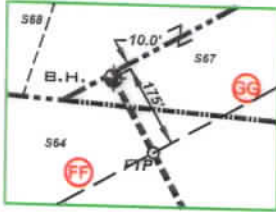
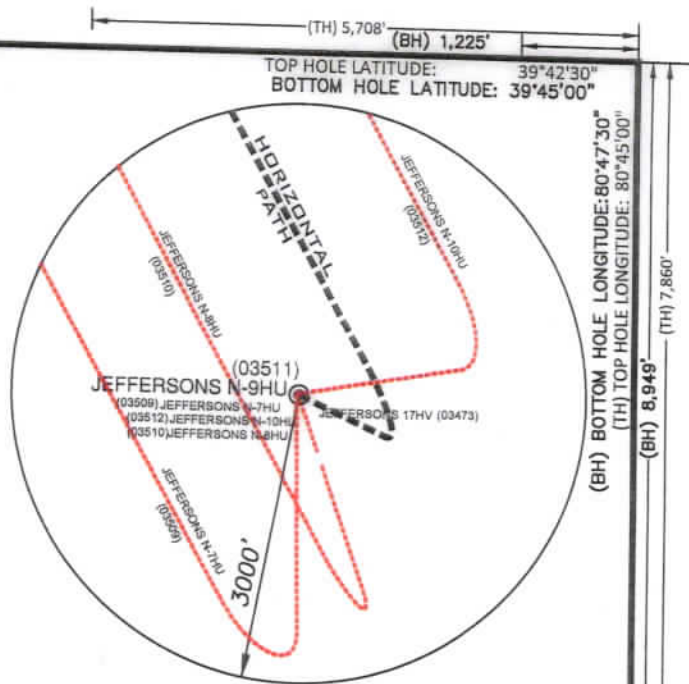


**JEFFERSONS N-9HU
UTICA UNIT - 485.4914± ACRES
TUG HILL OPERATING**

INSET "B"

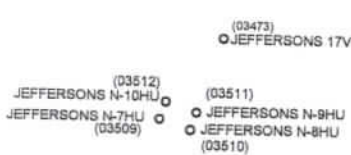


INSET "A"



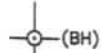
(*) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

DETAIL SKETCH "A" N.T.S.



NOTES

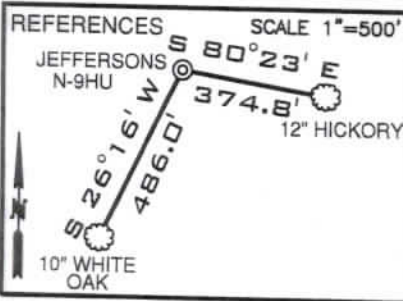
1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF WETZEL COUNTY, WV IN NOVEMBER, 2021. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
4. WELL LOCATION REFERENCES 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) 4,393,020.05
E) 519,714.89

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,393,134.11
E) 519,921.11

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,397,309.60
E) 517,495.08



LINE	BEARING	DISTANCE
L1	N 63°40' E	853.06'
L2	S 32°13' E	1072.60'
L3	S 65°16' E	988.95'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 81°46' E	47.76'	62.70'	49.00'
C2	N 37°26' E	38.38'	39.97'	40.03'
C3	N 01°08' E	65.18'	183.81'	65.53'
C4	N 13°11' W	129.19'	703.97'	129.37'
C5	N 21°28' W	262.67'	2035.22'	262.85'
C6	N 28°59' W	356.43'	4238.88'	356.54'

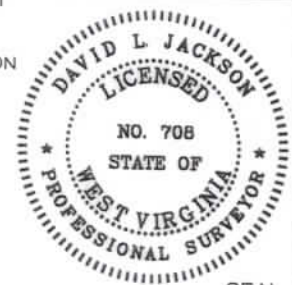
FILE NUMBER _____
DRAWING NUMBER: JEFFERSONS_N-9HU_REVO
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING
GRADE GPS

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



SEAL

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 X SHALLOW ___
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

DATE: FEBRUARY 01, 2023
OPERATORS WELL NO. JEFFERSONS N-9HU
API WELL NO. 47-103-03511
STATE COUNTY PERMIT

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 PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
ESTIMATED DEPTH TVD: 11,686' TMD: 27,917'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5098 WASHINGTON STREET WEST, SUITE 407
FORT WORTH, TX 76107 CHARLESTON, WV 25313-1561

05/26/2023

COUNTY NAME
PERMIT

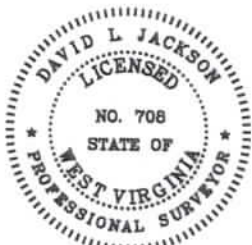
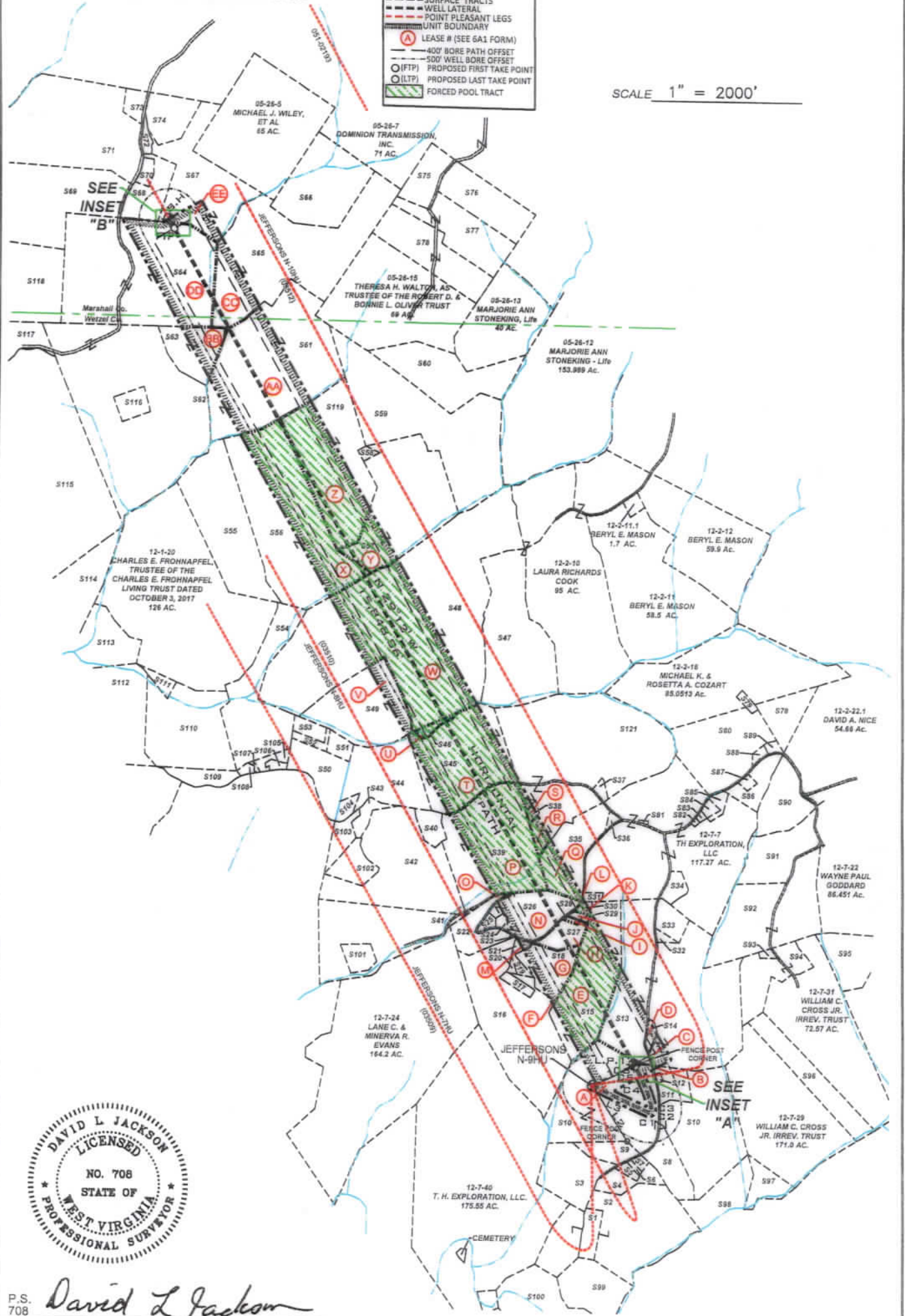
form wwb

**JEFFERSONS N-9HU
UTICA UNIT - 485.4914± ACRES
TUG HILL OPERATING**

LEGEND

- LEASED TRACTS
- - - SURFACE TRACTS
- - - WELL LATERAL
- - - POINT PLEASANT LEGS
- - - UNIT BOUNDARY
- (A) LEASE # (SEE SA1 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



TUG HILL
OPERATING

OPERATOR'S
WELL #: JEFFERSONS N-9HU
DISTRICT: Proctor
COUNTY: Wetzel
STATE: WV
API #: 47-103-03511

WELL PLAT
PAGE 2 OF 4
DATE: 02/01/2023

FORM WVC

**JEFFERSONS N-9HU
UTICA UNIT - 485.4914± 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	S11	12-7-27.1	Edward H. & Joan E. Estep	6.718
C	S13	12-7-20	Jeffrey A. & Paula J. Gorby	104.72
D	S14	12-7-28	Palmer Cemetery	0.98
E	S15	12-7-19	Jeffery S. Underwood & Velvet K. Parks	41.4
F	S16	12-7-26	T.H. Exploration, LLC.	59.89
G	S18	12-7-17	Jeffery S. Underwood & Velvet K. Parks	13.43
H	S27	12-7-15.6	Jeffery S. Underwood & Velvet K. Parks	5.923
I	S28	12-7-15.5	Jimmy L. & Sharon Sue Calvin	0.46
J	S29	12-7-15.4	Jimmy L. & Sharon Sue Calvin	0.97
K	S30	12-7-18	Anthony M. & Elizabeth G. Parks	1
L	S31	12-7-7.6	William E. & Glenda E. Kaufman	1.55
M	S21	12-7-16	Grant & Jennifer Throckmorton	1.1
N	S26	12-7-15.1	Billy Sweeney	10.72
O	S22	12-7-15	Rost Energy Company, Inc.	22.63
P	S39	12-7-4.1	Robert Joseph Coleman	55.81
Q	S35	12-7-5	Matthew D. Arrick	20.37
R	S121	12-2-17	Randy F Eller	97.75
S	S38	12-7-32	Brent J. & Sara L. Eller	10.25
T	S45	12-7-4	Rodney G. Eller	46.7
U	S46	12-2-8.1	Friend W. Parsons	0.5
V	S49	12-2-16	Laura Lee Cook	33
W	S48	12-2-8	Laura Richards Cook	185.125
X	S56	12-2-2	Ruby Wood, Et Al	82
Y	S57	12-2-4	Edith Salem & Lisa G. Larson	56.25
Z	S119	12-2-3	Nelson M. & Mary D. Miller	51.72
AA	S61	05-26-16	Heartwood Forestland Fund VII LP	82.5
BB	S63	12-2-24	Maggie Ann Rockwell, Merk W. Booth & George E. Booth, Jr.	13.1
CC	S65	05-26-17	Heartwood Forestland Fund VII LP	82.56
DD	S64	05-26-18	Eric Jay Booth	94
EE	S67	05-26-4.4	Otis F. & Glenda M. Rush	35.436

 * FORCED POOLED TRACTS ARE HIGHLIGHTED



P.S. 708 *David L Jackson*

Number	Tax Map -Parcel	Adjoining Parcel Ownership Table	Acres
51	12-7-44.1	James Foster	5.054
52	12-7-44	Yonself Jay Eller III & Jennifer Lynn Eller	15.06
53	12-7-42.4	Peggy Lou & Albert Cecil - L/E Steven Mark Cecil, Et Al	17.333
54	12-7-42.5	James D. Furbee, II	5.43
55	12-7-42.2	April Fuluaharty	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
512	12-7-43	Furbee Cemetery	1.11
517	12-7-26.1	Colby Dean Sidenstricker	2.01
519	12-7-17.2	T.H. Exploration, LLC.	1.29
520	12-7-17.1	T.H. Exploration, LLC.	0.521
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
532	12-7-20.2	Peter R. Tamborello & Annis E. Poniviar	0.9
533	12-7-20.1	Peter R. Tamborello & Annis E. Poniviar	5.18
534	12-7-7.4	Charles Lee & Betty J. Huggins	4
536	12-7-6	Stacy E. Briner	0.25
537	12-7-51	Jean J. Eller	1.25
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	3.33
544	12-7-3.2	Lisa M. Naegele	28.47
547	12-2-9	Laura Richards Cook	77
550	12-7-2	Jeremy W. & Sharon E. Heddelson	19.8
551	12-2-15.1	Vivian A. Parsons, Et Al	5
552	12-2-15.2	Charles Phillip Parsons	2
553	12-2-15	Charles Phillip Parsons	3
554	12-2-7	John D. Ammah	44.5
555	12-2-1	Roy Yoho	49
558	12-2-4.1	Tyrone Sultzbach & Richard Wolf	1
559	12-2-5	Clifford W. & Alberta B. Johnson	75.96
560	12-2-6	Clifford W. & Alberta B. Johnson	36
562	05-26-14	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	117
566	05-26-6	Heartwood Forestland Fund VII LP	36.17
568	05-26-4.1	Otis S. Rush, Et Al	12.188
569	05-26-19	Lois E. 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, etuk	1.58
573	05-26-4	James R. & Meloy 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	12-2-20.1	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. & Alma R. Fayad	22.526
592	12-7-21	Alena R. & Michael J. Fayad, III	58
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 - L/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. Bills	8.253
S103	12-7-3.5	Robert Joseph Coleman	5.422
S104	12-7-3.1	Jeremy W. & Sharon E. Heddelson	2.99
S105	12-7-57	John D. & Deborah L. Ammah	2.33
S106	12-7-58	John D. & Deborah L. Ammah	1.03
S107	12-7-56	Stacia K. Richmond	0.3
S108	12-7-1	Tammara & William J. Wetzel	1
S109	12-6-52	John D. & Deborah L. Ammah	6.45
S110	12-1-34	John D. & Deborah L. Ammah	38
S111	12-1-34.1	Herbert Parsons & Virginia Yoho Roy	2
S112	12-1-32	Baxter Farm, 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	50.33
S118	05-27-24	Robert F. Rothlisberger	60.1
S120		Midcap School	

05/26/2023



OPERATOR'S WELL #: JEFFERSONS N-9HU
 DISTRICT: Proctor
 COUNTY: Wetzel
 STATE: WV
 API #: 47-103-03511

WELL PLAT
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DATE: 02/01/2023

form wv6

**JEFFERSONS N-9HU
 UTICA UNIT - 485.4914± 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	12-7-27.1	B	EDWARD H ESTEP AND JOAN E ESTEP	210A 205
10*28422	12-7-20	C	COVESTRO LLC, ET AL	236A 577
10*28422	12-7-28	D	COVESTRO LLC, ET AL	236A 577
FORCE POOL	12-7-19	E	BETTY WATSON HALL, ET AL	234A 362
FORCE POOL	12-7-26	F	BETTY WATSON HALL, ET AL	234A 362
10*39154	12-7-17	G	ROST ENERGY COMPANY INC	269A 641
10*25310	12-7-15.6	H	JEFFERY S UNDERWOOD AND VELVET K PARKS	222A 145
10*28392	12-7-15.5	I	SHARON COLVIN AND JIMMY LEE COLVIN	202A 387
10*39154	12-7-15.4	J	ROST ENERGY COMPANY INC	269A 641
FORCE POOL	12-7-18	K	TAMELA P WOOD AND JAMES G WOOD	152A 181
10*21510	12-7-7.6	L	BARBARA A SPRAGUE	197A 894
10*39154	12-7-16	M	ROST ENERGY COMPANY INC	269A 641
10*23046	12-7-15.1	N	PHILIP H ESTEP	204A 164
10*39154	12-7-15	O	ROST ENERGY COMPANY INC	269A 641
FORCE POOL	12-7-4.1	P	BARBARA A EDDY, ET AL	173A 497
FORCE POOL	12-7-5	Q	ALLEN STEWART, ET AL	215A 809
FORCE POOL	12-2-17	R	ALLEN STEWART, ET AL	215A 315
FORCE POOL	12-7-52	S	ALLEN STEWART, ET AL	215A 315
FORCE POOL	12-7-4	T	BARBARA A EDDY, ET AL	173A 497
FORCE POOL	12-2-8.1	U	AARON DAVIS, ET AL	143A 517
10*31168	12-2-16	V	HERBERT L MILLER AND BRENDA S MILLER	173A 673
FORCE POOL	12-2-8	W	AARON DAVIS, ET AL	143A 517
FORCE POOL	12-2-2	X	BETTY J FLANAGAN FKA BETTY J ECKLES, ET AL	176A 429
10*31102	12-2-4	Y	JACKSON YOHO	56 240
10*31102	12-2-3	Z	JACKSON YOHO	56 240
10*22286	5-26-16	AA	VENABLE ROYALTY LTD AND VENRO LTD, ET AL	926 133
10*15088	12-2-24	BB	MARK W BOOTH, ET AL	154A 122
10*22286	5-26-17	CC	VENABLE ROYALTY LTD AND VENRO LTD, ET AL	926 133
10*19733	5-26-18	DD	GEORGE E BOOTH SR AND MARGARET E BOOTH, ET AL	944 575
10*17137	5-26-4.4	EE	MARK E SMITH AND VALERIE SMITH LIFE TENANT, ET AL	685 521



P.S. 708 *David L Jackson*

05/26/2023



**TUG HILL
 OPERATING**

OPERATOR'S
 WELL #: JEFFERSONS N-9HU
 DISTRICT: Proctor
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 STATE: WV
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WELL PLAT
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 DATE: 02/01/2023