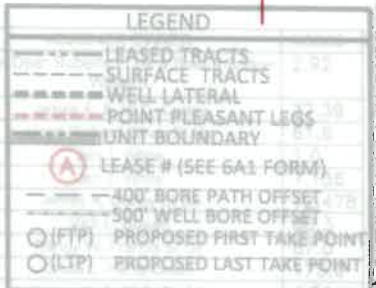
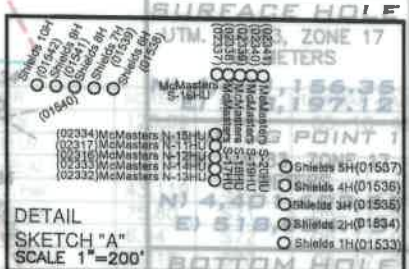
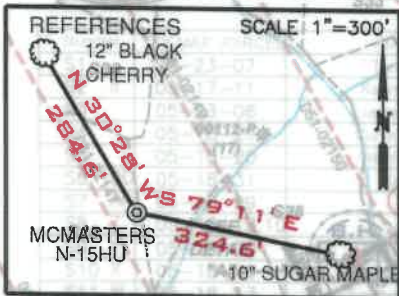
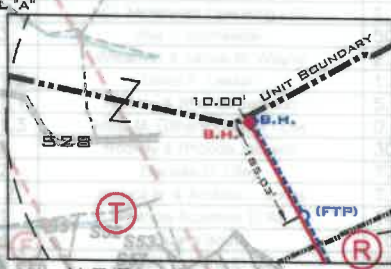
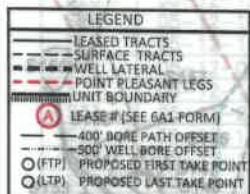


MCMASTERS LEASE WELL N-15HU 553.1085± ACRES



LINE	BEARING	DISTANCE
L1	N 71°28' W	1421.46'
L2	S 40°41' W	1294.31'
L3	N 68°25' E	206.55'
L4	N 73°00' E	347.79'
L5	N 70°23' E	1090.18'
L6	N 67°23' E	453.87'

SURFACE HOLE	
UTM. NAD83, ZONE 17 IN METERS	
N	4,401,156.34
E	518,197.07
LANDING POINT 1	
UTM. NAD83, ZONE 17 IN METERS	
N	4,401,690.80
E	518,906.17
BOTTOM HOLE	
UTM. NAD83, ZONE 17 IN METERS	
N	4,404,404.22
E	517,358.25



CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 75°13' E	396.15'	1104.41'	398.31'
C2	N 50°23' E	139.21'	252.50'	141.04'
C3	N 14°44' E	295.70'	408.97'	302.55'
C4	N 14°03' W	318.68'	1286.95'	319.50'
C5	N 25°50' W	235.37'	1325.97'	235.68'

- 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 0058304.0401.147.

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

FILE NUMBER: 5112
 DRAWING NUMBER: MCMASTERS N-15HU 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



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

DATE: OCTOBER 10, 2022
 OPERATORS WELL NO: MCMASTERS N-15HU
 API WELL NO: 47-051-02334
 STATE: MARSHALL COUNTY
 WELLS TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION ELEVATION: 1207.75' WATERSHED (HUC-10) FISH CREEK (HUC-10)
 DISTRICT: FRANKLIN COUNTY
 QUADRANGLE: POWHATAN 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 CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY): **ASDRILLED**
 TARGET FORMATION: POINT PLEASANT
 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
 ESTIMATED DEPTH: TVD: 11,484' TMD: 22,491'

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

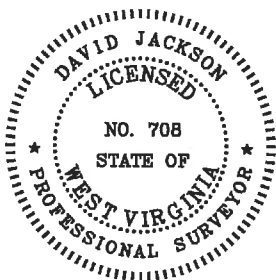
(TH) 11,509'

COUNTY NAME: MARSHALL PERMIT: 587, 588, 30506

**MCMASTERS LEASE
WELL N-15HU
553.1085± ACRES**

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S137	05-19-11	Ernie L. Anderson Et Ux	0.08
S138	05-19-10	Ernie L. Anderson Et Ux	0.8125
S139	05-19-09	Penny Elaine Ashcraft	10.44
S140	05-19-20	Wilbert H. Bungard Et Ux	114.989
S141	05-19-20.3	Sidney Harmon	3.715
S142	05-19-20.1	John J. Ebert-Life	3.848
S143	05-19-7.5	Adam T. & Jesse L. Robinson	2.64
S144	05-18-1.1	Charles F. & Diana L. Haynes	0.392
S145	05-19-08	CNX Gas Company LLC	40.0
S146	05-14-07	Olan V. Rutan Et Ux	32.4801
S147	05-19-7.4	Olan V. Rutan Et Ux	1.787
S148	05-19-7.3	Olan V. Rutan Et Ux	0.341
S149	05-19-7.2	Olan Rutan	2.783
S150	05-19-7.1	Robert L. Shields Et Ux	3.399
S151	05-19-20.2	Cassandra L. Harmon	7.448
S153	05-19-05	Margjirene Keefe	126.03
S154	05-19-06	Belinda Kay Meadows, Rebecca Ann Shields & Olan V. Rutan	5.1099
S155	05-14-11	Dale R. Gallaher Et Al	12.0
S156	05-14-10.4	Adam R. & Jesse L. Robinson	3.343
S157	05-14-12	Dale R. Gallaher Et Al	135.10
S158	05-14-14	Robert L. Shields Et Al	29.05
S159	05-14-12.1	Henry Wilson Plunkert Jr.	5.0
S160	05-14-10	Wanda P. Rine-Life	107.372
S161	05-18-3.1	Nikki L. & Jonathan Stevens	2.223

Lease No.	Tax	Parcel	Lessor	Book	Page
10*14116	A	5-18-2	DONALD SHIELDS	669	367
10*14030	B	5-18-23	LOIS V YOHO	665	551
10*14109	C	5-18-3	MARTHA M RUTAN	668	636
10*17454	D	5-18-6	MARGARET A BONNETT	940	431
10*17222	E	5-18-15.3	JAMES W AND DOLLE M FOSTER	940	429
10*22432	F	5-18-15.4	EDWARD LEE BURGE SR	961	413
10*19140	G	5-18-5	TERREL L MELOTT	704	26
10*19032	H	5-18-4	JAN I ARNOLD AND MARSHAA ARNOLD	813	111
10*19339	I	5-15-10	MARK STANLEY RUCKMAN	741	75
10*19018	J	5-15-11	BENJAMIN FRANKLIN HENRY FREDRICK ALLEN HENRY	746	5
10*19337	K	5-15-12	JACK PETROCK HATTIE PETROCK	741	68
10*19337	L	5-15-14	JACK PETROCK HATTIE PETROCK	741	68
10*19309	M	5-15-2	KAREN I DENNY	798	551
10*14116	N	5-15-15	DONALD SHIELDS	669	367
10*14042	O	5-15-1	RALPH B TAYLOR	665	487
10*19030	P	5-15-3	KATHLEEN R CUSTEAD	806	39
10*14067	Q	5-14-13	REVA FRANZE	666	51
10*16913	R	5-11-15	LIONEL LAND MARY LEE PERSINGER	976	626
10*19009	S	5-12-11	LAMOYNE BAKER	665	554
10*16918	T	5-12-12.1	LIONEL LAND MARY LEE PERSINGER	976	617
10*14503	U	5-18-7	IMA LEE YOHO	756	85
10*14503	V	5-18-16	IMA LEE YOHO	756	85
10*14099	W	5-18-13	SOUTHERN CO UNTRY FARMS INC	666	489
10*14099	X	5-18-99	SOUTHERN CO UNTRY FARMS INC	666	489
10*14099	Y	5-18-30	SOUTHERN CO UNTRY FARMS INC	666	489
10*14099	Z	5-18-13.10	SOUTHERN CO UNTRY FARMS INC	666	489
10*17431	AA	5-18-29	SOUTHERN CO UNTRY FARMS INC	618	448
10*17456	BB	5-18-13.8	LORI D CARPENTER	941	223
10*14095	CC	5-17-10	JAMES A AND JILL C CORLEY	666	545
10*17780	DD	5-18-31	KENNETH E PASTALL	932	434
10*17456	EE	5-18-32.1	LORI D CARPENTER	941	223
10*17780	FF	5-18-32	KENNETH E PASTALL	932	434
10*14134	GG	5-17-12	JAMES A AND JILL C CORLEY	706	130
10*14134	HH	5-17-12.1	JAMES A AND JILL C CORLEY	706	130
10*14126	II	5-17-11	SHARON MIDCAP	697	152



P.S.
708

David L Jackson

10/21/2022



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: MCMASTERS N-15HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 47-051-02334

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