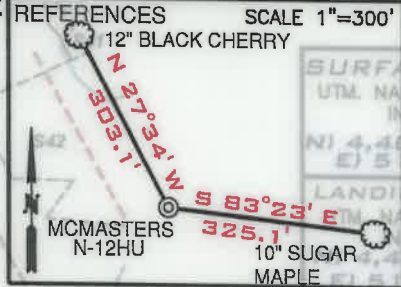


**MCMASTERS LEASE
WELL N-12HU
327.5983 ACRES**



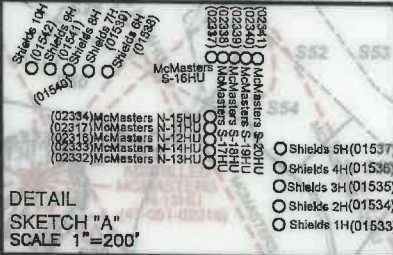
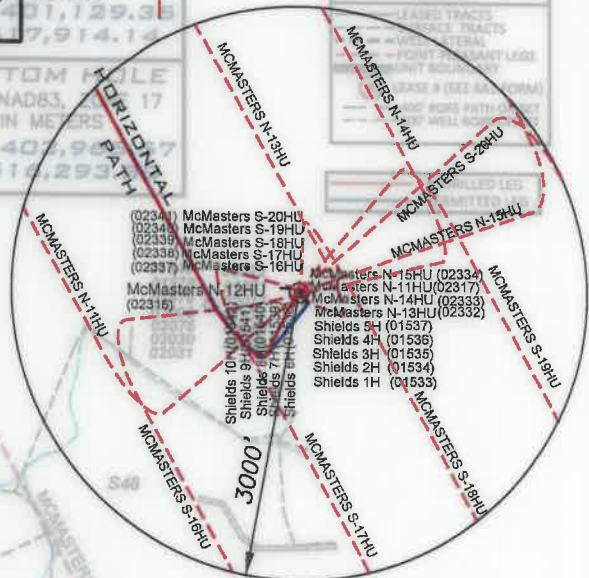
TOP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°47'30"
WELL N-12HU
327.5983 ± ACRES

LINE	BEARING	DISTANCE
L1	N 70°33' W	1428.71'
L2	S 41°21' W	1275.99'
L3	S 05°27' E	15.59'
L4	S 26°09' W	627.83'

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

ASDRILLED LEG (Red line)
PERMITTED LEG (Blue line)



CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 27°40' W	130.85'	260.06'	132.27'
C2	N 53°30' W	9.10'	5.45'	10.78'
C3	N 03°53' W	29.85'	65.15'	30.11'
C4	S 72°06' W	67.84'	62.13'	71.76'
C5	N 54°30' W	70.88'	174.35'	71.38'
C6	N 42°09' W	518.63'	2672.73'	519.45'
C7	S 31°09' E	232.87'	1169.19'	233.28'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,149.08
E) 518,197.03

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,401,127.36
E) 517,912.13

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,964.54
E) 516,292.55

- 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 MARSHALL COUNTY, WV IN MARCH, 2019. 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 0058304.0401147

FILE NUMBER _____
DRAWING NUMBER: MCMASTERS N-12HU REV1
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

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS") PRODUCTION X STORAGE _____ DEEP X SHALLOW _____
LOCATION ELEVATION 1207.75' WATERSHED (HUC 10) FISH CREEK (HUC-10)
DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 FORM

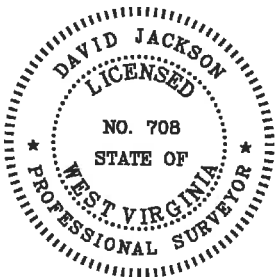
SURFACE OWNER ROBERT L. SHIELDS, ET AL ACREAGE 104.10/21/2022
OIL & GAS ROYALTY OWNER ROBERT L. SHIELDS, ET AL LEASE ACREAGE 104.11
PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____ PLUG OFF OLD FORMATION _____
PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE (SPECIFY) ASDRILLED
TARGET FORMATION POINT PLEASANT PLUG & ABANDON _____ CLEAN OUT & REPLUG _____
WELL OPERATOR TUG HILL OPERATING, LLC ESTIMATED DEPTH TVD: 10,985' TMD: 22,456'
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

COUNTY NAME PERMIT

**MCMASTERS LEASE
WELL N-12HU
327.5983 ± ACRES**

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES	Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S1	05-23-11.1	John H. & Sonya D. Holliday	46.482	S61	05-18-29	Carl G. Berg	5.319
S2	05-23-11.4	Evelyn L. Hudson	10.879	S62	05-18-31	Kenneth E. Rastall	6.94
S3	05-23-13	Linda D. Greathouse	14.24	S63	05-18-32.1	Lori D. Carpenter	5.545
S4	05-23-9.2	Linda D. Greathouse	25.58	S64	05-18-32	Kenneth E. Rastall	5.335
S5	05-23-14	Dominion Transmission Inc.	59.5	S65	05-18-13.8	Lori D. Carpenter	5.545
S6	05-23-9.3	Linda D. Greathouse	17.5	S66	05-18-33	Sandra & Glenn Whisler	5.343
S7	05-23-08	Carl David & Suzanne L. Guseman	29.5	S67	05-17-12	James & Jill C. Corley	3.33
S8	05-23-05	Daniel D. Rhyand	118.5	S68	05-17-12.1	Williams Ohio Valley Midstream LLC	1.67
S9	05-23-04	Abe J. Hochstetler	100.7	S69	05-17-10.5	Williams Ohio Valley Midstream LLC	4.24
S10	05-23-06	James A. Channing Et Al	48.0	S70	05-17-10	James A. Corley Et Al	92.61
S11	05-23-03	Abe J. Hochstetler	50.0	S71	05-17-10.1	James A. & Jill C. Corley	4.51
S12	05-23-2.1	William L. & Janice M. Wayne	2.364	S72	05-17-9.1	Jeri J. White	1.0
S13	05-18-21	Curtis E. & Michelle J. Hall	43.119	S73	05-17-9.2	Jeri J. White	7.136
S14	05-18-21.1	Rodney & Rhonda Jackson	5.47	S74	05-17-11	Kenneth N. Corley Et Ux	120.0
S15	05-23-02	Daniel J. & Danielle D. Lilley	77.636	S75	05-17-9.4	Vicki L. Bowen	60.3
S16	05-18-22	Rodney & Rhonda Jackson	30.345	S76	05-17-9.3	James A. & Corley Et Ux	12.478
S17 B	05-18-24	Duane Brunn	102.0	S77	05-17-11.1	Randy W. Francis Et Ux	67.0
S18	05-18-23	XCL Midstream Operating LLC	110.0	S78	05-18-20	Wayne E. Channing Et Al	75.6
S19	05-19-18	Mark E. Yoho Et Ux	55.948	S79	05-18-21.2	David P. Lassar	1.0
S20 A	05-18-02	Robert L. Shields Et Al	104.11	S80	05-18-21.3	Stone Hill Minerals Holdings, LLC	0.811
S21 C	05-19-17	Mark A. Yoho	15.263	S81	05-23-8.1	William & Virginia Roupe	34.0
S22 D	05-19-16	Robert L. Shields & Donald Shields	11.612	S82	05-24-5.4	Thomas V. Tuttle Et Ux	38.244
S23 E	05-19-14	James & Sherry Beegle	18.356	S83	05-24-5.5	Sonny & Linda Lou Tagg	17.194
S24 F	05-18-1	Diana Henry Haynes & Carol C. Henry	62.908	S84	05-23-7.2	Florella Lou Weigand	6.354
S25 G	05-19-30	Ernie & Tammy Anderson	19.037	S85	05-23-7.1	Florella Lou Weigand	0.549
S26 H	05-19-13	Rona Lee Rice & Charles Franklin McCardle	94.925	S86	P/O 05-23-7	Terry E. Simms Et Ux	123.097
S27 I	05-19-13.1	Donald Shields	0.800	S87	05-24-5.1	James D. Watkins Et Ux	4.6
S28	05-18-3.1	Nikki L. & Jonathan Stevens	2.223	S88	05-24-5.2	James D. Watkins Et Ux	3.151
S29 J	05-19-8	CNX Gas Company LLC	40.0	S89	05-24-5	Robert C. Francis Et Ux (Life)	145.78
S30 M	05-19-7	Olan V. Rutan Et Ux	32.4801	S90	05-24-3.1	T.H. Exploration II LLC	5.50
S31 K	05-14-15	Robert L. Shields Et Al	53.0	S91	05-24-6	Terry E. Simms Et Ux	42.84
S32 L	05-14-14	Robert L. Shields Et Al	29.05	S92	05-23-10	Terry E. Simms Et Ux	38.95
S33 N	05-14-12	Dale R. Galleher Et Al	135.100	S93	05-23-11.7	Bryan L. Huggins	1.835
S34 O	05-14-12.1	Henry Wilson Plunkert Jr.	5.0	S94	05-23-11.2	Evelyn Hudson	1.154
S35 P	05-14-10	Wanda P. Rine, Life	126.03	S95	05-23-11	Roy F. Yoho	9.475
S36 Q	05-14-13	Ralph D. & Sally Jane Hoyt	222.18	S96	05-23-11.6	T.H. Exploration II, LLC	0.094
S37 R	05-14-9.2	Maria T. Flores	25.0	S97	05-25-20.2	James M. Zambotti	1.347
S38 S	05-12-21	Edward L. Gibson-Life	73.436	S98	05-25-20.3	James A. & Jo C. Ester	4.49
S39 T	05-12-14	Linda Hamilton Et Al	117.495	S99	05-23-11.5	Roy F. Yoho	2.25
S40	05-12-12.1	Linda L. Persinger Et Ux	148.09	S100	05-23-11.3	Colin R. Yoho	11.29
S41	05-12-11	Wesley R. Bryan & Wesley R. Bryan II	52.478	S101	05-23-13.1	James R. & Pamela J. Ferrell	0.75
S42	05-11-15	Lionel L. Persinger Ex Ux	93.0	S102	05-23-12	Mark A. Yoho	3.05
S43	05-15-01	Marcus Sharp & Angela R. Schlabach	121.0	S103	05-26-11	Mark A. Yoho	89.25
S44	05-15-15	Robert L. Shields Et Al	49.02	S104	05-23-9.4	Jackson R. Davis Sr. & Deanna L. Davis	2.087
S45	05-15-12	John David Petrock & Thomas Andrew Petrock	150.23	S105	05-23-9.1	John W. Van Orden Et Ux	23.376
S46	05-15-11	Diana Henry Haynes & Carol Henry	65.59	S106	05-26-7	Dominion Transmission, Inc.	71.0
S47	05-18-1.1	Charles F. & Diana L. Haynes	0.392	S107	05-26-5	Michael J. Wiley Et Al	65.0
S48	05-15-10	Mark Stanley Ruckman	153.75	S108	05-23-26	Michael J. Wiley Et Al	101.57
S49	05-18-04	Olan & Patricia Rutan	65.89	S109	05-23-27	Michael J. Wiley Et Al	33.14
S50	05-18-03	Olan V. & Patricia E. Rutan	43.677	S110	05-23-15	Henry Virginia Ethel Estate	15.5
S51	05-18-05	Terry Melott	8.14	S111	05-23-16.1	Donald B. Henry	1.97
S52	05-18-15.3	Charles Yeater	26.44	S112	05-23-16	Roy Friend Yoho Gr.	18.03
S53	05-18-15.4	Edward Lee Burge, Jr.	22.34	S113	05-23-17.3	William & Katherine Flewelling	5.018
S54	05-18-06	Charles Yeater	26.0	S114	05-23-17	Tammy & Thomas E. Brown	4.62
S55	05-18-07	Charles Yeater	24.22	S115	05-23-17.4	Tammy D. Meadows	2.605
S56	05-18-16	Charles Yeater	17.768	S116	05-23-17.2	Dick Rowan Jr. & Carol J. Rowan	14.920
S57	05-18-13	Southern Country Farms Inc.	11.054	S117	05-23-18	Abe J. Hochstetler	35.38
S58	05-18-59	Southern Country Farms Inc.	15.79	S118	05-23-4.1	XCL Midstream Operating LLC	2.16
S59	05-18-30	Jon Schmidt Et Al	5.46	S119	05-23-4.2	XCL Midstream Operating LLC	1.17
S60	05-18-13.10	Carl Berg	10.88	S120	05-23-18.1	Mark A. Yoho	7.8
				S121	05-23-19	Doty Cemetery	1.0

Lease No.	Tags	Parcel	Lessor	Book	Page
10*14116	A	5-18-2	DONALD SHIELDS	669	367
10*14295	B	5-18-24	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE	655	546
10*14295	C	5-19-17	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE	655	546
10*14116	D	5-19-16	DONALD SHIELDS	669	367
10*14127	E	5-19-14	JAMES & SHERRY BEEGLE ET AL	699	218
10*14142	F	5-18-1	BENIAMIN FRANKLIN HENRY	718	498
10*14579	G	5-19-30	ERNIE LANDERSON & TAMMEY LANDERSON	681	507
10*14110	H	5-19-13	RONA LEE MCCARDLE	670	472
10*14112	I	5-19-13.1	DONALD SHIELDS	669	374
10*14571	J	5-19-8	MATTHEW S & BRENDA S ANDERSON	840	165
10*14116	K	5-14-15	DONALD SHIELDS	669	367
10*14116	L	5-14-14	DONALD SHIELDS	669	367
10*14423	M	5-19-7	OLAN V & PATRICIA E RUTAN	727	1
10*14928	N	5-14-12	JOSEPH D. PARRIOTT & NELLIE B. PARRIOTT, HUSBAND AND WIFE	660	517
10*14522	O	5-14-12.1	HENRY WILSON PLUNKERT JR	749	532
10*14420	P	5-14-10	ELLIS V & WANDA P RINE	725	141
10*14067	Q	5-14-13	REVA FRANZE	666	51
10*14619	R	5-14-9.2	SHIRLEY R MILLER	715	414
10*24492	S	5-12-21	EDWARD L GIBSON AND VIOLET L GIBSON ETAL	920	112
10*21769	T	5-12-14	BETTY HAMILTON	837	419



P.S. 708

David L Jackson

10/21/2022



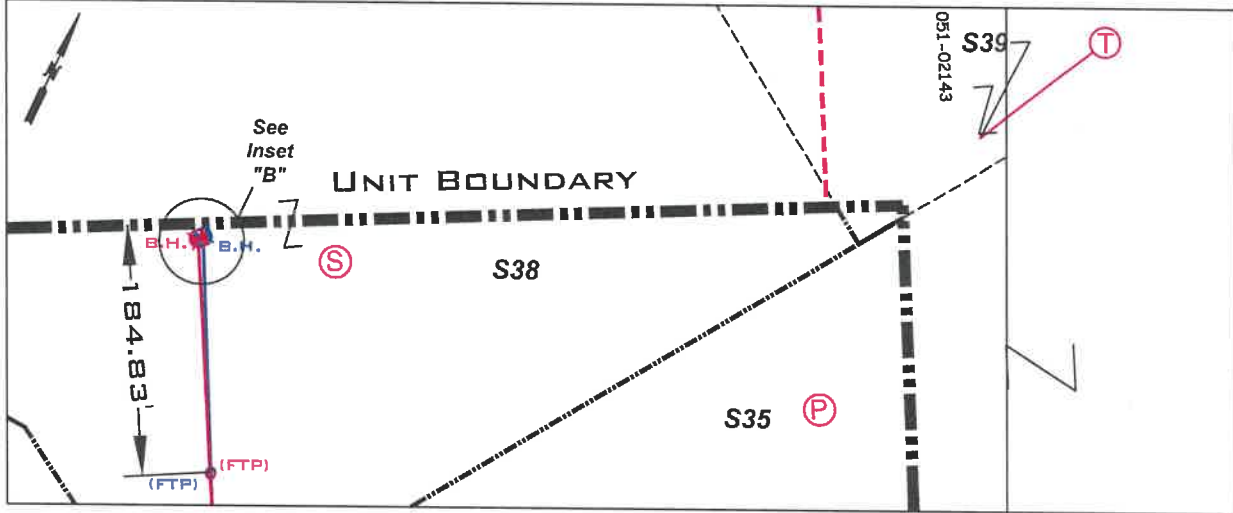
**TUG HILL
OPERATING**

OPERATOR'S
WELL #: MCMASTERS N-12HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02316

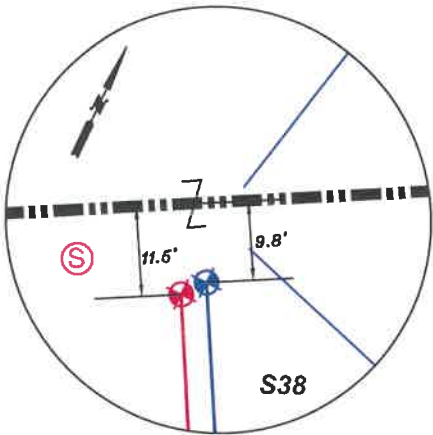
WELL PLAT
PAGE 3 OF 4
DATE: 10/05/2022

**MCMASTERS LEASE
WELL N-12HU
327.5983 ACRES**

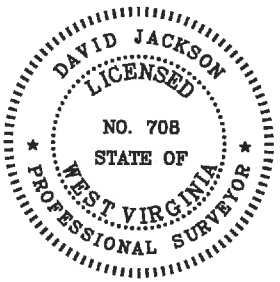
Inset "A"



Inset "B"



Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S122	05-23-20	Christian Church	0.19
S123	05-23-21	Mark A. & Mark E. Yoho	0.588
S124	05-23-17.1	Curtis E. Hall Et Ux	10.051
S125	05-23-29	James Wiley	0.25
S126	05-23-28.2	Mark W. & Carolyn L. Tennant	10.8
S127	05-23-22	Daniel D. Rhyand & Laurel R. Greene	6.25
S128	05-23-23	Michael J. Wiley Et Al	1.0
S129	05-23-24	Michael J. Wiley Et Al	0.25
S130	05-23-25	Arthur A. Wiley	0.43
S131	05-23-28	Gregg D. Minor	39.43
S132	05-23-2.2	Jessica N. & Andrew L. Fox	7.636
S133	05-23-28.1	Troy W. & Erin M. Thomas	1.0
S134	05-23-01	Patricia Accettolo Et Al	146.66
S135	05-22-7.1	T.H. Exploration II LLC & Atinum Marcellus I LLC	20.68
S136	05-22-08	T.H. Exploration III LLC	48.44
S137	05-22-06	CNX Gas Company LLC	64.70
S138	05-22-10	T.H. Exploration III LLC	58.40
S139	05-22-17	CNX Gas Company LLC	37.5
S140	05-22-04	CNX Gas Company LLC	159.05
S141	05-22-05	CNX Gas Company LLC	134.425
S142	05-22-5.1	Williams Ohio Valley Midstream LLC	12.875
S143	05-19-18.1	Mark E. Yoho Et Ux	2.57
S144	05-19-18.2	Paul V. & Carol Neely	32.672
S145	05-19-25	David E. Yoho & Mark E. Yoho	9.976
S146	05-19-24	Mark E. Yoho	15.436
S147	05-19-26	Roger J. & Beth E. James	9.977
S148	05-19-16.1	Robert L. & Rebecca A. Shields	2.307
S149	05-19-27	David E. Yoho & Mark E. Yoho	7.041
S150	05-19-31	Charles F. & Diana L. Haynes	8.779
S151	05-19-30.1	Eric R.W. & Ashley A. Huggins	2.911
S152	05-19-32	Jasper N. Burch Et Al-Trustees	0.397
S153	05-19-28	David E. Yoho & Mark E. Yoho	56.899
S154	05-19-19	Russell Blake Et Ux	66.4
S155	05-19-21	Sammy E. Whittatch Et Al	116.45
S156	05-19-20	Wilbert H. Bungard Et Ux	114.989
S157	05-19-15	Carly Herran	0.72
S158	05-19-29	Ernie L. & Tammy L. Anderson	10.961
S159	05-19-09	Penny Elaine Ashcraft	10.44
S160	05-19-12	Ernie L. Anderson Et Ux	5.33
S161	05-19-10	Ernie L. Anderson Et Ux	0.8125
S162	05-19-11	Ernie L. Anderson Et Ux	0.08
S163	05-19-20.3	Sidney Harmon	3.715
S164	05-19-20.1	John J. Ebert-Life	3.848
S165	05-19-7.5	Adam T. & Jesse L. Robinson	2.64
S166	05-19-7.1	Robert L. Shields Et Ux	3.399
S168	05-19-20.2	Cassandra L. Harmon	7.448
S169	05-19-05	Margirene Keefe	126.03
S170	05-19-7.2	Olan Rutan	2.783
S171	05-19-7.4	Olan V. Rutan, Et Ux	1.787
S172	05-19-7.3	Olan V. Rutan Et Ux	0.341
S173	05-19-06	Belinda Kay Meadows, Rebecca Ann Shields & Olan V. Rutan	5.1099
S174	05-14-11	Dale R. Gallaher Et Al	12.0
S175	05-14-10.4	Adam R. & Jesse L. Robinson	3.343
S176	05-14-10.2	Ida Belle Rutan-Life, Ralph R. Hoyt	0.495
S177	05-14-10.1	Ida Belle Rutan-Life, Ralph R. Hoyt	0.5
S178	05-14-9.5	Maria T. Flores	6.024
S179	05-14-9.1	Maria T. Flores	2.882
S180	05-12-17	Joni Lyn Leon	0.752



P.S. 708 *David L Jackson*

10/21/2022

<p>TUG HILL OPERATING</p>	OPERATOR'S	WELL #:	MCMASTERS N-12HU	WELL PLAT
	DISTRICT:	Franklin		PAGE 4 OF 4
	COUNTY:	Marshall		DATE: 10/05/2022
	STATE:	WV		
	API #:	47-051-02316		