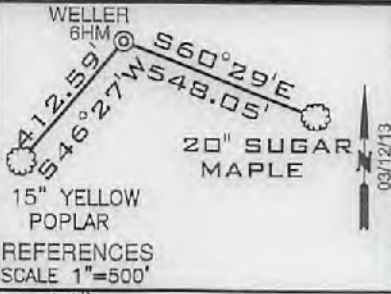


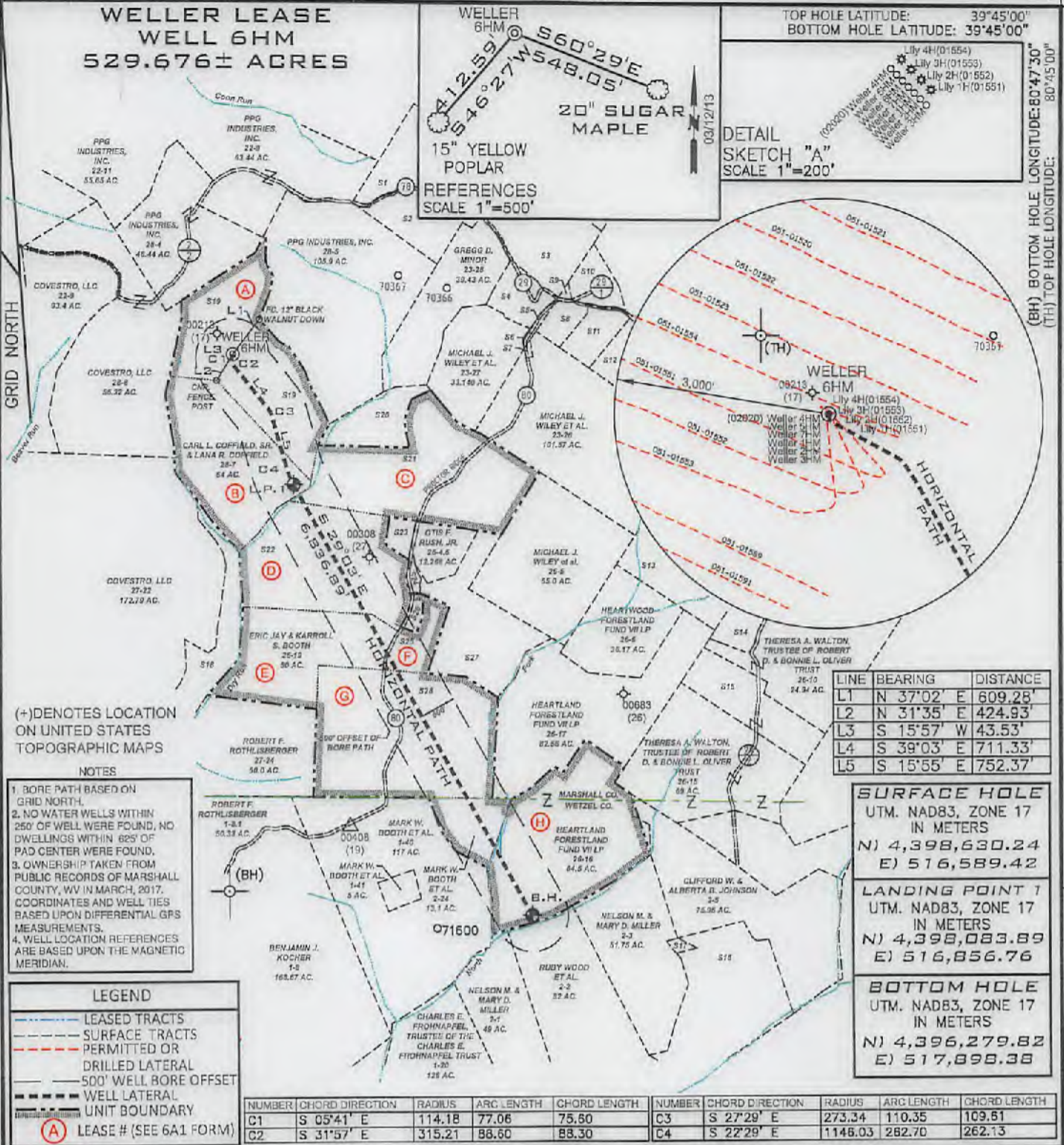
47051 02038

WELLER LEASE WELL 6HM 529.676± ACRES



TOP HOLE LATITUDE: 39°45'00"
BOTTOM HOLE LATITUDE: 39°45'00"

DETAIL SKETCH "A"
SCALE 1"=200'



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

- 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 37°02' E	609.28'
L2	N 31°35' E	424.93'
L3	S 15°57' W	43.53'
L4	S 39°03' E	711.33'
L5	S 15°55' E	752.37'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,630.24
E) 516,589.42

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,083.89
E) 516,856.76

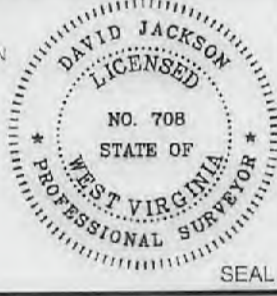
BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,396,279.82
E) 517,898.38

NUMBER	CHORD DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH	NUMBER	CHORD DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH
C1	S 05°41' E	114.18	77.06	75.50	C3	S 27°29' E	273.34	110.35	109.51
C2	S 31°57' E	315.21	88.60	88.30	C4	S 22°29' E	1146.03	282.70	262.13

FILE NUMBER _____
DRAWING NUMBER WELLER_WP_6HM
SCALE 1" = 2000'
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

P.S. 708
David L Jackson



JACKSON SURVEYING INC.
P.O. Box 1460
Clarksburg, WV 26302
304-823-5351

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

DATE: MARCH 22, 2018
OPERATORS WELL NO. WELLER 6HM
API WELL NO. 47-051-02038 *H6M*
STATE COUNTY PERMIT

LOCATION ELEVATION 1273.0' WATERSHED (HUC 10) French Creek - Ohio River
DISTRICT Franklin COUNTY Marshall
QUADRANGLE New Martinsville 7 1/2' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER Ula F. Nelson ACREAGE 70.0
OIL & GAS ROYALTY OWNER Ula F. Nelson LEASE ACREAGE 70.0
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD: 6,622' TMD: 14,113'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

06/15/2018


COUNTY NAME PERMIT

WW-9

PROPOSED WELLER 6HM

SUPPLEMENT PG 2



 TUG HILL OPERATING	OPERATOR	494510851	TOPO SECTION	LEASE NAME
	TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317		NEW MARTINSVILLE 7.5'	WELLER
			SCALE: 1" = 2000'	DATE: 03/12/2018

RECEIVED
Office of Oil and Gas
APR 17 2018
WV Department of
Environmental Protection