

(BOT. HL: LON:-81°16'42.7")

LON: -81°16'49.4"

8670'

LAT: 38°45'00"

# MAP OF H.G. ENERGY, LLC -WATERFLOOD UNIT- CB FERRELL 110

LON: 81°15'00"

11945'

LAT: 38°43'01.9"

(BOTTOM HOLE: LAT:38°42'55.5")

**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).

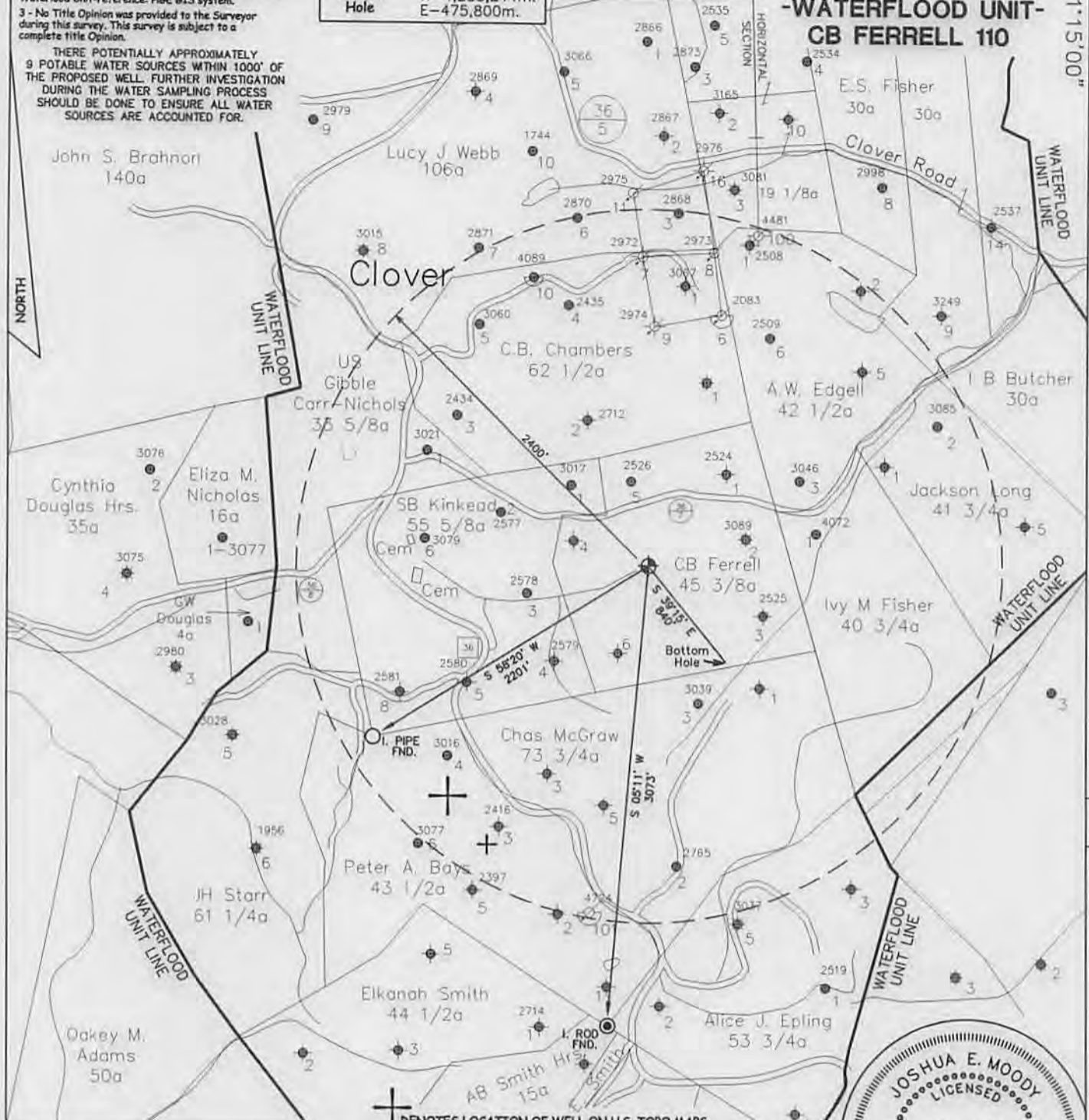
2 - Surface owners, adjoiners information, Lease names existing wells, & line mapping obtained from HGE GIS system. No survey was performed to determine lines within the Waterflood Unit-reference: HGE GIS system.

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

THERE POTENTIALLY APPROXIMATELY 9 POTABLE WATER SOURCES WITHIN 1000' OF THE PROPOSED WELL. FURTHER INVESTIGATION DURING THE WATER SAMPLING PROCESS SHOULD BE DONE TO ENSURE ALL WATER SOURCES ARE ACCOUNTED FOR.

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,285,443m. E-475,638m.
Bottom Hole	N-4,285,244m. E-475,800m.

LOCATION REFERENCES	
MAGNETIC BEARING	
S 55° W 110.0'	24" MAPLE
S 84° W 129.7'	12" SASSAFRAS



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

JOB # 14-033  
DRAWING # 14CLOVER FOLDER  
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEV. MAPPING GRADE GPS

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

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 10/17/14  
OPERATOR'S WELL CB FERRELL # 110

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 - 087 - 047548  
QUADRANGLE LOONEYVILLE 7.5' STATE COUNTY PERMIT

SURFACE OWNER TIMOTHY D. MAY ACREAGE 25.51 ACRES +/-  
OIL & GAS ROYALTY OWNER BEVERLY EBERFELD ET AL LEASE ACREAGE 45 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 39°55' E 840')  
PLUG & ABANDON  CLEAN OUT & REPLUG   
TARGET FORMATION BIG INJUN ESTIMATED DEPTH TVD=2,225' MD=2,795'  
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  
C.B. Ferrell No.110



Section of  
Looneyville 7.5' Quadrangle

SCALE 1"=1000'