

**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 adjacent 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.

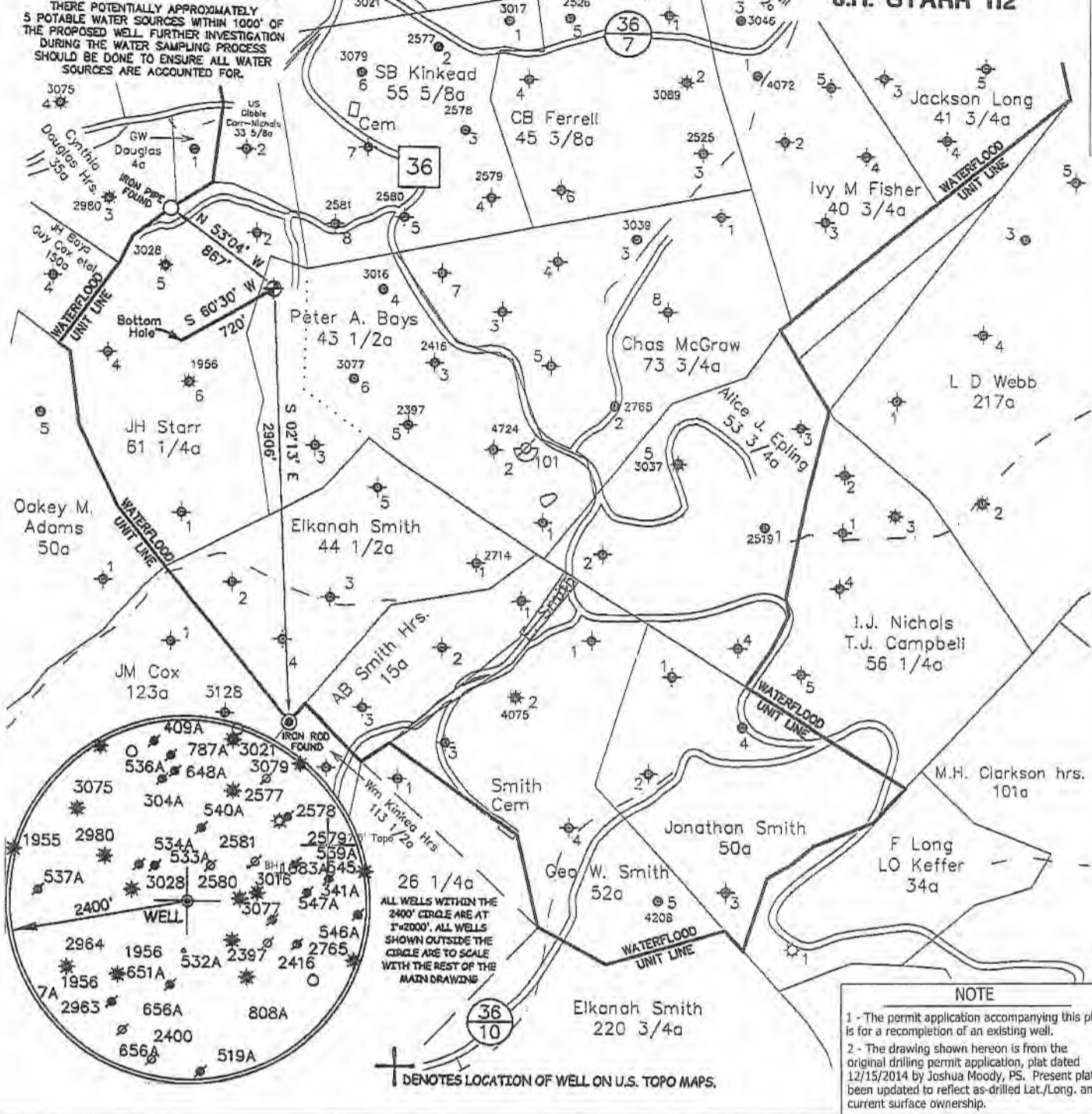
4 - Existing well spots from HGE or Seneca Tech, Inc. data

UTM Coordinates (Zone 17N-NAD 1983)		LOCATION REFERENCES	
Surface	N-4,285,049m. E-474,998m.	MAGNETIC BEARING S 65° W 82.8' 15" POPLAR N 15° W 75.8' 10" RED OAK	
Bottom Hole	N-4,284,941m. E-474,807m.		

LATITUDE 38° 45' 00"

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

LONGITUDE 81° 15' 00"



**NOTE**

1 - The permit application accompanying this plat is for a recompletion of an existing well.

2 - The drawing shown hereon is from the original drilling permit application, plat dated 12/15/2014 by Joshua Moody, PS. Present plat has been updated to reflect as-drilled Lat./Long. and current surface ownership.

⊕ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.

FILE NO. \_\_\_\_\_

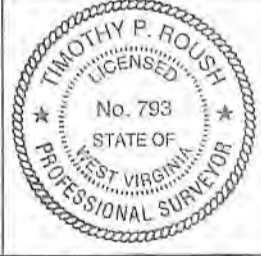
SCALE 1" = 1000'

MINIMUM DEGREE OF ACCURACY \_\_\_\_\_

PROVEN SOURCE OF ELEVATION DGPS Survey  
(Sub-Meter Mapping Grade)

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 PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

(SIGNED) Timothy P. Roush  
TIMOTHY P. ROUSH PS 793



WEST VIRGINIA  
Division of Environmental Protection  
Office of Oil and Gas  
601 57th Street  
Charleston, West Virginia 25301



DATE July 24, 2020  
FARM J.H. Starr No.112  
API WELL NO. 47 - 087 - 04781 SW

WELL TYPE: OIL \_\_\_ GAS \_\_\_ LIQUID INJECTION  WASTE DISPOSAL \_\_\_  
(IF "GAS") PRODUCTION \_\_\_ STORAGE \_\_\_ DEEP \_\_\_ SHALLOW \_\_\_

LOCATION: ELEVATION 1,097' WATERSHED Laurel Fork  
DISTRICT Smithfield COUNTY Roane  
QUADRANGLE Looneyville 7.5'

SURFACE OWNER Freddie Fisher et al. ACREAGE 33 Ac.  
OIL & GAS ROYALTY OWNER Wm. S. Haymond II et al. LEASE ACREAGE 104 Ac.  
LEASE NO. \_\_\_\_\_

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
STIMULATE  PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
FORMATION \_\_\_ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_

PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION Big Injun ESTIMATED DEPTH 2,542' MD

WELL OPERATOR HG Energy LLC. DESIGNATED AGENT Diane White  
ADDRESS 5260 DuPont Road ADDRESS 5260 DuPont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101



As-Drilled Longitude = 81°17' 15.8"

10,760'

LATITUDE 38° 45' 00"

LONGITUDE 81° 15' 00"

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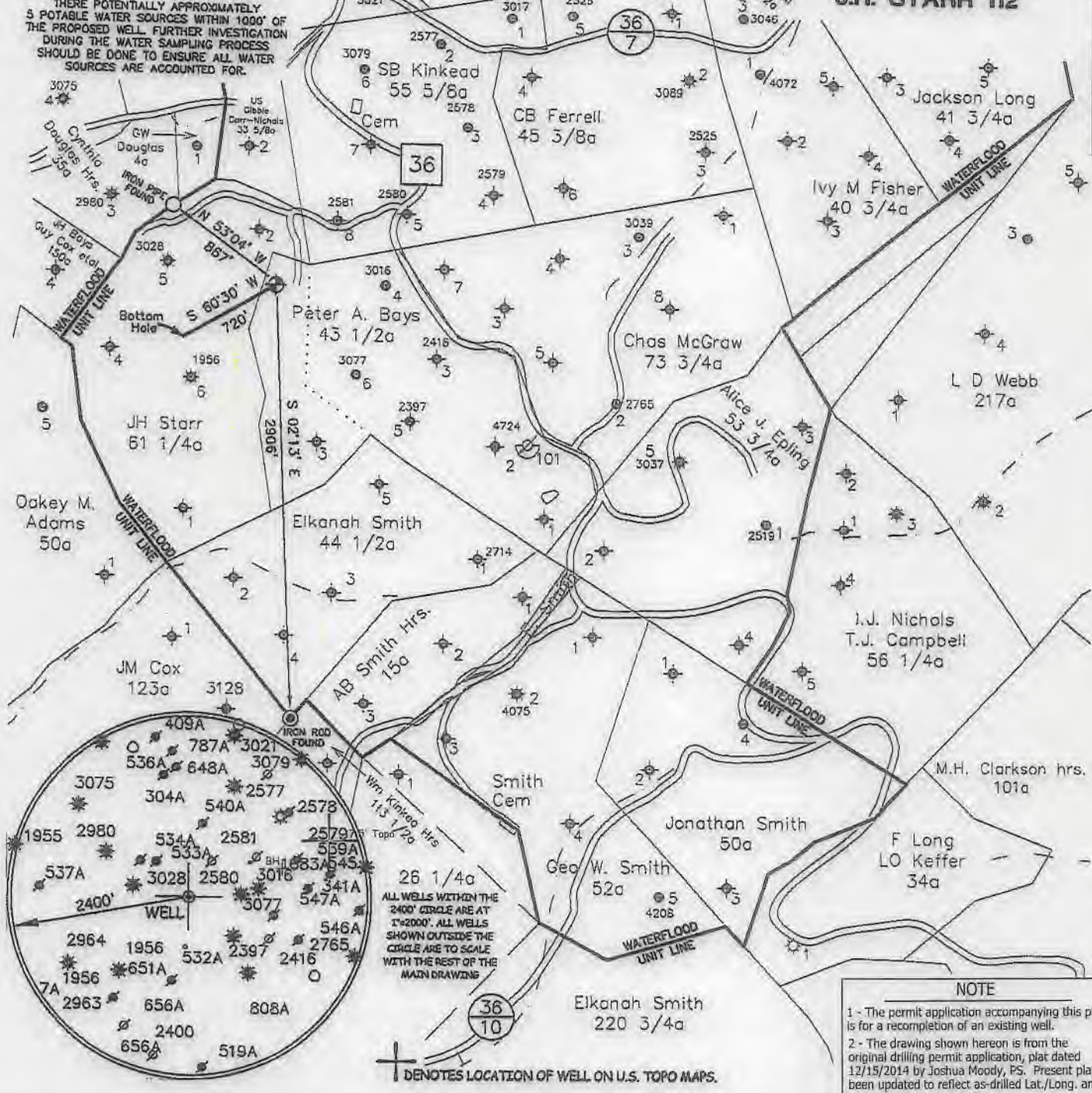
Surface N-4,285,049m.  
E-474,998m.

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LOCATION REFERENCES

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(SIGNED) *Timothy P. Roush*  
TIMOTHY P. ROUSH PS 793



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FORM IV-6

As Drilled Latitude = 38° 42' 49.0"