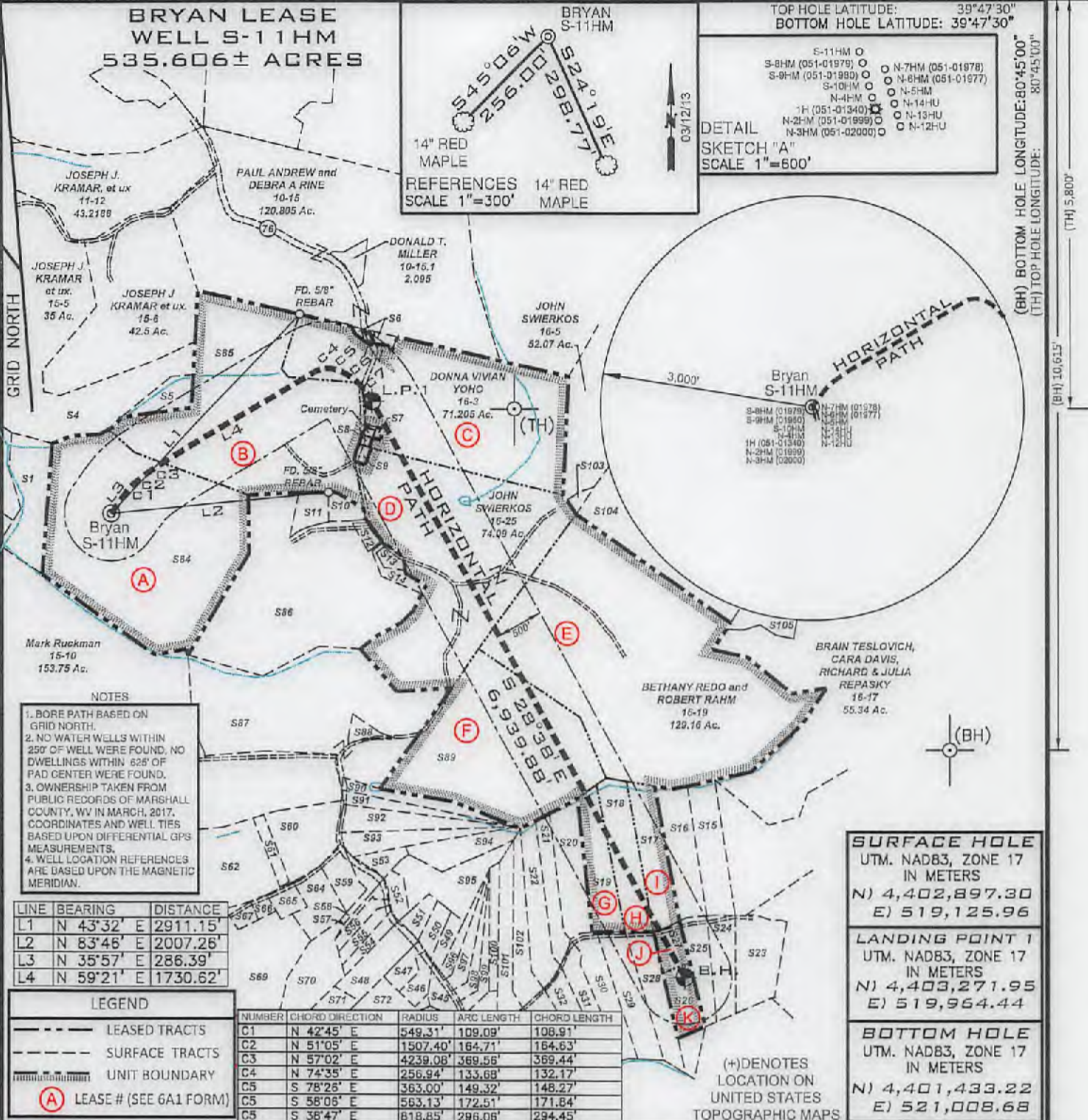
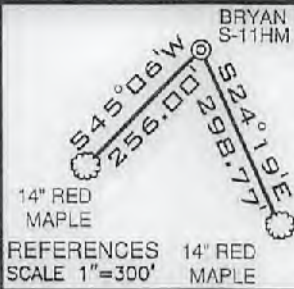


BRYAN LEASE WELL S-11HM 535.606± ACRES

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

- S-11HM ○
- S-8HM (051-01979) ○
- S-9HM (051-01980) ○
- S-10HM ○
- N-7HM (051-01978) ○
- N-8HM (051-01977) ○
- N-5HM ○
- N-4HM ○
- 1H (051-01340) ○
- N-2HM (051-01998) ○
- N-3HM (051-02000) ○
- N-14HU ○
- N-13HU ○
- N-12HU ○

DETAIL
SKETCH "A"
SCALE 1"=600'



- 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.

LINE	BEARING	DISTANCE
L1	N 43°32' E	2911.15'
L2	N 83°46' E	2007.26'
L3	N 35°57' E	286.39'
L4	N 59°21' E	1730.62'

LEGEND

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

NUMBER	CHORD DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH
C1	N 42°45' E	549.31'	109.09'	108.91'
C2	N 51°05' E	1507.40'	164.71'	164.63'
C3	N 57°02' E	4239.08'	369.56'	369.44'
C4	N 74°35' E	256.94'	133.68'	132.17'
C5	S 78°26' E	363.00'	149.32'	148.27'
C5	S 58°08' E	563.13'	172.51'	171.84'
C5	S 36°47' E	618.85'	296.06'	294.45'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,897.30
E) 519,125.96

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,271.95
E) 519,964.44

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,433.22
E) 521,008.68

FILE NUMBER _____

DRAWING NUMBER BRYAN_WP_S-11HM

SCALE 1" = 1500'

MINIMUM DEGREE OF ACCURACY 1/200

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

David L Jackson



JACKSON SURVEYING INC.
P.O. Box 1460
Clarksburg, WV 26302
304-623-5851

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

DATE: FEBRUARY 05, 2018

OPERATORS WELL NO. BRYAN S-11HM

API WELL NO. 47-051-02022 H6A

STATE WV COUNTY Marshall PERMIT 06/08/2018

LOCATION ELEVATION 1191.0' WATERSHED (HUC 10) Fish Creek

DISTRICT Franklin COUNTY Marshall

QUADRANGLE Powhatan Point 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER CNX LAND RESOURCES, INC. ACREAGE 81.98

OIL & GAS ROYALTY OWNER MICHAEL R. BRYAN - SEE WW 6A1 LEASE ACREAGE 81.98

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION

PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____

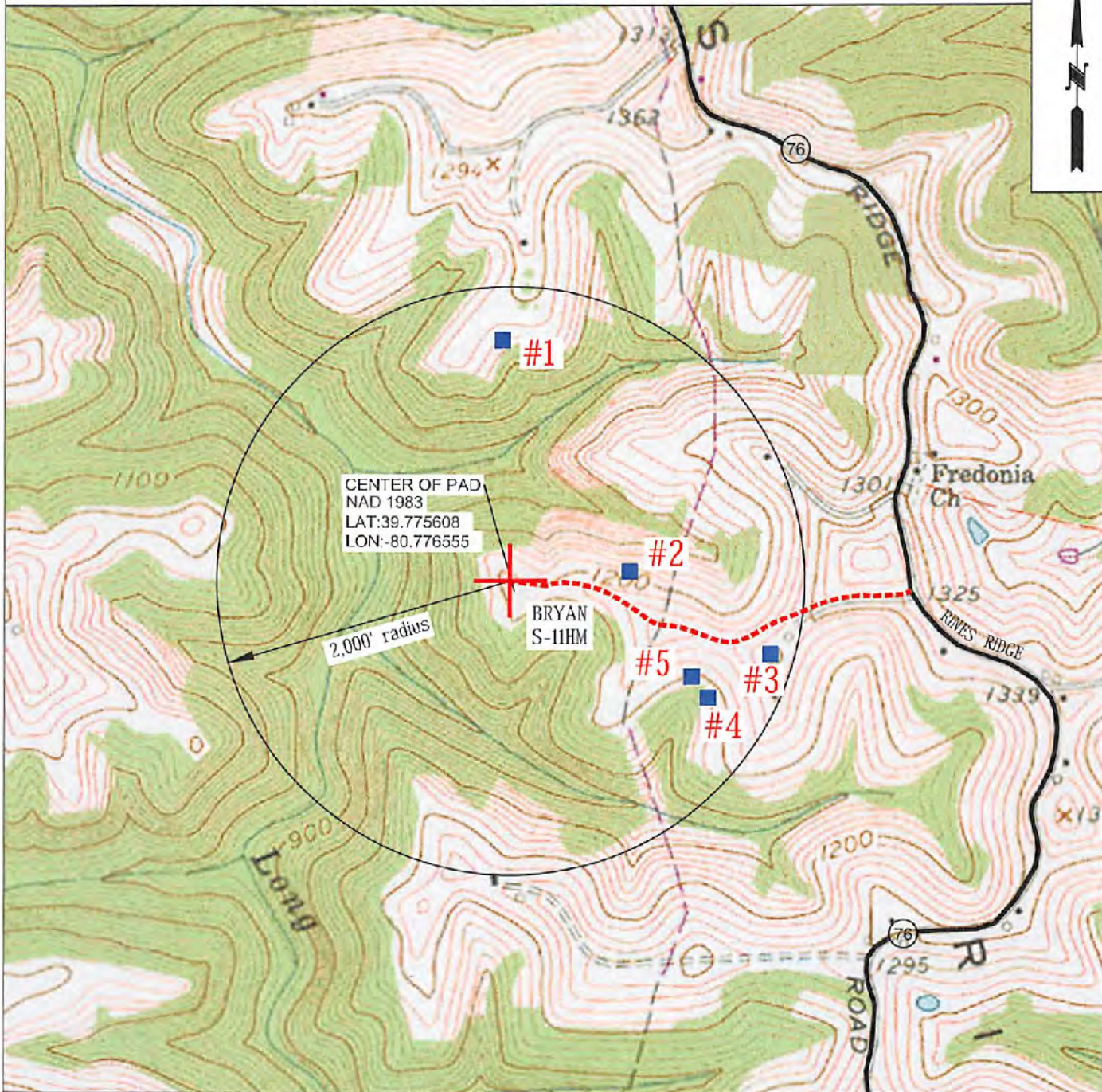
TARGET FORMATION Marcellus ESTIMATED DEPTH TVD: 6,616' TMD: 14,744'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

PROPOSED BRYAN S-11HM

There appears to be Five (5) possible water sources within 2,000'.



CENTER OF PAD
NAD 1983
LAT:39.775608
LON:-80.776555

BRYAN
S-11HM

2,000' radius

#1

#2

#5

#3

#4



TUG HILL
OPERATING

OPERATOR 494510851
TUG HILL OPERATING, LLC
380 SOUTHPOINTE BLVD
SUITE 200
CANONSBURG, PA 15317

TOPO SECTION POWHATAN POINT 7.5'
SCALE: 1" = 1000'

LEASE NAME BRYAN
DATE: 1/05/18
DATE: MAR 14 2018

RECEIVED
Office of Oil and Gas
WV Department of Environmental Protection
06/08/2018