

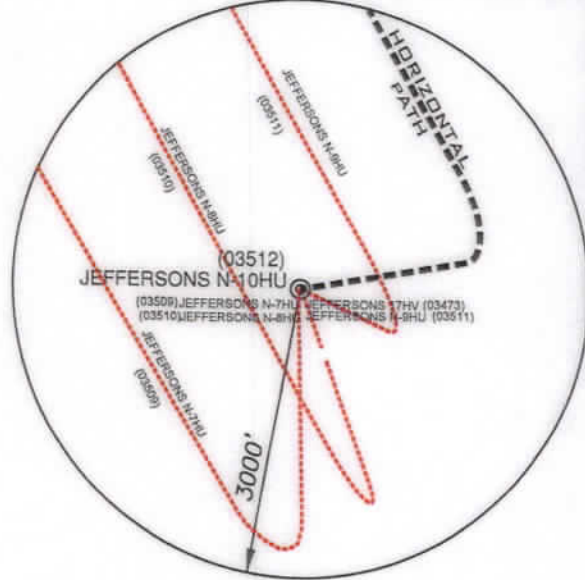
JEFFERSONS N-10HU  
UTICA UNIT - 462.8862± ACRES  
TUG HILL OPERATING

TOP HOLE LATITUDE: 39°42'30"  
BOTTOM HOLE LATITUDE: 39°45'00"

INSET "B"



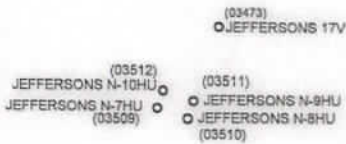
INSET "A"



(BH) BOTTOM HOLE LONGITUDE: 80°47'30"  
(TH) TOP HOLE LONGITUDE: 80°45'00"

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

DETAIL SKETCH "A" N.T.S.



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 WETZEL COUNTY, WV...
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
5. ALL DEEP WELLS WITHIN 1,000' ARE SHOWN ON THIS PLAT.
6. BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147
7. L.P. 1 & LTP ARE THE SAME POINT.



SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,393,022.02 E) 519,708.80
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,393,390.14 E) 520,213.27
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,397,500.15 E) 517,825.11

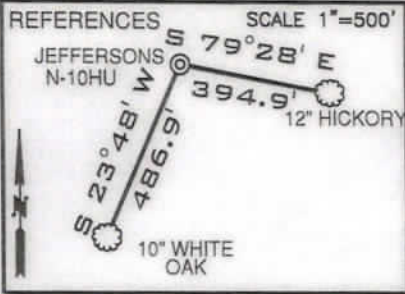


Table with 3 columns: LINE, BEARING, DISTANCE. Contains lines L1, L2, and L3 with their respective bearings and distances.

Table with 5 columns: CURVE, CHORD BEARING, CHORD LENGTH, RADIUS, ARC LENGTH. Contains curves C1 through C5 with their respective measurements.

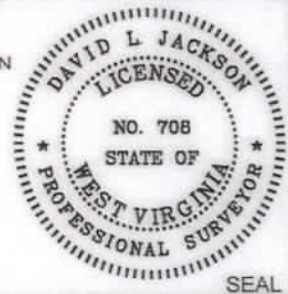
FILE NUMBER
DRAWING NUMBER: JEFFERSONS\_N-10HU\_REVO
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING, GRADE GPS

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: FEBRUARY 01, 2023
OPERATORS WELL NO. JEFFERSONS N-10HU
API WELL NO.

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

47-103-03512
STATE COUNTY PERMIT

LOCATION ELEVATION 1217.5' WATERSHED (HUC 10) PROCTOR CREEK OF FRENCH CREEK - OHIO RIVER (HUC-10)

DISTRICT PROCTOR COUNTY WETZEL
QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER EDWARD H. & JOAN E. ESTEP ACREAGE 92.302

OIL & GAS ROYALTY OWNER EDWARD H. & JOAN E. ESTEP - SEE WW-6A1 LEASE ACREAGE 92.302

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 POINT PLEASANT ESTIMATED DEPTH TVD: 11,699' TMD: 27,901'

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

05/26/2023

COUNTY NAME PERMIT

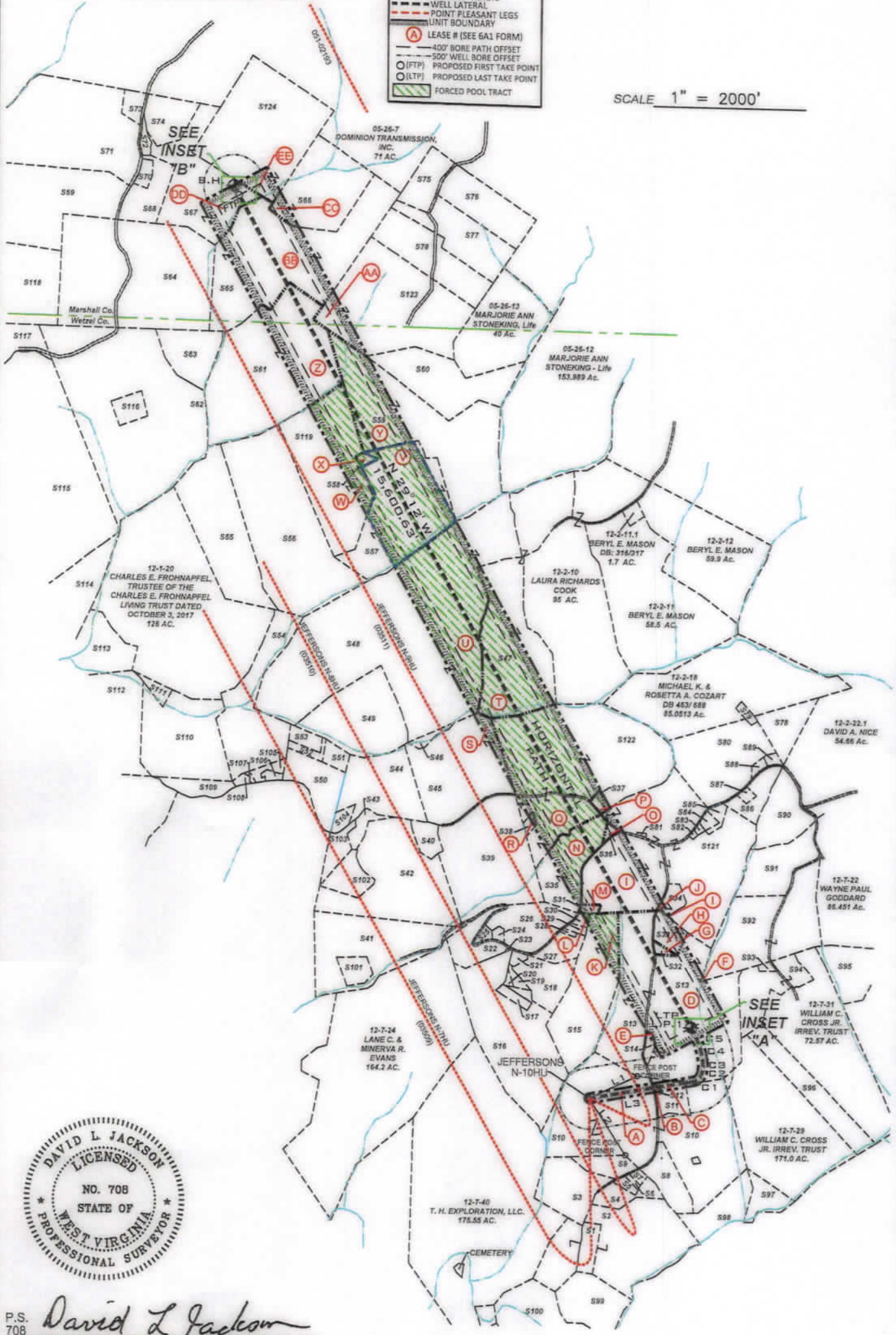


# JEFFERSONS N-10HU UTICA UNIT - 462.8862± ACRES TUG HILL OPERATING

**LEGEND**


- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE G&I FORM)
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT
- FORCED POOL TRACT

SCALE 1" = 2000'



P.S. 708 *David L Jackson*

05/26/2023

 <p><b>TUG HILL OPERATING</b></p>	OPERATOR'S	WELL PLAT
	WELL #: JEFFERSONS N-10HU	PAGE 2 OF 4
	DISTRICT: Proctor	DATE: 02/01/2023
	COUNTY: Wetzel	
	STATE: WV	
API #: 47-103-03512		



form ww6

**JEFFERSONS N-10HU  
UTICA UNIT - 462.8862± ACRES  
TUG HILL OPERATING**

Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S10	12-7-27	Edward H. & Joan E. Estep	92.302
B	S12	12-7-43	Furbee Cemetery	1.11
C	S11	12-7-27.1	Edward H. & Joan E. Estep	6.718
D	S13	12-7-20	Jeffrey A. & Paula J. Gorby	104.72
E	S14	12-7-28	Palmer Cemetery	0.98
F	S92	12-7-21	Alena R. & Michael J. Fayad, III	58
G	S32	12-7-20.2	Peter R. Tamborello & Annis E. Ponikvar	0.9
H	S33	12-7-20.1	Peter R. Tamborello & Annis E. Ponikvar	5.18
I	S121	12-7-7	T.H. Exploration, LLC.	117.27
J	S34	12-7-7.4	Charles Lee & Betty J. Huggins	4
K	S15	12-7-19	Jeffery S. Underwood & Velvet K. Parks	41.4
L	S30	12-7-18	Anthony M. & Elizabeth G. Parks	1
M	S31	12-7-7.6	William E. & Glenda E. Kaufman	1.55
N	S35	12-7-5	Matthew D. Arrick	20.37
O	S36	12-7-6	Stacy E. Briner	0.25
P	S37	12-7-51	Jean J. Eller	1.25
Q	S122	12-2-17	Randy F. Eller	97.75
R	S38	12-7-52	Brent J. & Sara L. Eller	10.25
S	S45	12-7-4	Rodney G. Eller	46.7
T	S47	12-2-9	Laura Richards Cook	77
U	S48	12-2-8	Laura Richards Cook	185.125
V	S57	12-2-4	Edith Salem & Lisa G. Larson	56.25
W	S119	12-2-3	Nelson M. & Mary D. Miller	51.72
X	S58	12-2-4.1	Tyrone Sultzbach & Richard Wolf	1
Y	S59	12-2-5	Clifford W. & Alberta B. Johnson	75.96
Z	S61	05-26-16	Heartwood Forestland Fund VII LP	82.5
AA	S123	05-26-15	Theresa H. Walton, as Trustee of the Robert D. & Bonnie L. Oliver Trust	69
BB	S65	05-26-17	Heartwood Forestland Fund VII LP	82.56
CC	S66	05-26-6	Heartwood Forestland Fund VII LP	36.17
DD	S67	05-26-4.4	Otis F. & Glenda M. Rush	39.436
EE	S124	05-26-05	Michael J. Wiley, Et Al	65

\* FORCED POOLED TRACTS ARE HIGHLIGHTED

Number	Tax Map -Parcel	Adjoining Parcels Ownership Table	Acres
51	12-7-44.1	James Foster	5.054
52	12-7-44	Yonsell Jay Eller III & Jennifer Lynn Eller	15.06
53	12-7-42.4	Peggy Lou & Albert Cecil - U/E Steven Mark Cecil, Et Al	17.333
54	12-7-42.5	James D. Furbee, II	6.43
55	12-7-42.2	April Fulgharty	1.072
56	12-7-42.3	James D. Furbee, II	0.528
57	12-7-42.1	James D. Furbee, II	1.21
58	12-7-27.2	Douglas I. & Patricia A. Pitts	10.73
59	12-7-42	James D. Furbee, II	6.5
516	12-7-26	T.H. Exploration, LLC.	59.89
517	12-7-26.1	Colby Dean Sidenstricker	2.01
518	12-7-17	Jeffery S. Underwood & Velvet K. Parks	13.43
519	12-7-17.2	T.H. Exploration, LLC.	1.29
520	12-7-17.1	T.H. Exploration, LLC.	0.521
521	12-7-16	Grant & Jennifer Throckmorton	1.1
522	12-7-15	Rost Energy Company, Inc.	22.63
523	12-7-15.7	T.H. Exploration III, LLC.	0.68
524	12-7-15.2	Billy Sweeney	1.8
525	12-7-15.3	Billy Sweeney	1.26
526	12-7-15.1	Billy Sweeney	10.72
527	12-7-15.6	Jeffery S. Underwood & Velvet K. Parks	5.923
528	12-7-15.5	Jimmy L. & Sharon Sue Colvin	0.46
529	12-7-15.4	Jimmy L. & Sharon Sue Colvin	0.97
530	12-7-4.1	Robert Joseph Coleman	55.81
540	12-7-59	Tanner Kelley	5
541	12-7-14	Matthew Rohr & Wayne Raber	32.74
542	12-7-3	Matthew Rohr & Wayne Raber	55.828
543	12-7-3.3	Robert Joseph Coleman	3.53
544	12-7-3.2	Lisa M. Haegele	28.47
546	12-7-8.1	Friend W. Parsons	0.5
549	12-2-16	Laura Lee Richards Cook	33
550	12-2-7	Jeremy W. & Sharon E. Heddison	19.8
551	12-2-15.1	Vivian A. Parsons, Et Al	3
552	12-2-15.2	Charles Phillip Parsons	2
553	12-2-15	Charles Phillip Parsons	3
554	12-2-7	John D. Annah	44.5
555	12-2-1	Roy Yoho	49
556	12-2-2	Ruby Wood, Et Al	82
560	12-2-6	Clifford W. & Alberta B. Johnson	36
562	12-01-40	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	117
563	12-2-24	Maggie Ann Rockwell, Mark W. Booth & George E. Booth, Jr.	13.1
564	05-26-18	Eric Jay Booth	94
568	05-26-4.1	Otis S. Rush, Et Al	12.188
569	05-26-19	Lois F. Booth & Eric Jay Booth	50
570	05-26-4.3	Crystal & Randolph F. Matask	2.253
571	05-26-4.5	Eric Jay Booth	74.388
572	05-26-4.2	Otis S. Rush, etax	1.58
573	05-26-4	James R. & Melody A. Anderson	3.887
574	05-26-4.6	Otis F. Rush Jr.	12.268
575	05-26-23	Richard Joseph Otte	11.34
576	05-26-9	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	21.75
577	05-26-10	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	24.94
578	05-26-14	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	27.56
579	12-2-25	Michael K. & Rosetta A. Cozart	1.265
580	12-2-20	Michael K. & Rosetta A. Cozart	34.0637
581	12-7-7.7	Gregory D. & Bobbie Jo Hughes	0.17
582	12-7-7.3	Robert N. & Deborah Sue Edwards	0.24
583	12-7-7.2	Robert N. & Deborah Sue Edwards	0.412
584	12-7-7.1	Mark E. Eller	1.41
585	12-7-7.5	Mark E. Eller	1.94
586	12-7-8.1	Brian & Christine L. Nice	7.628
587	12-7-8	Mark E. Eller	1.012
588	12-7-20.1	Shirley L. & Kenneth L. Haught	1
589	12-2-20.2	Michael K. Cozart	1.025
590	12-7-9.1	James T. Eddy	17.47
591	12-7-9	Michael J. & Alena R. Fayad	22.526
593	12-7-31.1	Nancy Jayne & Mark J. Davis	0.808
594	12-7-31.2	Nancy Jayne & Mark J. Davis	17.37
595	12-7-32.1	Charles & Judith Rose - U/E Charles D. Rose, Jr. Et Al	18
596	12-7-30	William C. Cross Jr. Irrev. Trust	19.75
597	12-7-46	William C. Cross Jr. Irrev. Trust	9.53
598	12-7-45	William C. Cross Jr. Irrev. Trust	17.24
599	12-7-44.2	Danny E. & Jill L. McKinney	19.46
S100	12-12-9	Rickey A. Farley	17.175
S101	12-7-14.1	W VA Dept of Highways	3.49
S102	12-7-3.4	Dru W. Bilts	8.253
S103	12-7-3.5	Robert Joseph Coleman	5.422
S104	12-7-3.1	Jeremy W. & Sharon E. Heddison	2.99
S105	12-7-57	John D. & Deborah L. Annah	2.33
S106	12-7-58	John D. & Deborah L. Annah	1.03
S107	12-7-56	Staria K. Richmond	0.3
S108	12-7-1	Tamara & William J. Wetzel	1
S109	12-6-52	John D. & Deborah L. Annah	6.46
S110	12-1-34	John D. & Deborah L. Annah	38
S111	12-1-34.1	Herbert Parsons & Virginia Yoho Roy	2
S112	12-1-32	Baxter Farms, LLC	78.74
S113	12-1-31	Steven Jack & Susan Louise Hafer	20
S114	12-1-19	Steven J. & Susan L. Hafer	36.5
S115	12-1-8	Benjamin J. Kocher	168.67
S116	12-1-41	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	5
S117	12-1-8.1	Robert F. Rothlisberger	05/26/2023
S118	05-27-24	Robert F. Rothlisberger	60.1
S120		Midcap School	



P.S. 708 *David L Jackson*



OPERATOR'S  
WELL #: JEFFERSONS N-10HU  
DISTRICT: Proctor  
COUNTY: Wetzel  
STATE: WV  
API #: 47-103-03512

WELL PLAT  
PAGE 3 OF 4  
DATE: 02/01/2023

form 996

**JEFFERSONS N-10HU  
 UTICA UNIT - 462.8862± ACRES  
 TUG HILL OPERATING**

LEASE ID	TMP	TAG	GRANTOR, LESSOR, ETC.	DEED BOOK/PAGE	
10*22042	12-7-27	A	EDWARD H ESTEP AND JOAN E ESTEP	210A	205
10*22042	12-7-43	B	EDWARD H ESTEP AND JOAN E ESTEP	129A	671
10*22042	12-7-27.1	C	EDWARD H ESTEP AND JOAN E ESTEP	210A	205
10*28422	12-7-20	D	COVESTRO LLC, ET AL	236A	577
10*28422	12-7-28	E	COVESTRO LLC, ET AL	236A	577
**FORCE POOL**	12-7-21	F	April D. Amrhein, ET AL	NA	NA
10*28422	12-7-20.2	G	COVESTRO LLC, ET AL	236A	577
10*28422	12-7-20.1	H	COVESTRO LLC, ET AL	236A	577
10*21510	12-7-7	I	BARBARA A SPRAGUE	197A	894
10*29090	12-7-7.4	J	CHARLES LEE HUGGINS AND BETTY JEAN HUGGINS	240A	460
**FORCE POOL**	12-7-19	K	BETTY WATSON HALL, ET AL	234A	362
**FORCE POOL**	12-7-18	L	TAMELA P WOOD AND JAMES G WOOD	NA	NA
10*21510	12-7-7.6	M	BARBARA A SPRAGUE	197A	894
**FORCE POOL**	12-7-5	N	ALLEN STEWART, ET AL	215A	809
10*23938	12-7-6	O	STACY E BRINER	215A	406
**FORCE POOL**	12-7-51	P	ALLEN STEWART, ET AL	215A	315
**FORCE POOL**	12-2-17	Q	ALLEN STEWART, ET AL	215A	315
**FORCE POOL**	12-7-52	R	ALLEN STEWART, ET AL	215A	315
**FORCE POOL**	12-7-4	S	BARBARA A EDDY, ET AL	173A	497
**FORCE POOL**	12-2-9	T	AARON DAVIS, ET AL	143A	517
**FORCE POOL**	12-2-8	U	AARON DAVIS, ET AL	143A	517
10*31102	12-2-4	V	JACKSON YOHO	56	240
10*31102	12-2-3	W	JACKSON YOHO	56	240
10*31102	12-2-4.1	X	JACKSON YOHO	56	240
**FORCE POOL**	12-2-5	Y	BETTY J FLANAGAN FKA BETTY J ECKLES, ET AL	176A	429
10*22286	5-26-16	Z	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP, ET AL	926	133
10*22341	5-26-15	AA	ROBERT D & BONNIE L OLIVER FAMILY TRUST THERESA A	965	488
10*22286	5-26-17	BB	VENABLE ROYALTY LTD A TEXAS LIMITED PARTNERSHIP, ET AL	926	133
10*22286	5-26-6	CC	VENABLE ROYALTY LTD AND VENRO LTD	926	133
10*17137	5-26-4.4	DD	MARK E SMITH AND VALERIE SMITH LIFE TENANT, ET AL	685	521
10*14742	5-26-5	EE	SUSAN E GORE, ET AL	790	505



P.S. 708

*David L Jackson*

05/26/2023



**TUG HILL  
 OPERATING**

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 WELL #: JEFFERSONS N-10HU  
 DISTRICT: Proctor  
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**WELL PLAT**  
**PAGE 4 OF 4**  
**DATE: 02/01/2023**