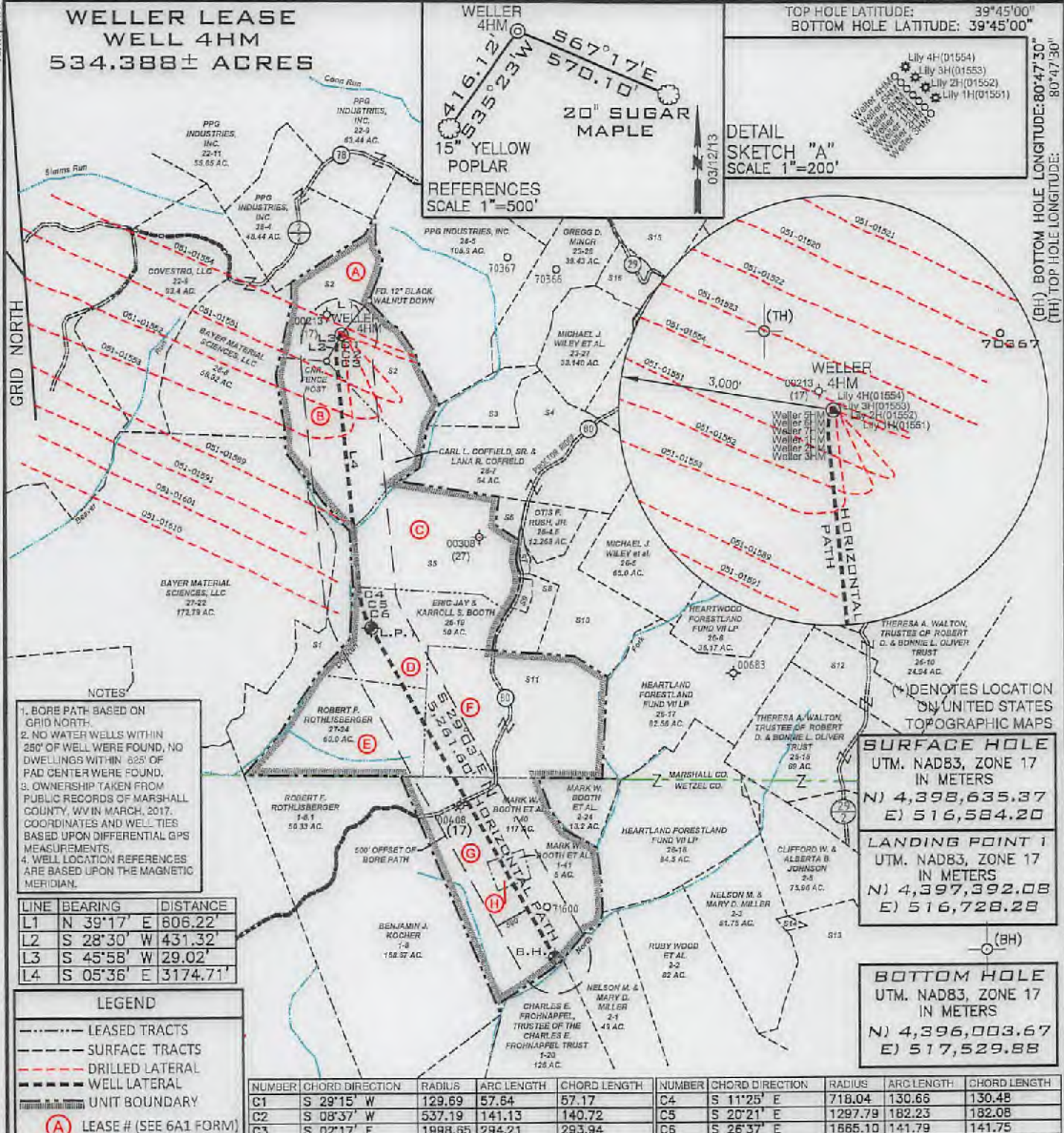
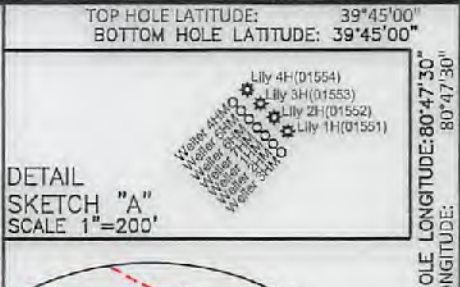
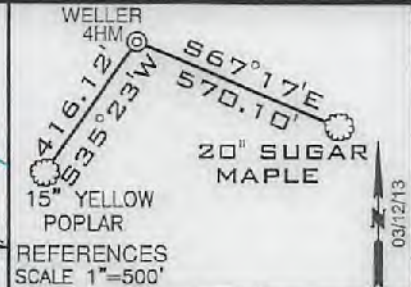


**WELLER LEASE  
WELL 4HM  
534.388± ACRES**



- 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.

LINE	BEARING	DISTANCE
L1	N 39°17' E	806.22'
L2	S 28°30' W	431.32'
L3	S 45°58' W	29.02'
L4	S 05°36' E	3174.71'

**LEGEND**

- LEASED TRACTS
- - - SURFACE TRACTS
- - - DRILLED LATERAL
- - - WELL LATERAL
- UNIT BOUNDARY

(A) LEASE # (SEE 6A1 FORM)

NUMBER	CHORD DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH	NUMBER	CHORD DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH
C1	S 29°15' W	129.69	57.64	57.17	C4	S 11°25' E	718.04	130.66	130.48
C2	S 08°37' W	537.19	141.13	140.72	C5	S 20°21' E	1297.79	182.23	182.08
C3	S 02°17' E	1998.65	294.21	293.94	C6	S 26°37' E	1865.10	141.79	141.75

(BH) BOTTOM HOLE LONGITUDE: 80°47'30"  
(TH) TOP HOLE LONGITUDE: 80°47'30"

(TH) 4,204'  
(BH) 1121'

(BH) 13,235'

(TH) 4,591'

IDENTIFIES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,398,635.37  
E) 516,584.20

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,397,392.08  
E) 516,728.28

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,396,003.67  
E) 517,529.88

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

DRAWING NUMBER WELLER\_WP\_4HM

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  
304-623-6651



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

DATE: February 14, 2018

OPERATORS WELL NO. WELLER 4HM

API WELL NO. 47-051-02020 #6A

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 Royalty Owners

SURFACE OWNER Ula F. Nelson ACREAGE 70.0

OIL & GAS ROYALTY OWNER Ula F. Nelson - See WW-6A1 Royalty Owners LEASE ACREAGE 70.0

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: 6,617' TMD: 13,404'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

06/15/2018

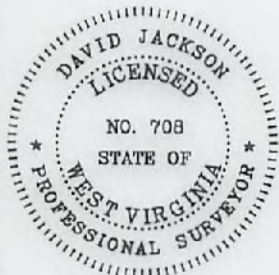
COUNTY NAME  
PERMIT

47 051 02020 Hbk

form. wv6

**WELLER LEASE  
WELL N-4HM  
534.388± ACRES**

Number	TAX MAP-PARCEL	SURFACE OWNERS	ACRES
S1	27-23	ROBERT F. ROTH LISBERGER	35.77
S2	28-6	ULA F. NELSON	70.00
S3	26-1	EDWIN BOOTH ANDERSON & MARK W. ANDERSON	12.94
S4	26-2	EDWIN BOOTH ANDERSON & MARK W. ANDERSON	67.50
S5	26-4.5	ERIC JAY BOOTH	74.388
S6	26-4	JAMES R. & MELODY A. ANDERSON	3.887
S7	26-4.2	OTIS S. & GLENDA RUSH	1.58
S8	26-4.1	OTIS S. RUSH ET UX.	12.188
S9	26-4.3	CRYSTAL & RANDOPH F. MATASK	2.253
S10	26-4.4	OTIS F. & GLENDA M. RUSH	39.436
S11	26-18	ERIC JAY BOOTH	94.00
S12	26-14	THERESA A. WALTON, TRUSTEE OF ROBERT D. & BONNIE L. OLIVER TRUST	27.56
S13	2-4	EDITH SALEM & LISA G. LARSON	56.25
S14	2-4.1	TYRONE SULTZBACH & RICHARD WOLF	1.00
S15	22-1	PATRICIA ACCETTOLO ET AL.	146.66
S16	23-26.2	MARK W. TENNANT ET AL.	10.80



P.S. 708

*David L Jackson*

06/15/2018



**TUG HILL  
OPERATING**

OPERATOR'S

WELL #: Weller 4HM

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

WELL PLAT

PAGE 2 OF 2

DATE: 02/14/2018