

(BOT. HL: LON:-81°58'18.6") LON:-81°58'16.5"

3715'

LAT:38°15'00"

LON:81°57'30"

4990'

LAT:38°14'10.7"

(BOTTOM HOLE: LAT:38°14'04.7")

**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 1983).

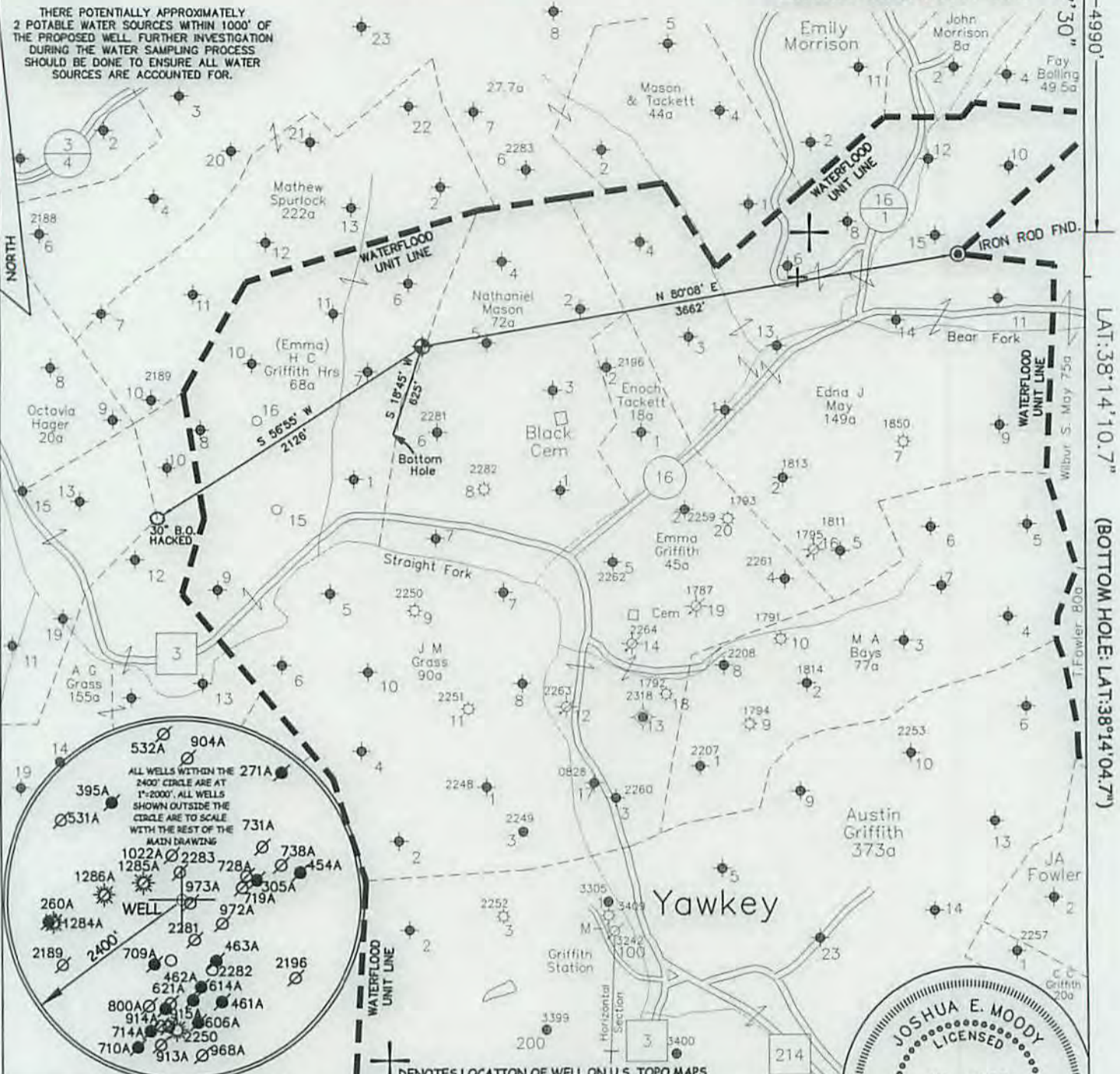
2 - Surface owners and adjacers information obtained from the Lincoln County Assessor's tax records.

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

UTM Coordinates (Zone 17N-NAD 1983)	
Surface	N-4,232,490m. E-415,012m.
Bottom Hole	N-4,232,306m. E-414,961m.

LOCATION REFERENCES	
MAGNETIC BEARING	5 15° W 95.5' 24° W.O. N 68° W 105.3' 8° R.O.

**MAP OF  
H.G. ENERGY, LLC  
-WATERFLOOD UNIT-  
EMMA GRIFFITH 138**



THERE POTENTIALLY APPROXIMATELY 2 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.

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

JOB # 14-023  
DRAWING # 15HG LC FOLDER  
SCALE 1" = 1000'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEV. MAPPING GRADE GPS

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

DATE 3/10/15  
OPERATOR'S WELL EMMA GRIFFITH # 138

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  HORIZONTAL   
(IF "GAS") PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 910' WATERSHED STRAIGHT FORK API WELL # \_\_\_\_\_  
DISTRICT DUVAL COUNTY LINCOLN 47 - 43 - 034759  
QUADRANGLE GRIFFITHSVILLE 7.5' STATE COUNTY PERMIT

SURFACE OWNER LINDA & LIONEL PARKER/JOSHUA BRUMFIELD ACREAGE 47 AC.+/- & 42.72 AC.+/-  
OIL & GAS ROYALTY OWNER HG ENERGY, LLC ET AL LEASE ACREAGE 113 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 18°45' W 625')  
PLUG & ABANDON  CLEAN OUT & REPLUG

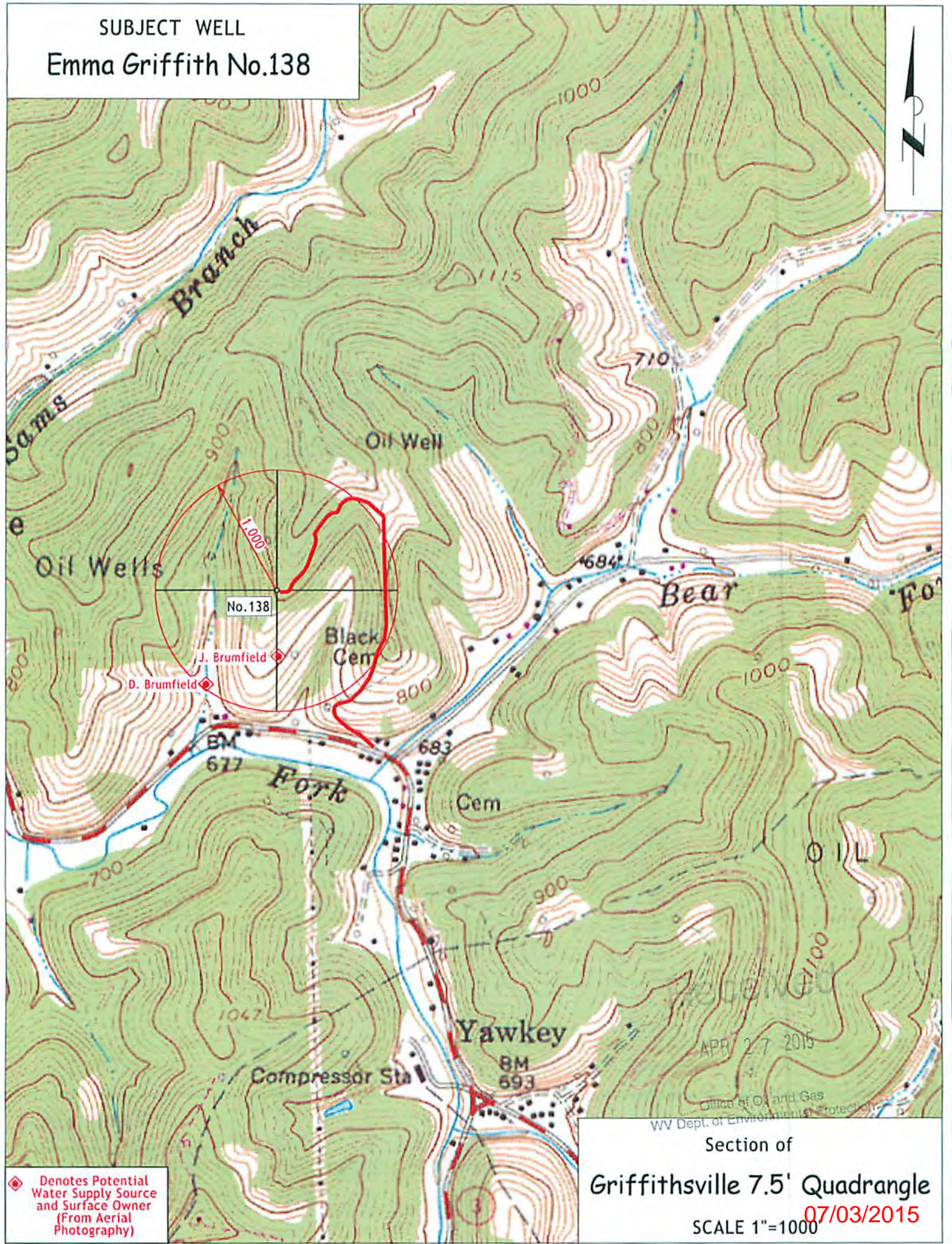
TARGET FORMATION BEREA ESTIMATED DEPTH TVD=2,575' MD=3,127'  
WELL OPERATOR H.G. ENERGY, LLC DESIGNATED AGENT D. WHITE  
ADDRESS 5260 DuPONT ROAD ADDRESS 5260 DuPONT ROAD  
PARKERSBURG, WV 26101 PARKERSBURG, WV 26101

FORM WW-6 LEASE # 2734-00

07/03/2015

COUNTY PERMIT

SUBJECT WELL  
Emma Griffith No.138



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

APR 27 2015  
Office of Oil and Gas  
WV Dept. of Environmental Protection

Section of  
Griffithsville 7.5' Quadrangle  
07/03/2015  
SCALE 1"=1000