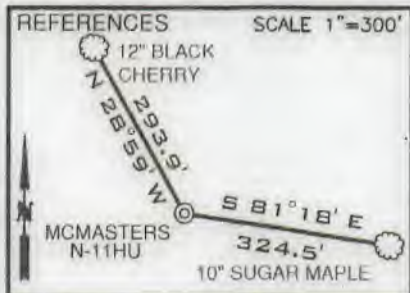
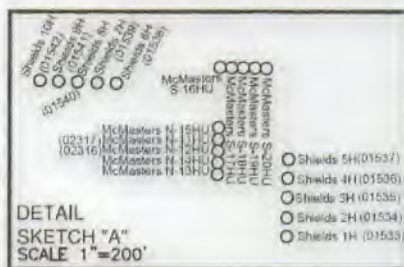


MCMASTERS LEASE
WELL N-11HU
539.4997± ACRES



TOP HOLE LATITUDE: 39°47'30"

BOTTOM HOLE LATITUDE: 39°50'00"

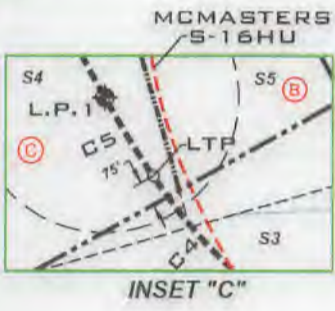
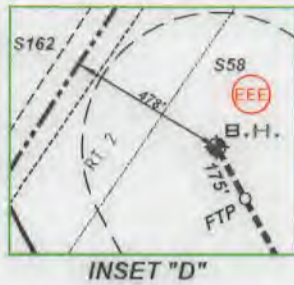


(BH) BOTTOM HOLE LONGITUDE: 80°47'30"

(TH) TOP HOLE LONGITUDE: 80°45'00"

(BH) 14,106'

(TH) 11,521'



SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS

N) 4,401,152.69
E) 518,197.09

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS

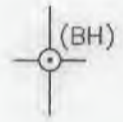
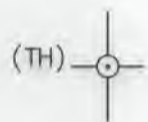
N) 4,400,938.82
E) 517,584.21

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS

N) 4,404,982.76
E) 515,264.70

LINE	BEARING	DISTANCE
L1	S 71°00' E	1425.18'
L2	S 41°01' W	1285.18'
L3	S 48°27' W	1892.30'

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS



- NOTES
- BORE PATH BASED ON GRID NORTH.
 - NO WATER WELLS WITHIN 120' 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

LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE SA1 FORM)
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- (FTP) PROPOSED FIRST TAKE POINT
- (LTP) PROPOSED LAST TAKE POINT

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 67°05' W	42.68'	66.96'	43.43'
C2	N 78°31' W	86.51'	136.18'	87.19'
C3	N 56°57' W	123.68'	426.80'	124.12'
C4	N 44°36' W	209.94'	1238.04'	210.19'
C5	N 33°55' W	440.85'	2275.62'	450.58'

FILE NUMBER _____

DRAWING NUMBER: MCMASTERS_N-11HU_REV1

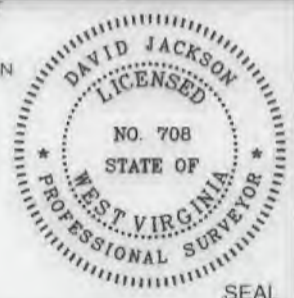
SCALE: 1" = 2000'

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



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 1207.50' 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 104.11

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: 11,398' TMD: 27,178'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

form wv6

MCMASTERS LEASE WELL N-11HU 539.4997± ACRES

LEGEND

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

SCALE 1" = 2000'

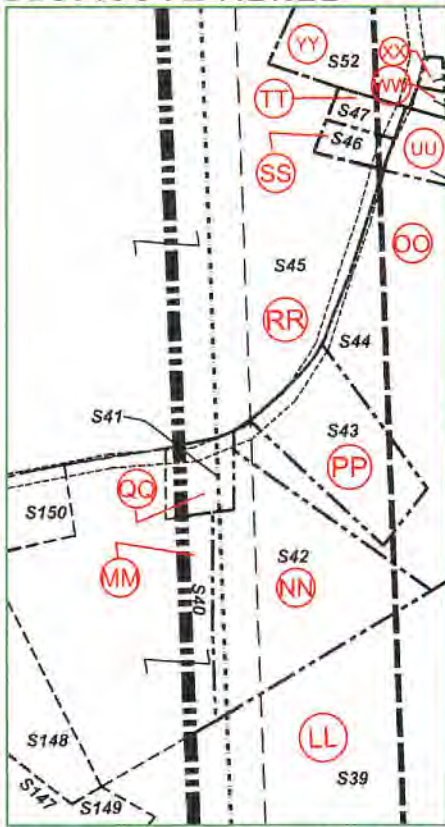


P.S. 708 *David L Jackson*

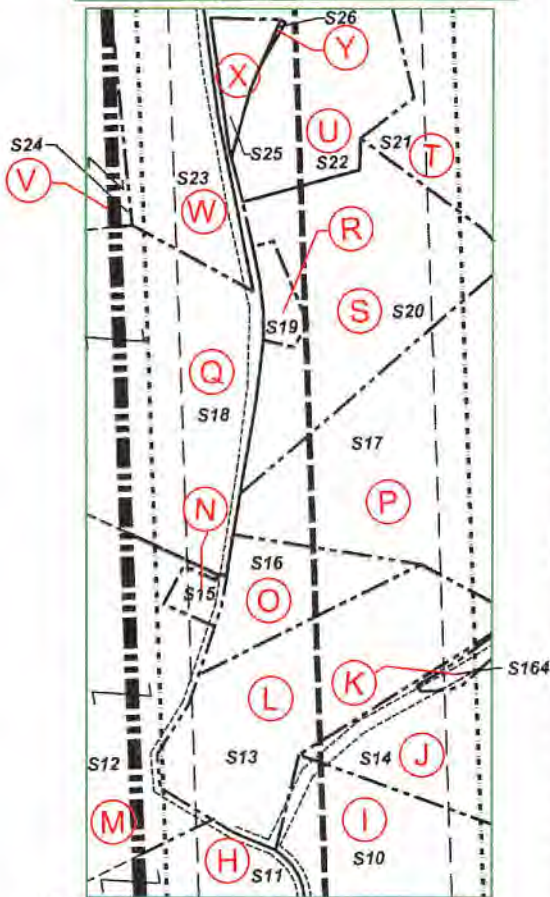
47-051-02317 H6A

 <p>TUG HILL OPERATING</p>	OPERATOR'S	WELL PLAT
	WELL #: MCMASTERS N-11HU	PAGE 2 OF 4
	DISTRICT: Franklin	DATE: 02/12/2020
	COUNTY: Marshall	REVISED: 09/17/2020
	STATE: WV	
API #: 47-051-02317		

PG 3 OF 4 MCMASTERS LEASE
WELL N-1 1HU
539.4997± ACRES



INSET
"B"



INSET
"A"



P.S. 708 *David L Jackson*

Number	TAX MAP - PARCEL	ADJOINER OWNER	ACRES
S1	05-18-02	Robert L. Shields, Et Al	104.11
S2	05-18-24	Duane Brunn	102.0
S3 A	05-19-18	Mark E. Yoho, Et Ux	55.948
S4 C	05-19-24	Mark E. Yoho	15.436
S5 B	05-19-17	Mark A. Yoho	15.263
S6 D	05-19-25	David E. Yoho & Mark E. Yoho	9.976
S7 E	05-19-26	Roger J. & Beth E. James	9.977
S8 F	05-19-16.1	Robert L. & Rebecca A. Shields	2.307
S9 G	05-19-16	Robert L. Shields & Donald Shields	11.612
S10 I	05-19-14	James & Sherry Beagle	18.356
S11 H	05-19-27	David E. Yoho & Mark E. Yoho	7.041
S12 M	05-19-28	David E. Yoho & Mark E. Yoho	56.899
S13 L	05-19-31	Charles F. & Diana L. Haynes	8.779
S14 J	05-18-01	Diana Henry Haynes & Carol C. Henry	62.908
S15 N	05-19-32	Jasper N. Burch, Et Al-Trustees	0.397
S16 O	05-19-30.1	Eric R.W. & Ashley A. Huggins	2.911
S17 P	05-19-30	Ernie & Tammy Anderson	19.037
S18 Q	05-19-19	Russell Blake, Et Ux	66.4
S19 R	05-19-15	Carly Herran	0.72
S20 S	05-19-29	Ernie L. & Tammy L. Anderson	10.961
S21 T	05-19-13	Rona Lee Rice & Charles Franklin Mccardle	94.925
S22 U	05-19-12	Ernie L. Anderson, Et Ux	5.33
S23 W	05-19-09	Penny Elaine Ashcraft	10.44
S24 V	05-19-20	Wilbert H. Bungard, Et Ux	114.989
S25 X	05-19-10	Ernie L. Anderson, Et Ux	0.8125
S26 Y	05-19-11	Ernie L. Anderson, Et Ux	0.08
S27 Z	05-19-08	CNX Gas Company LLC	40.0
S28 AA	05-19-7.5	Adam T. & Jesse L. Anderson	2.64
S29 CC	05-19-7.1	Robert L. Shields, Et Ux	3.399
S30 DD	05-19-7.2	Olan Rutan	2.783
S31 FF	05-19-7.3	Olan V. Rutan	0.341
S32 BB	05-19-07	Olan V. Rutan, Et Ux	32.4801
S33 GG	05-19-7.4	Olan V. Rutan, Et Ux	1.787
S34 EE	05-19-06	Belinda Kay Meadows, Rebecca Ann Shields & Olan V. Rutan	5.1099
S35 II	05-19-05	Margirene Keefe	126.03
S36 HH	05-14-11	Dale R. Gallaher, Et Al	12.0
S37 JJ	05-14-12	Dale R. Gallaher, Et Al	135.10
S38 KK	05-14-10.4	Adam R. & Jesse L. Robinson	3.343
S39 LL	05-14-10	Wanda P. Rine, Life	107.372
S40 MM	05-14-09	Walter W. Streight Jr. Et Ux.	9.311
S41 QQ	05-14-19	Brian A. & Charlotte Mull	0.92
S42 NN	05-14-9.5	Maria T. Flores	6.024
S43 PP	05-14-9.1	Maria T. Flores	2.882
S44 OO	05-14-9.2	Maria T. Flores	25.0
S45 RR	05-14-05	Donna K. & Leroy Anderson	110.5
S46 SS	05-12-19	Joni Lyn Leon	0.457
S47 TT	05-12-20	Joni Lyn Leon	0.457
S48 WW	05-12-17	Joni Lyn Leon	0.752
S49 UU	05-12-18	Joni Lyn Leon	1.018
S50 WW	05-12-16.1	Gary E. Gibson, Et Al	0.146
S51 XX	05-12-16	Gary E. Gibson, Et Al	0.104
S52 YY	05-12-21	Edward L. Gibson-Life	73.436
S53 ZZ	05-12-14	Linda Hamilton, Et Al	117.495
S54 AAA	05-12-15	Woodland Hill Church of God TRS	0.375
S55 BBB	05-12-21.1	Robert W. Jr. & Wendy L. Riggerbach	14.222
S56 DDD	05-12-07	Robert WM Riggerbach, Et Ux	104.231
S57 CCC	05-12-23	CNX Land Resources Inc.	236.1
S58 EEE	05-12-06	CNX Land Resources Inc.	70.81
S59 FFF	05-12-05	CNX Land Resources Inc.	61.883
S60	05-12-04	CNX Land Resources Inc.	0.93
S61	05-12-5.1	CNX Land Resources Inc.	0.52
S62	05-12-03	CNX Land Resources Inc.	62.30
S63	05-12-01	United States of America	1.68
S64	05-12-2.1	Consolidation Coal Company/ Murray Energy	22.0
S65	05-12-02	CNX Land Resources Inc.	60.68
S66	05-12-08	Anita Ray Miller-Life	100.35
S67	05-12-13	Linda Hamilton, Et Al	41.887
S68	05-12-7.2	Raymond K. Miller	4.66
S69	05-12-7.1	Raymond K. Miller	1.609
S70	05-12-13.1	Raymond K. Miller	0.113
S71	05-11-15	Lionel L. Persinger, Et Ux	93.0
S72	05-14-13	Ralph D. & Sally Jane Hoyt	222.18
S73	05-15-01	Marcus Sharp & Anglea R. Schlach	121.0
S74	05-14-12.1	Henry Wilson Plunkert Jr.	5.0
S75	05-14-14	Robert L. Shields, Et Al	29.05
S76	05-14-15	Robert L. Shields, Et Al	53.0
S78	05-19-13.1	Donald Shields	0.80
S79	05-15-15	Robert L. Shields, Et Al	49.0
S80	05-15-12	John David Petrock & Thomas Andrew Petrock	150.23
S81	05-15-11	Diana Henry Haynes & Carol Henry	65.59
S82	05-18-03	Olan V. & Patricia E. Rutan	43.677
S83	05-18-04	Olan & Patricia Rutan	65.89
S84	05-15-10	Mark Stanley Ruckman	153.75
S85	05-18-11.1	Edward Lee Burge, Jr.	18.0
S86	05-18-15	Edward Lee Burge, Jr.	2.495
S87	05-18-15.4	Edward Lee Burge, Jr.	22.34
S88	05-18-15.3	Charles Yeater	26.44
S89	05-18-05	Terry Melott	8.14
S90	05-18-23	XCL Midstream Operating LLC	110.0
S91	05-18-06	Charles Yeater	26.0
S92	05-18-07	Charles Yeater	24.22

47-051-02317

	OPERATOR'S	WELL PLAT
	WELL #: MCMASTERS N-11HU	PAGE 3 OF 4
	DISTRICT: Franklin	DATE: 02/12/2020
	COUNTY: Marshall	REVISED: 09/17/2020
	STATE: WV	
API #: 47-051-02317		

PG 4 OF 4 **MCMASTERS LEASE**
WELL N-11HU
539.4997± ACRES

Lease No.	Tags	Parcel	Lessor
10*14295	A	5-19-18	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE
10*14295	AA	5-19-7-5	SAMANTHA A RADER
Pending	AAA	5-12-15	MARGIERE KEFE, TRUSTEE OF WOODLAND HILL CHURCH OF GOD
10*14295	B	5-19-17	MARK E. YOHO AND MARY YOHO, HUSBAND AND WIFE
10*14423	BB	5-19-7	OLAN V & PATRICIA E RUTAN
10*29270	BBB	5-12-21.1	ROBERT W & WENDY L RIGGENBACH JR
10*14295	C	5-19-24	MARK E YOHO AND MARY YOHO, HUSBAND AND WIFE
10*16735	CC	5-19-7.1	ROBERT L SHIELDS AND REBECCA A SHIELDS
10*14698	CCC	5-12-23	CNX GAS COMPANY LLC CONSOL MINING COMPANY & CNX RCPG LLC, ET AL
10*14297	D	5-19-25	MARK E YOHO AND DAVID E YOHO
10*14423	DD	5-19-7.2	OLAN V & PATRICIA E RUTAN
10*19255	DDD	5-12-3	ROBERT W. RIGGENBACH & SHARON RIGGENBACH, HUSBAND AND WIFE
10*14501	E	5-19-26	ROGER J & BETH E JAMES
10*16994	EE	5-19-6	MARITHA M RUTAN
624146	EEE	5-12-6	OHIO POWDER COMPANY
10*16736	F	5-19-16.1	ROBERT L SHIELDS AND REBECCA A SHIELDS
10*14423	FF	5-19-7.3	OLAN V & PATRICIA E RUTAN
041112	FFF	5-12-5	COLUMBIAN CHEMICALS COMPANY
10*14116	G	5-19-18	DONALD SHIELDS, ET AL
10*14423	GG	5-19-7.4	OLAN V & PATRICIA E RUTAN
10*14297	H	5-19-27	MARK E YOHO AND DAVID E YOHO
10*14928	HH	5-14-11	JOSEPH D. PARRIOTT & NELLIE B. PARRIOTT, HUSBAND AND WIFE
10*14127	I	5-19-14	JAMES & SHERRY BEEGLE ET AL
10*14925	II	5-19-5	MOUNTAIN TOP PRODUCTIONS LLC
10*14141	I	5-18-1	LOIS BARRETT
10*14928	JJ	5-14-12	JOSEPH D. PARRIOTT & NELLIE B. PARRIOTT, HUSBAND AND WIFE
10*14141	K	5-18-1.3	LOIS BARRETT, ET AL
10*14420	KK	5-14-10.4	ELLIS V & WANDA P RINE
10*14938	L	5-19-31	CHARLES F AND DIANA L HAYNES
10*14420	LL	5-14-10	ELLIS V & WANDA P RINE
10*14297	M	5-19-28	MARK E YOHO AND DAVID E YOHO
10*14619	MM	5-14-9	SHIRLEY R MILLER, ET AL
10*18124	N	5-19-37	DAVID E YOHO
10*14619	NN	5-14-9.5	SHIRLEY R MILLER, ET AL
10*14579	O	5-19-30.3	ERNIE LANDERSON & TAMMEY L ANDERSON
10*14619	OO	5-14-9.2	SHIRLEY R MILLER, ET AL
10*14579	P	5-19-30	ERNIE LANDERSON & TAMMEY L ANDERSON
10*14619	PP	5-14-9.3	SHIRLEY R MILLER, ET AL
10*14634	Q	5-19-35	RUSSELL & MARY BLAKE
10*14619	QQ	5-14-9	SHIRLEY R MILLER, ET AL
10*26901	R	5-19-45	CARLY HERRAN
10*14619	RR	5-14-5	SHIRLEY R MILLER, ET AL
10*14579	S	5-19-29	ERNIE LANDERSON & TAMMEY L ANDERSON
10*14619	SS	5-12-39	SHIRLEY R MILLER, ET AL
10*14110	T	5-19-33	RONA LEE MCCARDLE, ET AL
10*14619	TT	5-14-10	SHIRLEY R MILLER, ET AL
10*14580	U	5-19-12	ERIN LANTIERON & TAMMEY L ANDERSON
10*14619	UU	5-12-28	SHIRLEY R MILLER, ET AL
10*14141	V	5-19-20	DAVID & DEBORAH TAKACH
10*14619	VV	5-17-17	SHIRLEY R MILLER, ET AL
10*26995	W	5-19-9	STONE HILL MINERALS HOLDINGS LLC, ET AL
0075905000	WW	5-12-16.1	GARY E GIBSON AND RANDALL D GIBSON, ET AL
10*14580	X	5-19-10	ERNIE LANDERSON & TAMMEY L ANDERSON
0075905000	XX	5-12-16	GARY E GIBSON AND RANDALL D GIBSON
10*14580	Y	5-19-11	ERNIE LANDERSON & TAMMEY L ANDERSON
10*24492	YY	5-12-21	EDWARD L GIBSON AND VIOLET L GIBSON ET AL
10*14571	Z	5-19-8	MATTHEW S & BRENDA S ANDERSON
10*21769	ZZ	5-12-14	BETTY HAMILTON, ET AL

Number	TAX MAP - PARCEL	ADJOINER OWNER	ACRES
S93	05-18-15.5	Darrell & Teresa Boley	23.547
S94	05-18-10.1	David V Anderson, Et Ux	1.65
S95	05-18-10.2	David V Anderson, Et Ux	1.377
S96	05-18-10	David & Nancy Anderson	0.907
S97	05-18-12	William L. Wayne, Et Ux	2.270
S98	05-18-16	Charles Yeater	17.768
S99	05-18-13	Southern Sountry Farms Inc.	11.054
S100	05-18-59	Southern Country Farms Inc.	15.79
S101	05-18-30	Jon Schmidt, Et Al	5.46
S102	05-18-13.10	Carl Berg	10.88
S103	05-18-29	Carl G. Berg	5.319
S104	05-18-31	Kenneth E Rastall	6.94
S105	05-18-32	Kenneth E. Rastall	5.335
S106	05-18-32.1	Lori D. Carpenter	5.545
S107	05-18-13.8	Lori D. Carpenter	5.545
S108	05-18-20	Wayne E. Channing, Et Al	75.6
S109	05-18-21	Curtis E. & Michelle J. Hall	43.119
S110	05-18-21.3	Stone Hill Minerals Holdings, LLC	0.811
S111	05-18-21.2	David P. Lissan	1.0
S112	05-18-21.1	Rodney & Rhonda Jackson	5.47
S113	05-18-22	Rodney & Rhonda Jackson	30.345
S114	05-23-2.1	William L. & Janice M. Wayne	2.364
S115	05-23-03	Abe J. Hochstetler	50.0
S116	05-23-02	Danielle D. Lilley	77.636
S117	05-23-04	Abe J. Hochstetler	100.70
S118	05-23-01	Patricia Accettolo, Et Al	146.66
S119	05-22-05	CNX Gas Company LLC	134.425
S120	05-22-5.1	Williams Ohio Valley Midstream LLC	12.875
S121	05-22-06	CNX Gas Company LLC	64.70
S122	05-22-08	T.H. Exploration III LLC	48.44
S123	05-22-10	T.H. Exploration III LLC	58.40
S125	05-22-16	Edward R. Yoho Jr.	57.0
S126	05-22-17	CNX Gas Company LLC	37.5
S127	05-22-04	CNX Gas Company LLC	159.05
S128	05-19-18.2	Paul V. & Carol Neely	32.672
S129	05-19-18.1	Mark E. Yoho, Et Ux	2.57
S131	05-19-21	Sammy E. Whittatch, Et Al	116.45
S133	05-19-20.3	Sidney Harmon	3.715
S134	05-19-20.1	John J. Ebert-Life	3.848
S135	05-19-20	Wilbert H. Bungard, Et Ux	114.989
S136	05-19-20.2	Cassandra L. Harmon	7.448
S137	05-14-10.1	Ida Belle Rutan-Life, Ralph R. Hoyt	0.5
S138	05-14-10.2	Ida Belle Rutan-Life, Ralph R. Hoyt	0.495
S139	05-19-04	Justin Rine	82.75
S140	05-19-03	Milton R. & Linda L. Neal	72.01
S141	05-19-22	George A. Knuth & Kelly A. Knuth	71.0
S142	05-19-23	WSD Properties LLC	28.4
S143	05-19-02	Milton R. & Linda L. Neal	63.1
S144	05-14-02	John B. Williams, Et Al	20.71
S145	05-14-03	Leroy & Donna K. Anderson	130.0
S146	05-14-08	Lawrence Eugene Anderson	18.29
S147	05-14-9.3	Vernie A. Rine, Et Ux	4.118
S148	05-14-9.4	Vernie A. Rine, Et Ux	3.404
S149	05-14-10.3	Vernie A. & Jody K. Rine	1.54
S150	05-14-17	Justin E. & Jody Rine	1.1044
S151	05-14-16	George E. Knuth	1.6386
S152	05-14-07	Donna K. & Leroy Anderson	4.60
S153	05-14-04	Leroy & Donna K. Anderson	29.29
S154	05-13-32	C. Patricia Wobig	103.66
S155	05-12-22	CNX Land Resources Inc.	0.944
S156	05-12-24.3	CNX Land Resources Inc.	18.523
S157	05-12-24.1	WV DOH	0.994
S158	05-12-23.1	James N. Daugherty	0.28
S159	05-12-23.3	WV DOH	0.11
S160	05-12-23.2	Consolidation Coal Co./Murray Energy & CNX Land Resources Inc.	12.5
S161	05-12-6.1	WV DOH	0.31
S162	05-12-6.2	Consolidation Coal Company/ Murray Energy	25.5
S163	05-18-3.1	Nikki L. & Jonathan Stevens	2.22
S164 K	05-18-1.1	Charles F. & Diana L. Haynes	0.392



P.S. 708 *David L Jackson*

47-051-02317



TUG HILL
OPERATING

OPERATOR'S
 WELL #: McMasters N11-HU
 DISTRICT: Franklin
 COUNTY: Marshall
 STATE: WV
 API #: 47-051-02317

WELL PLAT
 PAGE 4 OF 4
 DATE: 02/12/2020
 REVISED: 09/17/2020