

(BOT. HL: LON:-81°16'55.0")

LON: -81°16'52.0"

8880'

LON: 81°15'00"

12950'

LAT: 38°42'52.0"

(BOTTOM HOLE: LAT:38°42'46.3")

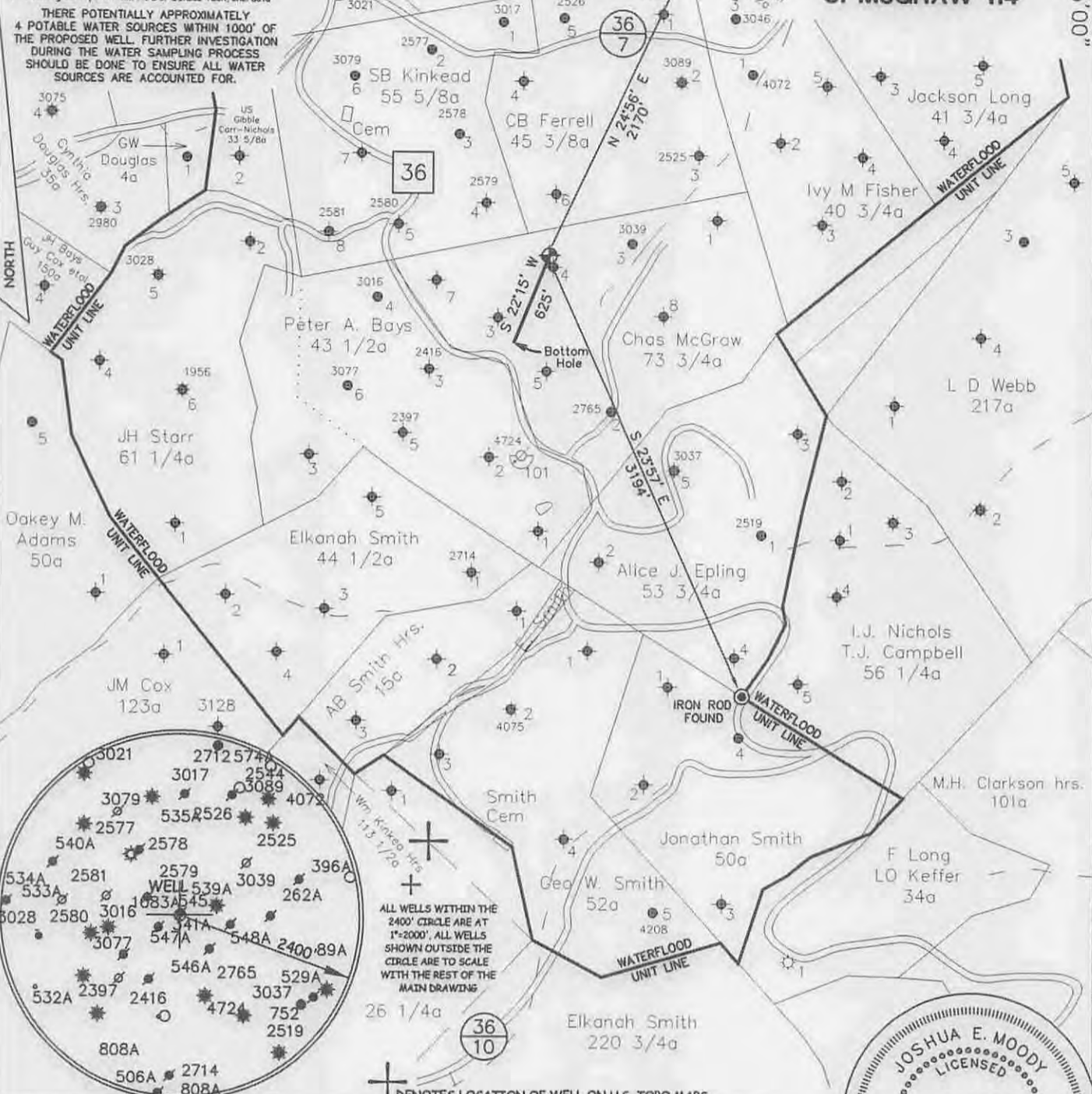
- SURVEY NOTES**
- 1 - Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to UTM Grid North (Zone 17 North - NAD 1927).
  - 2 - Surface owners and adjacent information obtained from the Roane County Assessor's tax records.
  - 3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title opinion.
  - 4 - Existing well spots from HGE or Seneca Tech, Inc. data

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,285,136m. E-475,573m.
Bottom Hole	N-4,284,960m. E-475,501m.

LOCATION REFERENCES	
MAGNETIC BEARING	
S 76° W 124.7' 15" RED OAK	
S 06° E 81.2' PLUG WELL CM #4	

LAT: 38°45'00"

## MAP OF H.G. ENERGY, LLC -WATERFLOOD UNIT- C. McGRAW 114



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



JOSHUA E. MOODY, P.S. 2020  
 DATE 12/15/14  
 OPERATOR'S WELL  
 C. McGRAW # 114

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  HORIZONTAL   
 (IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
 LOCATION: ELEVATION 1111' WATERSHED RUSH CREEK OF HENRYS FORK API WELL # 47-087-047595  
 DISTRICT SMITHFIELD COUNTY ROANE STATE 47 COUNTY 087 PERMIT 047595  
 QUADRANGLE LOONEYVILLE 7.5'

SURFACE OWNER DOLORES ATKINSON (TRUSTEE), RICHARD & RONALD FISCHER ACREAGE 40.00 ACRES +/-  
 OIL & GAS ROYALTY OWNER GEORGE W. CARR ET AL LEASE ACREAGE 75.00 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 22°15' W 625')  
 PLUG & ABANDON  CLEAN OUT & REPLUG   
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH TVD=2,235' MD=2,700'  
 WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT DIANE WHITE  
 ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD  
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

SUBJECT WELL  
Charles McGraw No.114



◆ Denotes Potential Water Supply Source and Surface Owner (From Aerial Photography)

Received  
Office of Oil & Gas  
JAN 22 2015

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