

JEFFERSONS N-8HU  
UTICA UNIT - 338.8835± ACRES  
TUG HILL OPERATING

NOTES

1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 825' 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.

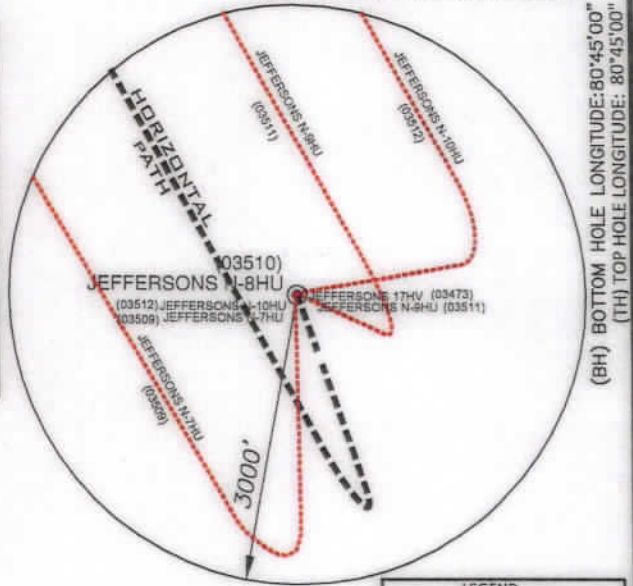
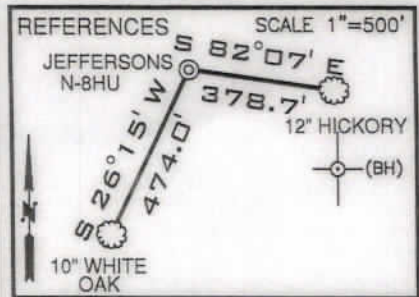
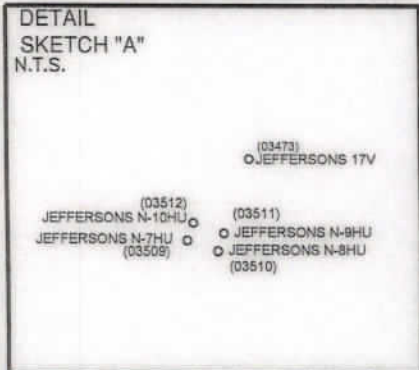
INSET "C"



INSET "A"



(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



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

**SURFACE HOLE**  
UTM. NAD83, ZONE 17 IN METERS  
N) 4,393,016.57  
E) 519,713.77

**LANDING POINT 1**  
UTM. NAD83, ZONE 17 IN METERS  
N) 4,392,547.16  
E) 519,789.59

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17 IN METERS  
N) 4,395,636.71  
E) 518,021.01

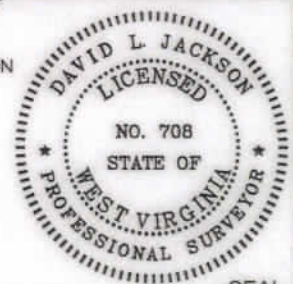
LINE	BEARING	DISTANCE
L1	N 63°06' E	861.61'
L2	S 32°44' E	1065.10'
L3	N 19°08' E	2102.76'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 15°35' E	141.80'	1005.87'	141.92'
C2	S 02°25' E	57.23'	167.43'	57.51'
C3	S 50°53' W	33.34'	21.71'	38.02'
C4	N 60°16' W	49.17'	106.24'	49.62'
C5	N 45°08' W	85.06'	554.16'	85.15'
C6	N 38°27' W	154.42'	1649.20'	154.48'
C7	N 32°00' W	532.32'	3726.33'	532.78'

FILE NUMBER \_\_\_\_\_  
DRAWING NUMBER: JEFFERSONS\_N-8HU\_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: JANUARY 31, 2023  
OPERATORS WELL NO. JEFFERSONS N-8HU  
API WELL NO. 47-103-03510  
STATE WV COUNTY WETZEL PERMIT \_\_\_\_\_

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

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: 11,694' TMD: 24,223'

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

05/26/2023

COUNTY NAME  
PERMIT

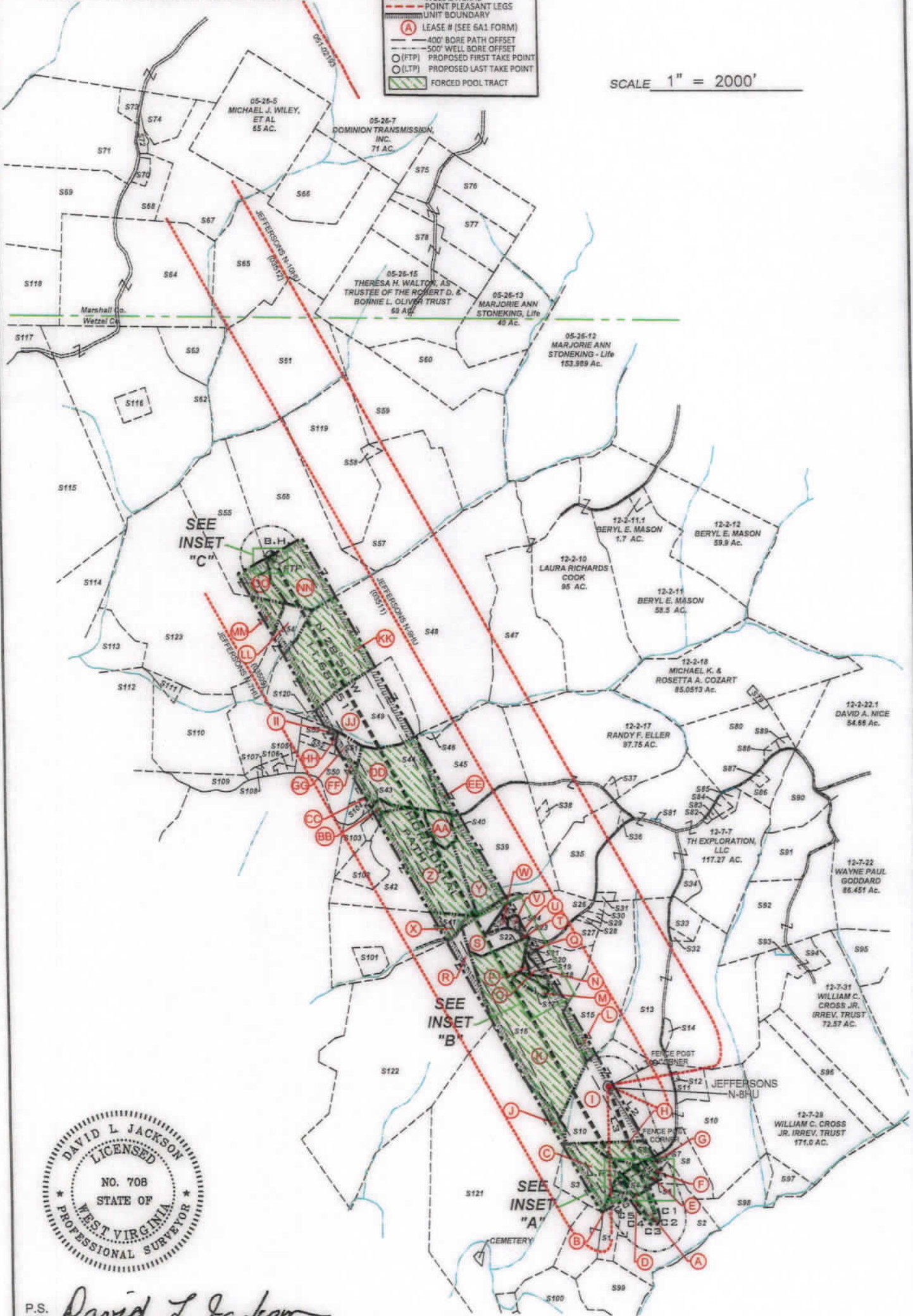


# JEFFERSONS N-8HU UTICA UNIT - 338.8835± ACRES TUG HILL OPERATING

**LEGEND**

- LEASED TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)
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- ▨ FORCED POOL TRACT

SCALE 1" = 2000'



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05/26/2023



## TUG HILL OPERATING

OPERATOR'S  
WELL #: JEFFERSONS N-8HU  
DISTRICT: Proctor  
COUNTY: Wetzel  
STATE: WV  
API #: 47-103-03510

WELL PLAT  
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DATE: 01/31/2023



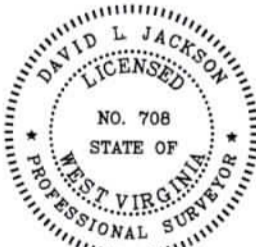
form ww6

**JEFFERSONS N-8HU  
UTICA UNIT - 338.8835± ACRES  
TUG HILL OPERATING**

\* FORCED POOLED TRACTS ARE HIGHLIGHTED

Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	52	12-7-44	Yonself Jay Eller III & Jennifer Lynn Eller	15.06
B	51	12-7-44.1	James Foster	5.054
C	53	12-7-42.4	Peggy Lou & Albert Cecil - L/E Stoven Mark Cecil, Et Al	17.333
D	54	12-7-42.5	James D. Furbee, II	6.43
E	55	12-7-42.3	April Fluharty	1.072
F	56	12-7-42.3	James D. Furbee, II	0.528
G	57	12-7-42.1	James D. Furbee, II	1.21
H	59	12-7-42	James D. Furbee, II	6.5
I	510	12-7-27	Edward H. & Joan E. Estep	92.302
J	5121	12-7-40	T.H. Exploration, LLC.	175.55
K	516	12-7-26	T.H. Exploration, LLC.	59.89
L	515	12-7-19	Jeffery S. Underwood & Velvet K. Paris	41.4
M	517	12-7-26.1	Colby Dean Sidenstricker	2.01
N	518	12-7-17	Jeffery S. Underwood & Velvet K. Paris	13.43
O	519	12-7-17.2	T.H. Exploration, LLC.	1.29
P	520	12-7-17.1	T.H. Exploration, LLC.	0.521
Q	521	12-7-16	Grant & Jennifer Throckmorton	1.1
R	5122	12-7-27	Lance C. & Minerva R. Evans	164.2
S	522	12-7-15	Rost Energy Company, Inc.	22.63
T	523	12-7-15.7	T.H. Exploration III, LLC.	0.68
U	526	12-7-15.1	Billy Sweeney	10.72
V	524	12-7-15.2	Billy Sweeney	1.8
W	525	12-7-15.3	Billy Sweeney	1.26
X	541	12-7-14	Matthew Rohr & Wayne Raber	32.74
Y	539	12-7-4.1	Robert Joseph Coleman	55.81
Z	542	12-7-3	Matthew Rohr & Wayne Raber	55.828
AA	540	12-7-59	Tanner Kelley	5
BB	543	12-7-3.3	Robert Joseph Coleman	3.53
CC	5104	12-7-3.1	Jeremy W. & Sharon E. Heddelson	2.99
DD	544	12-7-3.2	Lisa M. Naegele	28.47
EE	545	12-7-4	Rodney G. Eller	46.7
FF	550	12-7-2	Jeremy W. & Sharon E. Heddelson	19.8
GG	551	12-2-15.1	Vivian A. Parsons, Et Al	5
HH	552	12-2-15.2	Charles Phillip Parsons	2
II	553	12-2-15	Charles Phillip Parsons	3
JJ	549	12-2-16	Laura Lee Richards Cook	33
KK	548	12-2-8	Laura Richards Cook	185.125
LL	554	12-2-7	John D. Amnah	44.5
MM	5123	12-3-20	Charles E. Frohnapef, Trustee of the Charles E. Frohnapef Living Trust Dated October 3, 2017	126
NN	556	12-2-2	Ruby Wood, Et Al	82
OO	555	12-2-1	Roy Yoho	49

Number	Tax Map -Parcel	Adjoining Parcels Ownership Table	Acres
58	12-7-27.2	Douglas I. & Patricia A. Pitts	10.73
511	12-7-27.1	Edward H. & Joan E. Estep	6.718
512	12-7-43	Furbee Cemetery	1.11
513	12-7-20	Jeffrey A. & Paula J. Gorby	104.72
514	12-7-28	Palmer Cemetery	0.98
527	12-7-15.6	Jeffery S. Underwood & Velvet K. Paris	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	12-7-18	Anthony M. & Elizabeth G. Parks	1
531	12-7-7.6	William E. & Glenda E. Kaufman	1.55
532	12-7-20.2	Peter R. Tamborello & Annis E. Ponikvar	0.9
533	12-7-20.1	Peter R. Tamborello & Annis E. Ponikvar	5.18
534	12-7-7.4	Charles Lee & Betty J. Huggins	4
535	12-7-5	Matthew D. Arrick	20.37
536	12-7-6	Stacy E. Briner	0.25
537	12-7-51	Jean J. Eller	1.25
538	12-7-52	Brent J. & Sara L. Eller	10.25
546	12-2-8.1	Friend W. Parsons	0.5
547	12-2-9	Laura Richards Cook	77
557	12-2-4	Edith Salem & Lisa G. Larson	56.25
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
561	05-26-16	Heartwood Forestland Fund VII LP	82.5
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
565	05-26-17	Heartwood Forestland Fund VII LP	82.56
566	05-26-6	Heartwood Forestland Fund VII LP	36.17
567	05-26-4.4	Otis F. & Gienna M. Rush	39.436
568	05-26-4.1	Otis S. Rush, Et Ux	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, et ux	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	12-2-20.1	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. & Alena 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
5100	12-12-9	Rickey A. Farley	17.175
5101	12-7-14.1	W VA Dept of Highways	3.49
5102	12-7-3.4	Dru W. Bills	8.253
5103	12-7-3.5	Robert Joseph Coleman	5.422
5105	12-7-57	John D. & Deborah L. Amnah	2.33
5106	12-7-58	John D. & Deborah L. Amnah	1.03
5107	12-7-56	Starla K. Richmond	0.3
5108	12-7-1	Tamara & William J. Wetzel	1
5109	12-6-52	John D. & Deborah L. Amnah	6.46
5110	12-1-34	John D. & Deborah L. Amnah	38
5111	12-1-34.1	Herbert Parsons & Virginia Yoho Roy	2
5112	12-1-32	Baxter Farm, LLC	78.74
5113	12-1-31	Steven Jack & Susan Louise Hafer	20
5114	12-1-19	Steven J. & Susan L. Hafer	36.5
5115	12-1-8	Benjamin J. Kocher	168.67
5116	12-1-41	Mark W. Booth, Maggie Ann Rockwell & George E. Booth, Jr.	5
5117	12-1-8.1	Robert F. Rothlisberger	50.33
5118	05-27-24	Robert F. Rothlisberger	60.1
5119	12-02-03	Nelson M. & Mary D. Miller	51.72
5120		Miccip School	



P.S. 708

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WELL PLAT  
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form ww6

**JEFFERSONS N-8HU  
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Lease ID	TMP	Tag	Grantor, Lessor, Etc.	Deed Book/Page	
**FORCE POOL**	12-7-44	A	DORIS B MATTHEWS, ET AL	NA	NA
**FORCE POOL**	12-7-44.1	B	DORIS B MATTHEWS, ET AL	NA	NA
**FORCE POOL**	12-7-42.4	C	THOMAS DELLATORRE AND SANDRA DELLATORRE, ET AL	196A	360
**FORCE POOL**	12-7-42.5	D	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42.2	E	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42.3	F	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42.1	G	BEVERLY J MATTHEWS, ET AL	197A	595
**FORCE POOL**	12-7-42	H	BEVERLY J MATTHEWS, ET AL	197A	595
10*22042	12-7-27	I	EDWARD H ESTEP AND JOAN E ESTEP	210A	205
**FORCE POOL**	12-7-40	J	BETTY WATSON HALL, ET AL	234A	362
**FORCE POOL**	12-7-26	K	BETTY WATSON HALL, ET AL	234A	362
**FORCE POOL**	12-7-19	L	BETTY WATSON HALL, ET AL	234A	362
**FORCE POOL**	12-7-26.1	M	BETTY WATSON HALL, ET AL	234A	362
10*39154	12-7-17	N	ROST ENERGY COMPANY INC	269A	641
10*24215	12-7-17.2	O	MITCHELL M WHITE AND KAREN M WHITE	215A	897
10*24215	12-7-17.1	P	MITCHELL M WHITE AND KAREN M WHITE	215A	897
10*39154	12-7-16	Q	ROST ENERGY COMPANY INC	269A	641
10*39048	12-7-24	R	DAVID S PALMER, ET AL	258A	213
10*39154	12-7-15	S	ROST ENERGY COMPANY INC	269A	641
10*24215	12-7-15.7	T	MITCHELL M WHITE AND KAREN M WHITE	215A	897
10*23046	12-7-15.1	U	PHILIP H ESTEP	204A	164
10*23046	12-7-15.2	V	PHILIP H ESTEP	204A	164
10*23046	12-7-15.3	W	PHILIP H ESTEP	204A	164
**FORCE POOL**	12-7-14	X	CHRISTINA JO DAVIES FKN CHRISTINA JO YOHO, ET AL	174A	564
**FORCE POOL**	12-7-4.1	Y	BARBARA A EDDY, ET AL	173A	497
**FORCE POOL**	12-7-3	Z	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**	12-7-59	AA	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	BB	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	CC	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**	12-7-3.2	DD	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**	12-7-4	EE	BARBARA A EDDY, ET AL	173A	497
**FORCE POOL**	12-7-2	FF	CAROL ANN EALY BRECKENRIDGE, ET AL	167A	749
10*18856	12-2-15.1	GG	ROY FRIEND YOHO, ET AL	190A	118
10*18856	12-2-15.2	HH	ROY FRIEND YOHO, ET AL	190A	118
10*22364	12-2-15	II	CHARLES PHILIP PARSONS, ET AL	221A	648
10*31168	12-2-16	JJ	HERBERT L MILLER AND BRENDA S MILLER	173A	673
**FORCE POOL**	12-2-8	KK	AARON DAVIS, ET AL	143A	517
10*24617	12-2-7	LL	BETTY LOU GOUDY	220A	884
**FORCE POOL**	12-1-20	MM	SHIBEN ESTATES INC, ET AL	155A	629
**FORCE POOL**	12-2-2	NN	BETTY J FLANAGAN FKA BETTY J ECKLES, ET AL	176A	429
**FORCE POOL**	12-2-1	OO	PATHFINDER RESOURCES LLC DBA RECON PATHFINDER LLC ET AL	275A	203



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