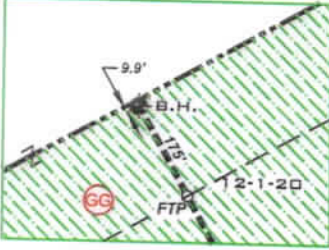


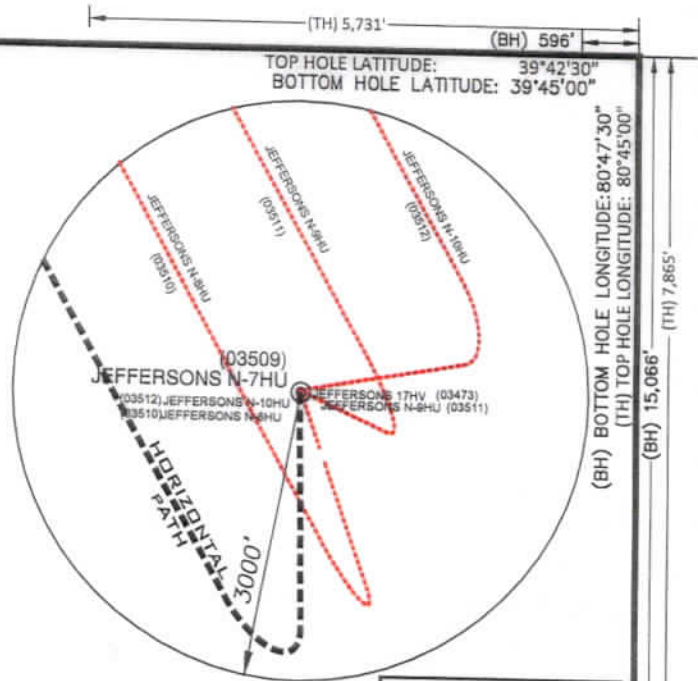
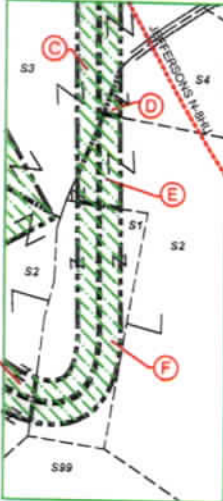
JEFFERSONS N-7HU
UTICA UNIT - 355.5645± ACRES
TUG HILL OPERATING

INSET "B"



INSET "A"

INSET "C"



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

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

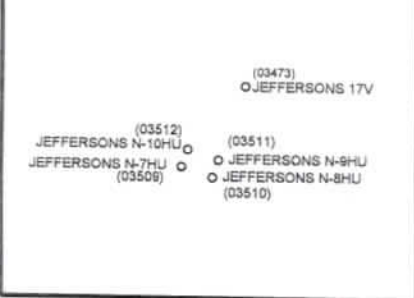
GRID NORTH

LEGEND

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

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

DETAIL SKETCH "A" N.T.S.

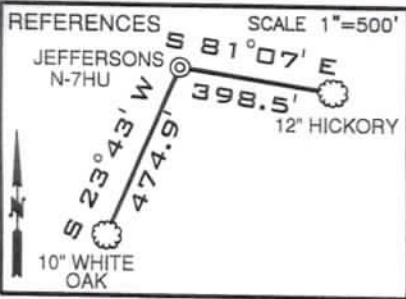


- NOTES**
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
 - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF WETZEL COUNTY, WV IN NOVEMBER, 2021. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 - ALL DEEP WELLS WITHIN 1,000' ARE SHOWN ON THIS PLAT.
 - BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 0058304.0401147
 - L.P.1 & LTP ARE THE SAME POINT.

SURFACE HOLE
 UTM. NAD83, ZONE 17
 IN METERS
 N) 4,393,018.54
 E) 519,707.68

LANDING POINT 1
 UTM. NAD83, ZONE 17
 IN METERS
 N) 4,392,356.64
 E) 519,490.01

BOTTOM HOLE
 UTM. NAD83, ZONE 17
 IN METERS
 N) 4,395,446.27
 E) 517,691.09



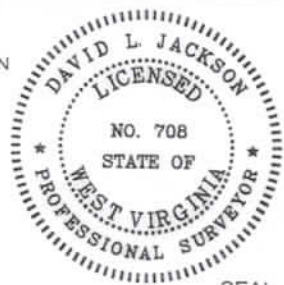
LINE	BEARING	DISTANCE
L1	N 64°05' E	876.39'
L2	S 33°25' E	1081.63'
L3	S 00°40' E	2458.69'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 06°55' W	130.02'	446.78'	130.48'
C2	S 31°02' W	103.57'	190.79'	104.89'
C3	S 69°03' W	83.84'	139.14'	95.72'
C4	N 78°20' W	118.38'	206.98'	119.35'
C5	N 69°39' W	157.93'	633.00'	158.35'
C6	N 49°35' W	289.06'	1088.05'	289.92'
C7	N 33°53' W	293.72'	1750.07'	294.07'

FILE NUMBER _____
 DRAWING NUMBER: JEFFERSONS_N-7HU_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

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: January 31, 2023
 OPERATORS WELL NO. JEFFERSONS N-7HU
 API WELL NO. 47-103-03509
 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 CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____
 TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,676' TMD: 24,482'
 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

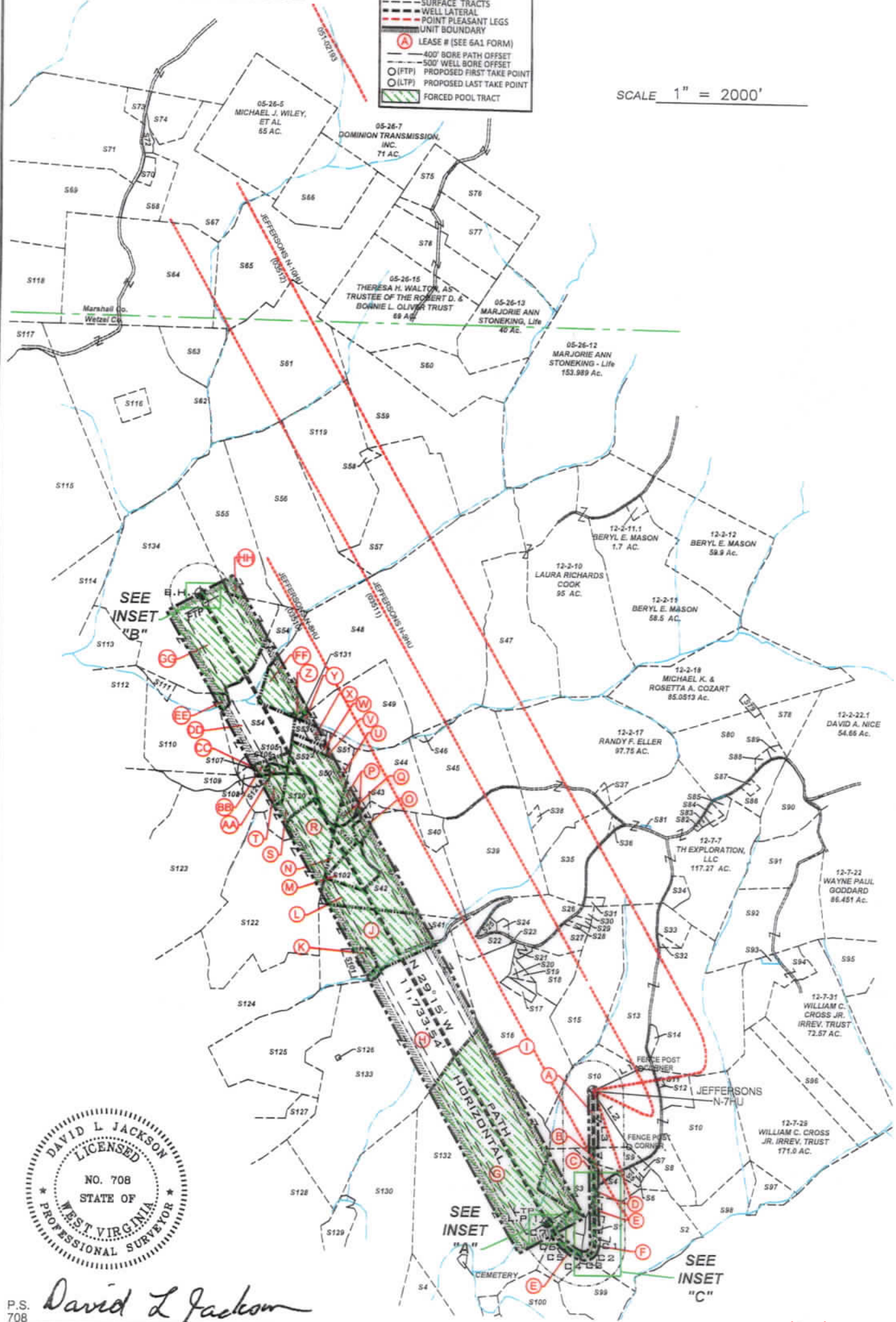
form: WVG

JEFFERSONS N-7HU UTICA UNIT - 355.5645± 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
- ▨ FORCED POOL TRACT

SCALE 1" = 2000'



P.S. 708
David L Jackson

05/26/2023

	OPERATOR'S	WELL PLAT
	WELL #: JEFFERSONS N-7HU	PAGE 2 OF 4
	DISTRICT: Proctor	DATE: 01/31/2023
	COUNTY: Wetzel	
	STATE: WV	
API #: 47-103-03509		

JEFFERSONS N-7HU
UTICA UNIT - 355.5645± ACRES
TUG HILL OPERATING

Parcels within Unit Boundary			
Tags	Number	Tax Map -Parcel	Surface Owner
A	S10	12-7-27	Edward H. & Joan E. Estep
B	S9	12-7-42	James D. Furbee, II
C	S3	12-7-42.4	Peggy Lou & Albert Cecil - L/E Steven Mark Cecil, Et Al
D	S4	12-7-42.5	James D. Furbee, II
E	S2	12-7-44	Yonsell Jay Eller III & Jennifer Lynn Eller
F	S1	12-7-44.1	James Foster
G	S132	12-7-40	T.H. Exploration, LLC.
H	S133	12-7-24	Lane C. & Minerva R Evans
I	S16	12-7-26	T.H. Exploration, LLC.
J	S41	12-7-14	Matthew Rohr & Wayne Raber
K	S101	12-7-14.1	W VA Dept of Highways
L	S42	12-7-3	Matthew Rohr & Wayne Raber
M	S102	12-7-3.4	Dru W. Bills
N	S103	12-7-3.5	Robert Joseph Coleman
O	S43	12-7-3.3	Robert Joseph Coleman
P	S44	12-7-3.2	Lisa M. Naegle
Q	S104	12-7-3.1	Jeremy W. & Shannon E. Hedderson
R	S122	12-07-53	EQT Production Company
S	S120	12-07-54	Jerry J. Richard
T	S121	12-07-55	Staria K. Richmond
U	S50	12-7-2	Jeremy W. & Shannon E. Hedderson
V	S51	12-2-15.1	Vivian A. Parsons, Et Al
W	S52	12-2-15.2	Charles Philip Parsons
X	S53	12-2-15	Charles Philip Parsons
Y	S49	12-2-16	Laura Lee Cook
Z	S131		Midcap School
AA	S106	12-7-58	John D. & Deborah L. Annah
BB	S105	12-7-57	John D. & Deborah L. Annah
CC	S107	12-7-56	Staria K. Richmond
DD	S54	12-2-7	John D. Annah
EE	S110	12-1-34	John D. & Deborah L. Annah
FF	S48	12-2-8	Laura Richards Cook
GG	S134	12-1-20	Charles E. Frohnapef, Trustee of the Charles E. Frohnapef Living Trust Dated October 3, 2017
HH	S55	12-2-1	Roy Yoho

Number	Tax Map -Parcel	Adjoining Parcels Ownership Table	Acres
S5	12-7-42.2	Aarli Fulaharty	1.072
S6	12-7-42.3	James D. Furbee, II	0.528
S7	12-7-42.1	James D. Furbee, II	1.21
S8	12-7-27.2	Douglas I. & Patricia A. Pitts	10.73
S11	12-7-27.1	Edward H. & Joan E. Estep	6.718
S12	12-7-43	Furbee Cemetery	1.11
S13	12-7-20	Jeffrey A. & Paula J. Gorby	104.72
S14	12-7-28	Palmer Cemetery	0.98
S15	12-7-19	Jeffery S. Underwood & Velvet K. Parks	41.4
S17	12-7-26.1	Colby Dean Sidenstricker	2.01
S18	12-7-17	Jeffery S. Underwood & Velvet K. Parks	13.43
S19	12-7-17.2	T.H. Exploration, LLC.	1.29
S20	12-7-17.1	T.H. Exploration, LLC.	0.521
S21	12-7-16	Grant & Jennifer Throckmorton	1.1
S22	12-7-15	Rost Energy Company, Inc.	22.63
S23	12-7-15.7	T.H. Exploration III, LLC.	0.68
S24	12-7-15.2	Billy Sweeney	1.8
S25	12-7-15.3	Billy Sweeney	1.26

* FORCED POOLED TRACTS ARE HIGHLIGHTED



P.S. 708 *David L Jackson*

Number	Tax Map -Parcel	Adjoining Parcels Ownership Table	Acres
S26	12-7-15.1	Billy Sweeney	10.72
S27	12-7-15.6	Jeffery S. Underwood & Velvet K. Parks	5.923
S28	12-7-15.5	Jimmy L. & Sharon Sue Calvin	0.46
S29	12-7-15.4	Jimmy L. & Sharon Sue Calvin	0.97
S30	12-7-18	Anthony M. & Elizabeth G. Parks	1
S31	12-7-7.6	William E. & Glenda E. Kaufman	1.55
S32	12-7-20.2	Peter R. Tamborello & Annis E. Ponikvar	0.9
S33	12-7-20.1	Peter R. Tamborello & Annis E. Ponikvar	5.18
S34	12-7-7.4	Charles Lee & Betsy J. Higgins	4
S35	12-7-5	Matthew D. Arrick	20.37
S36	12-7-6	Stacy E. Briner	0.25
S37	12-7-51	Jean J. Eller	1.25
S38	12-7-52	Brent J. & Sara L. Eller	10.25
S39	12-7-4.1	Robert Joseph Coleman	55.81
S40	12-7-59	Tanner Kelley	5
S45	12-7-4	Rodney G. Eller	46.7
S46	12-2-8.1	Friend W. Parsons	0.3
S47	12-2-9	Laura Richards Cook	77
S56	12-2-2	Ruby Wood, Et Al	82
S57	12-2-4	Edith Salem & Lisa G. Larson	56.25
S58	12-2-4.1	Tyrone Sultzbach & Richard Wolf	1
S59	12-2-5	Clifford W. & Alberta B. Johnson	75.96
S60	12-2-6	Clifford W. & Alberta B. Johnson	36
S61	05-26-16	Heartwood Forestland Fund VII LP	82.5
S62	05-26-14	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	117
S63	12-2-24	Maggie Ann Rockwell, Mark W. Booth & George E. Booth, Jr.	13.1
S64	05-26-18	Eric Jay Booth	94
S65	05-26-17	Heartwood Forestland Fund VII LP	82.56
S66	05-26-6	Heartwood Forestland Fund VII LP	36.17
S67	05-26-4.4	Otis F. & Glenda M. Rush	39.436
S68	05-26-4.1	Otis S. Rush, Rt Uk	12.188
S69	05-26-19	Lois E. Booth & Eric Jay Booth	50
S70	05-26-4.3	Crystal & Randolph F. Matask	2.253
S71	05-26-4.5	Eric Jay Booth	74.388
S72	05-26-4.2	Otis S. Rush, etux	1.58
S73	05-26-4	James R. & Melody A. Anderson	3.887
S74	05-26-4.6	Otis F. Rush Jr.	12.268
S75	05-26-23	Richard Joseph Otte	11.34
S76	05-26-9	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	21.75
S77	05-26-10	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	24.94
S78	05-26-14	Theresa H. Walton, as Trustee of The Robert D. & Bonnie L. Oliver Trust	27.56
S79	12-2-25	Michael K. & Rosetta A. Cozart	1.265
S80	12-2-20	Michael K. & Rosetta A. Cozart	34.0637
S81	12-7-7.7	Gregory D. & Bobbie Jo Hughes	0.17
S82	12-7-7.3	Robert N. & Deborah Sue Edwards	0.24
S83	12-7-7.2	Robert N. & Deborah Sue Edwards	0.412
S84	12-7-7.1	Mark E. Eller	1.41
S85	12-7-7.5	Mark E. Eller	1.94
S86	12-7-8.1	Brian & Christine L. Nice	7.628
S87	12-7-8	Mark E. Eller	1.012
S88	12-2-20.1	Shirley L. & Kenneth L. Haught	1
S89	12-2-20.2	Michael K. Cozart	1.025
S90	12-7-9.1	James T. Eddy	17.47
S91	12-7-9	Michael J. & Alena R. Fayad	22.526
S92	12-7-21	Alena R. & Michael J. Fayad, III	58
S93	12-7-31.1	Nancy Jayne & Mark J. Davis	0.808
S94	12-7-31.2	Nancy Jayne & Mark J. Davis	17.37
S95	12-7-32.1	Charles & Judith Rose - L/E, Charles D. Rose, Jr. Et Al	18
S96	12-7-30	William C. Cross Jr. Irrev. Trust	19.75
S97	12-7-46	William C. Cross Jr. Irrev. Trust	9.53
S98	12-7-45	William C. Cross Jr. Irrev. Trust	17.24
S99	12-7-44.2	Danny E. & Jill L. McKinney	19.46
S100	12-12-9	Rickey A. Farley	17.175
S108	12-7-1	Tammara & William J. Wetzel	1
S109	12-6-52	John D. & Deborah L. Annah	6.46
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
S119	12-02-03	Nelson M. & Mary D. Miller	51.72
S123	12-06-7.2	Brian Lyle & Beth Ann Hayes	82.36
S124	12-06-30	Ethyl Anderson, Est., Mark Anderson & David Michael Anderson	109.18
S125	12-07-23	Clegg Family Irrevocable Trust	47.61
S126	12-07-24.1	Grandview Doolin Public Service	0.13
S127	12-07-36	Clegg Family Irrevocable Trust	10.25
S128	12-07-37	Rost Energy Company, Inc.	79.75
S129	12-07-38	Rost Energy Company, Inc.	8.1
S130	12-07-39	Rost Energy Company, Inc.	55

05/26/2023



OPERATOR'S WELL #: JEFFERSONS N-7HU
 DISTRICT: Proctor
 COUNTY: Wetzel
 STATE: WV
 API #: 47-103-03509

WELL PLAT
 PAGE 3 OF 4
 DATE: 01/31/2023

form ww6

**JEFFERSONS N-7HU
UTICA UNIT - 355.5658± 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
FORCE POOL	12-7-42	B	BEVERLY J MATTHEWS, ET AL	197A	595
FORCE POOL	12-7-42.4	C	BEVERLY J MATTHEWS, ET AL	197A	595
FORCE POOL	12-7-42.5	D	BEVERLY J MATTHEWS, ET AL	197A	595
FORCE POOL	12-7-44	E	BRC APPALACHIAN MINERALS I LLC, ET AL	102A	505
FORCE POOL	12-7-44.1	F	BRC APPALACHIAN MINERALS I LLC, ET AL	102A	505
FORCE POOL	12-7-40	G	BETTY WATSON HALL, ET AL	234A	362
10*39048	12-7-24	H	DAVID S PALMER, ET AL	258A	213
FORCE POOL	12-7-26	I	BETTY WATSON HALL, ET AL	234A	362
FORCE POOL	12-7-14	J	CHRISTINA JO DAVIES FKN CHRISTINA JO YOHO, ET AL	174A	564
FORCE POOL	12-7-14.1	K	CHRISTINA JO DAVIES FKN CHRISTINA JO YOHO, ET AL	174A	564
FORCE POOL	12-7-3	L	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
FORCE POOL	12-7-3.4	M	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
FORCE POOL	12-7-3.5	N	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
FORCE POOL	12-7-3.3	O	ELIZABETH A BEACHELL, TRUSTEE OF THE MCCALL 2016 DELAWARE TRUST DTD 5/14/2016, ET AL	277A	615
FORCE POOL	12-7-3.2	P	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
FORCE POOL	12-7-3.1	Q	JOHN J MENSORE, TULANE B MENSORE, ESTA MARIE MCCALL AND JOHN J MENSORE, TRUSTEE UNDER JOHN J MENSORE REV TR DTD 7/12/2001, ET AL	151A	540
FORCE POOL	12-7-53	R	MAPW, LLC, ET AL	219A	484
FORCE POOL	12-7-54	S	RIDGETOP ROYALTIES, LLC, ET AL	170A	565
FORCE POOL	12-7-55	T	MAPW, LLC	219A	494
FORCE POOL	12-7-2	U	CAROL ANN EALY BRECKENRIDGE, ET AL	167A	749
10*18856	12-2-15.1	V	ROY FRIEND YOHO, ET AL	190A	118
10*18856	12-2-15.2	W	ROY FRIEND YOHO, ET AL	190A	118
10*22364	12-2-15	X	CHARLES PHILIP PARSONS, ET AL	221A	648
10*31168	12-2-16	Y	HERBERT L MILLER AND BRENDA S MILLER	173A	673
FORCE POOL	MIDCAP SCHOOL	Z	AARON DAVIS, ET AL	143A	517
FORCE POOL	12-7-58	AA	MAPW, LLC	219A	494
FORCE POOL	12-7-57	BB	MAPW, LLC	219A	494
FORCE POOL	12-7-56	CC	MAPW, LLC	219A	494
10*24617	12-2-7	DD	BETTY LOU GOUDY	220A	884
FORCE POOL	12-1-34	EE	ROY YOHO	168A	939
FORCE POOL	12-2-8	FF	AARON DAVIS, ET AL	143A	517
FORCE POOL	12-1-20	GG	SHIBEN ESTATES INC, ET AL	155A	629
FORCE POOL	12-2-1	HH	PATHFINDER RESOURCES LLC DBA RECON PATHFINDER LLC ET AL	275A	203



P.S. 708 *David L Jackson*

05/26/2023



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: JEFFERSONS N-7HU
DISTRICT: Proctor
COUNTY: Wetzel
STATE: WV
API #: 47-103-03509

WELL PLAT
PAGE 4 OF 4
DATE: 01/31/2023