

(BOT. HL: LON:-81°16'55.5")

LON: -81°16'49.6"

8685'

LAT: 38°45'00"

**MAP OF
H.G. ENERGY, LLC
-WATERFLOOD UNIT-
SB KINKEAD 109**

LON: 81°15'00"

11945'

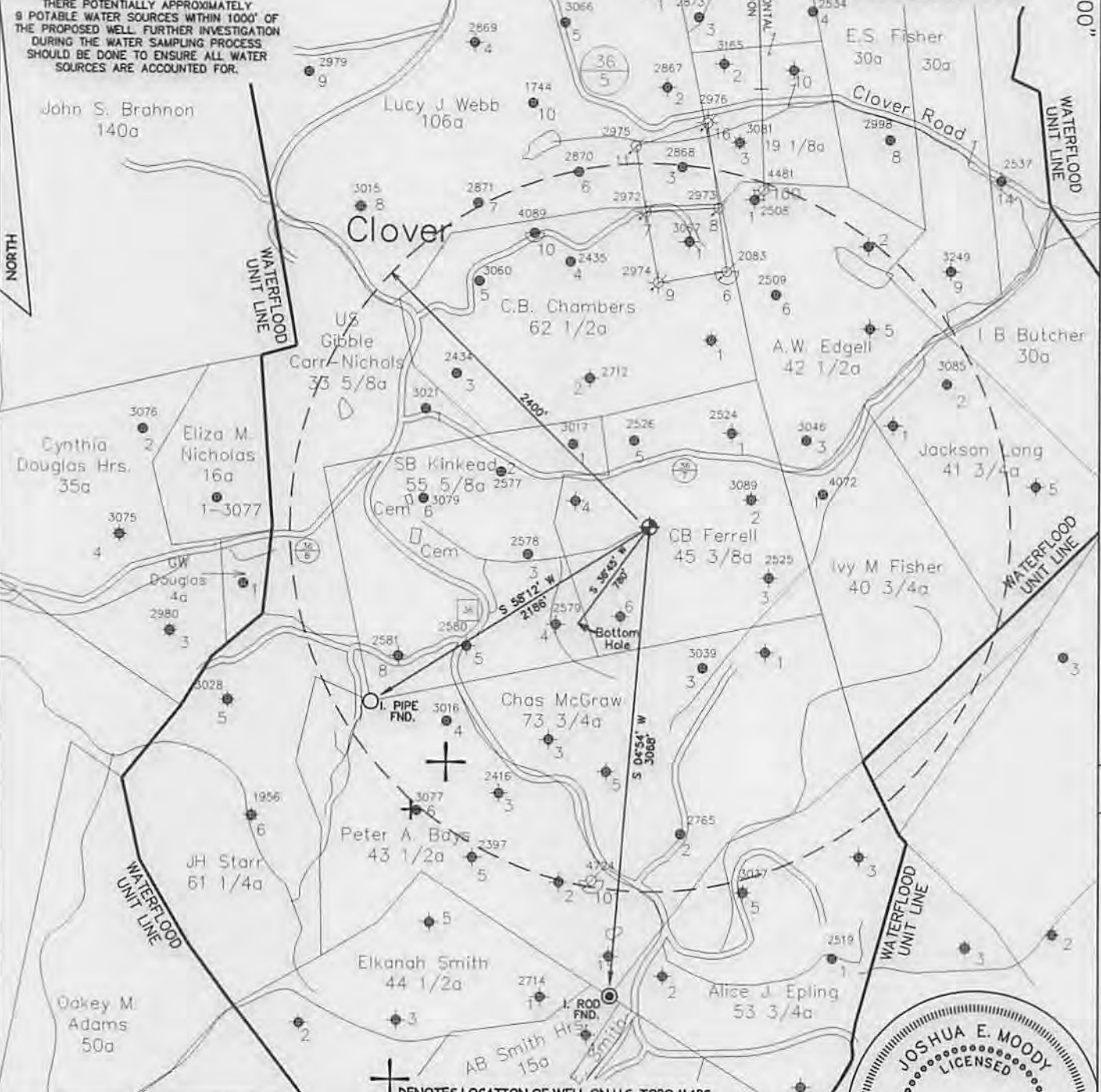
LAT: 38°43'01.9"

(BOTTOM HOLE: LAT:38°42'55.7")

SURVEY NOTES
1 - Well ties and Latitude and Longitude were measured by Topcon HiPer 6A survey grade GPS. Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1983).
2 - Surface owners, adjoining information, Lease names existing wells, & line mapping obtained from HGE GIS system. No survey was performed to determine lines within the Waterflood Unit-reference: 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)	
Surface	N-4,285,442m. E-475,633m.
Bottom Hole	N-4,285,251m. E-475,491m.

LOCATION REFERENCES	
MAGNETIC BEARING	5 51° W 97.0' 24° MAPLE 5 83° W 114.6' 12° SASSAFRAS



JOB # 14-033
DRAWING # 14CLOVER FOLDER
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEV. 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

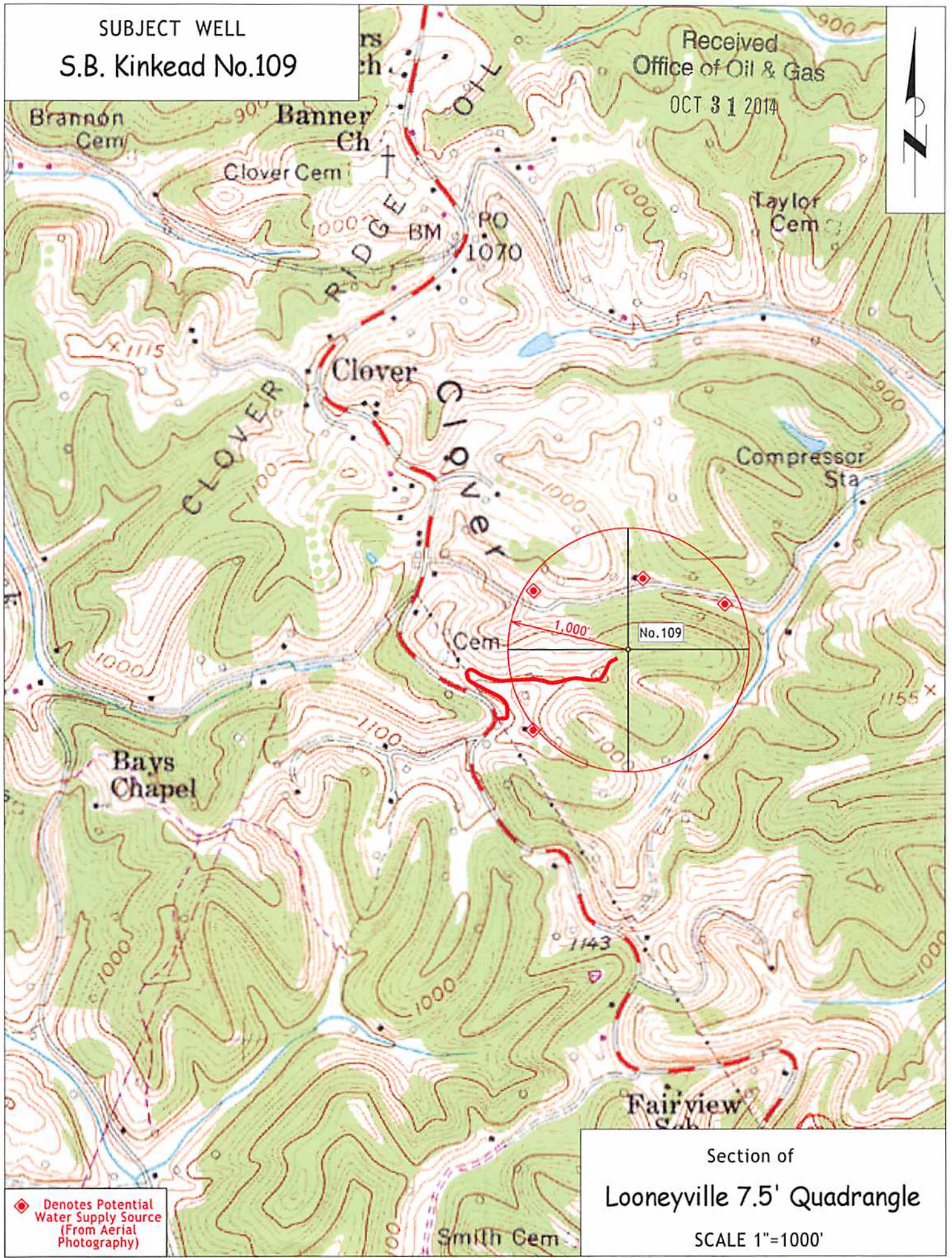
JOSHUA E. MOODY, P.S. 2020
DATE 10/17/14
OPERATOR'S WELL SB KINKEAD # 109

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1110' WATERSHED RUSH CREEK OF HENRYS FORK API WELL #
DISTRICT SMITHFIELD COUNTY ROANE 47 - 033 - 04753 8
QUADRANGLE LOONEYVILLE 7.5' STATE COUNTY PERMIT

SURFACE OWNER TIMOTHY D. MAY ACREAGE 25.51 ACRES +/-
OIL & GAS ROYALTY OWNER APPALACHIAN ROYALTIES ET AL LEASE ACREAGE 56 ACRES +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
OTHER PHYSICAL CHANGE IN WELL (SPECIFY) WELL WILL BE DRILLED DIRECTIONALLY (S 36°45' W 780')
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION BIG INJUN ESTIMATED DEPTH TVD=2,225' MD=2,760'
WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH
ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

SUBJECT WELL
S.B. Kinkead No.109

Received
Office of Oil & Gas
OCT 31 2014



◆ Denotes Potential
Water Supply Source
(From Aerial
Photography)

Section of
Looneyville 7.5' Quadrangle
SCALE 1"=1000'