

(BOT. HL: LON:-81°17'23.7")

LON: -81°17'15.8"

10770'

LAT: 38°45'00"

# MAP OF H.G. ENERGY, LLC -WATERFLOOD UNIT- J.H. STARR 112

LON: 81°15'00"

13240'

LAT: 38°42'49.1"

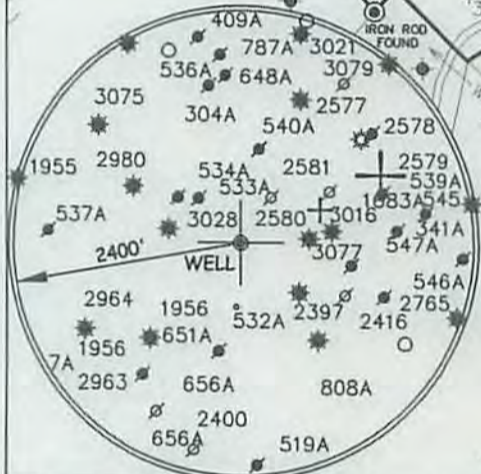
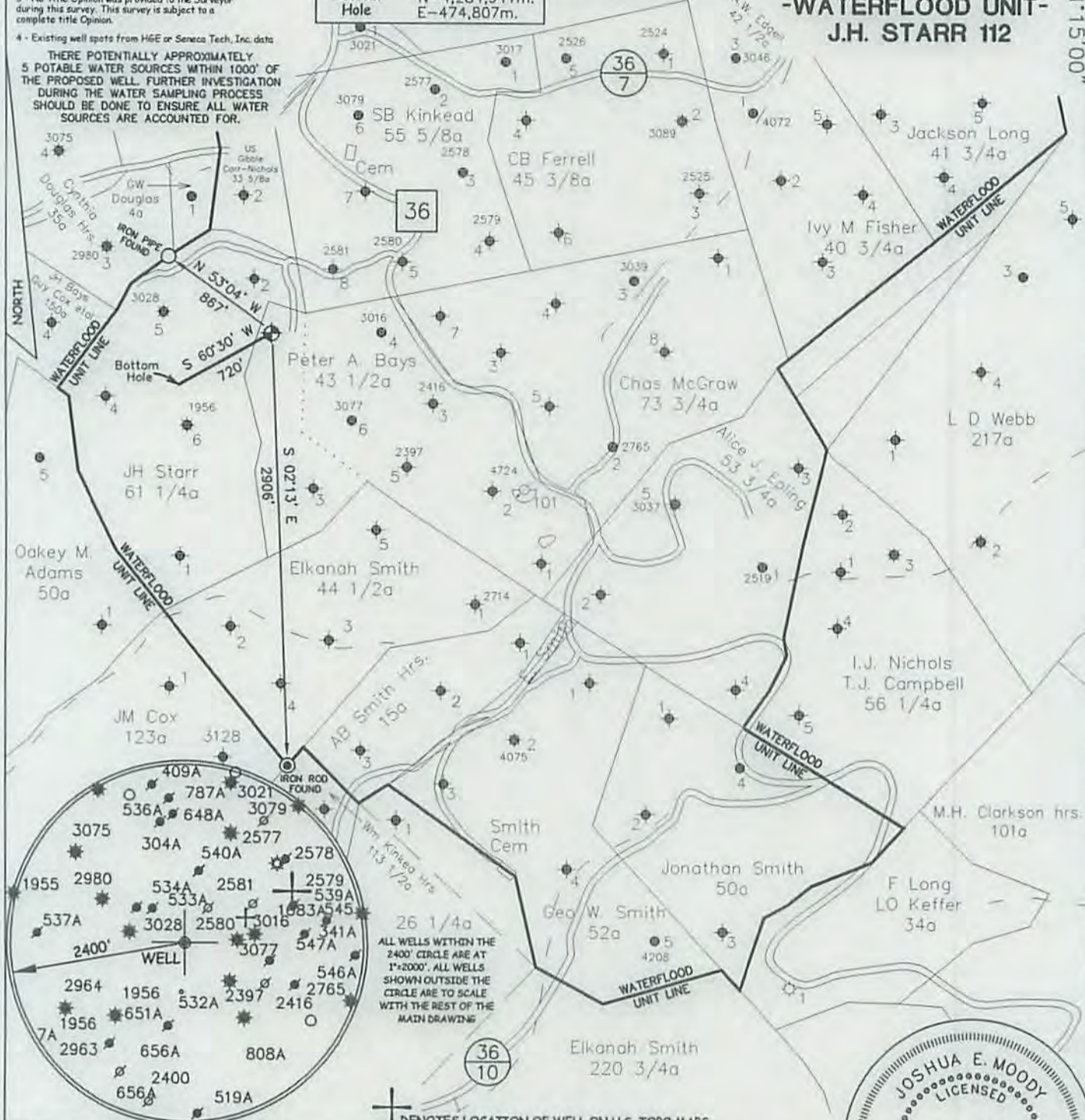
(BOTTOM HOLE: LAT:38°42'45.6")

- SURVEY NOTES**
- 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 1983).
  - Surface owners and adjacent information obtained from the Roane County Assessor's tax records.
  - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title Opinion.
  - Existing well spots from HGE or Seneca Tech, Inc. data

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,285,049m. E-474,998m.
Bottom Hole	N-4,284,941m. E-474,807m.

LOCATION REFERENCES	
MAGNETIC BEARING	
S 65° W 82.8' 15" POPLAR	
N 19° W 75.8' 10" RED OAK	

THERE POTENTIALLY APPROXIMATELY 5 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.



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  
J.H. STARR # 112

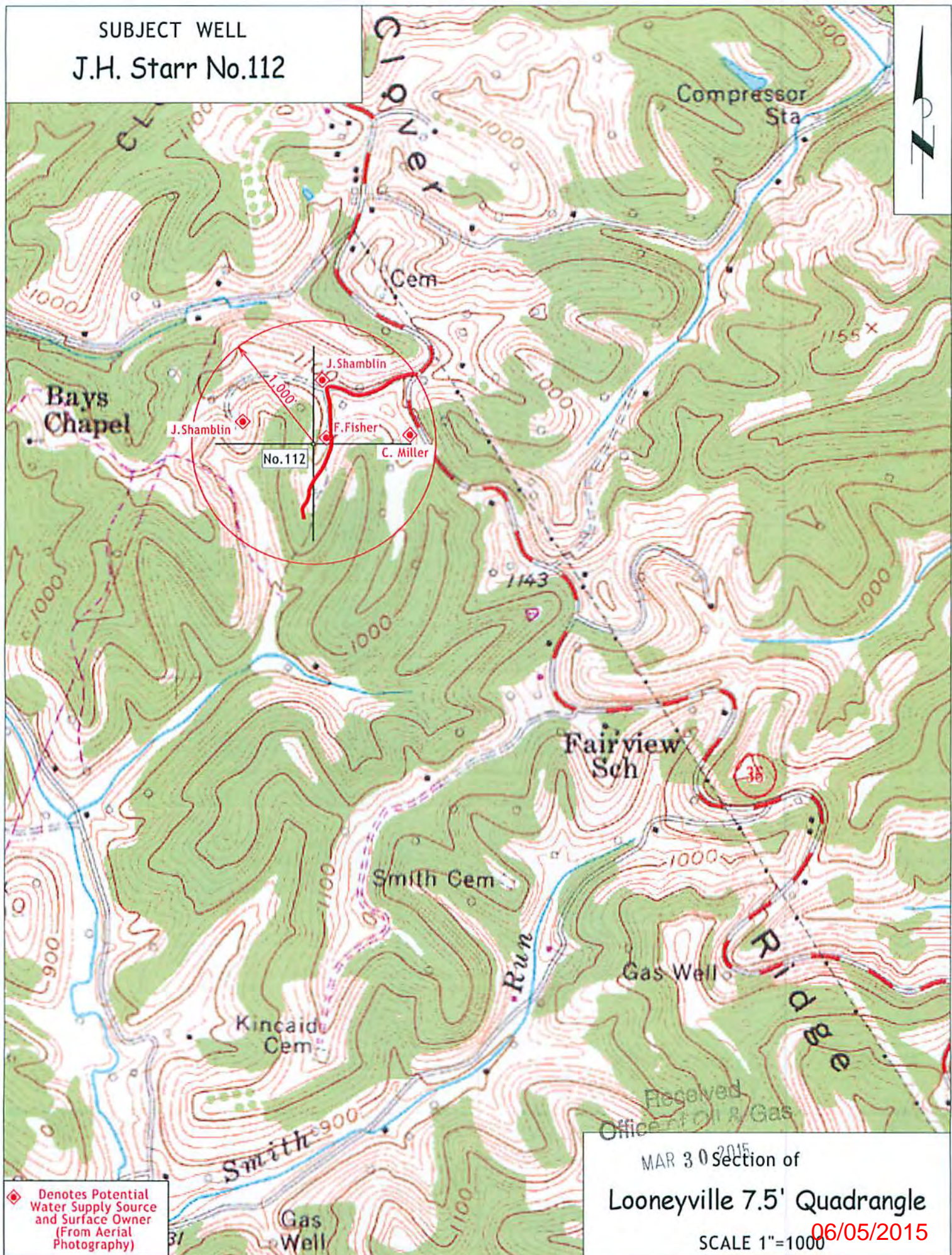
WEST VIRGINIA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  HORIZONTAL   
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1097' WATERSHED LAUREL FORK API WELL # 47-087-047815  
DISTRICT SMITHFIELD COUNTY ROANE STATE 47 COUNTY 087 PERMIT 047815  
QUADRANGLE LOONEYVILLE 7.5'

SURFACE OWNER FREDDIE FISHER ET AL ACREAGE 33.00 ACRES +/-  
OIL & GAS ROYALTY OWNER WILLIAM S. HAYMOND II ET AL LEASE ACREAGE 104.00 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 60°30' W 720')  
PLUG & ABANDON  CLEAN OUT & REPLUG   
TARGET FORMATION BIG INJUN ESTIMATED DEPTH TVD=2,225' MD=2,730'  
WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT DIANE WHITE  
ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD  
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

06/05/2015

SUBJECT WELL  
J.H. Starr No.112



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

Received  
Office of Oil & Gas  
MAR 30 2015  
Section of  
**Looneyville 7.5' Quadrangle**  
SCALE 1"=1000  
06/05/2015