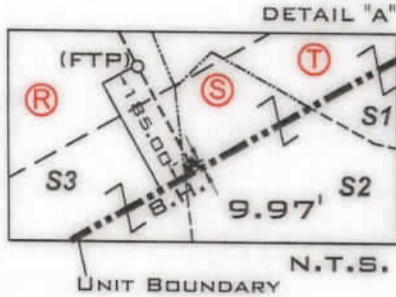
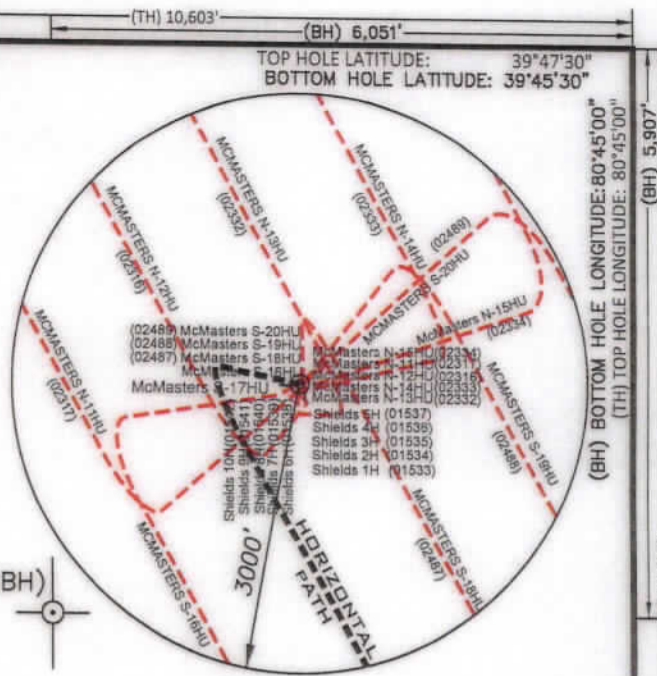
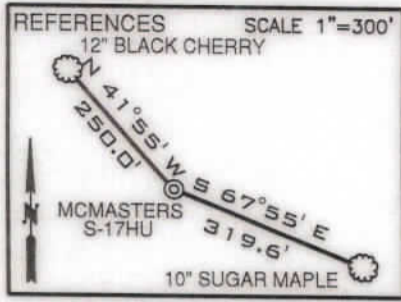


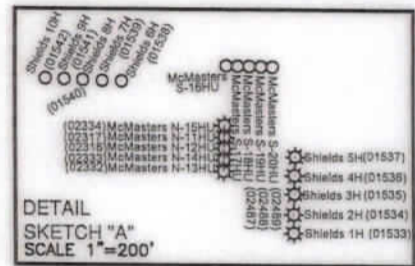
MCMASTERS S-17HU
UTICA UNIT - 300.3926± ACRES
TUG HILL OPERATING, LLC

LINE	BEARING	DISTANCE
L1	N 74°01' W	1416.19'
L2	S 39°24' W	1350.54'
L3	N 79°02' W	34.93'
L4	N 77°59' W	834.91'



LEGEND

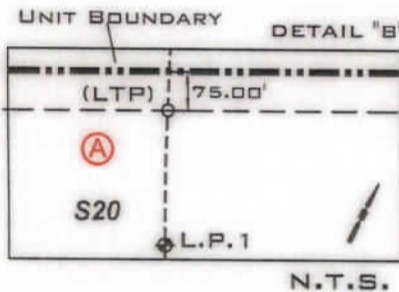
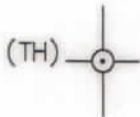
- LEASE TRACTS
- - - SURFACE TRACTS
- - - WELL LATERAL
- - - POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT



(*) 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, 2023. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
- WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
- ALL DEEP WELLS SHOWN ON THIS PLAT.
- BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147
- THE FTP AND LTP ARE OVER 500' PERPENDICULAR FROM THE UNIT BOUNDARY LINE.



CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 86°00' W	25.26'	19.09'	27.59'
C2	S 09°59' W	32.08'	77.14'	32.31'
C3	S 09°10' E	97.47'	398.12'	97.71'
C4	S 18°56' E	265.41'	1946.44'	265.61'
C5	S 25°53' E	405.99'	3575.21'	406.20'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,175.26
E) 518,200.94

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,400,997.32
E) 518,020.85

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,241.30
E) 519,596.24

FILE NUMBER _____
DRAWING NUMBER: MCMASTERS_S-17HU_REV2
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
304-623-5851



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

DATE: APRIL 06, 2023

OPERATORS WELL NO. MCMASTERS S-17HU
API WELL NO. _____

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

47-051-02498 HGA
STATE COUNTY PERMIT

LOCATION ELEVATION 1207.50' WATERSHED (HUC 10) FISH CREEK (HUC-10)

DISTRICT FRANKLIN COUNTY MARSHALL

QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER ROBERT L. SHIELDS, ET AL ACREAGE 104.11

OIL & GAS ROYALTY OWNER ROBERT L. SHIELDS, ET AL LEASE ACREAGE 104.11

PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____

PLUG & ABANDON ___ CLEAN OUT & REPLUG ___

TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,396' TMD: 22,100'

WELL OPERATOR TUG HILL OPERATING, LLC
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DESIGNATED AGENT DARREN BROWN, CT CORP
ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

05/11/2023

COUNTY NAME PERMIT

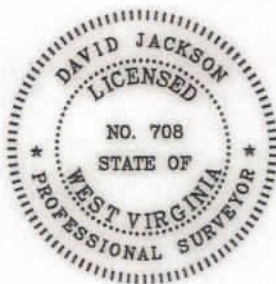
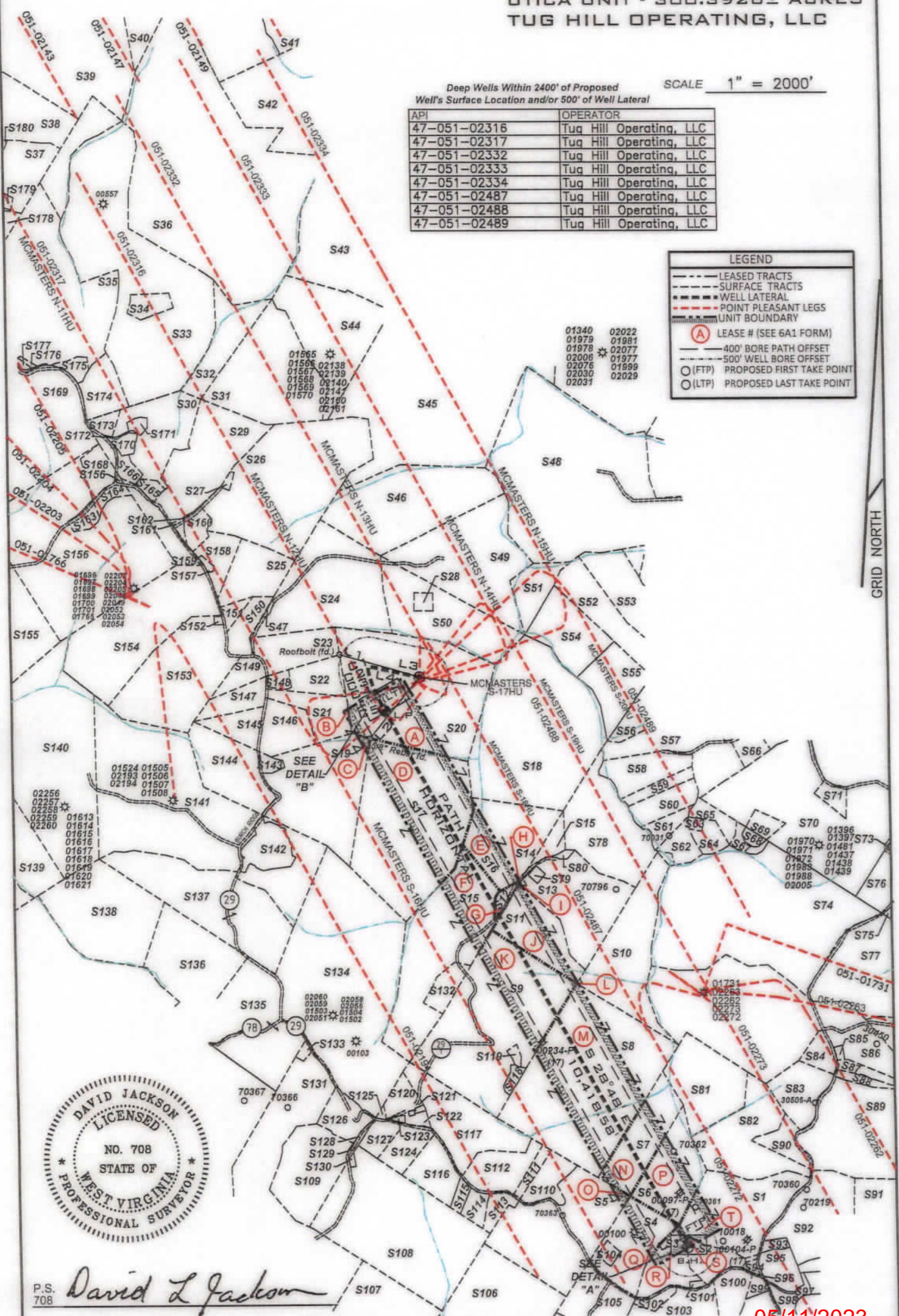
MCMASTERS S-17HU
UTICA UNIT - 300.3926± ACRES
TUG HILL OPERATING, LLC

Deep Wells Within 2400' of Proposed
Well's Surface Location and/or 500' of Well Lateral

SCALE 1" = 2000'

API	OPERATOR
47-051-02316	Tug Hill Operating, LLC
47-051-02317	Tug Hill Operating, LLC
47-051-02332	Tug Hill Operating, LLC
47-051-02333	Tug Hill Operating, LLC
47-051-02334	Tug Hill Operating, LLC
47-051-02487	Tug Hill Operating, LLC
47-051-02488	Tug Hill Operating, LLC
47-051-02489	Tug Hill Operating, LLC

LEGEND	
---	LEASED TRACTS
---	SURFACE TRACTS
---	WELL LATERAL
---	POINT PLEASANT LEGS
---	UNIT BOUNDARY
(A)	LEASE # (SEE 6A1 FORM)
---	400' BORE PATH OFFSET
---	500' WELL BORE OFFSET
(O) (FTP)	PROPOSED FIRST TAKE POINT
(O) (LTP)	PROPOSED LAST TAKE POINT



P.S. 708 *David L Jackson*

05/11/2023



TUG HILL
OPERATING

OPERATOR'S
WELL #: MCMASTERS S-17HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02498

WELL PLAT
PAGE 2 OF 4
DATE: 04/06/2023

MCMASTERS S-17HU
UTICA UNIT - 300.3926± ACRES
TUG HILL OPERATING, LLC

Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Book	Page
10*14116	5-18-2	A	DONALD SHIELDS, ET AL	669	367
10*14295	5-19-17	B	MARK E. YOHO AND MARY YOHO	655	546
10*14295	5-19-18	C	MARK E. YOHO AND MARY YOHO	655	546
10*14295	5-18-24	D	MARK E. YOHO AND MARY YOHO, ET AL	655	546
10*14022	5-18-22	E	DENISE D WAYNE AND HOWARD N WAYNE SR	665	384
10*14022	5-23-2	F	DENISE D WAYNE AND HOWARD N WAYNE SR	665	384
10*19145	5-23-2.1	G	WILLIAM L WAYNE & JANICE M WAYNE	706	87
10*17145	5-18-21.1	H	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685	458
10*17145	5-18-21	I	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685	458
10*17145	5-23-3	J	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685	458
10*14849	5-23-4	K	DAVID GUSTELY, ET AL	806	265
10*17186	5-23-6	L	ROBERT J HENRY	708	51
10*14847	5-23-5	M	LETHA RUCKMAN, ET AL	806	270
10*17192	5-23-8	N	ROBERT J HENRY, ET AL	716	193
10*18343	5-23-14	O	DOMINION ENERGY TRANSMISSION INC	936	79
10*17189	5-23-9.3	P	ROBERT J HENRY	716	197
10*17189	5-23-9.2	Q	ROBERT J HENRY	716	197
10*14786	5-23-13	R	TWILA O WHIPKEY, ET AL	799	61
10*14786	5-23-11.4	S	TWILA O WHIPKEY, ET AL	799	61
10*14786	5-23-11.1	T	TWILA O WHIPKEY, ET AL	799	61

Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S20	05-18-02	ROBERT L SHIELDS & DONALD SHIELDS	104.11
B	S21	05-19-17	MARK A. YOHO	15.263
C	S19	05-19-18	DAVID E. YOHO	55.948
D	S17	05-18-24	DUANE BRUNN	102.0
E	S16	05-18-22	JASON PALERMO & WENDY MOORE	30.345
F	S15	05-23-02	DANIEL J. LILLEY	70
G	S12	05-23-2.1	WILLIAM L & JANICE M WAYBE	2.364
H	S14	05-18-21.1	JASON PALERMO & WENDY MOORE	5.47
I	S13	05-18-21	CURTIS E. & MICHELLE J. HALL	32.569
J	S11	05-23-03	PROCTOR RIDGE, LLC	50.0
K	S9	05-23-04	PROCTOR RIDGE, LLC	100.7
L	S10	05-23-06	JAMES A. CHANNING, ET AL	48.0
M	S8	05-23-05	DANIEL D. RHYAND	118.5
N	S7	05-23-08	CARL DAVID & SUZANNE L. GUSEMAN	29.5
O	S5	05-23-14	DOMINION TRANSMISSION, INC.	59.5
P	S6	05-23-9.3	LINDA D. GREATHOUSE	17.5
Q	S4	05-23-9.2	LINDA D. GREATHOUSE	25.58
R	S3	05-23-13	LINDA D. GREATHOUSE	14.24
S	S2	05-23-11.4	KENNETH L. LEMON, TRUSTEE FOR JEFFREY G. HUDSON	10.879
T	S1	05-17-11.1	JOHN H. & SONYA D. HOLLIDAY	67.0
Adjoining Parcels Ownership Table				
	Number	Tax Map -Parcel	Surface Owner	Acres
	S18	05-18-23	XCL MIDSTREAM OPERATING, LLC	110.0
	S22	05-19-16	ROBERT L. SHIELDS & DONALD SHIELDS	11.61
	S23	05-19-14	JAMES A. & SHERRY BEEGLE	18.356
	S24	05-18-01	DIANA HENRY HAYNES & CAROL C. HENRY	62.908
	S25	05-19-30	ERNIE & TAMMY ANDERSON	19.037
	S26	05-19-13	RONA LEE RICE & CHARLES FRANKLIN MCCARDLE	94.925
	S27	05-19-13.1	DONALD SHIELDS	0.800
	S28	05-18-3.1	NIKKI L. & JONATHAN STEVENS	2.223
	S29	05-19-8	CNX RCPC LLC	40.00
	S30	05-19-07	OLAN V RUTAN ET UX	32.4801
	S31	05-14-15	ROBERT L. SHIELDS ET AL	53.00
	S32	05-14-14	ROBERT L. SHIELDS & DONALD SHIELDS	29.05
	S33	05-14-12	DALE E. GALLAGHER & HARRY E. GALLAGHER	135.10
	S34	05-14-12.1	HENRY WILSON PLUNKERT JR.	5.0
	S35	05-14-10	WANDA P. RINE - LIFE	107.37
	S36	05-14-13	RALPH D. & SALLY JANE HOYT	222.18
	S37	05-14-9.2	MARIA T. FLORES	25.00
	S38	05-12-21	EDWARD L. GIBSON - LIFE	73.436
	S39	05-12-14	LINDA HAMILTON ET AL	117.495
	S40	05-12-12.1	LIONEL L. PERSINGER ET UX	117.495



P.S. 708

David L Jackson

05/11/2023



TUG HILL
OPERATING

OPERATOR'S
 WELL #: MCMASTERS S-17HU
 DISTRICT: Franklin
 COUNTY: Marshall
 STATE: WV
 API #: 47-051-

WELL PLAT
PAGE 3 OF 4
DATE: 04/06/2023

4705102498

MCMASTERS S-17HU
UTICA UNIT - 300.3926± ACRES
TUG HILL OPERATING, LLC

Table with 4 columns: Number, Tax Map -Parcel, Surface Owner, Acres. Lists 110 parcels with owner names and acreage.

Table with 4 columns: Number, Tax Map -Parcel, Surface Owner, Acres. Lists 110 parcels with owner names and acreage.



P.S. 708 David L Jackson

4705102498 05/11/2023



OPERATOR'S
WELL #: MCMASTERS S-17HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-

WELL PLAT
PAGE 4 OF 4
DATE: 04/06/2023