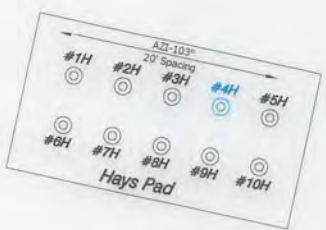


HAYS #4H

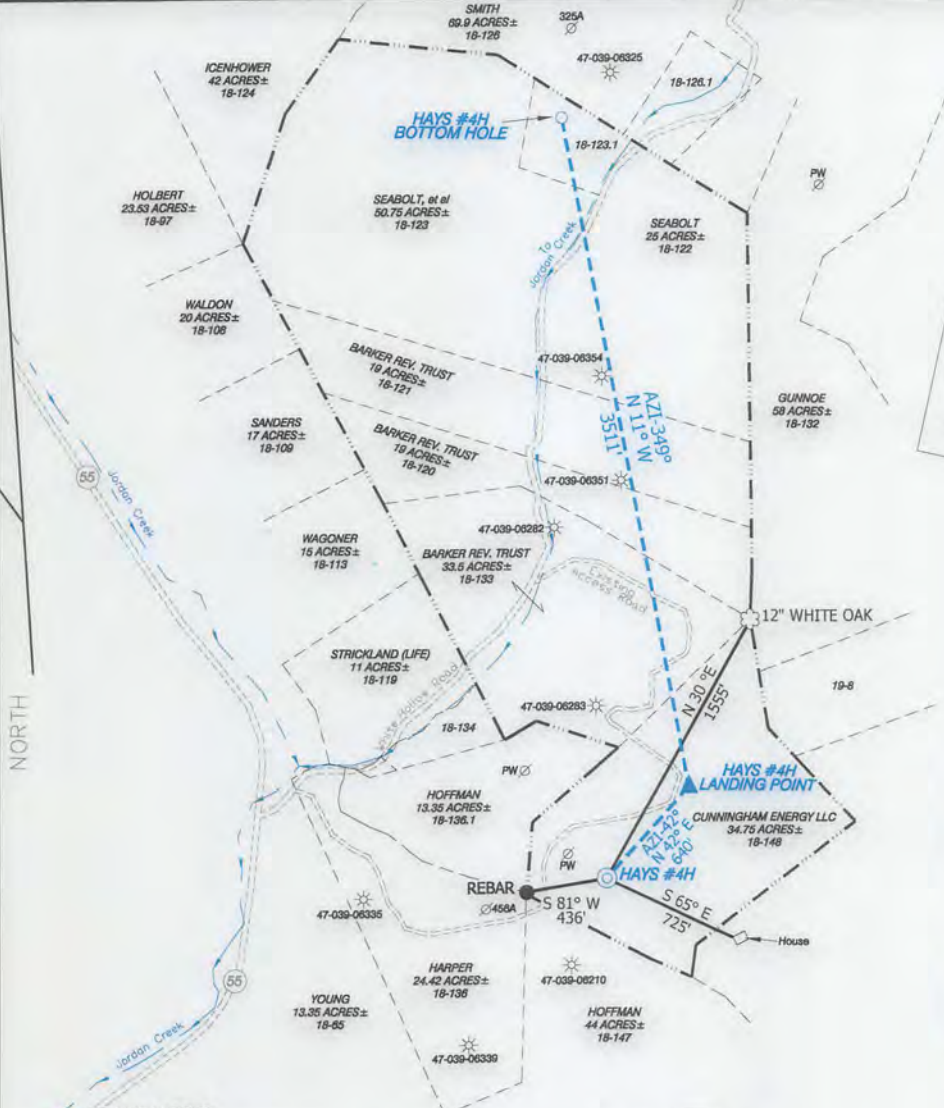
HAYS #4H SURFACE HOLE		
WV STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17
SOUTH ZONE -NAD 27	NAD 27	METERS
(N) 540720	38.48434	4269636
(E) 1890373	81.38298	468611

03/01/2019



HAYS #4H LANDING POINT		
STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17
SOUTH ZONE -NAD 27	NAD 27	METERS
(N) 541196	38.48565	4259781
(E) 1890801	81.38149	466742

HAYS #4H BOTTOM HOLE		
STATE PLANE COORDINATES	L & L DECIMAL	UTM (NAD 83) ZONE 17
SOUTH ZONE -NAD 27	NAD 27	METERS
(N) 544646	38.49512	4260532
(E) 1890149	81.38382	468543

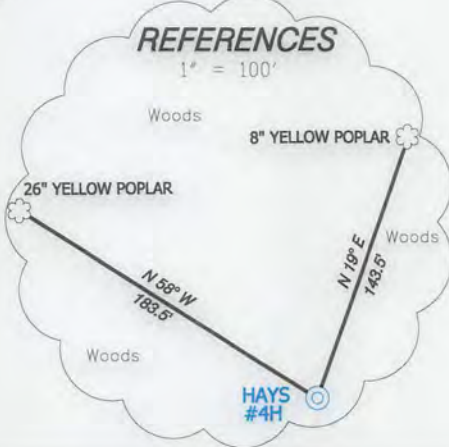


LINE LEGEND

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, 2019
 OPERATORS WELL NO. HAYS #4H
 API WELL NO. 47-039-06391H
 STATE COUNTY PERMIT

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

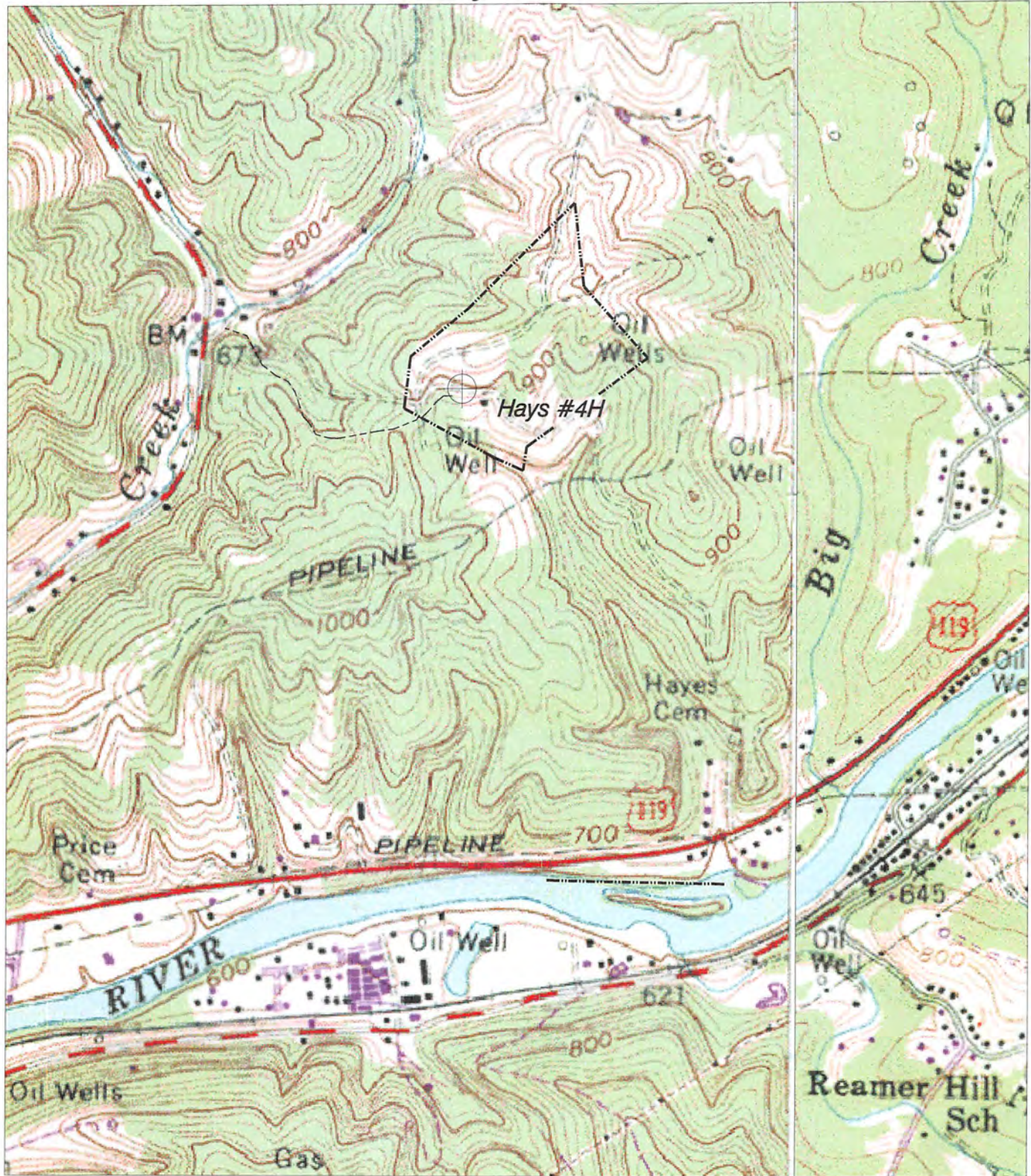
WELL TYPE : OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

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 162.0±
 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-6150'

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

LONGITUDE 81°22'30"
 LAT. 38°29'03.6"
 COUNTY NAME
 PERMIT

Cunningham Energy, LLC. Hays #4H



NORTH

HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147
PH: (304)354-7035 E-MAIL: hupp@frontiernet.net

1" = 1000'
Blue Creek Quad

Cunningham Energy, LLC.
3230 Pennsylvania Ave.
Charleston, WV 25302