

BRYAN LEASE BRYAN WELL N-7HM 921.878± ACRES

Kentucky Power Company
& A.E.F. Generation
Resources, Inc.
05-5-12
165.0

John F. Arruda, Et Ux
05-5-4.1
1,399

Edwin C. Miller
05-08-07
180.31 Ac.

James E. Jackson
Jr. et ux
05-08-09
89.723

Edwin Miller
05-09-31
32.10Ac.

Karen Reed,
et al
05-11-21
112.67 Ac.

0688-P
M(17)

Lionel L. Persinger,
Et Ux
05-12-12.1
148.09 Ac.

Lionel L. Persinger, Et Ux
05-11-15
93.0 Ac.

Hiram's Estate
Family, LTD LLP
02000 05-11-14
(16) 158.054 Ac.

Joseph J. Kramer, Et Ux
05-16-04
41.106 Ac.

Joseph J. Kramer, Et Ux
06-16-05
35 Ac.

John David Patrook et ux
05-16-12
150.23 Ac.

Mark Stanley Ruckman
05-15-10
183.79 Ac.

Bryan N-7HM

John Swierkos
05-16-25
79.04 Ac.

John Swierkos
05-16-04
0.96 Ac.

John Swierkos
05-16-05
62.07 Ac.

John Swierkos
05-16-06
134.05 Ac.

John Swierkos
05-16-03
71.205 Ac.

John Swierkos
05-16-03
71.205 Ac.

John Swierkos
05-16-03
71.205 Ac.

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05-16-03
71.205 Ac.

John Swierkos
05-16-03
71.205 Ac.

14" RED MAPLE
14" RED MAPLE

NOTES:
1. BORE PATH BASED ON GRID NORTH.
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND, NO DWELLINGS WITHIN 625' OF PAD CENTER WERE FOUND.
3. OWNERSHIP TAKEN FROM PUBLIC RECORDS OF MARSHALL COUNTY, WV IN MARCH, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

TOP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°50'00"

(BH) 11,606' (TH) 7,523'
S-11HM(02022) O
S-9HM(01979) O
S-9HM(01980) O
S-10HM(02006) O
N-4HM(02076) O
1H(01340) O
N-2HM(01889) O
N-3HM(02000) O
N-7HM(01978) O
N-6HM(01977) O
N-5HM(02077) O
N-14HU(02031) O
N-13HU(02030) O
N-12HU(02026) O

DETAIL SKETCH "A"
SCALE 1"=800'

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



CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 67°13' E	105.40'	719.54'	105.49'
C2	N 61°35' E	47.65'	151.74'	47.85'
C3	N 53°39' E	48.53'	373.18'	48.56'
C4	N 73°21' E	141.32'	1547.08'	141.37'
C5	N 68°33' E	132.73'	801.06'	132.88'
C6	N 71°02' E	532.87'	7503.57'	532.98'
C7	N 46°36' E	183.36'	238.76'	188.20'
C8	N 23°30' E	278.85'	2393.83'	279.01'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,891.75
E) 519,134.22

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,423.83
E) 519,845.63

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,406,838.75
E) 517,878.75

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C9	N 03°24' E	237.71'	532.69'	239.73'
C10	N 16°33' W	175.22'	946.51'	175.47'
C11	N 27°09' W	133.82'	1478.85'	133.87'

LEGEND
LEASE TRACTS
SURFACE TRACTS
UNIT BOUNDARY
LEASE # (SEE 6A1 FORM)

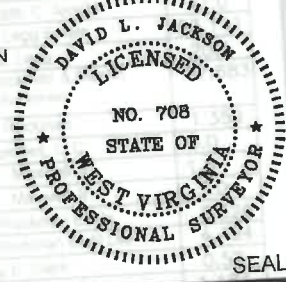
LINE	BEARING	DISTANCE
L1	N 42°54' E	2906.37'
L2	N 83°09' E	1982.75'
L3	N 54°45' E	30.61'
L4	N 74°48' E	68.94'
L5	N 69°14' E	31.95'
L6	N 77°52' E	85.80'
L7	N 71°39' E	81.62'
L8	N 74°30' E	83.84'
L9	N 69°00' E	474.55'
L10	N 70°47' E	496.09'

FILE NUMBER _____
DRAWING NUMBER BRYAN_WP_N-7HM
SCALE 1" = 2500'
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

DATE: OCTOBER 27, 2020

OPERATORS WELL NO. BRYAN N-7HM
API WELL NO. 47-051-01978
STATE WV COUNTY MARSHALL PERMIT SEE WW-6A1 FORM

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

LOCATION ELEVATION 1191.6' WATERSHED (HUC 10) Fish Creek
DISTRICT Franklin COUNTY Marshall
QUADRANGLE Powhatan Point 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER CNX LAND RESOURCES, INC. ACREAGE 81.98

OIL & GAS ROYALTY OWNER MICHAEL R. BRYAN - SEE WW 6A1 OPERATOR'S LEASE ACREAGE 81.98
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) As Drilled

TARGET FORMATION Marcellus ESTIMATED DEPTH TVD: 6,371' TMD: 20,806'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

BRYAN LEASE WELL N-7HM 921.878± ACRES

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& A.E.P. Generation
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180.31 Ac.

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05-08-09
83.723 Ac.

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32.10 Ac.

Karen Reed, et al
05-11-21
112.67 Ac.

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148.09 Ac.

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93.0 Ac.

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05-15-04
11.106 Ac.

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35 Ac.

John David Petrock et ux
05-15-12
150.23 Ac.

Mark Stanley Ruckman
05-15-10
153.75 Ac.

John Swierkos
05-16-04
0.96 Ac.

John Swierkos
05-16-05
52.07 Ac.

John Swierkos
05-16-06
134.05 Ac.

John Swierkos
05-16-04
0.96 Ac.

John Swierkos
05-16-25
79.04 Ac.

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134.05 Ac.

John Swierkos
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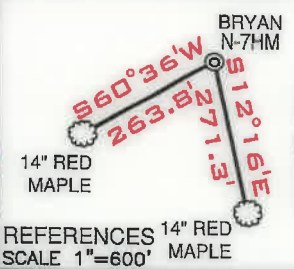
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OP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°50'00"

S-11HM(02022) O
S-8HM(01979) O
S-8HM(01980) O
S-10HM(02006) O
N-4HM(02076) O
1H (01340) O
N-2HM(01995) O
N-3HM(02000) O

N-7HM(01978) O
N-6HM(01977) O
N-5HM(02077) O
N-14HU(02031) O
N-13HU(02030) O
N-12HU(02029) O

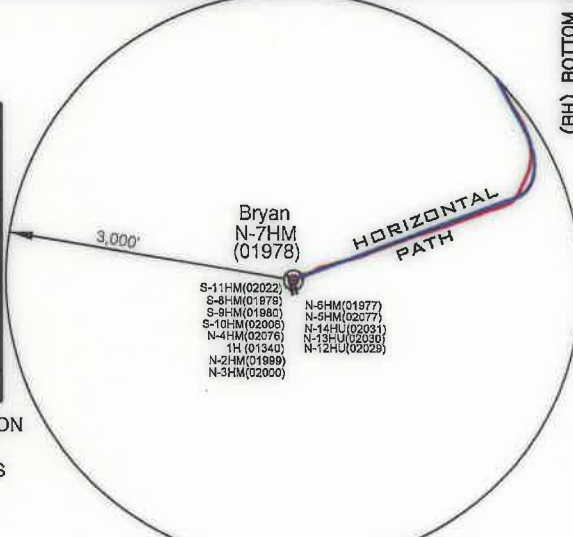
DETAIL SKETCH "A" SCALE 1"=800'

(BH) 11,606'
(TH) 7,523'
(BH) 5,030'
(TH) 5,818'
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(TH) TOP HOLE LONGITUDE: 80°45'00"

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LEGEND

- LEASED TRACTS
- SURFACE TRACTS
- UNIT BOUNDARY
- LEASE # (SEE 6A1 FORM)

LINE	BEARING	DISTANCE
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UTM. NAD83, ZONE 17
IN METERS
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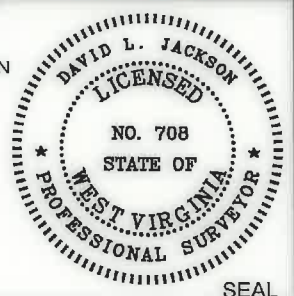
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JACKSON SURVEYING INC.
P.O. Box 1460
Clarksburg, WV 26302
304-623-6851

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 ___ SHALLOW X

LOCATION ELEVATION 1191.6' WATERSHED (HUC 10) Fish Creek

DISTRICT Franklin COUNTY Marshall

QUADRANGLE Powhatan Point 7.5' LEASE NUMBER SEE WW-6A1 Form

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OIL & GAS ROYALTY OWNER MICHAEL R. BRYAN - SEE WW 6A1 LEASE ACREAGE 81.98

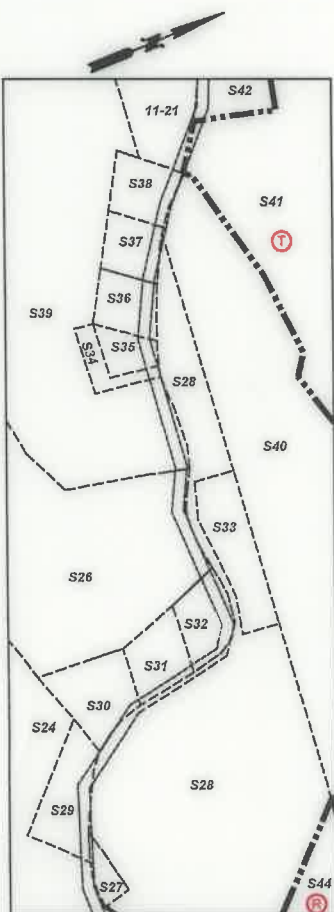
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) AsDrilled

TARGET FORMATION Marcellus ESTIMATED DEPTH TVD: 6,371' TMD: 20,806'

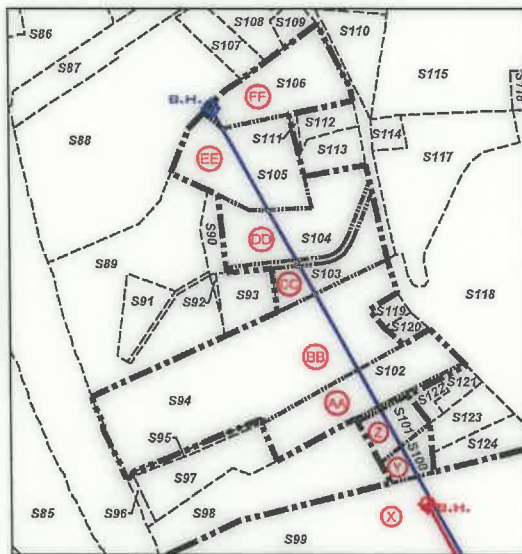
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
1320 SOUTH UNIVERSITY DRIVE, SUITE 500 CT CORPORATION SYSTEM
FORT WORTH, TX 76107 ADDRESS 5400 D BIG TYLER ROAD
CHARLESTON, WV 25313

COUNTY NAME
PERMIT

**BRYAN LEASE
WELL N-7HM
921.878± ACRES**



DETAIL "A"
SCALE 1"=500'



DETAIL "C"
SCALE 1"=500'



DETAIL "B"
SCALE 1"=250'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS

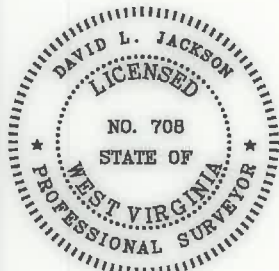
N) 4,402,891.79
E) 519,134.24

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS

N) 4,403,388.76
E) 519,861.96

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS

N) 4,407,228.96
E) 517,660.52



P.S.
708

David L Jackson



TUG HILL
OPERATING

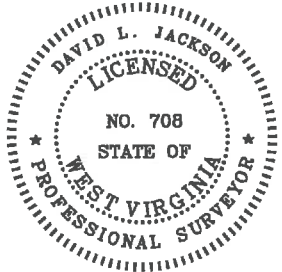
OPERATOR'S
WELL #: Bryan N-7HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 047-051-01978

WELL PLAT
PAGE 2 OF 3
DATE: 10/27/2020

**BRYAN LEASE
WELL N-7HM
921.878± ACRES**

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S1	05-15-9	CNX Land Resources, Inc.	81.98
S2	05-15-8	Terry D. Rose, et ux	77.11
S3	05-15-7	Terry D. Rose, et ux	4.5
S4	05-15-6.1	Joseph J. Kramar, et ux	39.40
S5	05-15-6	Joseph J. Kramar, et ux	42.5
S6	05-15-13	CNX Land Resources, Inc.	11.0
S7	05-15-14	John David Petrock, et ux	25.0
S8	05-15-2	John David Petrock, et ux	5.0
S9	05-15-1	Marcus Sharp & David Schlabach, Hrs.	121.0
S10	05-15-3	Joseph J. Kramar, et ux	36.10
S11	05-11-12	Joseph J. Kramar, et ux	43.2188
S12	05-11-13	Joy D. Gartman & Arlin Gatts	12.29
S13	05-11-11.3	Herman D. Lantz	43.96
S14	05-11-11.1	Nellie Marie & Robert W. Spencer	5.813
S15	05-11-11.4	Brad M. & Amanda J. Blake	15.193
S16	05-11-11	Brad M. & Amanda J. Blake	5.0
S17	05-11-9	Edwin C. & Kimberly A. Miller	54.625
S18	05-11-9.9	Leonard L. Parsons, et ux	5.89
S19	05-11-9.6	Southern Country Farms, Inc	2.488
S20	05-11-9.5	Southern Country Farms, Inc	2.559
S21	05-11-9.3	Joseph M. & Steven Haught	16.3
S22	05-11-16.2	Joseph Haught	2.181
S23	05-11-14.1	Dennis F. Moore, et ux	1.056
S24	05-11-16	Keith E. Haught, et al	83.674
S25	05-12-11	Wesley R. Bryan & Wesley R. Bryan II	52.478
S26	05-11-17.2	Brenda & Michael Bryan	11.504
S27	05-11-5.1	James R. Anderson, et ux	0.205
S28	05-11-5	Kevin R. Corley, et ux	10.36
S29	05-11-16.1	Susan Marie Smith, (Life)	0.876
S30	05-11-25	Owen Michael Barr	0.598
S31	05-11-23	Owen Michael Barr	0.845
S32	05-11-24	Charles Edward Furbie, et ux	0.603
S33	05-11-5.2	Rickey Lynn & Victoria Rose Cross	1.0
S34	05-11-17.1	David Gray	0.297
S35	05-11-22	David Gray	0.353
S36	05-11-18	David E. Gray	0.569
S37	05-11-19	David E. Gray	0.532
S38	05-11-20	David E. Gray	0.569
S39	05-11-17	Kevin R. Corley, et ux	36.13
S40	05-11-3	Kevin R. Corley, et ux	13.18
S41	05-11-2	Walter C. Cheryl A. Rine	42.367
S42	05-11-2.1	Walter C. & Cheryl A. Rine	1.19
S43	05-11-2.2	Joshua A. Myers	2.193
S44	05-11-5.3	Robert Harris Arrick, et ux	3.0
S45	05-11-1.1	Larry W. Dunlap & Charles Lee Dunlap	34.405
S46	05-11-1.2	Jay A. Conner, et ux	5.824
S47	05-8-9.1	Scott E. Jackson, Tammy S. South & Marion Jackson	1.957
S48	05-11-1.4	Larry W. Dunlap, et al	32.493
S49	05-7-32	William N. & Virginia A. Roupe	4.2
S50	05-7-33	William N. Roupe	24.60
S51	05-7-31	William N. Roupe et ux	43.147
S52	05-11-1	William N. & Virginia A. Roupe	4.527
S53	05-11-1.6	Debra Morris	2.093
S54	05-11-1.7	William S. & Mary K. Adams	8.0
S55	05-11-1.5	Paul & Sandy Whitt	3.507
S56	05-11-4	David H. Arrick, et ux	31.5
S57	05-11-16.3	Kegan Michael Haught - Life	3.265
S58	05-11-6	Robert & Rebecca Arrick	1.29
S59	05-11-7	Baptist Cemetery	1.0
S60	05-11-8	Baptist Church	0.8
S61	05-11-9	Edwin C. & Kimberly A. Miller	54.625
S62	05-11-9.10	John A. & Janet L. Beucke	2.348
S63	05-11-9.2	Michael R. Bryan	3.143
S64	05-11-9.8	Sean F. Moore	2.070
S65	05-11-9.7	Sean F. Moore	2.026
S66	05-11-9.1	Jack Shephard Huggins Jr., et al	10.92
S67	05-11-9.4	Jack S. Huggins, et ux	4.129
S68	05-11-11.2	Wesley R. Bryan & Wesley R. Bryan II	25.031
S69	05-10-16.4	Melvin E. Jr. & Elizabeth Ferguson	30.87
S70	05-10-15.1	Donald T. Miller	2.095

Number	TAX MAP -PARCEL	ADJOINER OWNER	ACRES
S71	05-16-3.2	Jimmy Lee Ostrander Jr., Sheena Lynn Ostrander & Brody Ray Ostrander	1.435
S72	05-16-3.1	Dennis Jackson, et ux	0.27
S73		Cemetery - No Deed	
S74	05-16-2	Christian Church	0.19
S75	05-16-1	Christian Church	0.50
S76	05-16-23.1	Ray E. Minor, et ux	2.0
S77	05-16-23.4	Michael R. & Brenda K. Bryan	3.0
S78	05-16-23.3	Greg & Christina Riddle	1.0
S79	05-16-24	Alan M. Beyser, et ux	1.083
S80	05-16-23.2	Alan M. Beyser, et ux	1.726
S81	05-16-23	CNX Land Resources, Inc.	60.138
S82	05-7-31.4	Grandview-Doolen PSD	0.23
S83	05-7-31.2	William N. Roupe Et Ux	3.304
S84	05-7-31.3	William N. & Virginia A. Roupe	0.230
S85	05-7-31.1	David L. & Lori M. Yoders	30.115
S86	05-8A-16	Jon David Fromhart	2.0
S87	05-8A-26	Albert James Anderson Jr.	1.605
S88	05-8A-27	Clarence S. Siburt, Et Ux	8.296
S89	05-8A-39	Barbara L. Daniels & Elaine Wills	3.223
S90	05-8A-38	William J. Gamble, Et Ux	0.354
S91	05-8A-40	Barbara L. Daniels & Elaine Wills	0.627
S92	05-8A-41	William J. Gamble, Et ux	0.046
S93	05-8A-37	William J. Gamble, Et Ux	0.706
S94	05-8A-42	Robert M. White	7.23
S95	05-8A-49	Raymond Scott, Jr. & Larriette	0.159
S96	05-8A-45	Raymond Scott, Jr. & Larriette	0.305
S97	05-8A-46	Barbara L. & Mary L. Rose	1.5
S98	05-8A-47	Barbara L. & Mary L. Rose	3.0
S99	05-8-4.1	Frances E. Nieman	33.46
S100	05-8A-53	Frances E. Nieman	0.422
S101	05-8A-52	Barbara L. & Mary L. Rose	0.59
S102	05-8A-48	Raymond Scott, Jr. + Larriette	2.12
S103	05-8A-36	William J. & Linda E. & Erin R. Gamble	1.031
S104	05-8A-33	Elaine Wills & Jeffrey D. Brooks	2.517
S105	05-8A-31	Randall K. Keener, Et Ux	2.346
S106	05-8A-28	Norman G. Johnson (Life)	2.0
S107	05-8A-24	Clarence Paul Siburt	0.653
S108	05-8A-23	Danny Lee & Leona May Darrah	0.738
S109	05-8A-25	Charles & Whitney Woods	2.6
S110	05-8A-14	Board Of Education	1.0
S111	05-8A-30	Randall Keith Keener, Et Ux	0.059
S112	05-8A-29	Catherine P. Rine	0.394
S113	05-8A-32	Jonathan David Bopp	0.580
S114	05-8A-34	Norman G Johnson, Et Ux (Life)	0.25
S115	05-8-3	Tammy L. Mitchell	35.07
S116	05-8-23	Robert L. & Donald Shields	0.46
S117	05-8A-35	Jared C. Sells	2.780
S118	05-8-4	C. Wayne Berisford	23.355
S119	05-8A-43	Charles G. Stein & Eva A. Wade	0.17
S120	05-8A-44	Charles G. Stein & Eva A Wade	0.18
S121	05-8A-50	Lucretia M. Harrison	0.277
S122	05-8A-51	Lucretia M. Harrison	0.210
S123	05-8A-54	David D. & Christine S. Daniels	0.68
S124	05-8A-54.1	David D. & Christine S. Daniels	0.69
S125	05-8A-15	June Morris	2.06
S126	05-8A-17	Isaac Luke Vansycoc	1.44
S127	05-8A-18	David D. & Christine S. Daniels	0.25
S128	05-8A-19	David D. & Christine S. Daniels	0.25
S129	05-8A-21	David D. & Christine S. Daniels	0.122
S130	05-8A-13	Letha I. Ruckman	2.993
S131	05-8-5	Richard L. Gatts (Life)	98.819
S132	05-8-8	James Edward Francis, Et Ux	28.3
S133	05-9-35	Lloyd C. & Judith C. Arnold	47.0
S134	05-9-2	James R. Legg Estate	23.141
S135	05-9-2.1	Jeffery L. Legg	20.5
S136	05-9-1	Sheldon Ray Ruckman & Marvin Edgar Ruckman	57.683
S137	05-9-1.2	Marvin E. Ruckman	1.359
S138	05-4-17	JPM Properties, LLC	5.0
S139	05-4-19	William L. Maxwell Jr.	1.5
S140	05-4-18	William L. Maxwell Jr.	3.0
S141	05-9-1.3	Marvin E. Ruckman Et Ux	3.326
S142	05-9-1.4	Sheldon R. Ruckman Et Al Life	4.494
S143	05-9-1.1	Beverly E. Clark	0.52
S144	05-8-6	Richard L. Gatts - Life	1.181
S145	05-8A-22	Whitney Woods	0.715
S146	05-8A-10	David D. & Christine S. Daniels	0.20
S147	Fish Creek	State of W.V.	8.16



P.S. 708

David L Jackson



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Bryan N-7HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API #: 047-051-01978

WELL PLAT
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DATE: 10/27/2020