

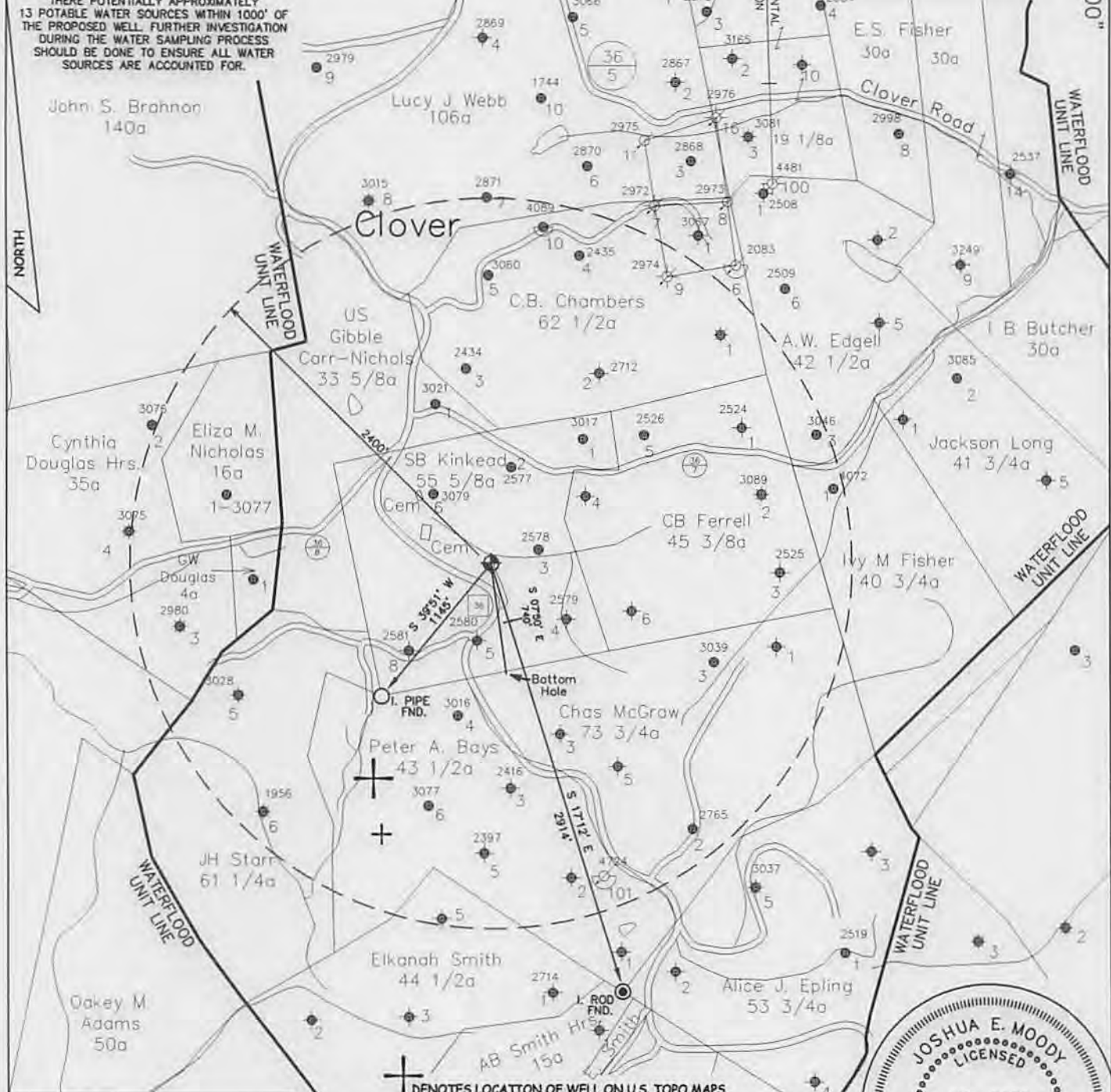
(BOT. HL: LON:-81°17'02.5") | LON: -81°17'03.8" 9810'

**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 1927).  
 2 - Surface owners, adjoining information, Lease names existing wells, & line mapping obtained from HSE GIS system. No survey was performed to determine lines within the Waterflood Unit-reference: HSE 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 13 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-4,285,358m. E-475,291m.
Bottom Hole	N-4,285,135m. E-475,321m.

LOCATION REFERENCES	
MAGNETIC BEARING	
N 61° E 66.0'	GAS LINE MARKER
N 38° W 148.2'	WOOD FENCE POST

LAT: 38°45'00"  
**MAP OF  
 H.G. ENERGY, LLC  
 -WATERFLOOD UNIT-  
 C MCGRAW 205**



LON: 81°15'00"  
 12225'  
 LAT: 38°42'59.2"  
 (BOTTOM HOLE: LAT:38°42'51.9")

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 10/17/14  
 OPERATOR'S WELL  
 C MCGRAW # 205

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 1110' WATERSHED RUSH CREEK OF HENRYS FORK  
 DISTRICT SMITHFIELD COUNTY ROANE  
 QUADRANGLE LOONEYVILLE 7.5' API WELL # 47 - 087 - 04748  
 STATE COUNTY PERMIT  
 SURFACE OWNER REVA SNODGRASS ET AL ACREAGE 22 ACRES +/-  
 OIL & GAS ROYALTY OWNER GEORGE W. CARR ET AL LEASE ACREAGE 75 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 07°50' E 740')  
 PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 TARGET FORMATION BIG INJUN ESTIMATED DEPTH TVD=2,240' MD=2,750'  
 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  
Charles McGraw No.205



Received  
Office of Oil & Gas  
OCT 29 2014

◆ Denotes Potential  
Water Supply Source  
(From Aerial  
Photography)

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