

(BOT. HL: LON:-81°16'49.4")

LON: -81°16'55.2"

9135'

LON: 81°15'00"

14280'

LAT: 38°42'38.8"

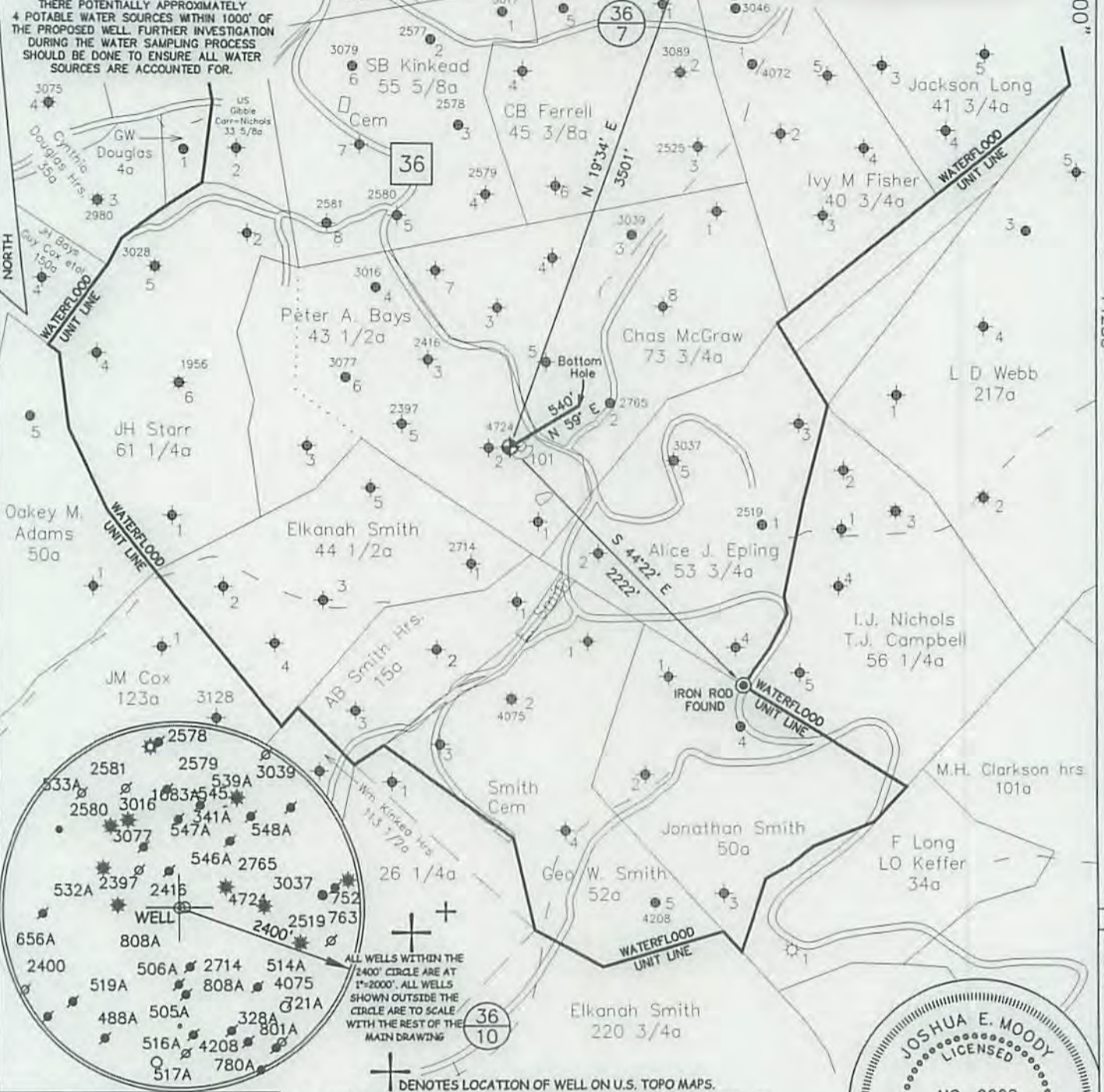
(BOTTOM HOLE: LAT:38°42'41.6")

- 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 adjoining 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-4,284,731m. E-475,495m.
Bottom Hole	N-4,284,816m. E-475,636m.

LOCATION REFERENCES	
MAGNETIC BEARING	
N 25° E 82.7'	S.W. BARN CORNER
S 89° E 72.0'	BAYS WELL #101

LAT: 38°45'00"  
**MAP OF  
 H.G. ENERGY, LLC  
 -WATERFLOOD UNIT-  
 C. McGRAW 210**



ALL WELLS WITHIN THE 2400' CIRCLE ARE AT 1"=2000'. ALL WELLS SHOWN OUTSIDE THE CIRCLE ARE TO SCALE WITH THE REST OF THE MAIN DRAWING

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

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 # 210

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 1162' WATERSHED LAUREL FORK  
 DISTRICT SMITHFIELD COUNTY ROANE  
 QUADRANGLE LOONEYVILLE 7.5'

SURFACE OWNER ORLANDO B. NIDAY ACREAGE 16.56 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 (N 59°00' E 540')  
 PLUG & ABANDON  CLEAN OUT & REPLUG   
 TARGET FORMATION BIG INJUN  
 WELL OPERATOR H.G. ENERGY, LLC ESTIMATED DEPTH TVD=2,280' MD=2,700'  
 ADDRESS 5260 DuPONT ROAD DESIGNATED AGENT DIANE WHITE  
 PARKERSBURG, WV 26101 ADDRESS 5260 DuPONT ROAD  
 PARKERSBURG, WV 26101

FORM WW-6 LEASE # 61420-50

04/03/2015

SUBJECT WELL  
Charles McGraw No.210



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

WV Department of Environmental Protection  
Looneyville 7.5' Quadrangle

SCALE 1"=1000'