

SURFACE HOLE LATITUDE: 39°47'30"
 BOTTOM HOLE LATITUDE: 39°47'30"

SLS
 Land & Energy Development
 Solutions from the ground up.
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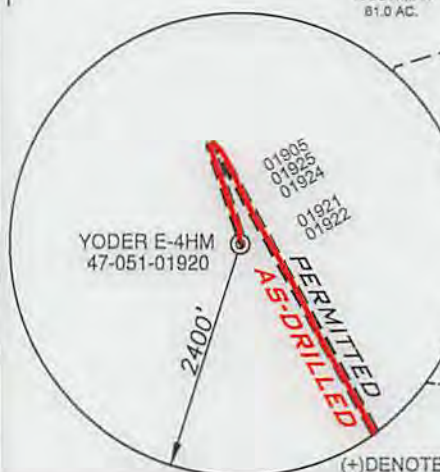
AS-DRILLED
SURFACE HOLE
 UTM, NAD83, ZONE 17
 IN METERS
 N) 4,403,409.97
 E) 513,699.45

LANDING POINT 1
 UTM, NAD83, ZONE 17
 IN METERS
 N) 4,403,570.07
 E) 513,706.60

BOTTOM HOLE
 UTM, NAD83, ZONE 17
 IN METERS
 N) 4,401,774.47
 E) 514,741.09

LEGEND

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



- NOTES**
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017.
 - COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 - ROYALTY OWNERSHIP PROVIDED BY TUG HILL OPERATING, LLC.
 - SURFACE OWNERSHIP WAS NOT ADDRESSED.
 - PLAT UPDATED TO SHOW AS-DRILLED PATH.

FILE NUMBER 8836

DRAWING NUMBER 8836ADE4HM.dwg

SCALE 1" = 1200'

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. 677
Gregory A. Smith



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

DATE: JULY 17, 2018
 OPERATORS WELL NO. YODER E-4HM (AS-DRILLED)
 API WELL NO. 47-051-01920
 STATE COUNTY PERMIT

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

LOCATION ELEVATION 1084' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE ATTACHED PG 2 OF 2

SURFACE OWNER NATHAN D. YODER, et al ACREAGE 142.03

OIL & GAS ROYALTY OWNER NATHAN D. YODER, et al - SEE PAGE 2 LEASE ACREAGE 571.74

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
 PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) ___

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 6,284' TMD:13,537'

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

02/15/2019

(BH) 10,236'
 (SH) 1,940'
 (BH) BOTTOM HOLE LONGITUDE: 80°47'30"
 (SH) SURFACE HOLE LONGITUDE: 80°50'00"
 (SH) 4,093'
 (BH) 9,461'