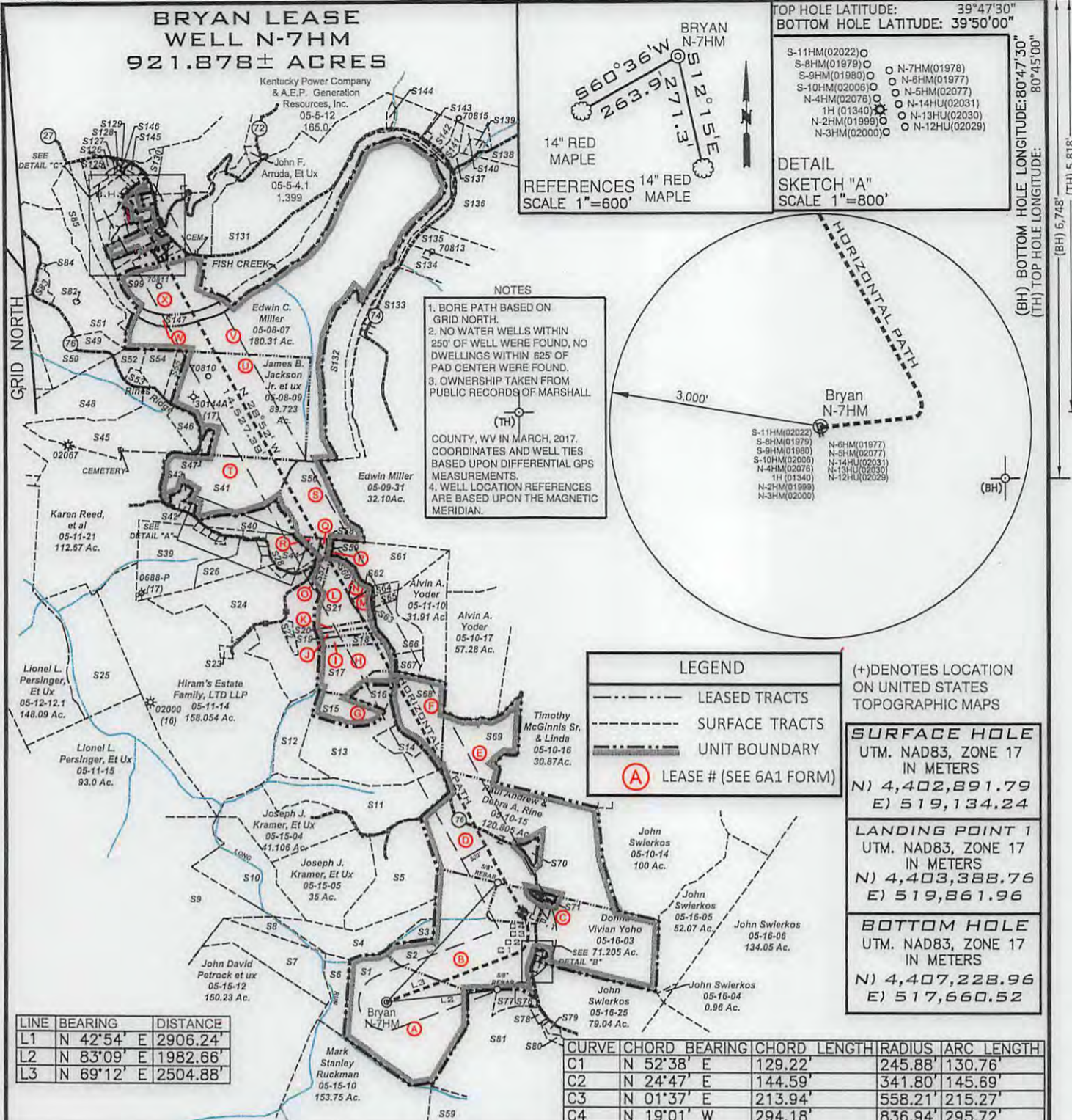


# BRYAN LEASE WELL N-7HM 921.878± ACRES

Kentucky Power Company  
& A.E.P. Generation  
Resources, Inc.  
05-5-12  
165.0



14" RED MAPLE  
REFERENCES  
SCALE 1"=600'

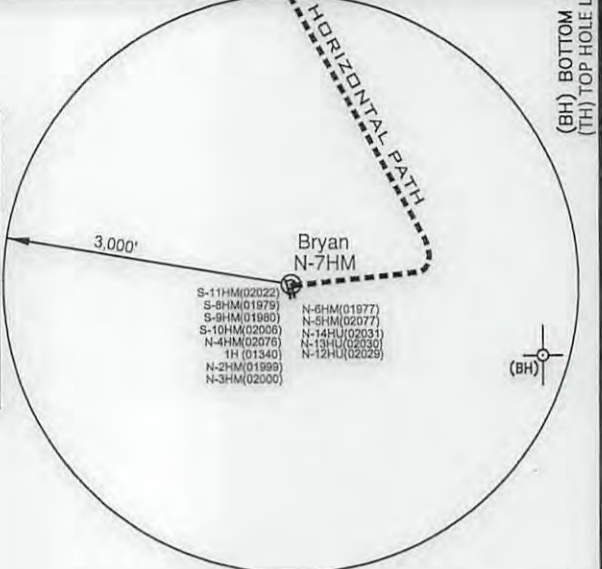
TOP HOLE LATITUDE: 39°47'30"  
BOTTOM HOLE LATITUDE: 39°50'00"

- S-11HM(02022) ○
- S-8HM(01979) ○
- S-9HM(01980) ○
- S-10HM(02006) ○
- N-4HM(02078) ○
- 1H (01340) ○
- N-2HM(01999) ○
- N-3HM(02000) ○
- N-7HM(01978) ○
- N-8HM(01977) ○
- N-6HM(02077) ○
- N-14HM(02031) ○
- N-13HU(02030) ○
- N-12HU(02029) ○

DETAIL  
SKETCH "A"  
SCALE 1"=800'

**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.



**LEGEND**

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

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,402,891.79  
E) 519,134.24

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,403,388.76  
E) 519,861.96

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,407,228.96  
E) 517,660.52

LINE	BEARING	DISTANCE
L1	N 42°54' E	2906.24'
L2	N 83°09' E	1982.66'
L3	N 69°12' E	2504.88'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 52°38' E	129.22'	245.88'	130.76'
C2	N 24°47' E	144.59'	341.80'	145.89'
C3	N 01°37' E	213.94'	558.21'	215.27'
C4	N 19°01' W	294.18'	836.94'	295.72'

FILE NUMBER \_\_\_\_\_

DRAWING NUMBER BRYAN\_WP\_N-7HM

SCALE 1" = 2500'

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: SEPTEMBER 19, 2017  
REVISED DATE: AUGUST 14, 2018

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

OPERATORS WELL NO. BRYAN N-7HM  
API WELL NO. 47-051-01978 MDP  
STATE WV COUNTY MARSHALL PERMIT 01978 MDP

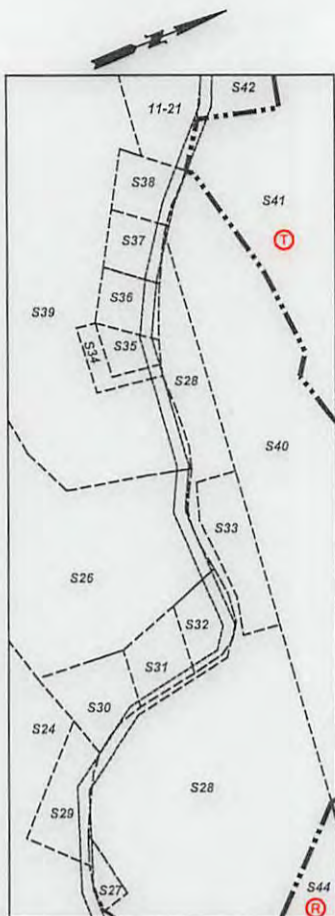
LOCATION ELEVATION 1191.0' WATERSHED (HUC 10) Fish Creek  
DISTRICT Franklin COUNTY Marshall  
QUADRANGLE Powhatan Point 7.5' LEASE NUMBER \_\_\_\_\_ SEE WW-6A1 Form

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 X CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION \_\_\_  
PERFORMATE NEW FORMATION \_\_\_ OTHER PHYSICAL CHANGE (SPECIFY) \_\_\_\_\_

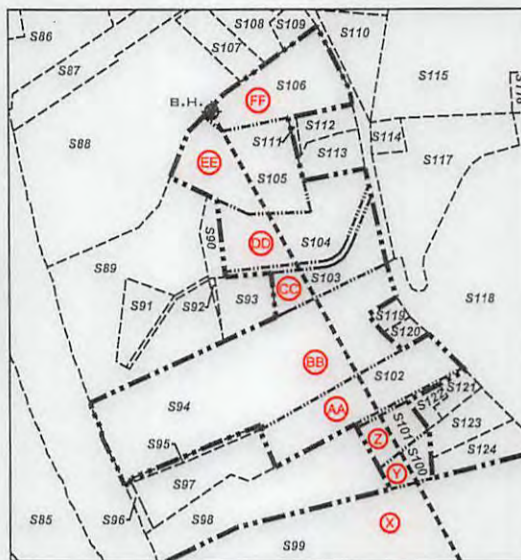
TARGET FORMATION Marcellus PLUG & ABANDON \_\_\_ CLEAN OUT & REPLUG \_\_\_  
ESTIMATED DEPTH TVD: 6,596' TMD: 22,277'  
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD  
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME  
PERMIT

# BRYAN LEASE WELL N-7HM 921.878± ACRES



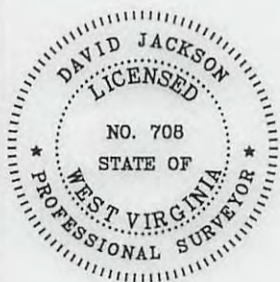
DETAIL "A"  
SCALE 1"=500'



DETAIL "C"  
SCALE 1"=500'



DETAIL "B"  
SCALE 1"=250'



P.S.  
708

*David L Jackson*



## TUG HILL OPERATING

OPERATOR'S  
WELL #: Bryan N-7HM  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV

WELL PLAT  
PAGE 2 OF 3  
DATE: 9/19/2017  
REVISED DATE:  
8/14/18