

(BOT. HL: LON:-81°16'33.2")

LON: -81°16'29.3"

7080'

LON: 81°15'00"

12925'

LAT: 38°42'52.3"

(BOTTOM HOLE: LAT:38°42'47.1")

LAT: 38°45'00"

MAP OF H.G. ENERGY, LLC -WATERFLOOD UNIT- C. MCGRAW 116

- 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

SURVEY NOTES

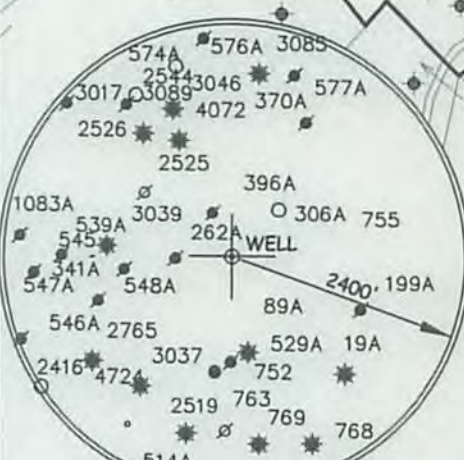
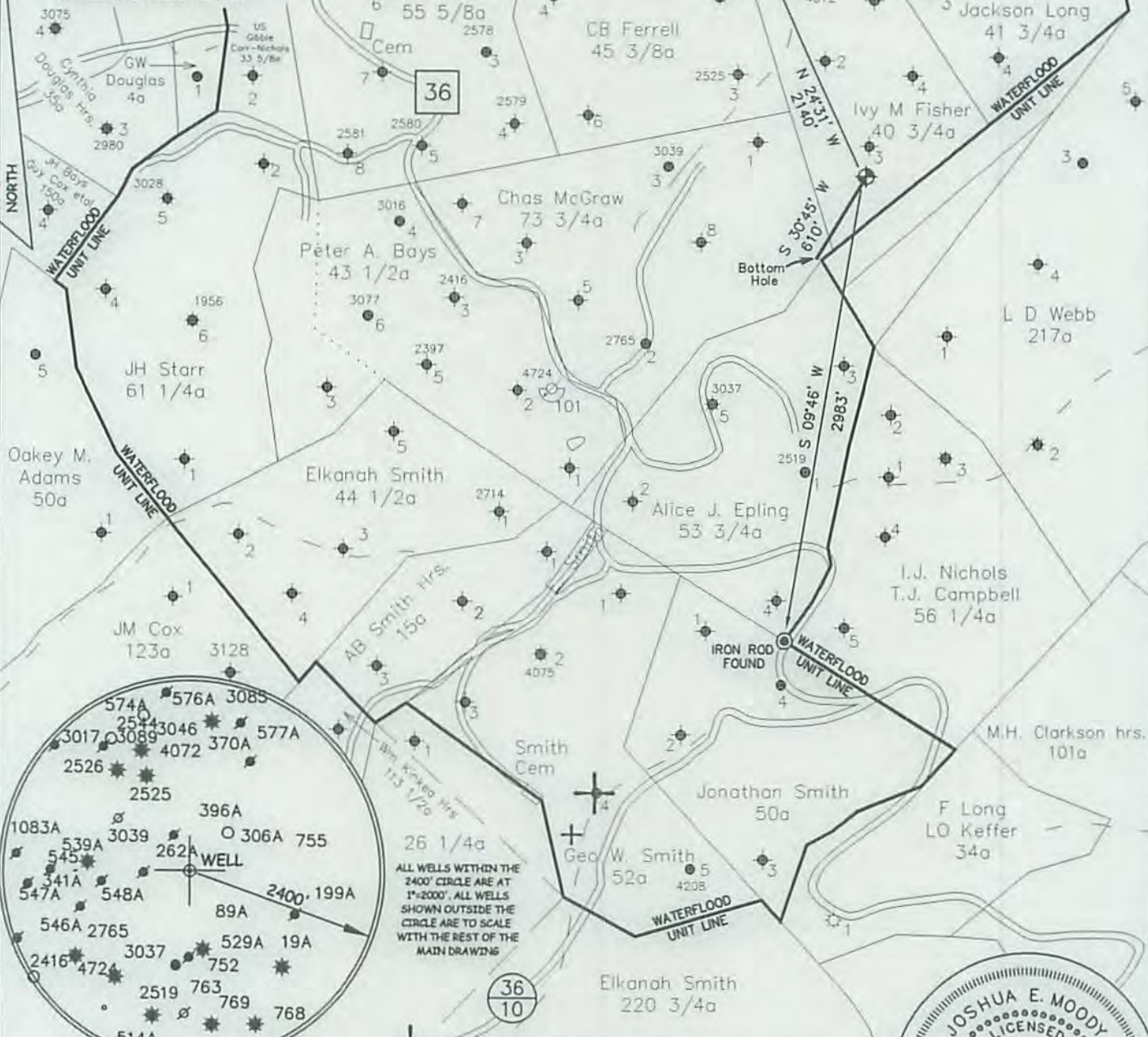
UTM Coordinates (Zone 17N-NAD 1983)

Surface N-4,285,143m.
E-476,123m.
Bottom Hole N-4,284,983m.
E-476,028m.

LOCATION REFERENCES

MAGNETIC BEARING
N 40° E 114.2' 12" HICKORY
S 36° E 73.9' 8" HICKORY

THERE POTENTIALLY APPROXIMATELY 1 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.



⊕ 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 PERSCIBED 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 12/15/14
OPERATOR'S WELL
C. MCGRAW # 116

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1057' WATERSHED RUSH CREEK OF HENRYS FORK API WELL # 47-087-047665
DISTRICT SMITHFIELD COUNTY ROANE STATE 47 COUNTY 087 PERMIT 047665
QUADRANGLE LOONEYVILLE 7.5'

SURFACE OWNER WILLIE KING ACREAGE 40.16 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 30°45' W 610')
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION BIG INJUN
WELL OPERATOR H.G. ENERGY, LLC ESTIMATED DEPTH TVD=2,210' MD=2,670'
ADDRESS 5260 DuPONT ROAD DESIGNATED AGENT DIANE WHITE
PARKERSBURG, WV 26101 ADDRESS 5260 DuPONT ROAD
PARKERSBURG, WV 26101 ADDRESS 5260 DuPONT ROAD
PARKERSBURG, WV 26101

FORM WW-6 LEASE # 61420-50

WV Department of Environmental Protection

04/03/2015

SUBJECT WELL
Charles McGraw No.116



RECEIVED
Office of Oil and Gas
FEB 06 2015
WV Department of
Environmental Protection

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

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