

(BOT. HL: LON:-80°27'49.0") LON:-80°27'50.5"

1610'

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).

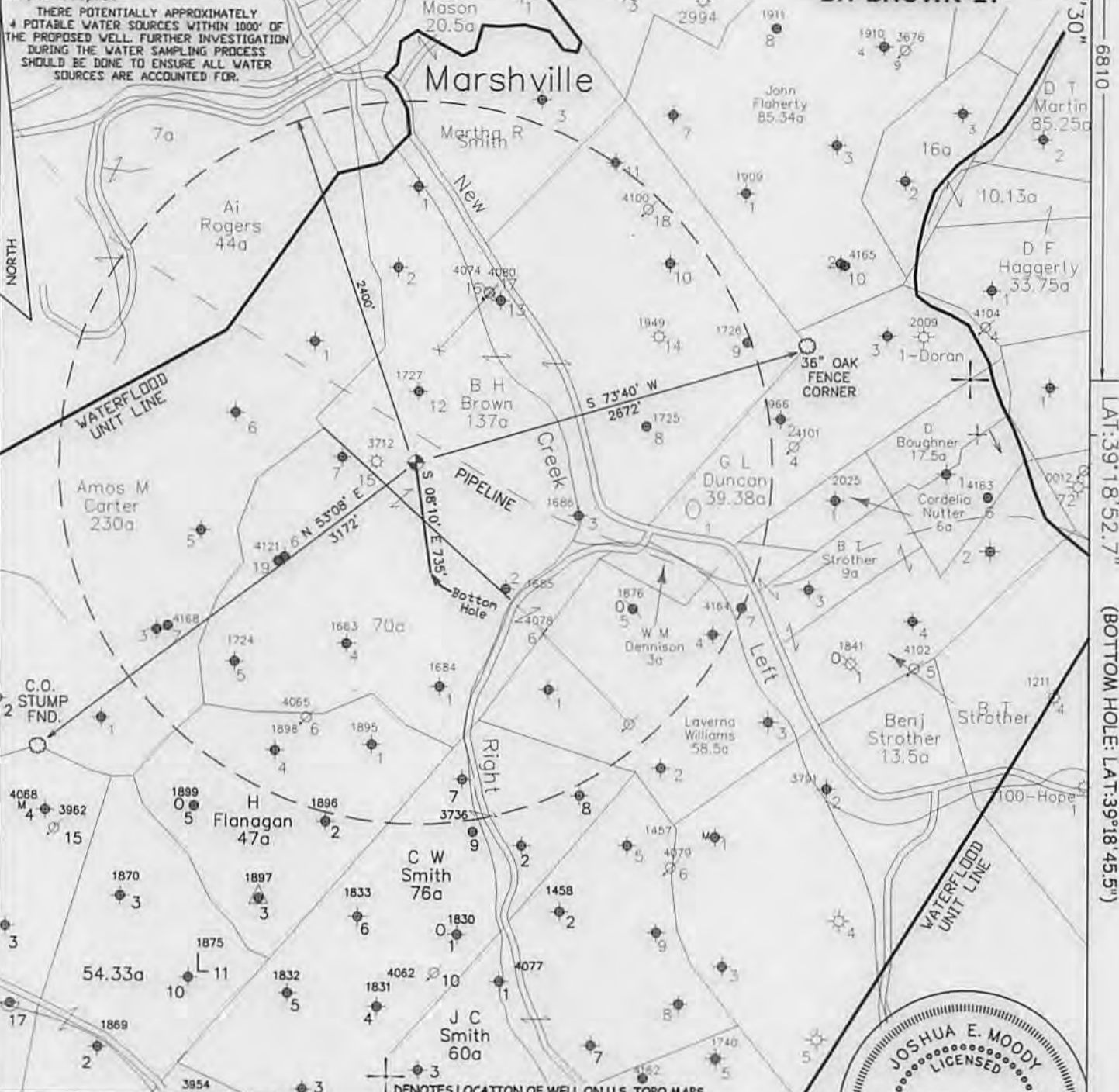
2 - Surface owners, adjoining information, Lease names existing wells, & line mapping obtained from HGE GIS system. No survey was performed to determine lines within the Waterflood Unit-reference: HGE GIS system.

3 - No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete title Opinion.

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,351,839m. E-546,221m.
Bottom Hole	N-4,351,618m. E-546,253m.

LOCATION REFERENCES	
MAGNETIC BEARING	
S 15° W 129.1'	24° WHITE OAK
N 60° E 178.2'	48° RED OAK

LAT: 39°20'00"
**MAP OF
 H.G. ENERGY, LLC
 -WATERFLOOD UNIT-
 BH BROWN 21**



JOB # 13-014
 DRAWING # 14LAKEFLOYD FOLDER
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEV. MAPPING GRADE GPS

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 10/06/14
 OPERATOR'S WELL
 BH BROWN # 21

WEST VIRGINIA DEPARTMENT
 OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS

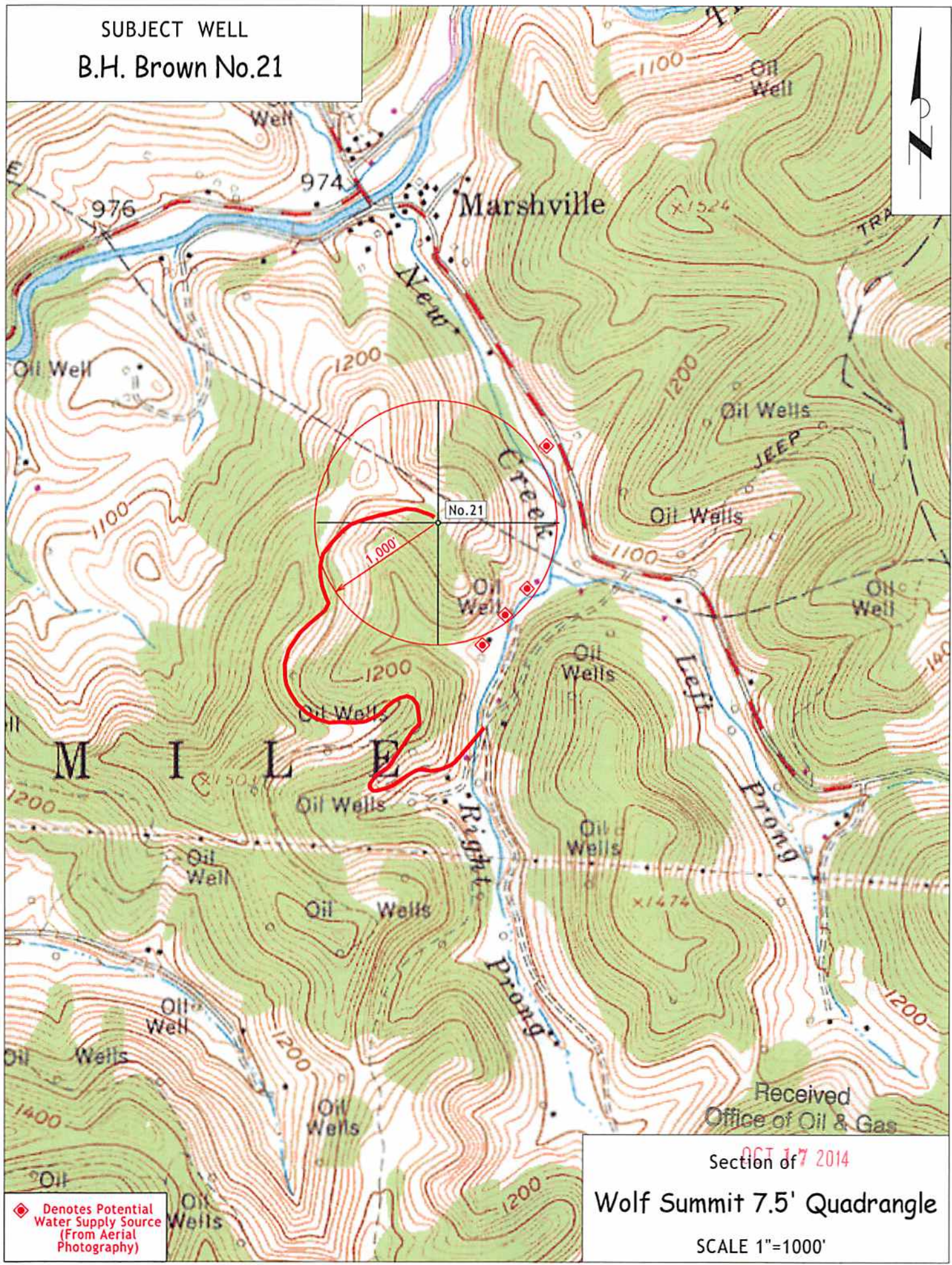
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1279' WATERSHED TENMILE CREEK API WELL # 47-033-05X50.5
 DISTRICT TEN MILE COUNTY HARRISON STATE COUNTY PERMIT
 QUADRANGLE WOLF SUMMIT 7.5'

SURFACE OWNER NANCY MORRIS, WILLIAM ROGERS, JAMES ROGERS ACREAGE 98.27 ACRES +/-
 OIL & GAS ROYALTY OWNER MAUDE LEE JARVIS AG'T LEASE ACREAGE 213 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 08°10' E 735')
 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION 5TH SAND ESTIMATED DEPTH TVD=2,935' MD=3,500'
 WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT MIKE KIRSCH
 ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD
 PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

FORM WW-6 LEASE # 32716-50

12/12/14

SUBJECT WELL
B.H. Brown No.21



◆ Denotes Potential Water Supply Source (From Aerial Photography)

Received
Office of Oil & Gas

Section of ~~17~~ 2014
Wolf Summit 7.5' Quadrangle

SCALE 1"=1000'