

LATITUDE 39° 50' 00"  
 HEAVEN HILL UNIT 2-5HM  
 388.204± ACRES

**SURFACE HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
**N) 4,406,707.1**  
**E) 524,568.1**  
 UTM. NAD83, ZONE 17  
 IN FEET  
**N) 14,457,672**  
**E) 1,721,020**

**LEGEND**

- LEASED TRACTS
- - - INTERIOR MINERAL TRACTS
- SURFACE TRACTS
- HARD LEASE LINE
- LEASE # (SEE PG 2)

**NOTES**

OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN JULY, 2016. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

**LANDING POINT 1**  
 UTM. NAD83, ZONE 17  
 IN METERS  
**N) 4,406,285.0**  
**E) 524,278.6**  
 UTM. NAD83, ZONE 17  
 IN FEET  
**N) 14,456,287**  
**E) 1,720,071**

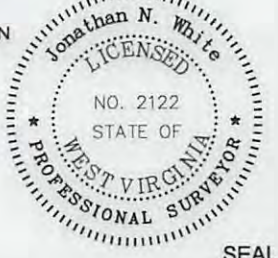
**BOTTOM HOLE**  
 UTM. NAD83, ZONE 17  
 IN METERS  
**N) 4,404,991.8**  
**E) 525,025.2**  
 UTM. NAD83, ZONE 17  
 IN FEET  
**N) 14,452,044**  
**E) 1,722,520**

No water wells within 250' of well were found, no dwellings within 625' of pad center were found.

FILE NUMBER 163-697  
 DRAWING NUMBER HHU2\_WP\_5HM  
 SCALE 1" = 1500'  
 MINIMUM DEGREE OF ACCURACY 1/2500  
 PROVEN SOURCE OF ELEVATION SUBMETER 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 RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION

P.S. 2122 Jonathan N. White



WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET, SE  
 CHARLESTON, WV 25304



DATE: SEPTEMBER 24, 2016  
 OPERATORS WELL NO. Heaven Hill Unit 2-5HM

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

API WELL NO. 47-051-01884 H6A  
 STATE COUNTY PERMIT

LOCATION ELEVATION 1331' WATERSHED (HUC 10) FISH CREEK  
 DISTRICT MEADE COUNTY MARSHALL  
 QUADRANGLE GLEN EASTON 7.5' LEASE NUMBER SEE ATTACHED PG 2 OF 2

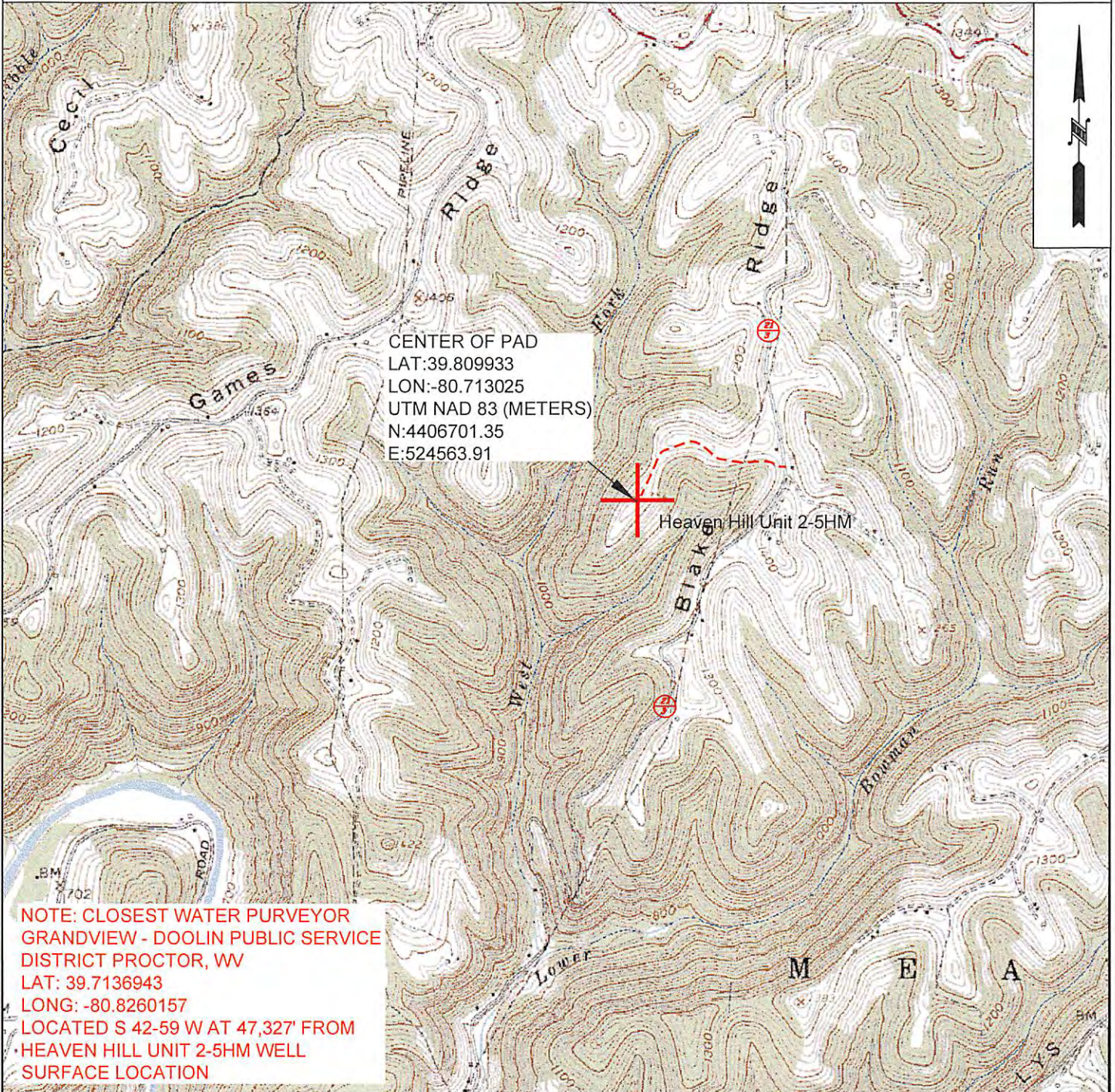
SURFACE OWNER CHARLES R. HAGEDORN, JR., ET UX ACREAGE 203.074  
 OIL & GAS ROYALTY OWNER CHARLES R. HAGEDORN, JR., ET AL LEASE ACREAGE 388.204  
 PROPOSED WORK: DRILL  CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION \_\_\_  
 PERFORATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) \_\_\_  
 PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 6,929' TMD:12,239'  
 WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM  
 ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH TX, 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON WV, 25313

02/10/2017

COUNTY NAME PERMIT

51-01884

# PROPOSED HEAVEN HILL UNIT 2-5HM



 <b>TUG HILL OPERATING</b>	OPERATOR	TOPO SECTION	UNIT NAME
	TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317	GLEN EASTON 7.5'	HEAVEN HILL UNIT 2
		SCALE: 1" = 2000'	DATE: DATE: 09/23/16

02/10/2017