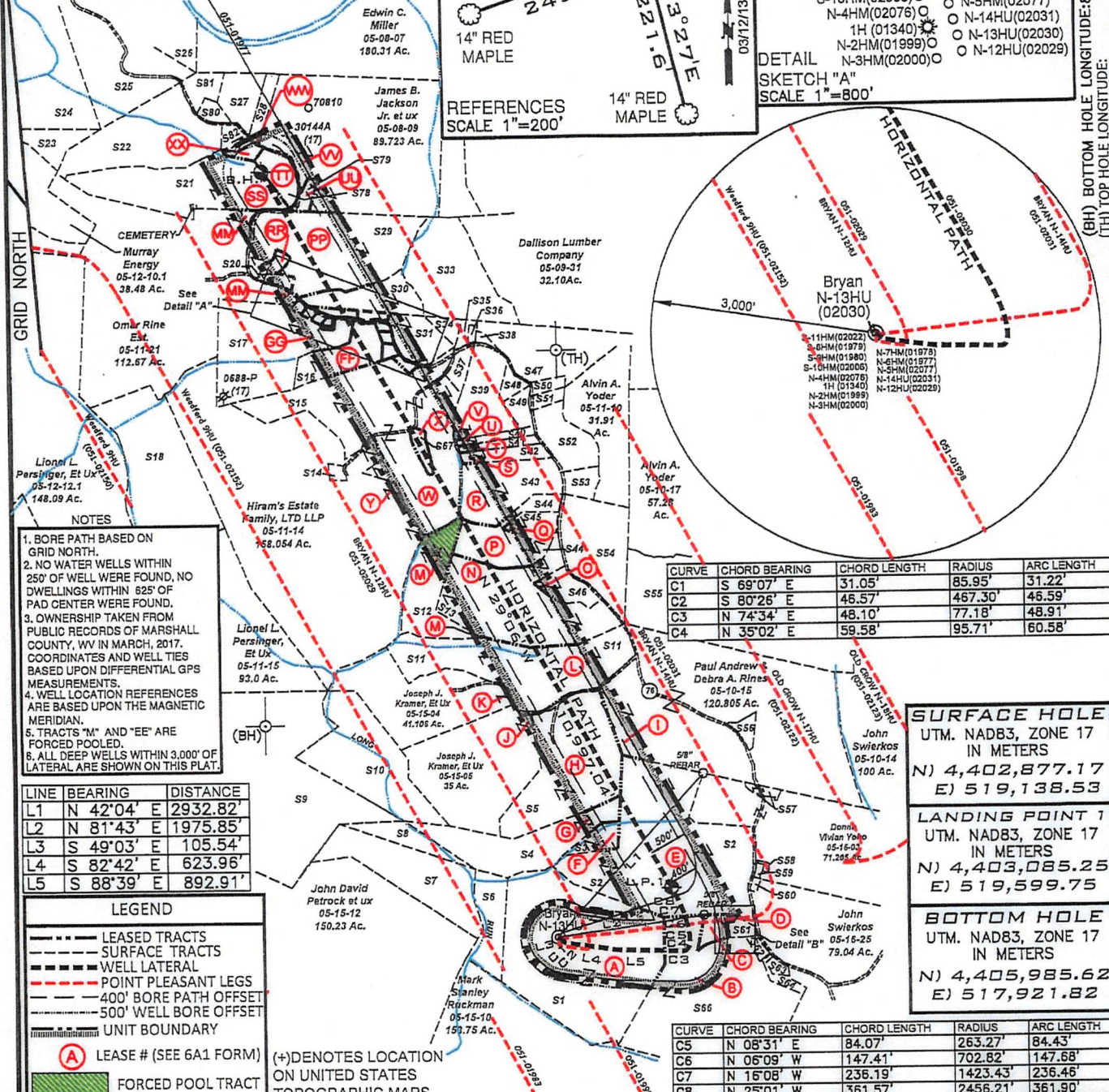


form: wv6

**BRYAN LEASE
UTICA UNIT - 397.0538 AC±
WELL N-13HU
TUG HILL OPERATING**



TOP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°50'00"
S-11HM(02022) O
S-8HM(01979) O
S-9HM(01980) O
S-10HM(02008) O
N-4HM(02076) O
1H (01340)
N-2HM(01999) 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

REFERENCES
SCALE 1"=200'

DETAIL
SKETCH "A"
SCALE 1"=800'

- 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, 2017. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 - TRACTS "M" AND "EE" ARE FORCED POOLED.
 - ALL DEEP WELLS WITHIN 3,000' OF LATERAL ARE SHOWN ON THIS PLAT.

LINE	BEARING	DISTANCE
L1	N 42°04' E	2932.82'
L2	N 81°43' E	1975.85'
L3	S 49°03' E	105.54'
L4	S 82°42' E	623.96'
L5	S 88°39' E	892.91'

LEGEND

- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- 400' BORE PATH OFFSET
- 500' WELL BORE OFFSET
- UNIT BOUNDARY
- LEASE # (SEE 6A1 FORM)
- FORCED POOL TRACT

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 69°07' E	31.05'	85.95'	31.22'
C2	S 80°26' E	45.57'	467.30'	46.59'
C3	N 74°34' E	48.10'	77.18'	48.91'
C4	N 35°02' E	59.58'	95.71'	60.58'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,402,877.17
E) 519,138.53

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,403,085.25
E) 519,599.75

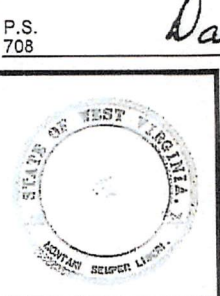
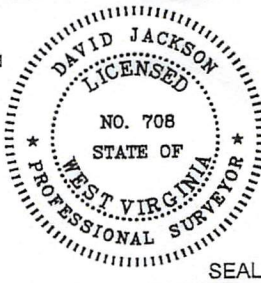
BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,405,985.62
E) 517,921.82

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C5	N 08°31' E	84.07'	263.27'	84.43'
C6	N 06°09' W	147.41'	702.62'	147.68'
C7	N 16°08' W	236.19'	1423.43'	236.46'
C8	N 25°01' W	361.57'	2456.21'	361.90'

FILE NUMBER _____
DRAWING NUMBER BRYAN_N-13HU_REV 4
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 1480
Clarksburg, WV 26302
304-623-5851

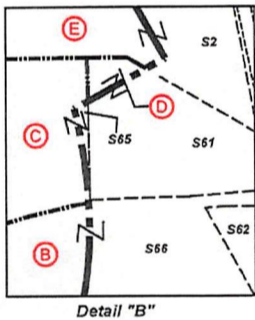
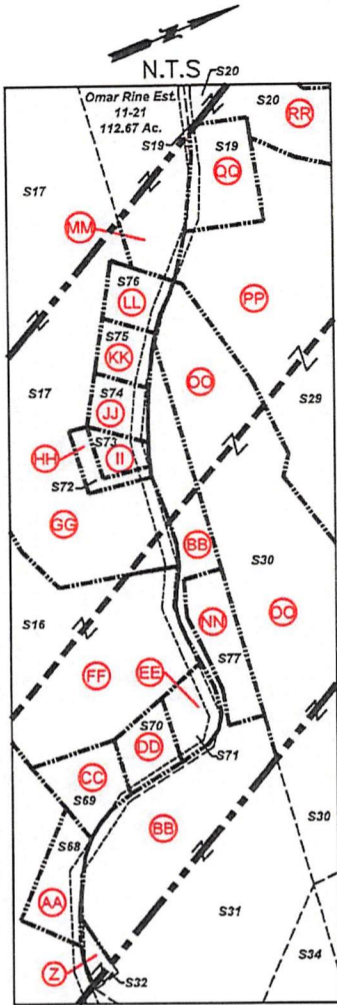
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET, SE
CHARLESTON, WV 25304

DATE: DECEMBER 27, 2017
REVISED DATE: AUGUST 01, 2019
OPERATORS WELL NO. BRYAN N-13HU
API WELL NO. 47-051-02030
STATE WV COUNTY MARSHALL PERMIT 81.98

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION X STORAGE ___ DEEP X SHALLOW ___
LOCATION ELEVATION 1191.0' WATERSHED (HUC 10) Fish Creek
DISTRICT Franklin COUNTY Marshall
QUADRANGLE Powhatan Point 7.5' LEASE NUMBER SEE WW-6A1 ROYALTY OWNERS
SURFACE OWNER CNX LAND RESOURCES, INC. ACREAGE 81.98
OIL & GAS ROYALTY OWNER MICHAEL R. BRYAN - SEE WW-6A1 ROYALTY OWNERS LEASE ACREAGE 81.98
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION Point Pleasant ESTIMATED DEPTH TVD: 11,433' TMD: 22,924'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS: 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

**BRYAN LEASE
UTICA UNIT - 397.0538 AC±
WELL N-13HU
TUG HILL OPERATING**



P.S. 708 *David L Jackson*

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES	
S1	A	05-15-9	CNX Land Resources, Inc.	81.98
S2	E	05-15-8	Terry D. Rose, et ux	77.1
S3	F	05-15-7	Terry D. Rose, et ux	4.5
S4	G	05-15-6.1	Joseph J. Kramar, et ux	39.40
S5	H	05-15-6	Joseph J. Kramar, et ux	42.5
S6		05-15-13	CNX Land Resources	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	121.0
S10		05-15-3	Joseph J. Kramar, et ux	36.10
S11	L	05-11-12	Joseph J. Kramar, et ux	43.2188
S12	M	05-11-13	Joy D. Gartman & Arlin Gatts	12.29
S13	N	05-11-11.3	Herman D. & Herman J. Lantz	43.96
S14		05-11-14.1	Dennis F. Moore, et ux	1.056
S15	W	05-11-16	Keith E. Haught, et al	83.674
S16	FF	05-11-17.2	Brenda & Michael Bryan	11.504
S17	GG	05-11-17	Kevin R. Corley, et ux	36.13
S18		05-12-11	Wesley Bryan & Wesley Bryan II	52.478
S19	QQ	05-11-2.2	Joshua A. Myers	2.193
S20	RR	05-11-2.1	Walter C. & Cheryl A. Rine	1.19
S21	SS	05-11-1.1	Larry W. Dunlap, et al	34.405
S22		05-11-1.4	Larry W. Dunlap, et al	32.493
S23		05-12-9	Lionel & Mary Lee Persinger	10.15
S24		05-7-39	Lionel L. Persinger, et ux	57.0
S25		05-7-33	William N. Roupe	24.60
S26		05-7-31	William N. Roupe	43.147
S27		05-11-1.7	William S. & Mary K. Adams	8.0
S28	VVV	05-11-1.5	Paul White	3.507
S29	PP	05-11-2	Walter C. & Cheryl A. Rine	42.367
S30	OO	05-11-3	Kevin R. Corley, et al	13.18
S31	BB	05-11-5	Kevin R. Corley, et ux	10.36
S32	Z	05-11-5.1	James R. Anderson, et ux	0.205
S33		05-11-4	David H. Arrick, et ux	31.5
S34		05-11-5.3	Robert Harris Arrick, et ux	3.0
S35		05-11-6	Robert & Rebecca Arrick	1.29
S36		05-11-7	Baptist Cemetery	1.0
S37		05-11-16.3	Kegan Michael Haught - Life	3.265
S38		05-11-8	Baptist Church	0.8
S39	V	05-11-9.3	Joseph M. Haught & Steven Haught	16.3
S40	U	05-11-9.5	Southern Country Farms, Inc	2.559
S41	T	05-11-9.6	Southern Country Farms, Inc	2.488
S42	S	05-11-9.9	Leonard L. Parsons, et ux	5.89
S43	R	05-11-9	Edwin C. & Kimberly A. Miller	41.773
S44	P	05-11-11.4	Brad M. & Amanda J. Blake	15.193
S45	Q	05-11-11	Brad M. & Amanda J. Blake	5.0
S46	O	05-11-11.1	Nellie Marie & Robert W. Spencer	5.813
S47		05-11-9	Edwin C. & Kimberly A. Miller	41.773
S48		05-11-9.10	John A. & Janet L. Beucke	2.348
S49		05-11-9.2	Michael R. Bryan	3.143
S50		05-11-9.8	Sean F. Moore	2.070
S51		05-11-9.7	Sean F. Moore	2.026
S52		05-11-9.1	Jack Shepard Huggins Jr., et al	10.92
S53		05-11-9.4	Jack S. Huggins, et al	4.129
S54		05-11-11.2	Wesley R. Bryan & Wesley R. Bryan II	25.031
S55		05-10-16.4	Melvin E. Ferguson & Elizabeth Ferguson	30.87
S56		05-10-15.1	Donald T. Miller	2.095
S57		05-16-3.2	Jimmy Lee Ostrander Jr., Sheena Lynn Ostrander & Brody Ray Ostrander	1.435
S58		05-16-3.1	Dennis E. Jackson, et ux	0.27
S59		05-16-2	Christian Church	0.19
S60		05-16-1	Christian Church	0.50
S61	D	05-16-23.1	Ray E. Minor, et ux	2.0
S62		05-16-23.3	Greg & Christina Riddle	1.0
S63		05-16-24	Alan M. Beyser, et ux	1.083
S64		05-16-23.2	Alan M. Beyser, et ux	1.726
S65	C	05-16-23.4	Michael R. & Brenda K. Bryan	3.0
S66	B	05-16-23	CNX Land Resources, Inc.	60.138
S67	X	05-11-16.2	Joseph Haught	2.181
S68	AA	05-11-16.1	Susan Smith, LE	0.876
S69	CC	05-11-25	Owen Michael Barr	0.598
S70	DD	05-11-23	Owen Michael Barr	0.845
S71	EE	05-11-24	Charles Edward Furbee, et ux	0.603
S72	HH	05-11-17.1	David Gray	0.297
S73	II	05-11-22	David Gray	0.353
S74	JJ	05-11-18	David E. Gray	0.569
S75	KK	05-11-19	David E. Gray	0.532
S76	LL	05-11-20	David E. Gray	0.569
S77	NN	05-11-5.2	Rickey & Victoria Cross	1.0
S78	TT	05-11-1.2	Jay A. Conner, et ux	5.824
S79	UU	05-8-9.1	Scott E. Jackson, Tammy S. South & Marion Jackson	1.957
S80		05-11-1.6	Debra Morris	2.093
S81		05-11-1	William N. & Virginia A. Roupe	4.527
S82	XX	05-11-1.3	Jay A. Conner, et ux	4.256



OPERATOR'S
WELL #: Bryan N-13HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

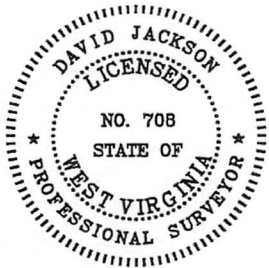
WELL PLAT
PAGE 2 OF 4
DATE: 12/27/2017
REVISED DATE:
08/01/2019

**BRYAN LEASE
UTICA UNIT - 397.0538 AC±
WELL N-13HU
TUG HILL OPERATING**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
10*19294	A	5-15-9	BRENDA K BRYAN ET AL	666	289
10*19294	B	5-16-23	BRENDA K BRYAN ET AL	666	289
10*19294	C	5-16-23.4	BRENDA K BRYAN ET AL	666	289
10*19146	D	5-16-23.1	RAY EMINOR CATHY L MINOR	706	239
10*19340	E	5-15-8	DONNA V YOHO	665	407
10*19340	F	5-15-7	DONNA VIVIAN YOHO	665	407
10*19293	G	5-15-6.1	JOSEPH L KRAMAR, SR, JO ANN KRAMAR	655	566
10*19293	H	5-15-6.1	JOSEPH L KRAMAR, SR, JO ANN KRAMAR	655	566
10*19293	I	5-15-6.1	JOSEPH L KRAMAR, SR, JO ANN KRAMAR	655	566
10*19293	J	5-15-6.1	JOSEPH L KRAMAR, SR, JO ANN KRAMAR	655	566
10*19293	K	5-15-6.1	JOSEPH L KRAMAR, SR, JO ANN KRAMAR	655	566
10*19293	L	5-11-12	JOSEPH L KRAMAR, SR, JO ANN KRAMAR	655	566
10*19293	M	5-11-13	MARGARET CLUCKNER	941	261
10*19293	N	5-11-13	AMYSUE G BAH	731	166
10*19293	O	5-11-13	LOIS BURNS	731	174
10*19293	P	5-11-13	THOMAS RAY GATTS	731	162
10*19293	Q	5-11-13	CONNIE KRESS KNAPP	734	451
10*19293	R	5-11-13	CAROLE J LAMBERT	737	225
10*19293	S	5-11-13	PATRICIA A LAMBERT	731	158
10*19293	T	5-11-13	MARIAN VIRGINIA MUNN	731	160
10*19293	U	5-11-13	DALE F RADCLIFF	734	462
10*19293	V	5-11-13	SANDRA J STOWE HARMON	731	149
10*19293	W	5-11-13	SHERLEY RAY STOWE	731	170
10*19293	X	5-11-13	STANLEY EUGENE STOWE	732	631
10*19293	Y	5-11-13	ROSE EDGE	731	164
10*19293	Z	5-11-13	JERRY BLOOD	736	177
10*19293	AA	5-11-13	JUANITA MCVEY	745	580
10*19293	AB	5-11-13	JOY DENEAN GARTMAN	951	595
10*19293	AC	5-11-13	REBECCA ASPERY	952	428
10*19293	AD	5-11-13	KELLY J DUNN	951	591
10*19293	AE	5-11-13	RACHEL D DONAHUE	951	589
10*19293	AF	5-11-13	MICHAEL P OLSON	951	593
10*19293	AG	5-11-13	MARY ANN STURGILL	952	430
10*19293	AH	5-11-13	WILLIAM J OLSON	985	58
10*19293	AI	5-11-13	EVA PATTERSON		
10*19336	N	5-11-11.3	BONNIE JEAN DAWSON	665	397
10*19336	H	5-11-11.3	BONNIE JEAN DAWSON	665	397
10*19341	O	5-11-11.1	ROBERT W SPENCER JR NELLIE MARIE SPENCER	706	468
10*19336	P	5-11-11.4	BONNIE JEAN DAWSON	665	397
10*19336	Q	5-11-11	BONNIE JEAN DAWSON	665	397
10*14099	R	5-11-9	SOUTHERN COUNTRY FARMS INC	666	489
10*19158	S	5-11-9.9	LEONARD PARSONS CONNIE PARSONS	706	125
10*14099	T	5-11-9.6	SOUTHERN COUNTRY FARMS INC	666	489
10*14099	U	5-11-9.5	SOUTHERN COUNTRY FARMS INC	666	489
10*18339	V	5-11-9.3	RESOURCE MINERALS HEADWATER L LP	940	448

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
10*19139	W	5-11-16	HIRAM V MOORE	699	53
10*19178	W	5-11-16	JOSEPH HAUGHT	710	69
10*19179	W	5-11-16	KETH HAUGHT BEVERLY HAUGHT	710	587
10*19180	W	5-11-16	STEVEN HAUGHT	710	67
10*19139	X	5-11-16.2	HIRAM V MOORE	699	53
10*19139	Y	5-11-14	HIRAM V MOORE	699	53
0079728000	Z	5-11-5.1	JAMES R AND MELDY A ANDERSON	812	31
10*19139	AA	5-11-16.1	HIRAM V MOORE	699	53
10*19170	AA	5-11-16.1	SUSAN MARIE SMITH NKA SUSAN MARIE HAMNER	706	583
10*19126	BB	5-11-5	KEVIN R. CORLEY AND ANITA L. CORLEY, HUSBAND AND WIFE	839	47
10*19176	BB	5-11-5	MAIUNA MAXINE BEYSER	710	602
10*19177	BB	5-11-5	NINA L KOVACS	710	594
10*19185	BB	5-11-5	HARRIETT LODUTH FOLEY	710	598
10*19186	BB	5-11-5	JOEL GLOVER	710	600
10*19189	BB	5-11-5	SHERRY ANN MCPHERON	710	606
10*19190	BB	5-11-5	SALLY LEE RIVERA	710	590
10*19191	BB	5-11-5	SHARLA BETH WEAVER	710	608
10*19192	BB	5-11-5	JAMES E YOHO	714	129
10*19201	BB	5-11-5	DANIEL K YOHO	714	125
10*19202	BB	5-11-5	DEBORAH L WOOLEY	714	131
10*19203	BB	5-11-5	CAROL M YOHO	713	205
10*19204	BB	5-11-5	DAYNA MARLENE YOHO	714	127
10*19205	BB	5-11-5	JEFFREY C YOHO	713	203
10*19251	BB	5-11-5	RAE SUZETTE BAKER	748	315
10*19252	BB	5-11-5	JOHN WILSON	749	522
10*19205	BB	5-11-5	SUSAN BLANCHE BEYSER	942	623
10*19893	BB	5-11-5	WINFRED G AND EDDIE G TURNER	948	277
10*21041	BB	5-11-5	SHERY AND RANDEN RITCHEA	949	365
10*19296	CC	5-11-25	OWEN MICHAEL BARR AND TARA C BARR	939	388
10*19176	CC	5-11-25	MAIUNA MAXINE BEYSER	710	602
10*19177	CC	5-11-25	NINA L KOVACS	710	594
10*19185	CC	5-11-25	HARRIETT LODUTH FOLEY	710	598
10*19186	CC	5-11-25	JOEL GLOVER	710	600
10*19189	CC	5-11-25	SHERRY ANN MCPHERON	710	606
10*19190	CC	5-11-25	SALLY LEE RIVERA	710	590
10*19191	CC	5-11-25	SHARLA BETH WEAVER	710	608
10*19192	CC	5-11-25	JAMES E YOHO	714	129
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10*19202	CC	5-11-25	DEBORAH L WOOLEY	714	131
10*19203	CC	5-11-25	CAROL M YOHO	713	205
10*19204	CC	5-11-25	DAYNA MARLENE YOHO	714	127
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10*19252	CC	5-11-25	JOHN WILSON	749	522
10*19205	CC	5-11-25	SUSAN BLANCHE BEYSER	942	623
10*19893	CC	5-11-25	WINFRED G AND EDDIE G TURNER	948	277
10*21041	CC	5-11-25	SHERY AND RANDEN RITCHEA	949	365
10*19296	DD	5-11-25	OWEN MICHAEL BARR AND TARA C BARR	939	388
10*19176	DD	5-11-25	MAIUNA MAXINE BEYSER	710	602
10*19177	DD	5-11-25	NINA L KOVACS	710	594
10*19185	DD	5-11-25	HARRIETT LODUTH FOLEY	710	598
10*19186	DD	5-11-25	JOEL GLOVER	710	600
10*19189	DD	5-11-25	SHERRY ANN MCPHERON	710	606
10*19190	DD	5-11-25	SALLY LEE RIVERA	710	590
10*19191	DD	5-11-25	SHARLA BETH WEAVER	710	608
10*19192	DD	5-11-25	JAMES E YOHO	714	129
10*19201	DD	5-11-25	DANIEL K YOHO	714	125
10*19202	DD	5-11-25	DEBORAH L WOOLEY	714	131
10*19203	DD	5-11-25	CAROL M YOHO	713	205
10*19204	DD	5-11-25	DAYNA MARLENE YOHO	714	127
10*19205	DD	5-11-25	JEFFREY C YOHO	713	203
10*19251	DD	5-11-25	RAE SUZETTE BAKER	748	315
10*19252	DD	5-11-25	JOHN WILSON	749	522
10*19205	DD	5-11-25	SUSAN BLANCHE BEYSER	942	623
10*19893	DD	5-11-25	WINFRED G AND EDDIE G TURNER	948	277
10*21041	DD	5-11-25	SHERY AND RANDEN RITCHEA	949	365
10*19176	EE	5-11-24	MAIUNA MAXINE BEYSER	710	602
10*19177	EE	5-11-24	NINA L KOVACS	710	594
10*19185	EE	5-11-24	HARRIETT LODUTH FOLEY	710	598
10*19186	EE	5-11-24	JOEL GLOVER	710	600
10*19189	EE	5-11-24	SHERRY ANN MCPHERON	710	606
10*19190	EE	5-11-24	SALLY LEE RIVERA	710	590
10*19191	EE	5-11-24	SHARLA BETH WEAVER	710	608
10*19192	EE	5-11-24	JAMES E YOHO	714	129
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10*19202	EE	5-11-24	DEBORAH L WOOLEY	714	131
10*19203	EE	5-11-24	CAROL M YOHO	713	205
10*19204	EE	5-11-24	DAYNA MARLENE YOHO	714	127
10*19205	EE	5-11-24	JEFFREY C YOHO	713	203
10*19251	EE	5-11-24	RAE SUZETTE BAKER	748	315
10*19252	EE	5-11-24	JOHN WILSON	749	522
10*19205	EE	5-11-24	SUSAN BLANCHE BEYSER	942	623
10*19893	EE	5-11-24	WINFRED G AND EDDIE G TURNER	948	277
10*21041	EE	5-11-24	SHERY AND RANDEN RITCHEA	949	365
10*19176	GG	5-11-17	MAIUNA MAXINE BEYSER	710	602
10*19177	GG	5-11-17	NINA L KOVACS	710	594
10*19185	GG	5-11-17	HARRIETT LODUTH FOLEY	710	598
10*19186	GG	5-11-17	JOEL GLOVER	710	600
10*19189	GG	5-11-17	SHERRY ANN MCPHERON	710	606
10*19190	GG	5-11-17	SALLY LEE RIVERA	710	590
10*19191	GG	5-11-17	SHARLA BETH WEAVER	710	608

*** Force pool interest



P.S. 708

David L Jackson



OPERATOR'S
WELL #: Bryan N-13HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV

WELL PLAT
PAGE 3 OF 4
DATE: 01/10/2018
REVISED DATE:
08/01/2019

