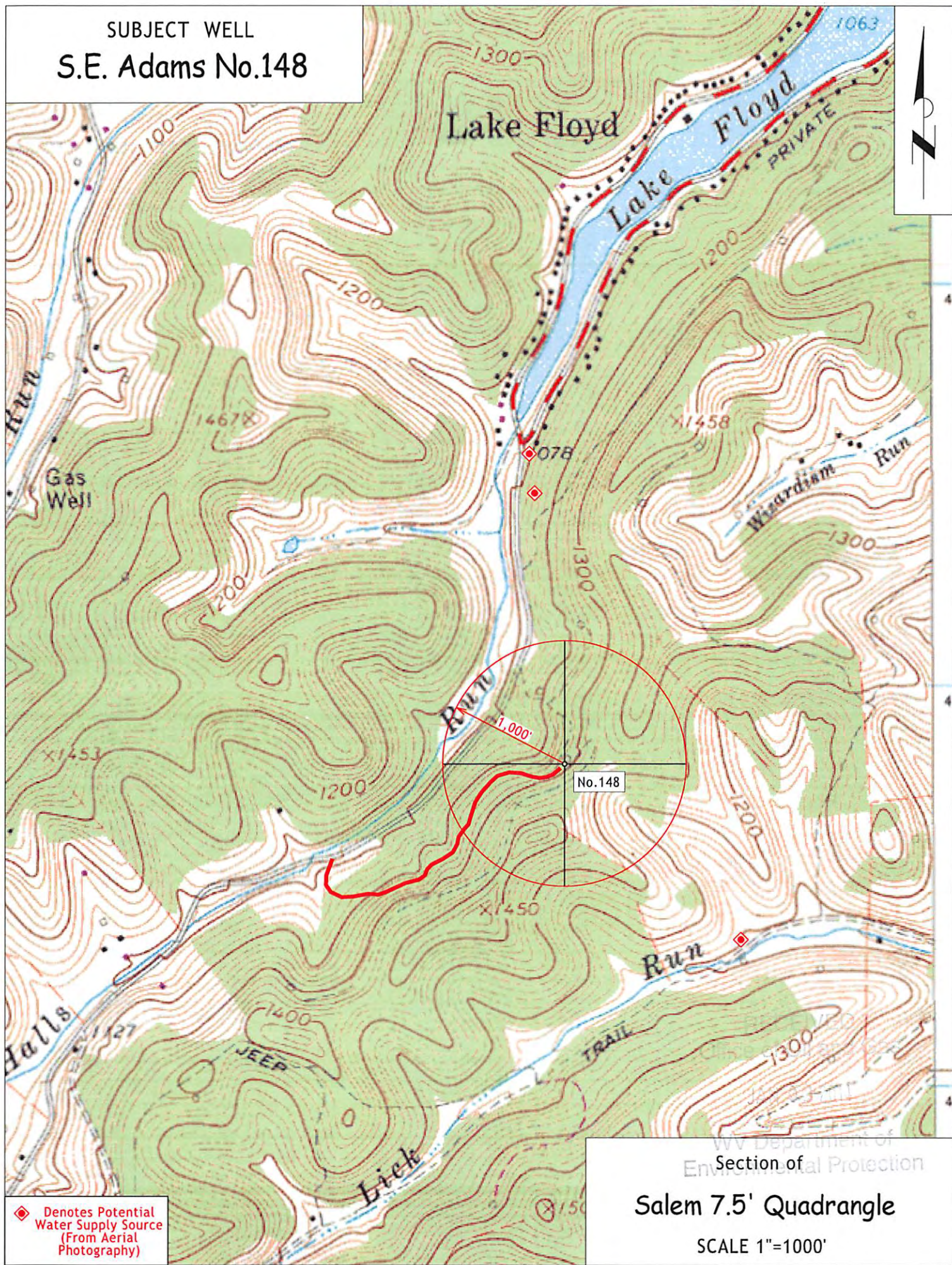
JOSHUA E. MOODY, P.S. 2020
DATE 9/17/13
OPERATOR'S WELL S.E. ADAMS # 148

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 1267' WATERSHED TEN MILE CREEK API WELL # 058039
 DISTRICT TEN MILE COUNTY HARRISON 47 - 033 STATE COUNTY PERMIT
 QUADRANGLE SALEM 7.5'
 SURFACE OWNER HILARY HEIGHTS LTD ACREAGE 241.54 ACRES +/-
 OIL & GAS ROYALTY OWNER HILARY HEIGHTS LTD., et al LEASE ACREAGE 100 ACRES +/-
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY) WILL BE DRILLED DIRECTIONALLY (S 32° W 480')
 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION 5TH SAND ESTIMATED DEPTH MD= 3,230'
 WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH
 ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
 PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

COUNTY NAME PERMIT

SUBJECT WELL
S.E. Adams No.148



◆ Denotes Potential Water Supply Source (From Aerial Photography)

WV Department of Environmental Protection
Salem 7.5' Quadrangle
SCALE 1"=1000'