

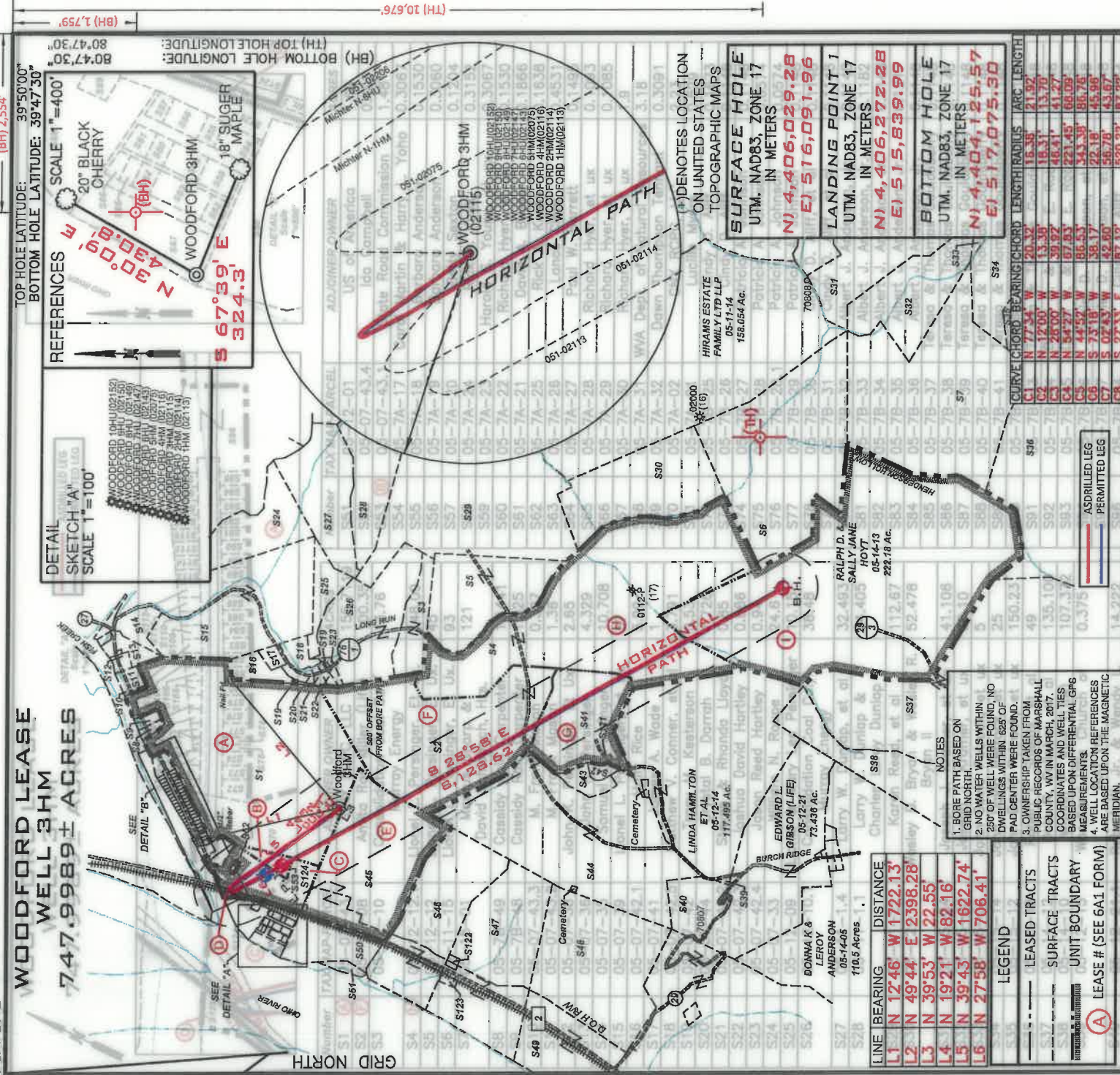
WOODFORD LEASE  
WELL 3HM  
747.9989± ACRES

TOP HOLE LATITUDE: 39°50'00"  
BOTTOM HOLE LATITUDE: 39°47'30"  
REFERENCES  
SCALE 1"=400'  
20" BLACK CHERRY  
WOODFORD 3HM  
18" SUGER MAPLE  
S 67°39' E  
324.3

DETAIL SKETCH "A" SCALE 1"=100'  
WOODFORD 3HM (02115)  
WOODFORD 3HM (02116)  
WOODFORD 3HM (02117)  
WOODFORD 3HM (02118)  
WOODFORD 3HM (02119)  
WOODFORD 3HM (02120)  
WOODFORD 3HM (02121)  
WOODFORD 3HM (02122)  
WOODFORD 3HM (02123)  
WOODFORD 3HM (02124)

(BH) 2.554'  
(TH) 5.767'  
(BH) 1.759'  
(TH) 10.676'  
(BH) 4.730'  
(TH) 10.676'  
(BH) 4.730'

GRID NORTH



LINE	BEARING	DISTANCE
L1	N 12°46' E	1722.13'
L2	N 49°44' E	2398.28'
L3	N 39°53' W	22.55'
L4	N 19°21' W	182.16'
L5	N 39°43' W	1622.74'
L6	N 27°58' W	706.41'

LEGEND  
 - - - LEASED TRACTS  
 - - - SURFACE TRACTS  
 - - - UNIT BOUNDARY  
 (A) LEASE # (SEE 6A1 FORM)

NOTES  
1. BORE PATH BASED ON GRID NORTH.  
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.  
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.  
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

(A) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS  
**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
N) 4,406,029.28  
E) 516,091.96  
**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
N) 4,406,272.28  
E) 515,839.99  
**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
N) 4,404,125.57  
E) 517,075.30

CURVE	CHORD	BEARING	CHORD LENGTH	ARC LENGTH
C1	N 77°54' W	20.37'	16.38'	21.97'
C2	N 19°00' W	53.39'	18.31'	13.70'
C3	N 26°00' W	39.92'	46.41'	41.47'
C4	N 54°57' W	167.63'	221.45'	68.09'
C5	N 44°52' W	166.53'	343.39'	86.78'
C6	S 73°18' W	38.17'	22.18'	45.88'
C7	S 27°33' E	42.80'	56.78'	67.22'
C8	S 27°33' E	67.12'	520.22'	67.22'

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



David L. Jackson  
JACKSON SURVEYING, INC.  
P.O. Box 1466  
Clarksburg, WV 26302  
304-623-6551

FILE NUMBER 05-12-13  
DRAWING NUMBER WOODFORD\_WP\_3HM  
SCALE 1" = 2000'  
MINIMUM DEGREE OF ACCURACY 1/200  
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING  
GRADE GPS

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



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
47-051-02115  
STATE COUNTY PERMIT

LOCATION ELEVATION 1234.08' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER

DISTRICT FRANKLIN COUNTY MARSHALL  
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 Form  
SURFACE OWNER CNX RCPG, LLC ACREAGE 155.7119  
OIL & GAS ROYALTY OWNER HG ENERGY II APPALACHIA LC (TRACT 5-7-43) LEASE ACREAGE 155.7119  
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION  
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED  
PLUG & ABANDON CLEAN OUT & REPLUG  
ESTIMATED DEPTH TVD: 6,447' TMD: 15,662'  
TARGET FORMATION MARCELLUS  
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 5400 D BIG TYLER ROAD  
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT