

MCMASTERS S-18HU  
UTICA UNIT - 543.5974± ACRES  
TUG HILL OPERATING

TOP HOLE LATITUDE: 39°47'30"  
BOTTOM HOLE LATITUDE: 39°45'00"

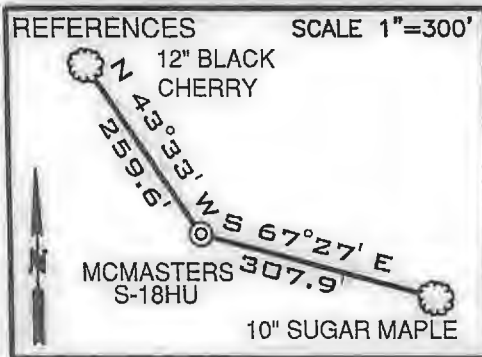
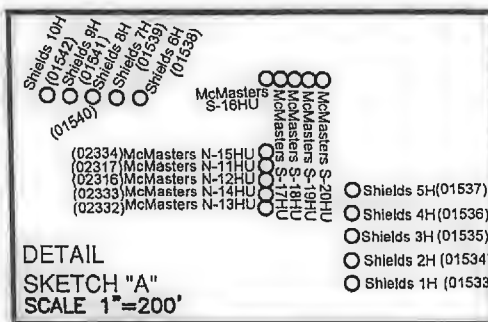


Table with columns: LINE, BEARING, DISTANCE. Rows L1 to L4.



02/10/2023

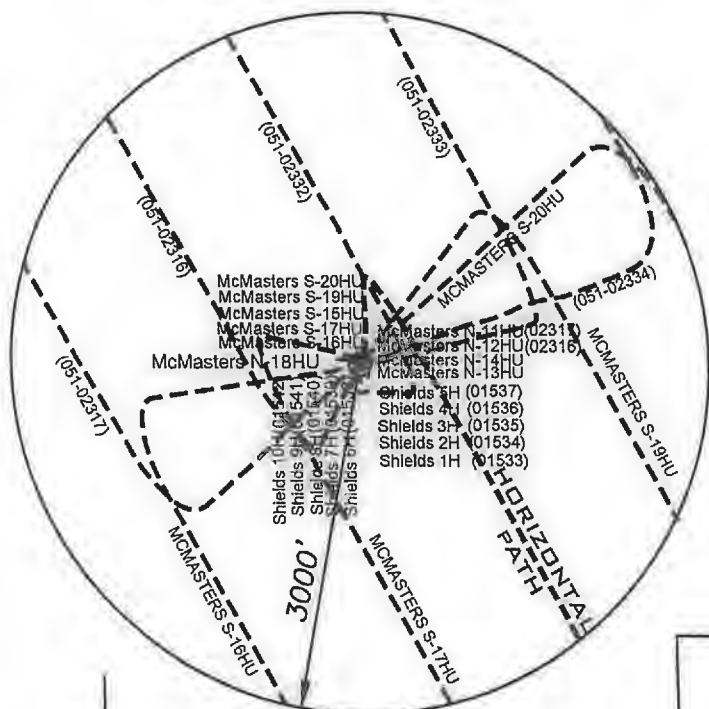


Table with columns: SURFACE HOLE, LANDING POINT 1, BOTTOM HOLE. Values in UTM NAD83, Zone 17 meters.

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

LEGEND table with symbols for LEASE TRACTS, SURFACE TRACTS, WELL LATERAL, etc.

NOTES

- 1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND...
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2019.
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
5. ALL DEEP WELLS SHOWN ON THIS PLAT.
6. BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147

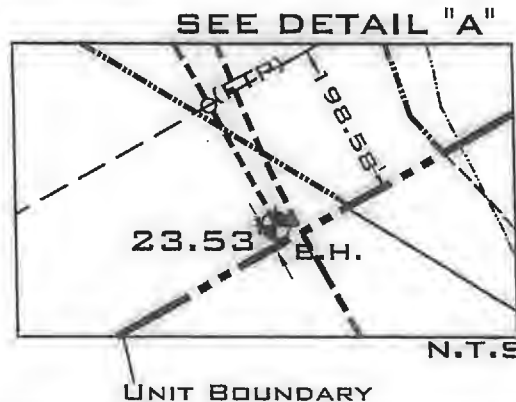


Table with columns: CURVE, CHORD BEARING, CHORD LENGTH, RADIUS, ARC LENGTH. Rows C1 to C6.

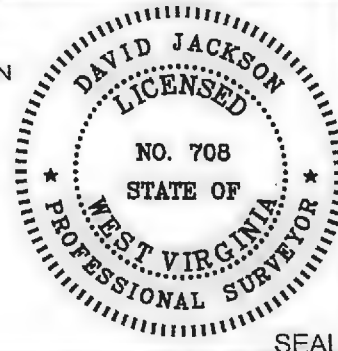
FILE NUMBER, DRAWING NUMBER: MCMASTERS S-18HU\_REV2, SCALE 1" = 2000', MINIMUM DEGREE OF ACCURACY 1/200, PROVEN SOURCE OF ELEVATION SUBMETER MAPPING GRADE GPS

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

Signature: David L Jackson

P.S. 708

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: JANUARY 06, 2023 OPERATORS WELL NO. MCMASTERS S-18HU API WELL NO. 47-051-02487 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: 11,416' TMD: 18,590' WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

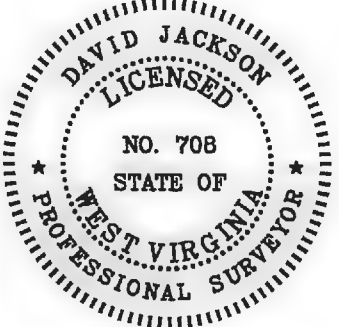
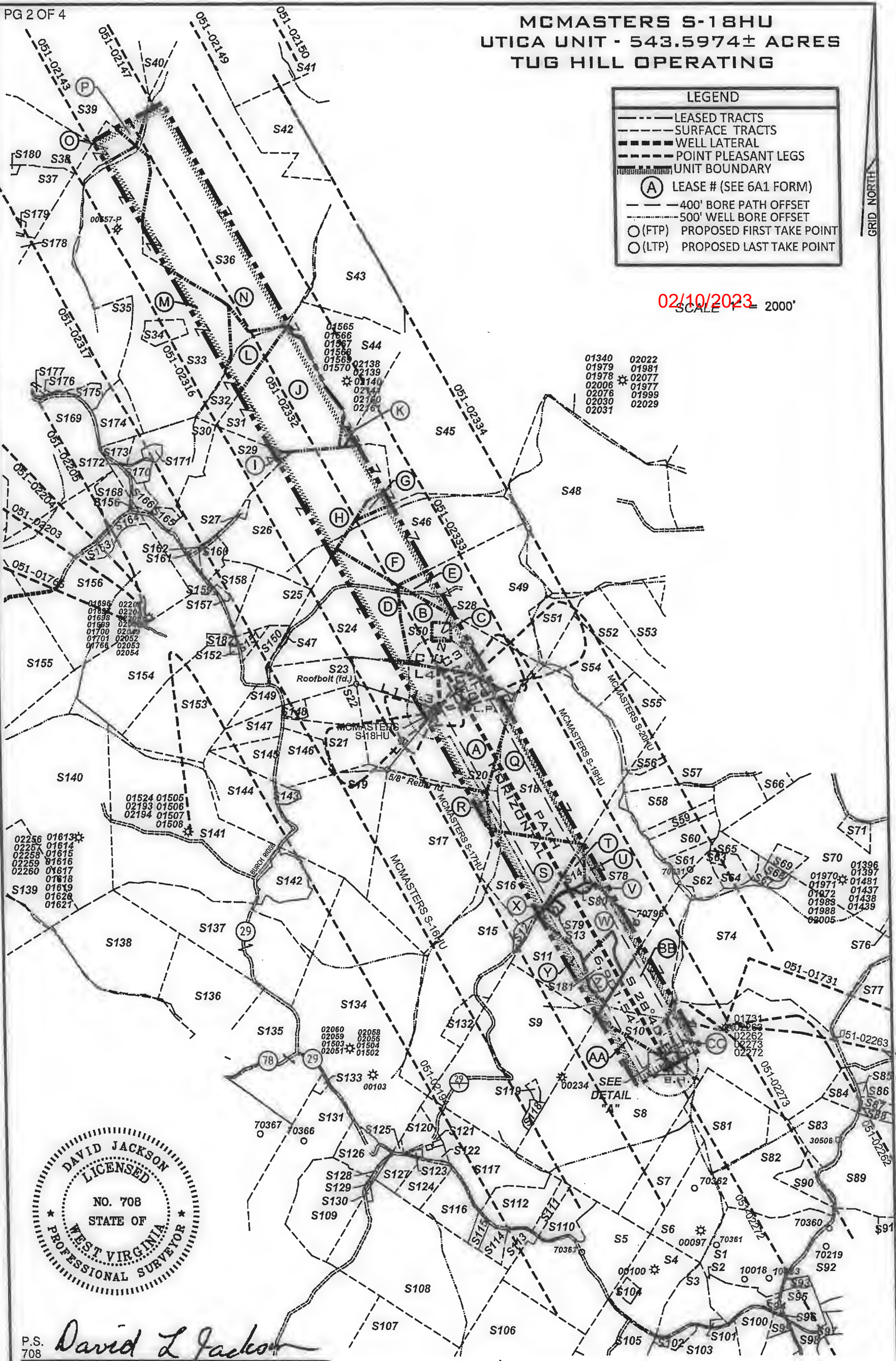
COUNTY NAME PERMIT

# MCMASTERS S-18HU UTICA UNIT - 543.5974± ACRES TUG HILL OPERATING

**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

02/10/2023  
SCALE 1" = 2000'



P.S. 708 *David L Jackson*



## TUG HILL OPERATING

OPERATOR'S  
WELL #: MCMASTERS S-18HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API #: 47-051-02487

WELL PLAT  
PAGE 2 OF 4  
DATE: 12/21/2022

**MCMASTERS S-18HU  
UTICA UNIT - 543.5974± ACRES  
TUG HILL OPERATING**

Adjoining Parcel's Ownership Table			
Number	Tax Map - Parcel	Surface Owner	Acres
51	05-23-11.1	JOHN H. & SONYA D. HOLLIDAY	46.182
52	05-23-11.4	KENNETH L. LEMONS, TRUSTEE FOR JEFFERY G. HUDSON	10.879
53	05-23-13	LINDA D. GREATHOUSE	14.24
54	05-23-9.2	LINDA D. GREATHOUSE	25.58
55	05-23-14	DOMINION TRANSMISSION, INC.	59.5
56	05-23-9.3	LINDA D. GREATHOUSE	17.5
57	05-23-08	CARL DAVID & SUZANNE L. GIZMAN	100.7
59	05-23-04	PROCTOR RIDGE, LLC	2.364
512	05-23-2.1	WILLIAM L. & JANICE M. WAYNE	70
515	05-23-02	DANIEL J. & DANIELLE D. LILLEY	55.948
519	05-19-18	MARK E. YOHO, ET UX	15.263
521	05-19-17	MARK A. YOHO	11.612
522	05-19-16	ROBERT L. SHIELDS & DONALD SHIELDS	18.356
523	05-19-14	JAMES & SHERRY BEEGLE	19.037
525	05-19-30	ERNIE & TAMMY ANDERSON	0.800
527	05-19-13.1	DONALD SHIELDS	32.4801
530	05-19-07	OLAN V. RUTAN, ET UX	5.0
534	05-14-12.1	HENRY WILSON PLUNKERT JR.	25.0
537	05-14-9.2	MARIA T. FLORES	73.436
538	05-12-21	EDWARD L. GIBSON-LIFE	148.09
540	05-12-12.1	LINDA L. PERSINGER, ET UX	52.478
541	05-12-11	WESLEY R. BRYAN & WESLEY R. BRYAN II	93.0
542	05-11-15	LIONEL L. PERSINGER, EX UX	121.0
543	05-15-01	MARCUS SHARP	0.392
547	05-18-1.1	CHARLES F. & DIANA L. HAYNES	153.75
548	05-15-10	MARK STANLEY RUCKMAN	8.14
551	05-18-05	TERRY MELOTT	26.44
552	05-18-15.3	ADAM & JESSE L. ROBINSON	21.34
553	05-18-15.4	DAVID R. ANDERSON	26.0
554	05-18-06	ADAM & JESSE L. ROBINSON	24.22
555	05-18-07	ADAM & JESSE L. ROBINSON	17.768
556	05-18-16	ADAM & JESSE L. ROBINSON	11.054
557	05-18-13	SOUTHERN COUNTRY FARMS, INC.	15.79
558	05-18-59	SOUTHERN COUNTRY FARMS, INC.	5.46
559	05-18-30	MARY & DANIEL ROBINSON	10.88
560	05-18-13.10	CARL BERG	5.319
561	05-18-29	CARL G. BERG	6.94
562	05-18-31	JACOB RASTALL	1.165
563	05-18-32.1	LORI D. CARPENTER	5.335
564	05-18-32	JACOB RASTALL	5.545
565	05-18-13.8	LORI D. CARPENTER	5.343
566	05-18-33	SANDRA & GLENN WHISLER	3.33
567	05-17-12	JAMES & JILL C. CORLEY	1.67
568	05-17-12.1	WILLIAMS OHIO VALLEY MIDSTREAM, LLC	4.24
569	05-17-10.5	WILLIAMS OHIO VALLEY MIDSTREAM, LLC	92.61
570	05-17-10	JAMES A. CORLEY, ET AL	4.51
571	05-17-10.1	JAMES A. & JILL C. CORLEY	1.0
572	05-17-9.1	JERI J. WHITE	7.136
573	05-17-9.2	JERI J. WHITE	120.0
574	05-17-11	KENNETH N. CORLEY, ET UX	60.3
575	05-17-9.4	VICKI L. BOWEN HRS, JEREMY S. BOWEN -LIFE	12.478
576	05-17-9.3	JAMES A. & CORLEY, ET UX	67.0
577	05-17-11.1	RANDY W. FRANCIS, ET UX	34.0
581	05-23-8.1	WILLIAM & VIRGINIA ROUPE	38.244
582	05-24-5.4	THOMAS V. TUTTLE, ET UX	17.194
583	05-24-5.5	SONNY & LINDA TAGG	6.354
584	05-23-7.2	FLORELLA LOU WEIGAND	0.549
585	05-23-7.1	RANDY W. & JESSICA L. FRANCIS	4.6
587	05-24-5.1	JAMES D. WATKINS, ET UX	3.151
588	05-24-5.2	JAMES D. WATKINS, ET UX	145.78
589	05-24-5	ROBERT C. FRANCIS, ET UX (LIFE)	5.50
590	05-24-3.1	T.H. EXPLORATION II, LLC	42.84
591	05-24-06	TERRY E. SIMMS, ET UX	37.95
592	05-23-10	TERRY E. SIMMS, ET UX	1.835
593	05-23-11.7	BRYAN L. HUGGINS	1.154
594	05-23-11.2	KENNETH L. LEMONS TRUSTEE FOR JEFFREY G. HUDSON	8.475
595	05-23-11	ROY F. YOHO	0.094
596	05-23-11.6	T.H. EXPLORATION II, LLC	1.347
597	05-25-20.2	JAMES M. ZAMBOTTI	4.49
598	05-25-20.3	JAMES A. & J.O. C. ESTEP	2.25
599	05-23-11.8	ROY F. YOHO	11.29
5100	05-23-11.3	COLIN R. YOHO	0.75
5101	05-23-13.1	JAMES R. & PAMELA J. FERRELL	3.05
5102	05-23-12	MARK A. YOHO	89.25
5103	05-26-11	MARK A. YOHO	2.087
5104	05-23-9.4	JACKSON R. DAVIS SR.	23.376
5105	05-23-9.1	JOHN W. VAN ORDEN, ET UX	

02/10/2023

Parcels within Unit Boundary				
Tags	Number	Tax Map - Parcel	Surface Owner	Acres
A	520	05-18-02	ROBERT L. SHIELDS & DONALD SHIELDS	104.11
B	550	05-18-03	OLAN V. & PATRICIA E. RUTAN	43.677
C	528	05-18-3.1	NIKKI L. & JONATHAN STEVENS	2.223
D	524	05-18-01	DIANA HENRY HAYNES & CAROL C. HENRY	62.908
E	549	05-18-04	OLAN & PATRICIA RUTAN	65.89
F	546	05-15-11	DIANA HENRY HAYNES & CAROL HENRY	65.59
G	545	05-15-12	JOHN DAVID PETROCK & THOMAS ANDREW PETROCK	150.23
H	526	05-19-13	RONA LEE RICE & CHARLES FRANKLIN MCCARDLE	94.925
I	529	05-19-08	CNX RCPC, LLC	40.0
J	531	05-14-15	ROBERT L. SHIELDS & DONALD SHIELDS	53.0
K	544	05-15-15	ROBERT L. SHIELDS & DONALD SHIELDS	49
L	532	05-14-14	ROBERT L. SHIELDS & DONALD SHIELDS	29.05
M	533	05-14-12	DALE R. GALLAHER & HARRY E. GALLAHER	135.100
N	536	05-14-13	RALPH D. & SALLY JANE HOYT	222.18
O	535	05-14-10	WANDA P. RINE, LIFE	107.372
P	539	05-12-14	LINDA HAMILTON, ET AL	117.495
Q	518	05-18-23	XCL MIDSTEAM OPERATING, LLC	110.0
R	517	05-18-24	DUANE BRUNN	102.0
S	516	05-18-22	JASON PALERMO & WENDY MOORE	30.348
T	514	05-18-21.1	JASON PALERMO & WENDY MOORE	5.47
U	578	05-18-20	WAYNE E. CHANNING, ET AL	44.47
V	580	05-18-21.3	XCL MIDSTREAM OPERATING, LLC	0.811
W	513	05-18-21	CURTIS E. & MICHELLE J. HALL	32.569
X	579	05-18-21.2	DAVID P. LASSAN -LIFE	1.0
Y	511	05-23-03	PROCTOR RIDGE, LLC	50.0
Z	5181	05-18-21.4	DYLAN TYLAR HALL	10.55
AA	58	05-23-05	DANIEL D. RHYAND	118.5
BB	510	05-23-06	JAMES A. CHANNING, ET AL	48.0
CC	586	05-23-07	TERRY E. SIMMS, ET UX	123.097



P.S. 708 *David L Jackson*



OPERATOR'S WELL #:	MCMASTERS S-18HU	WELL PLAT
DISTRICT:	Franklin	PAGE 3 OF 4
COUNTY:	Marshall	DATE: 12/21/2022
STATE:	WV	
API #:	47-051-02487	

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**MCMASTERS S-18HU**  
**UTICA UNIT - 543.5974± ACRES**  
**TUG HILL OPERATING**

Lease ID	TMP	Tgt	Grantor, Lessor, Etc.	Deed Book/Page
10*14116	5-18-2	A	DONALD SHIELDS, ET AL	669 367
10*14109	5-18-3	B	MARTHA M RUTAN, ET AL	668 636
10*14108	5-18-3	C	MARTHA M RUTAN, ET AL	668 636
10*14142	5-18-1	D	BENJAMIN FRANKLIN HENRY, ET AL	718 498
10*19032	5-18-4	E	IAN L ARNOLD MARSHA A ARNOLD, ET AL	813 111
10*19018	5-15-11	F	BENJAMIN FRANKLIN HENRY FREDRICK ALLEN HENRY	746 5
10*19137	5-15-12	G	JACK PETROCK HATTIE PETROCK	741 56
10*14110	5-19-18	H	RONA LEE MCCARDLE, ET AL	870 472
10*14571	5-19-8	I	MATTHEW S & BRENDA S ANDERSON	840 165
10*14116	5-14-15	J	DONALD SHIELDS, ET AL	669 367
10*14116	5-14-15	K	DONALD SHIELDS, ET AL	669 367
10*14116	5-14-14	L	DONALD SHIELDS, ET AL	669 367
10*14928	5-14-12	M	JOSEPH D. PARRIOTT & NELLIE B. PARRIOTT, HUSBAND AND WIFE	660 517
10*14067	5-14-13	N	REVA FRANZE	696 51
10*14420	5-14-10	O	ELLIS V & WANDA P RIME	725 141
10*12769	5-12-14	P	BETTY HAMILTON, ET AL	957 419
10*14030	5-18-23	Q	LOIS V YOHO, ET AL	665 551
10*14295	5-18-24	R	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE, ET AL	655 548
10*14022	5-18-22	S	DENISE D WAYNE AND HOWARD N WAYNE SR	665 384
10*17145	5-18-21.3	T	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-20	U	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-21.8	V	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-21	W	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-18-21.2	X	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*17145	5-23-1	Y	JAMES J. CAMPBELL AND BETTY J CAMPBELL, ET AL	685 458
10*21369	5-18-21.4	Z	BARBARA BITTLE	934 641
10*14847	5-23-5	AA	LETHA RUCKMAN, ET AL	806 270
10*17186	5-23-6	BB	ROBERT J HENRY	708 51
10*14140	5-23-1	CC	TERRY S SIMMS AND DEBORAH L SIMMS	666 529

RECEIVED  
 Office of Oil and Gas  
**DEC 27 2022**  
 WV Department of  
 Environmental Protection



P.S. 708 *David L Jackson*

Adjoining Parcels Ownership Table			
Number	Tax Map (Parcel)	Surface Owner	Acres
S106	05-26-07	DOMINION TRANSMISSION, INC.	71.0
S107	05-26-05	MICHAEL J. WILEY, ET AL	65.0
S108	05-23-26	MICHAEL J. WILEY, ET AL	101.57
S109	05-23-27	MICHAEL J. WILEY, ET AL	23.14
S110	05-23-15	HENRY VIRGINIA ETHEL, ESTATE	15.5
S111	05-23-16.1	DONALD B. HENRY	1.97
S112	05-23-16	ROY FRIEND YOHO SR.	18.03
S113	05-23-17.3	TROY W. THOMAS & ERIN M. AN	4.62
S114	05-23-17	TAMMY & THOMAS E. BROWN	4.62
S115	05-23-17.4	TAMMY D. MEADOWS	2.605
S116	05-23-17.2	DICK ROWAN JR.	14.920
S117	05-23-18	PROCTOR RIDGE, LLC	35.38
S118	05-23-4.1	XCL MIDSTREAM OPERATING, LLC	2.16
S119	05-23-4.2	XCL MIDSTREAM OPERATING, LLC	1.17
S120	05-23-18.1	MARK A. YOHO	7.8
S121	05-23-19	DOTY CEMETERY	1.0
S122	05-23-20	CHRISTIAN CHURCH	0.19
S123	05-23-21	MARK A. YOHO & MARK E. YOHO	0.588
S124	05-23-17.1	CURTIS E. HALL, ET UX	10.051
S125	05-23-29	MICHAEL J. WILEY & MICHELLE BAKER	0.25
S126	05-23-28.2	GEORGE THOMAS THARP IV	10.8
S127	05-23-22	DANIEL D. RHYAND	6.25
S128	05-23-23	MICHAEL J. WILEY, ET AL	1.0
S129	05-23-24	MICHAEL J. WILEY, ET AL	0.25
S130	05-23-25	ARTHUR A. WILEY	0.43
S131	05-23-28	GREGG D. MINOR	39.43
S132	05-23-2.2	JESSICA N. & ANDREW L. JONES	7.636
S133	05-23-28.1	TROY W. & ERIN M. THOMAS	1.0
S134	05-23-01	PATRICIA ACCETTOLO, ET AL	146.66
S135	05-22-7.1	T.H. EXPLORATION II, LLC & XCL MIDSTREAM OPERATING, LLC	20.68
S136	05-22-08	T.H. EXPLORATION II, J LLC	48.44
S137	05-22-06	CNX RCPC, LLC	64.70
S138	05-22-10	T.H. EXPLORATION III, LLC	58.40
S139	05-22-17	CNX RCPC, LLC	37.5
S140	05-22-04	CNX RCPC, LLC	159.05
S141	05-22-05	CNX RCPC, LLC	134.425
S142	05-22-5.1	WILLIAMS OHIO VALLEY MIDSTREAM, LLC	12.875
S143	05-19-18.1	MARK E. YOHO, ET UX	2.57
S144	05-19-18.2	PAUL V. & CAROL NEELY	32.672
S145	05-19-25	DAVID E. YOHO & MARK E. YOHO	9.976
S146	05-19-24	DAVID E. YOHO	15.436
S147	05-19-26	ROGER J. & BETH E. JAMES	9.977
S148	05-19-16.1	ROBERT L. SHIELDS, REBECCA A. SHIELDS & ROBERTA CAMPBELL	2.307
S149	05-19-27	DAVID E. YOHO	7.041
S150	05-19-31	CHARLES F. & DIANA L. HAYNES	8.779
S151	05-19-30.1	ERIC R.W. & ASHLEY A. HUGGINS	2.911
S152	05-19-32	JASPER N. BURCH, ET AL-TRUSTEES	0.397
S153	05-19-28	DAVID E. YOHO	56.899
S154	05-19-19	RUSSELL & MARY BLAKE	64.148
S155	05-19-21	SAMMY E. WHITLATCH, ET AL	118.45
S156	05-19-20	WILBERT H. BUNGARD, ET UX	114.989
S157	05-19-15	CARLY HERRAN	0.72
S158	05-19-29	ERNIE L. & TAMMY L. ANDERSON	10.961
S159	05-19-09	PENNY ELAINE ASHCRAFT	10.44
S160	05-19-12	ERNIE L. ANDERSON, ET UX	5.33
S161	05-19-10	ERNIE L. ANDERSON, ET UX	0.8125
S162	05-19-11	ERNIE L. ANDERSON, ET UX	0.08
S163	05-19-20.3	SIDNEY HARMON	3.715
S164	05-19-20.1	JOHN J. EBERT-LIFE	3.848
S165	05-19-7.5	ADAM T. & JESSE L. ROBINSON	2.64
S166	05-19-7.1	ROBERT L. SHIELDS, ET UX	3.399
S168	05-19-20.2	CASANDRA L. HARMON	7.448
S169	05-19-05	MARGIRENE KEEFE	126.03
S170	05-19-7.2	OLAN RUTAN	2.783
S171	05-19-7.4	OLAN V. RUTAN, ET UX	1.787
S172	05-19-7.3	OLAN V. RUTAN, ET UX	0.341
S173	05-19-06	BELINDA KAY MEADOWS, REBECCA ANN SHIELDS & OLAN V. RUTAN	5.1099
S174	05-14-11	DALE R. GALLAHER & HARRY E. GALLAHER	12.0
S175	05-14-10.4	ADAM T. & JESSE L. ROBINSON	3.343
S176	05-14-10.2	RALPH RANDY HOYT	0.495
S177	05-14-10.1	RALPH RANDY HOYT	0.5
S178	05-14-9.5	MARIA T. FLORES	6.024
S179	05-14-9.1	MARIA T. FLORES	2.882
S180	05-14-17	HILDA DELORIS BAXTER	0.752
S182	05-19-19.1	RUSSELL & MARY BLAKE	2.252

OPERATOR'S WELL #:	MCMASTERS S-18HU	WELL PLAT
DISTRICT:	Franklin	PAGE 4 OF 4
COUNTY:	Marshall	DATE: 12/21/2022
STATE:	WV	
API #:	47-051-02487	



WW-9

# PROPOSED McMASTERS S-18HU

SUPPLEMENT PG 2



RECEIVED  
Office of Oil and Gas  
DEC 27 2022  
WV Department of  
Environmental Protection

NOTE CLOSEST WATER PURVEYOR  
GRANDVIEW - DOOLIN PUBLIC SERVICE  
DISTRICT PROCTOR, WV  
LAT 39.7136843  
LON -80.8260157  
LOCATED S 33-24 WAT 20 141' FROM  
McMASTERS S-18HU  
SURFACE LOCATION



OPERATOR	494510851	TOPO SECTION	LEASE NAME
TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317		POWHATAN POINT 7.5'	McMASTERS
		SCALE:	DATE:
		1" = 2000'	DATE: 6-4-2020