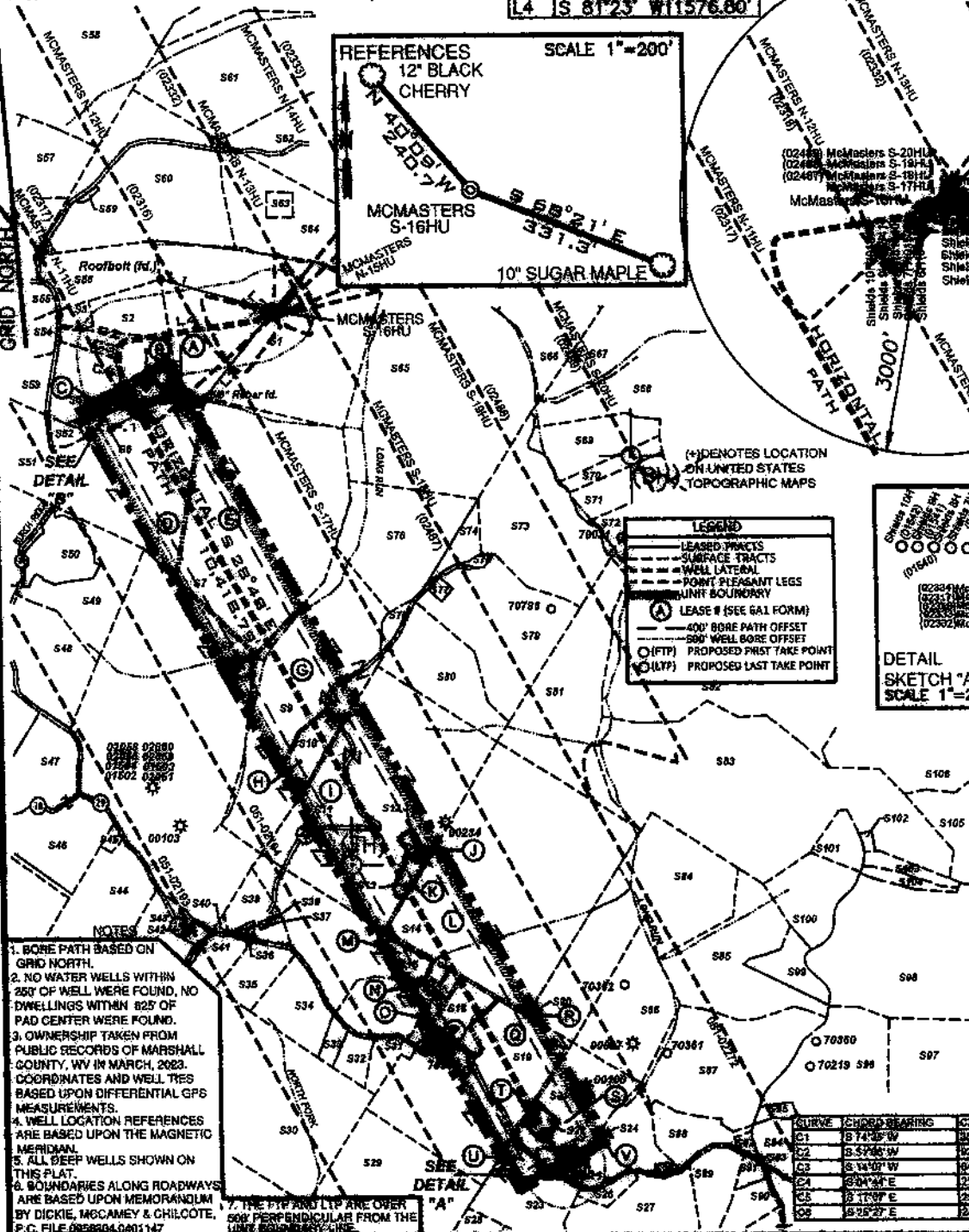
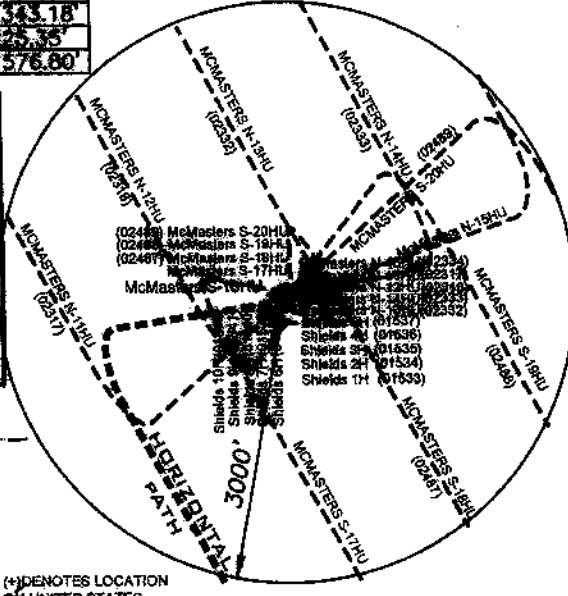
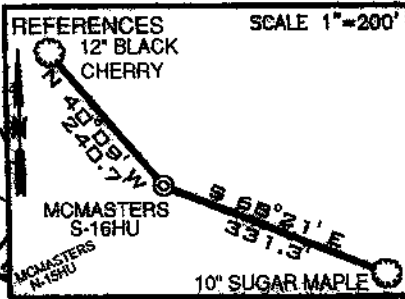


MCMASTERS S-16HU
UTICA UNIT - 314.2124± ACRES
TUG HILL OPERATING, LLC

LINE	BEARING	DISTANCE
L1	N 73°34' W	1404.56'
L2	S 30°00' W	1343.18'
L3	S 60°00' W	925.35'
L4	S 81°23' W	1576.80'

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

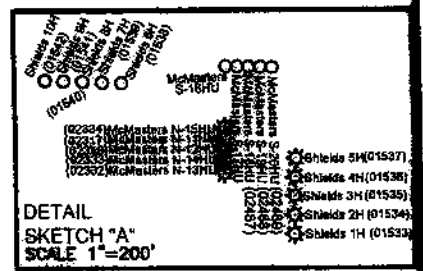
(BH) BOTTOM HOLE LONGITUDE: 80°45'00"
(TH) TOP HOLE LONGITUDE: 80°45'00"



(H) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

LEGEND

- LEASING TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- LEASE # (SEE GA1 FORM)
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT



SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,401,176.30 E) 518,197.28
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,400,806.89 E) 517,690.91
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,398,050.79 E) 519,266.30

- NOTES**
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 825' OF PAD CENTER WERE FOUND.
 - OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2023. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 - ALL DEEP WELLS SHOWN ON THIS PLAT.
 - BOUNDARIES ALONG ROADWAYS ARE BASED UPON MEMORANDUM BY DICKIE, MCCAMEY & CHILCOTE, P.C. FILE 082804-0001147.
 - THE FTP AND LTP ARE OVER 500' PERPENDICULAR FROM THE UNIT BOUNDARY.

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 74°35' W	35.85'	124.47'	38.10'
C2	S 57°05' W	62.85'	64.55'	68.12'
C3	S 15°07' W	104.44'	241.43'	64.62'
C4	S 04°24' E	126.17'	377.82'	126.07'
C5	S 1°00' E	253.42'	1259.84'	253.42'
C6	S 85°27' E	234.11'	210.13'	244.27'

FILE NUMBER _____
DRAWING NUMBER MCMASTERS S-16HU 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

David L Jackson



JACKSON SURVEYING INC.
P.O. Box 1460
Clarksburg, WV 26302
304-823-5851



WVDEP
OFFICE OF OIL & GAS
601 57TH STREET, SE
CHARLESTON, WV 25304

DATE: APRIL 06, 2023
OPERATORS WELL NO. MCMASTERS S-16HU

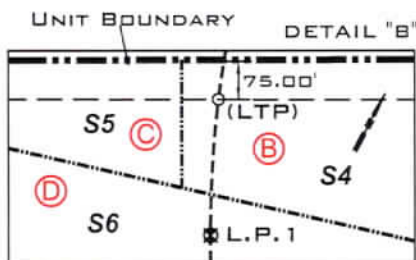
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
LOCATION ELEVATION 1207.50' WATERSHED (HUC 10) FISH CREEK (HUC-10)
DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE POWATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 FORM

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) _____
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,375' TMD: 22,277'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DARREN BROWN, CT CORP
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5008 WASHINGTON STREET WEST, SUITE 407 CHARLESTON, WV 25313-1561

COUNTY NAME PERMIT

MCMASTERS S-16HU
UTICA UNIT - 314.2124± ACRES
TUG HILL OPERATING, LLC

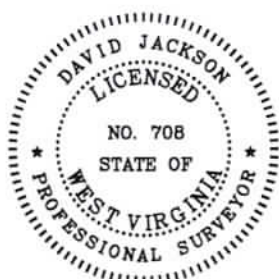
Parcels within Unit Boundary				
Tags	Number	Tax Map -Parcel	Surface Owner	Acres
A	S1	05-18-02	ROBERT L. SHIELDS & DONALD SHIELDS	104.11
B	S4	05-19-17	MARK A. YOHO	15.263
C	S5	05-19-24	DAVID E. YOHO	15.436
D	S6	05-19-18	DAVID E. YOHO	55.948
E	S7	05-18-24	DUANE BRUNN	102.0
F	S8	05-23-01	PATRICIA ACCETTOLO, ET AL	146.66
G	S9	05-23-02	DANIEL J. LILLEY	70
H	S10	05-23-2.2	JESSICA N. & ANDREW L. JONES	7.636
I	S11	05-23-04	PROCTOR RIDGE, LLC	100.7
J	S12	05-23-4.2	XCL MIDSTREAM OPERATING, LLC	1.17
K	S13	05-23-4.1	XCL MIDSTREAM OPERATING, LLC	2.16
L	S14	05-23-05	DANIEL D. RHYAND	118.5
M	S15	05-23-18	PROCTOR RIDGE, LLC	35.38
N	S16	05-23-16	ROY FRIEND YOHO SR.	18.03
O	S17	05-23-16.1	DONALD B. HENRY	1.97
P	S18	05-23-15	VIRGINIA ETHEL HENRY, ESTATE	15.5
Q	S19	05-23-14	DOMINION TRANSMISSION, INC.	59.5
R	S20	05-23-08	CARL DAVID & SUZANNE L. GUSEMAN	29.5
S	S21	05-23-9.2	LINDA D. GREATHOUSE	25.58
T	S22	05-23-9.4	JACKSON R. DAVIS SR. HRS	2.087
U	S23	05-23-9.1	JOHN W. VAN ORDEN, ET UX	23.376
V	S24	05-23-13	LINDA D. GREATHOUSE	14.24



N.T.S.

Deep Wells Within 2400' of Proposed Well's Surface Location and/or 500' of Well Lateral

API	OPERATOR
47-051-02316	Tug Hill Operating, LLC
47-051-02317	Tug Hill Operating, LLC
47-051-02332	Tug Hill Operating, LLC
47-051-02333	Tug Hill Operating, LLC
47-051-02334	Tug Hill Operating, LLC
47-051-02487	Tug Hill Operating, LLC
47-051-02488	Tug Hill Operating, LLC
47-051-02489	Tug Hill Operating, LLC



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David L Jackson

Adjoining Parcels Ownership Table			
Number	Tax Map -Parcel	Surface Owner	Acres
52	05-19-16	ROBERT L. SHIELDS & DONALD SHIELDS	11.612
53	05-19-16.1	ROBERT L. SHIELDS, REBECCA A SHIELDS & ROBERTA CAMPBELL	2.307
525	05-23-13.1	JAMES R. & PAMELA J. FERRELL	0.75
526	05-23-12	MARK A. YOHO	3.05
527	05-26-11	MARK A. YOHO	89.25
528	05-26-22	RICHARD JOSEPH OTTE	8.30
529	05-26-07	DOMINION TRANSMISSION, INC.	71.0
530	05-23-26	MICHAEL J WILEY ET AL	101.57
531	05-23-17.3	TROY W. THOMAS & ERIN M. AMOS-THOMAS	5.018
532	05-23-17	TAMMY & THOMAS E. BROWN	4.62
533	05-23-17.4	TAMMY D. MEADOWS	2.605
534	05-23-17.2	DICK ROWAN JR.	14.920
535	05-23-17.1	CURTIS E. HALL, ET UX	10.051
536	05-23-21	MARK A. YOHO & MARK E. YOHO	0.588
537	05-23-20	CHRISTIAN CHURCH	0.19
538	05-23-19	DOTY CEMETERY	1.0
539	05-23-18.1	MARK A. YOHO	7.8
540	05-23-29	MICHAEL J. WILEY & MICHELLE BAKER	0.25
541	05-23-22	DANIEL D. RHYAND	6.25
542	05-23-23	MICHAEL J. WILEY, ET AL	1.0
543	05-23-28.2	GEORGE THOMAS THARP IV	10.8
544	05-23-28	GREGG D. MINOR	39.43
545	05-23-28.1	CODY A. AMOS	1.0
546	05-22-07	PATRICIA ACCETTOLO, ET AL	25.02
547	05-22-7.1	T.H. EXPLORATION II, LLC & XCL MIDSTREAM OPERATING, LLC	20.68
548	05-22-06	CNX RCPC, LLC	64.70
549	05-22-04	CNX RCPC, LLC	159.05
550	05-22-5.1	WILLIAMS OHIO VALLEY MIDSTREAM, LLC	12.875
551	05-19-18.2	PAUL V. & CAROL NEELY	32.672
552	05-19-18.1	PENNY ASHCRAFT	2.57
553	05-19-25	DAVID E. YOHO	9.976
554	05-19-26	ROGER J. & BETH E. JAMES	9.977
555	05-19-27	DAVID E. YOHO	7.041
556	05-19-14	JAMES A. & SHERRY BEEGLE	18.356
557	05-19-30	ERNIE & TAMMY ANDERSON	19.037
558	05-19-13	RONA LEE RICE & CHARLES FRANKLIN MCCARDLE	94.925
559	05-18-1.1	CHARLES F. & DIANA L. HAYNES	0.392
560	05-18-01	DIANA HENRY HAYNES & CAROL C. HENRY	62.908
561	05-15-11	DIANA HENRY HAYNES & CAROL C. HENRY	65.59
562	05-18-04	OLAN & PATRICIA RUTAN	65.89
563	05-18-3.1	NIKKI L. & JONATHAN STEVENS	2.223
564	05-18-03	OLAN V. & PATRICIA E. RUTAN	43.677
565	05-18-23	XCL MAINSTREAM OPERATING LLC	110
566	05-18-07	ADAM & JESSIE L. ROBINSON	24.22
567	05-18-16	ADAM & JESSIE L. ROBINSON	17.768
568	05-18-13	SOUTHERN COUNTRY FARMS, INC.	11.054
569	05-18-59	SOUTHERN COUNTRY FARMS, INC.	15.79
570	05-18-30	MARY & DANIEL ROBINSON	5.46
571	05-18-13.10	CARL BERG	10.88
573	05-18-20	WAYNE E. CHANNING ET AL	44.47
574	05-18-21.1	JASON PALERMO & WENDY MOORE	5.47
575	05-18-21.3	XCL MIDSTREAM OPERATING, LLC	0.811
576	05-18-22	JASON PALERMO & WENDY MOORE	30.345
577	05-18-21.2	DAVID P. LASSAN -LIFE	1.0
578	05-23-2.1	WILLIAM L. & JANICE M. WAYNE	2.364
580	05-23-03	PROCTOR RIDGE, LLC	50.0
581	05-23-06	JAMES A. CHANNING, ET AL	48.0
582	05-17-11	KENNETH N. CORLEY, ET UX	120.0
583	05-23-07	TERRY E. SIMMS, ET UX	123.09
584	05-23-8.1	WILLIAM & VIRGINIA ROUPE	34.0
585	05-24-5.4	THOMAS V. TUTTLE, ET UX	38.244
586	05-23-9.3	LINDA D. GREATHOUSE	17.5
587	05-17-11.1	JOHN H. & SONYA D. HOLIDAY	67.0
588	05-23-11.4	KENNETH L. LEMON, TRUSTEE FOR JEFFREY G. HUDSON	10.879
589	05-23-11.3	COLIN R. YOHO	11.29
590	05-23-11.8	ROY F. YOHO	2.25
591	05-23-11.5	ZACHARY R. STEVEY	7.00
592	05-23-11.2	KENNETH L. LEMON, TRUSTEE FOR JEFFREY G. HUDSON	1.154
593	05-23-11.6	T.H. EXPLORATION II, LLC	0.094
594	05-23-11	ROY F. YOHO	9.475
595	05-23-11.7	BRYAN L. HUGGINS	1.835
596	05-23-10	TERRY E. SIMMS, ET UX	37.95
597	05-24-06	TERRY E. SIMMS, ET UX	42.84
598	05-24-5	ROBERT C. FRANCIS, ET UX (LIFE)	145.78
599	05-24-3.1	T.H. EXPLORATION II, LLC	5.50
5100	05-24-5.5	SONNY & LINDA TAGG	17.194
5101	05-23-7.2	FLORELLA LOU WEIGAND	6.354
5102	05-23-7.1	RANDY W. & JESSICA L. FRANCIS	0.549
5103	05-24-5.1	JAMES D. WATKINS, ET UX	4.6
5104	05-24-5.2	JAMES D. WATKINS, ET UX	3.151
5105	05-24-01	LINDA L. PICKERING	175.0
5106	05-17-11.1	RANDY W. FRANCIS, ET UX	67.0

4705102497

05/11/2023

OPERATOR'S
 WELL #: McMasters S-16HU
 DISTRICT: Franklin
 COUNTY: Marshall
 STATE: WV
 API #: 47-051-

WELL PLAT
 PAGE 2 OF 3
 DATE: 04/06/23



TUG HILL
OPERATING

MCMASTERS S-16HU
UTICA UNIT - 314.2124± ACRES
TUG HILL OPERATING, LLC

Lease ID	TMP	Tag	Lessor, Grantor, Etc.	Book	Page
10*14116	5-18-2	A	DONALD SHIELDS, ET AL	669	367
10*14295	5-19-17	B	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE	655	546
10*14295	5-19-24	C	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE	655	546
10*14295	5-19-18	D	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE	655	546
10*14295	5-18-24	E	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE, ET AL	655	546
10*14129	5-23-1	F	LOUIS J ACCETTOLO & PATRICIA ACCETTOLO	703	283
10*14022	5-23-2	G	DENISE D WAYNE AND HOWARD N WAYNE SR	665	384
10*14022	5-23-2.2	H	DENISE D WAYNE AND HOWARD N WAYNE SR	665	384
10*14849	5-23-4	I	DAVID GUSTELY, ET AL	806	265
10*14849	5-23-4.2	J	DAVID GUSTELY, ET AL	806	265
10*14849	5-23-4.1	K	DAVID GUSTELY, ET AL	806	265
10*14847	5-23-5	L	LETHA RUCKMAN, ET AL	806	270
10*14849	5-23-18	M	DAVID GUSTELY, ET AL	806	265
10*14847	5-23-16	N	LETHA RUCKMAN, ET AL	806	270
10*14847	5-23-16.1	O	LETHA RUCKMAN, ET AL	806	270
10*14665	5-23-15	P	DOROTHY TEDROW, ET AL	781	539
10*18343	5-23-14	Q	DOMINION ENERGY TRANSMISSION INC	936	79
10*17192	5-23-8	R	ROBERT J HENRY, ET AL	716	193
10*17189	5-23-9.2	S	ROBERT J HENRY	716	197
10*17189	5-23-9.4	T	ROBERT J HENRY	716	197
10*17189	5-23-9.1	U	ROBERT J HENRY	716	197
10*14786	5-23-13	V	TWILA O WHIPKEY, ET AL	799	61

P.S.
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David L Jackson

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05/11/2023



TUG HILL
OPERATING

OPERATOR'S

WELL #: McMasters S-16HUDISTRICT: FranklinCOUNTY: MarshallSTATE: WVAPI #: 47-051-

WELL PLAT

PAGE 3 OF 3

DATE: 04/06/23