

# HAYS #1H

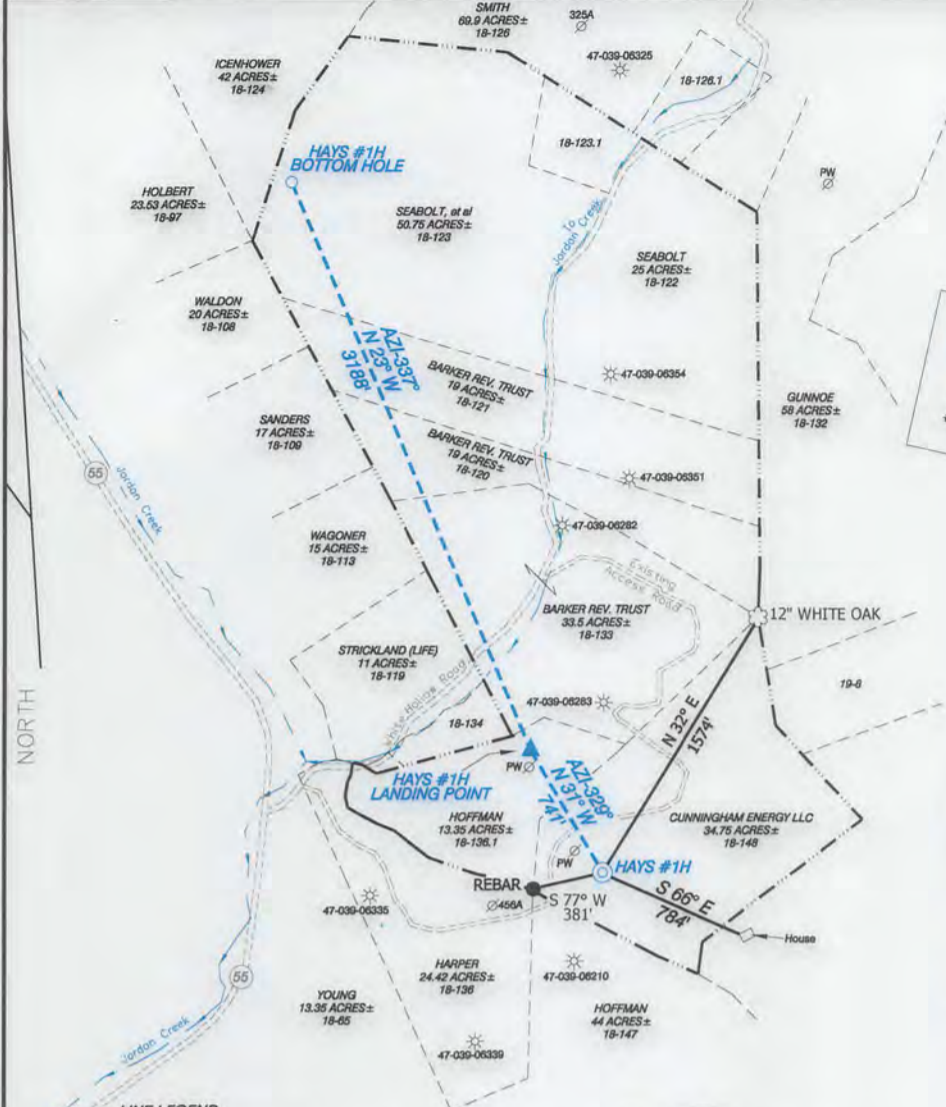
HAYS #1H SURFACE HOLE		
WV STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17 METERS
SOUTH ZONE -NAD 27	NAD 27	4259640
(N) 540733	38.49437	468594
(E) 1890314	81.38319	

02/22/2019



HAYS #1H LANDING POINT		
STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17 METERS
SOUTH ZONE -NAD 27	NAD 27	4259812
(N) 541299	38.48592	466491
(E) 1889978	81.38437	

HAYS #1H BOTTOM HOLE		
STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17 METERS
SOUTH ZONE -NAD 27	NAD 27	4260729
(N) 544305	38.49417	468100
(E) 1888895	81.38890	

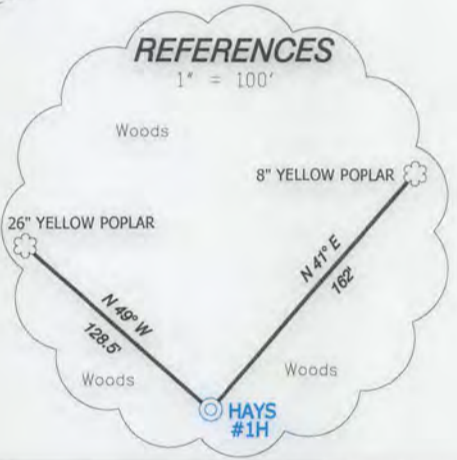


**LINE LEGEND**

LEASE BOUNDARY	---
SURFACE BOUNDARY	---
CREEK/STREAM	---
ROADS	---
PROPOSED LATERAL	---
SURVEYED LINE	---

### NOTES ON SURVEY

- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' WERE FOUND.
- TIES TO WELLS AND CORNERS ARE BASED ON STATE PLANE GRID NORTH WV SOUTH ZONE NAD '27.
- WELL LAT./LONG. ESTABLISHED BY DGPS(SUB-METER GRADE).
- SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF KANAWHA COUNTY IN NOVEMBER, 2018 AND INFORMATION PROVIDED BY CUNNINGHAM ENERGY, LLC.
- WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.



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.



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
 DATE JANUARY 30, 20 19  
 OPERATORS WELL NO. HAYS #1H  
 API WELL NO. 47-039-06388H  
 STATE WV COUNTY WV PERMIT 06388H

P.S. 834  
  
**HUPP Surveying & Mapping**  
 P.O. Box 647 Grantsville, WV 26147  
 (304) 354-7035 EMAIL: hupp@frontiernet.net

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. W2637 (BK 92-78)  
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER GRADE) SCALE 1" = 1000'

STATE OF WEST VIRGINIA  
 DIVISION OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL AND GAS

WELL TYPE : OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION :  
 ELEVATION 883' WATERSHED ELK RIVER  
 DISTRICT BIG SANDY COUNTY KANAWHA QUADRANGLE BLUE CREEK 7.5'

SURFACE OWNER CUNNINGHAM ENERGY, LLC ACREAGE 34.75±  
 ROYALTY OWNER HAYS HEIRS, et al LEASE ACREAGE 170.35±

PROPOSED WORK : LEASE NO. \_\_\_\_\_  
 DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER \_\_\_\_\_  
 PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION WEIR  
 ESTIMATED DEPTH TVD-2000' MD-5930'

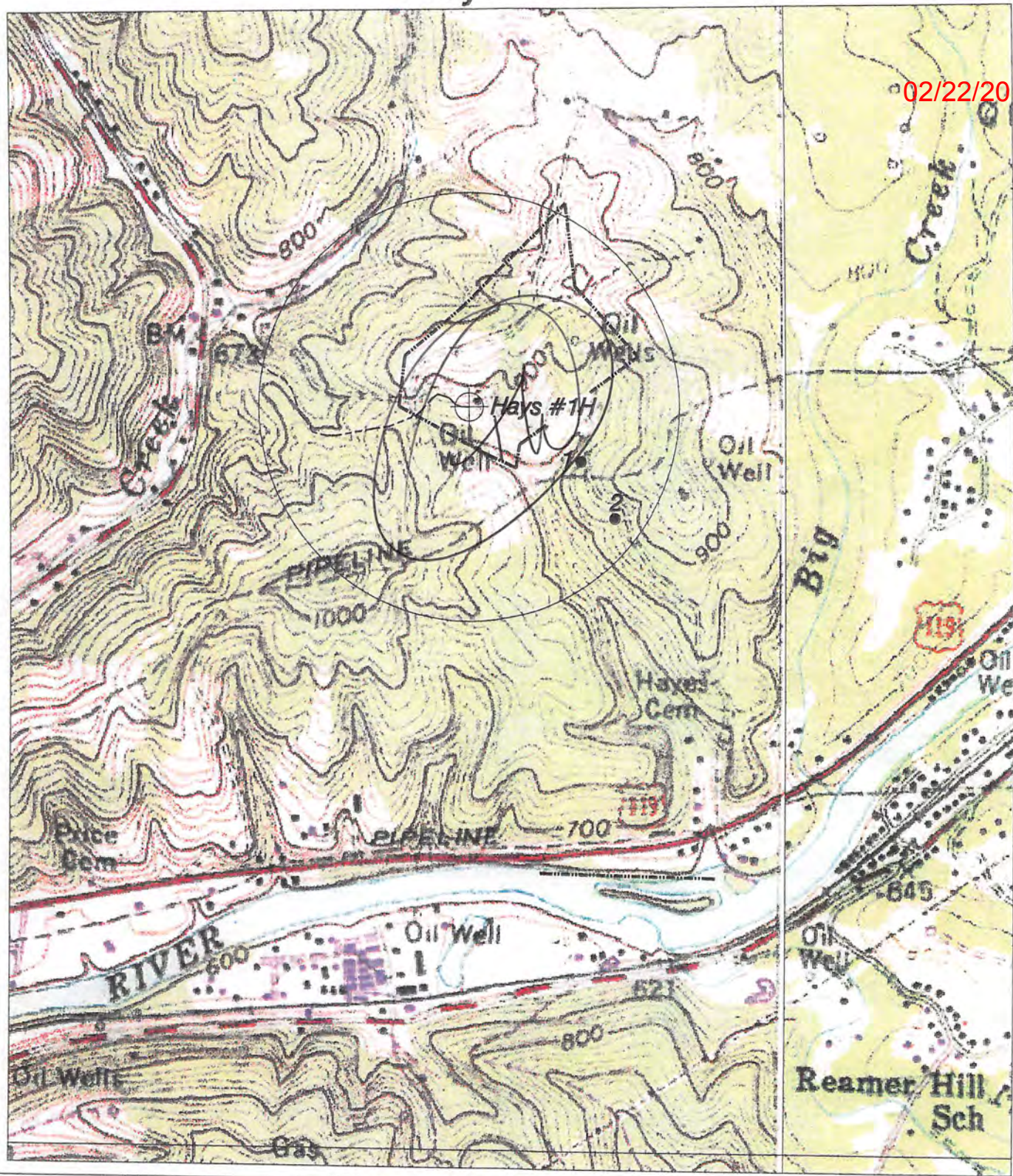
WELL OPERATOR CUNNINGHAM ENERGY, LLC. DESIGNATED AGENT RYAN CUNNINGHAM  
 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302 ADDRESS 3230 PENNSYLVANIA AVE. CHARLESTON, WV 25302

COUNTY NAME PERMIT



# Cunningham Energy, LLC. Hays #1H

02/22/2019



NORTH

<p><b>HUPP Surveying &amp; Mapping</b>          P.O. BOX 647 GRANTSVILLE, WV 26147          PH: (304)354-7035 E-MAIL: hupp@frontiernet.net</p>	<p>1" = 1000'          Blue Creek Quad</p>	<p>Cunningham Energy, LLC.          3230 Pennsylvania Ave.          Charleston, WV 25302</p>
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