

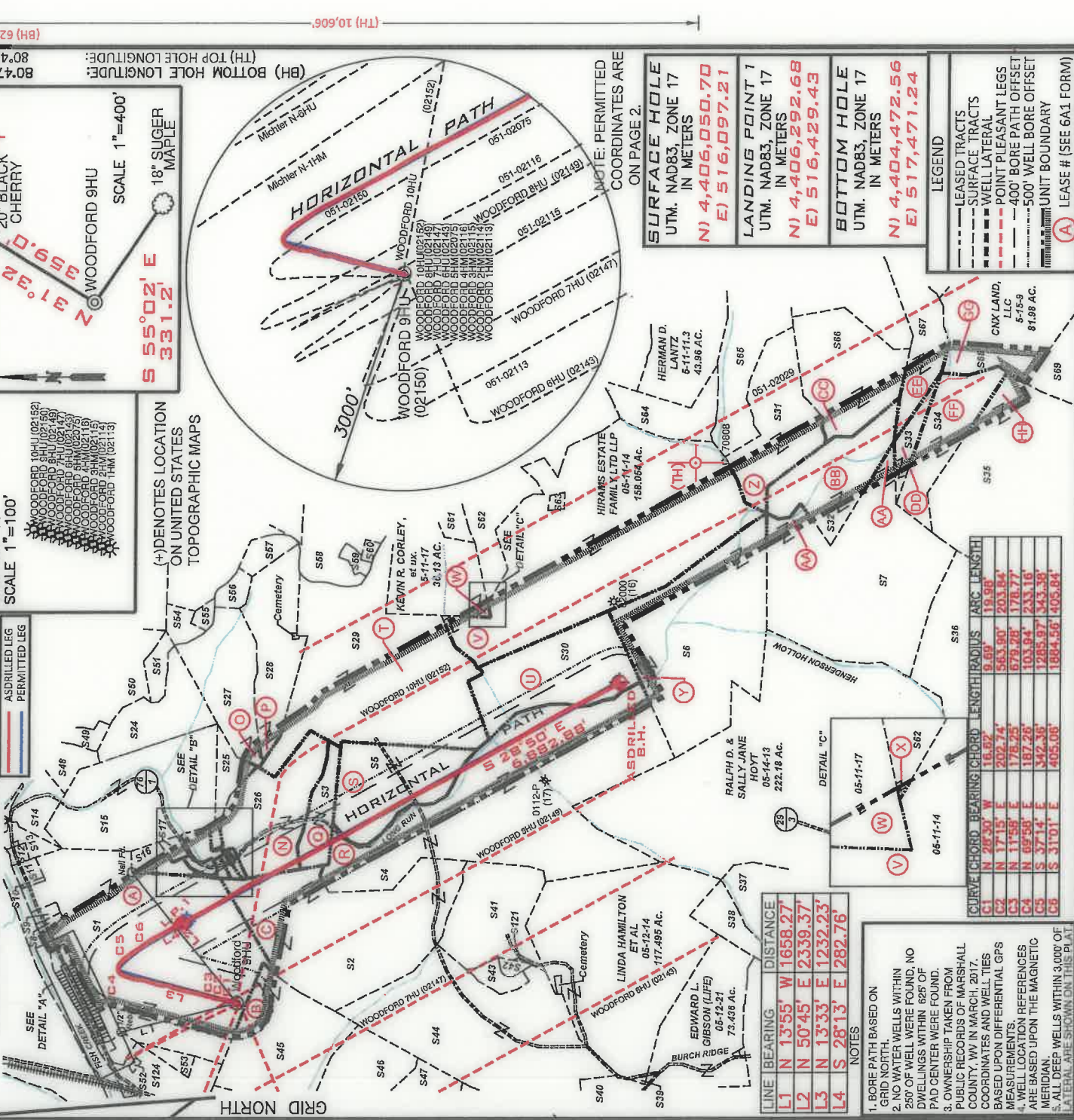
# WOODFORD LEASE WELL 9HU 636.4012± ACRES

TOP HOLE LATITUDE: 39°50'00"  
BOTTOM HOLE LATITUDE: 39° 47' 50"  
REFERENCES (BH) 20" BLACK CHERRY  
SCALE 1"=400'  
S 55°02' E 331.2'  
18" SUGER MAPLE

DETAIL SKETCH "A" SCALE 1"=100'

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

WOODFORD 10HU (02152)  
WOODFORD 9HU (02150)  
WOODFORD 8HU (02147)  
WOODFORD 7HU (02145)  
WOODFORD 6HU (02143)  
WOODFORD 5HU (02141)  
WOODFORD 4HU (02139)  
WOODFORD 3HU (02137)  
WOODFORD 2HU (02135)  
WOODFORD 1HU (02133)



LINE	BEARING	DISTANCE
L1	N 13°55' W	1658.27'
L2	N 50°45' E	2339.37'
L3	N 13°33' E	1232.23'
L4	S 28°13' E	282.76'

NOTES  
1. BORE PATH BASED ON GRID NORTH  
2. NO WATER WELLS WITHIN 250' OF WELL WERE FOUND. NO DWELLINGS WITHIN 605' 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.  
5. ALL DEEP WELLS WITHIN 5,000' OF LATERAL ARE SHOWN ON THIS PLAN.

CURVE	CHORD	BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	N 29°30' W	16.92'	9.69'	19.98'	19.98'
C2	N 17°15' E	202.74'	563.90'	203.84'	203.84'
C3	N 11°58' E	178.25'	679.28'	178.77'	178.77'
C4	N 69°58' E	187.25'	103.94'	233.16'	233.16'
C5	S 37°14' E	342.36'	1285.97'	343.48'	343.48'
C6	S 31°01' E	405.08'	1884.55'	405.84'	405.84'

NOTE: PERMITTED COORDINATES ARE ON PAGE 2.

**SURFACE HOLE**  
UTM: NAD83, ZONE 17  
IN METERS  
N) 4,406,050.70  
E) 516,097.21

**LANDING POINT 1**  
UTM: NAD83, ZONE 17  
IN METERS  
N) 4,406,292.68  
E) 516,429.43

**BOTTOM HOLE**  
UTM: NAD83, ZONE 17  
IN METERS  
N) 4,404,472.56  
E) 517,471.24

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

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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  
Clerksburg, WV 26302  
304-623-5851



FILE NUMBER \_\_\_\_\_

DRAWING NUMBER WOODFORD\_9HU

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1/200

PROVEN SOURCE OF ELEVATION SUBMETER MAPPING

GRADE GPS

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

DATE: JULY 27, 2020

OPERATORS WELL NO. Woodford 9HU  
API WELL NO. 47-051-02150  
STATE OHIO COUNTY RIVER

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

LOCATION ELEVATION 1238.06' WATERSHED (HUC 10) FRENCH CREEK -- OHIO RIVER

DISTRICT FRANKLIN COUNTY MARSHALL  
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 Form

SURFACE OWNER CNX LAND, LLC ACREAGE 155.7119  
OIL & GAS ROYALTY OWNER COLUMBIAN CHEMICALS COMPANY LEASE ACREAGE 636.4012  
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   
ESTIMATED DEPTH TVD: 11,086' TMD: 18,860'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER  
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500  
FORT WORTH, TX 76107

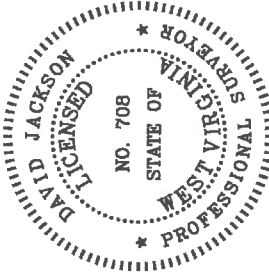
COUNTY NAME \_\_\_\_\_ PERMIT \_\_\_\_\_

**WOODFORD LEASE  
WELL 9HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
041112	A	5-7-43	COLUMBIAN CHEMICALS COMPANY	891	363
041112	B	5-12-2	COLUMBIAN CHEMICALS COMPANY	691	363
10*23969	C	5-12-8	MARK A. JOHNSON ET UX	1020	195
10*24588	C	5-12-8	MICHAEL POWDERLY	1025	287
10*24577	C	5-12-8	LYNN A. YATES & WALTER R. YATES		
10*23896	C	5-12-8	<b>MOLLY MCMAHON AND JOHN D. MCMAHON</b>	1017	489
10*18837	C	5-12-8	ERIN E SCHOLL	937	626
10*18835	C	5-12-8	REBECCA LYNN KIER AND ERIC JAMES KIER	937	405
10*18968	C	5-12-8	ESHELA PAVLOVICH	940	291
10*18969	C	5-12-8	JEANNE MARIE VAN GROLAND RICHARD ARTHUR VAN GROL	941	289
10*19500	C	5-12-8	JAMES CONTRERAS AND CATHERINE CONTRERAS	942	608
10*19825	C	5-12-8	THOMAS A POWDERLY	945	639
10*19826	C	5-12-8	TERRANCE V POWDERLY SR	945	637
10*19827	C	5-12-8	CORINNE E VERNA AND JONATHAN C VERNA SR	945	635
10*19828	C	5-12-8	ANNE M AND JOHN LEACH	945	633
10*19829	C	5-12-8	MARGARET J WHITFORD AND LANCE W WHITFORD	945	631
10*19830	C	5-12-8	DAVID POWDERLY AND NANCY A POWDERLY	945	629
10*21002	C	5-12-8	STANLEY EUGENE STOWE	951	215
10*21045	C	5-12-8	SANDRA J HARMON AND WALTER D HARMON	951	217
10*21190	C	5-12-8	MARGARET CLUCKNER	941	283
10*21223	C	5-12-8	EUGENE C GRIEB AND SHIRLEY K GRIEB	961	488
10*21607	C	5-12-8	SHERLEY R STOWE & KAREN M STOWE	959	474
10*21924	C	5-12-8	BEVERLY A MILLER	953	533
10*21926	C	5-12-8	VIOLA JANE BREON AND JAMES ROMALD BREON	953	360
10*21929	C	5-12-8	BENNY MILLER	960	177
10*21930	C	5-12-8	JAMES A GRENOBLE AND MARY JANE GRENOBLE	953	263
10*21938	C	5-12-8	SEAN M GRENOBLE AND CHERYL A GRENOBLE	960	91
10*21939	C	5-12-8	ULA F NELSON	960	96
10*22051	C	5-12-8	NOEL A PARKS	960	509
10*22309	C	5-12-8	AARON D LITMAN AND BETTY J LITMAN	963	408
10*22311	C	5-12-8	<b>WILLIAM LITMAN AND VICKIE L LITMAN</b>	963	404
10*22312	C	5-12-8	RICHARD WOOD AND VICKI WOOD	962	528
10*22349	C	5-12-8	ANITA BAE MILLER	910	152
10*22408	C	5-12-8	REBECCA S TAHR	962	578
10*22548	C	5-12-8	SHARON TOLER WILLIAMS & HENRY WILLIAMS WILLIAM LEESON	966	194
10*22605	C	5-12-8	MICHAEL R LEESON AND BRENDA R LEESON	966	499
10*22744	C	5-12-8	BRIDGET A POWDERLY	966	496
10*22858	C	5-12-8	THOMAS C DAVIS AND MARY ELLEN DAVIS	977	63
10*23004	C	5-12-8	KLOVA A MORRIS	977	63
0083768001	C	5-12-8	SANDRA WINSLOW	977	382
0083768002	C	5-12-8	KERMIT REED HUBBS ET UX	831	54
0083768003	C	5-12-8	DOUGLAS G DERRROW	831	163
0083768004	C	5-12-8	FERN A PICKENPAUGH	831	165
0083768005	C	5-12-8	JEAN GALTHER	831	167
0083768006	C	5-12-8	SONDRA SUE RULONG ET VIR	832	228
0083768007	C	5-12-8	VERA SHRIENE WORKMAN ET VIR	832	230
0083768008	C	5-12-8	CHARLOTTE A MERSELUS ET VIR	832	232
0083768009	C	5-12-8	PHYLLIS JEAN OSTRANDER	833	14
0083768010	C	5-12-8	JAMES A KOLL	833	472
0083768011	C	5-12-8	MICHAEL W DERRROW	832	584
0083768012	C	5-12-8	WILLIAM L WILLIAMS ET UX	833	464
0083768013	C	5-12-8	KELLY KERN	833	574
0083768014	C	5-12-8	SHIRLEY GRUBR	863	189
0083768015	C	5-12-8	NORMAN L DERRROW ET UX	863	191
0083768016	C	5-12-8	BETTY JUNE CAMPBELL ET VIR	832	580
0083768017	C	5-12-8	LAMONYE S BAKER	834	632
0083768018	C	5-12-8	HONIU ADAIR STOLLAR	834	634
0083768019	C	5-12-8	MARTHA J JAMISON ET VIR	836	36
0083768020	C	5-12-8	SARA BRADELY	839	38
0083768021	C	5-12-8	MARY S FOGLIESONG ET VIR	839	206
0083768024	C	5-12-8	JIMMIE WILLIAMS ET UX	837	352
0083768025	C	5-12-8	LUDY ANN MCCHESEY ET VIR	837	143
0083768026	C	5-12-8	PENNY S SCHAUER ET VIR	842	291
0083768027	C	5-12-8	TRACIL WILLIAMS	842	9
0083768028	C	5-12-8	STEVEN S DERRROW	842	9
0083768029	C	5-12-8	MARY E VOLTZ ET VIR	841	24
0083768030	C	5-12-8	ELLIOTT L THRASHER II ET UX	842	82
0083768031	C	5-12-8	JACK M FOREMAN	844	510
0083768032	C	5-12-8	DOUGLAS E MILLER	844	131
0083768033	C	5-12-8	REVA J ICAIRD ET VIR	844	520
0083768034	C	5-12-8	JULIE SPRINGWATER	844	526
0083768035	C	5-12-8	JULIE SPRINGWATER	850	481
0083768036	C	5-12-8	JACK M FOREMAN	850	499
0083768037	C	5-12-8	ANITA M MASON	850	503
0083768038	C	5-12-8	BONNIE H GRISELL ET VIR	851	5
0083768039	C	5-12-8	MARY ELIZABETH VOLTZ ET VIR	850	646
0083768041	C	5-12-8	JACK M FOREMAN	851	648
0083768042	C	5-12-8	JACQUELYN JOHNSON ET VIR	854	178
0083768043	C	5-12-8	ROY JOSEPH LEACH	860	523
0083768044	C	5-12-8	LESLIE ANN BLYTHE ET VIR	859	487
0083768045	C	5-12-8	MURIEL ANNE MILLER ET VIR	860	535
0083768046	C	5-12-8	GREGORY S MILLER ET UX	860	545
0083768047	C	5-12-8	REBECCA L CULLEN ET VIR	860	517
0083768048	C	5-12-8	FRANCES E RUTLEDGE ET VIR	860	558
0083768049	C	5-12-8	LARRY DEAN MCWHORTER ET AL	860	519
0083768050	C	5-12-8	LARRY MILLER	860	532
0083768051	C	5-12-8	DAVID LEE EVANS JR ET UX	864	187
0083768052	C	5-12-8	STEVEN POND ET UX	860	574
0083768053	C	5-12-8	IAN KIPP HAGEMANN	860	500
0083768054	C	5-12-8	MELISSA MILLER GIBSON ET VIR	869	100
0083768055	C	5-12-8	HEATHER D MALO ET VIR	866	336
0083768056	C	5-12-8	RODNEY F PETERSON	866	342
0083768057	C	5-12-8	PRISCILLA ANN MILLER HADEN	873	543
0083768058	C	5-12-8	DANIEL D HOBBS ET UX	873	543
0083768059	C	5-12-8	RICHARD S MULLEN ET UX	869	98
0083768060	C	5-12-8	JAMES B CINDW ET UX	869	308
0083768061	C	5-12-8	GREGORY S CROW	869	106



P.S. 708  
*David L Jackson*

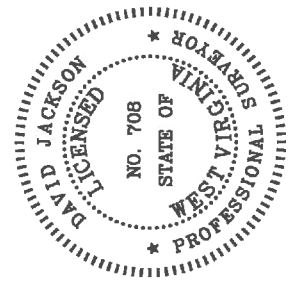


OPERATOR'S  
WELL #: WOODFORD 9HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API# 47-051-02150

**WOODFORD LEASE  
WELL #9HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
Q083768062	C	5-12-8	HAROLD B CROW ET UX	869	102
Q083768063	C	5-12-8	BRIAN K CROW	869	104
Q083768064	C	5-12-8	TIMOTHY HOWARD MANCHEGO	873	104
Q083768065	C	5-12-8	KATHLEEN HOBBS YOUNG	869	356
Q083768066	C	5-12-8	DAVID C MULLEN ET UX	869	358
Q083768067	C	5-12-8	DENNIS FISCHER ET UX	870	360
Q083768068	C	5-12-8	KATHLEEN A SULLIVAN ET VIR	870	362
Q083768069	C	5-12-8	FRANCIS F FISCHER ET UX	871	494
Q083768070	C	5-12-8	JOYCEA FORILLI ET VIR	873	114
Q083768071	C	5-12-8	BARBARA L VOGLER ET VIR	873	112
Q083768072	C	5-12-8	HARRIET C HERMAN ET VIR	873	116
Q083768073	C	5-12-8	EUGENIA A KERR	873	118
Q083768074	C	5-12-8	JANE H BARNSTEINER ET UX	873	91
Q083768075	C	5-12-8	EDWARD P POWDERLY ET UX	873	93
Q083768076	C	5-12-8	NORA C POWDERLY	873	89
Q083768078	C	5-12-8	MARY F WEILAND	873	124
Q083768079	C	5-12-8	JAMES E HERMAN	873	128
Q083768080	C	5-12-8	ANTHONY T POWDERLY ET UX	878	363
Q083768081	C	5-12-8	SHARON L SCHOLL	878	379
Q083768082	C	5-12-8	JAMES T SCHOLL	878	376
Q083768083	C	5-12-8	ANNE GALBALLY ET VIR	878	354
Q083768084	C	5-12-8	CLARK D CHASE ET UX	878	357
Q083768085	C	5-12-8	BRIDGET A POWDERLY	881	29
Q083768086	C	5-12-8	NORA K POWDERLY	881	23
Q083768087	C	5-12-8	KEVIN M POWDERLY	890	518
Q083768088	C	5-12-8	MARY S SCHOLL	890	569
Q083768089	C	5-12-8	BRIAN P POWDERLY ET UX	890	563
Q083768090	C	5-12-8	SUSANNE S QUARTERMAN	890	560
Q083768091	C	5-12-8	HARRIET C VENTURA ET VIR	894	541
Q083768099	C	5-12-8	EILEEN T POWDERLY	873	81
10*24586	D	5-7-42.1	STONE HILL MINERAL HOLDINGS, LLC		
10*18403	E	5-7-41	ANGELA B CRAWFORD AND DANA ALAN CRAWFORD	932	536
10*18454	E	5-7-41	IMALEE D LLOYD AND GARY R LLOYD	933	186
10*18455	E	5-7-41	DEBRA HARTLEY AND RICHARD HARTLEY	933	183
10*18724	E	5-7-41	TRACY M KESTERSON	938	521
10*21133	E	5-7-41	MATTHEW V AND CINDY L CONNER	951	602
Q076872007	E	5-7-41	TRACY M KESTERSON	860	579
Q090625000	F	5-7-44	CRYSTAL B DARRAH	858	252
Q076872007	G	5-7-42	TRACY M KESTERSON	860	579
10*21132	H	5-7-42.5	GREGORY E RICE AND LORI MARIE RICE	951	212
Q090236002	H	5-7-42.5	JOE PAUL WELLMAN AND MARTHA GAYLE WELLMAN	842	516
Q091524001	H	5-7-42.5	DEBRA HARTLEY AND RICHARD HARTLEY	862	251
Q091524002	H	5-7-42.5	MATTHEW V CONNER AND CINDY CONNOR	862	253
Q091524003	H	5-7-42.5	TRACY M KESTERSON	860	577
Q091524004	H	5-7-42.5	ANGELA CRAWFORD AND DANA CRAWFORD	862	255
Q091524005	H	5-7-42.5	IMALEE LLOYD AND GARY LLOYD	862	257
Q091524006	H	5-7-42.5	WILLIAM R LEVASSEUR JR	873	101
Q091524007	H	5-7-42.5	TOM KROL AND DAWN ELLEN KROL	873	98
Q091524008	H	5-7-42.5	BROADWINE AND BOBBY W BOARDWINE	873	95
Q090800000	I	5-7-42.2	STEVEN LLOYD AND RHONDA LLOYD	853	314
Q087570019	J	5-7-42.3	JOSHUA DAVID HARTLEY	853	318
10*19154	K	5-12-9	ROBERT H FISH PATSY C FISH	706	631
10*24560	L	5-7-42.4	JASON REED HARTLEY AND JOCELYN R. HARTLEY		
10*16914	M	5-7-39	LIONEL L AND MARY LEE PERSINGER	976	620
10*19751	N	5-12-10.1	THOMAS L ROBINSON	944	426
10*19752	N	5-12-10.1	PATRICIA ANKROM	944	447
10*19841	N	5-12-10.1	CAROLYN JEAN FERGUSON	945	641
10*19842	N	5-12-10.1	JAMES E ROBINSON AND CAMILLA L ROBINSON	945	643
10*19843	N	5-12-10.1	JOHN S ROBINSON AND SHERRIE J ROBINSON	945	646
10*19975	N	5-12-10.1	CHARLES F STEWART	948	270
624169	N	5-12-10.1	FRANK, AUCE LEONA & BEN	425	232
10*17051.089.0	O	5-11-1.4	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
10*47051.089.0	P	5-11-1.1	LARRY W DUNLAP AND BARBARA E DUNLAP	864	148
624169	Q	5-12-10	FRANK, AUCE LEONA & BEN	425	232
10*19751	Q	5-12-10	THOMAS L ROBINSON	944	426
10*19752	Q	5-12-10	PATRICIA ANKROM	944	447
10*19841	Q	5-12-10	CAROLYN JEAN FERGUSON	945	641
10*19842	Q	5-12-10	JAMES E ROBINSON AND CAMILLA L ROBINSON	945	643
10*19843	Q	5-12-10	JOHN S ROBINSON AND SHERRIE J ROBINSON	945	646
10*19975	Q	5-12-10	CHARLES F STEWART	948	270
10*16918	R	5-12-12.1	LIONEL L AND MARY LEE PERSINGER	976	617
10*16908	S	5-12-12	LIONEL L AND MARY LEE PERSINGER	976	623
10*22810	T	5-11-21	CLYDEV. & KAREN S REED	864	190
10*19009	U	5-12-11	LAMONYE BAKER	665	554
10*22065	U	5-12-11	WESLEY R BRYAN II	960	417
10*22066	U	5-12-11	WESLEY R BRYAN	960	419
10*19139	V	5-11-14	HIRAM V MOORE	699	53
10*19126	W	5-11-17	KEVIN R. CORLEY AND ANITA L. CORLEY, HUSBAND AND WIFE	859	44
10*19176	W	5-11-17	MAXINE BEYER	710	602
10*19177	W	5-11-17	NINA L KOVACS	710	594
10*19185	W	5-11-17	HARRIETT LODDUTH FOLEY	710	598
10*19186	W	5-11-17	JOEL GLOVER	710	600
10*19189	W	5-11-17	SHERRY ANN MCPHERON	710	606
10*19190	W	5-11-17	SALLY LEE RIVERA	710	590
10*19191	W	5-11-17	SHARIA BETH WEAVER	710	608
10*19192	W	5-11-17	JAMES E YOHO	714	129
10*19201	W	5-11-17	DANIEL K YOHO	714	125
10*19202	W	5-11-17	DEBORAH L WOOLEY	714	131
10*19203	W	5-11-17	CAROL M YOHO	713	205
10*19204	W	5-11-17	DAYNA MARLENE YOHO	714	127
10*19205	W	5-11-17	JEFFREY C YOHO	713	203
10*19251	W	5-11-17	RAE SUZETTE BAKER	748	315
10*19252	W	5-11-17	JOHN WILSON	749	522
10*19502	W	5-11-17	SUSAN BIANCHE BEYER	942	623
10*19893	W	5-11-17	WINIFRED G TURNER AND EDDIE G TURNER	948	277
10*21041	W	5-11-17	SHERY RITCHEA AND RANDEN D RITCHEA	949	365
10*22001	W	5-11-17	GREGORY K GLOVER	953	271
10*19139	X	5-11-16	HIRAM V MOORE	699	53
10*19176	X	5-11-16	JOSEPH HAUGHT	710	69
10*19179	X	5-11-16	KEITH HAUGHT BEVERLY HAUGHT	710	587

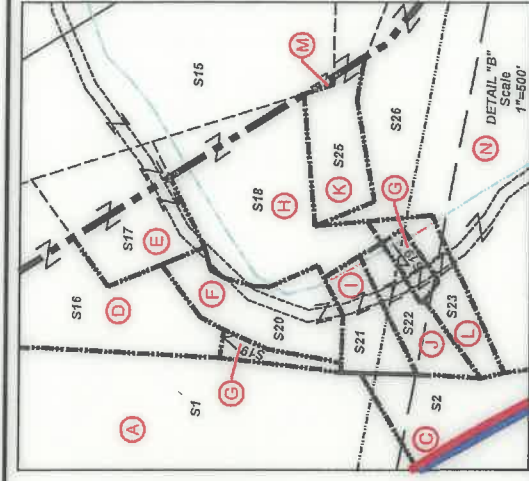
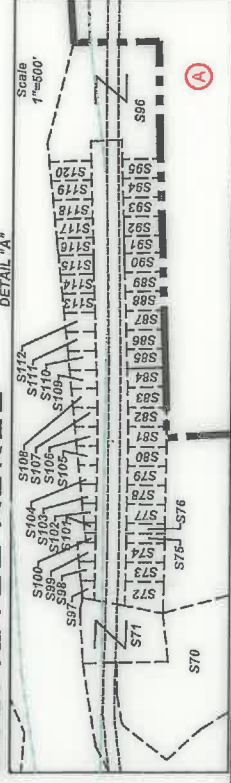
P.S. 708  
*David L Jackson*



OPERATOR'S: WELL #1: WOODFORD 9HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API#: 47-061-02150

WELL PLAT  
PAGE: 4 OF 6  
DATE: 07/29/2020

**WOODFORD LEASE  
WELL 9HU  
636.4012± ACRES**

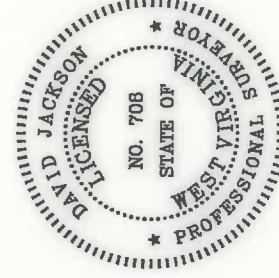


Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	05-07-43	CNX LAND, LLC	155.7119
S2	05-12-08	Amita Rae Miller (Life)	100.35
S3	05-12-10	Consolidation Coal Co./ Murray Energy	13.76
S4	05-12-12.1	Lionel L. Persinger, Et Ux.	148.09
S5	05-12-12	Lionel L. Persinger, Et Ux.	45
S6	05-11-15	Lionel L. Persinger, Et Ux.	93
S7	05-15-01	Marcus Sharp & David Schlabach, Hrs.	121
S8	05-7B-49	Cassidy Rain Carpenter	1.1441
S9	05-7B-48	Cassidy Rain Carpenter	1.325
S10	05-07-43.3	M. Frank Mason	0.327
S11	05-07-43.2	M. Frank Mason	1.36
S12	05-07-38	John K. Persinger, Et Ux.	2.65
S13	05-07-36	John Persinger	4.329
S14	05-07-35	Samuel L. Persinger	10.708
S15	05-07-39	Lionel L. Persinger, et ux	57
S16	05-07-42.1	Holly Rice	5.99
S17	05-07-41	James A. Wade	1
S18	05-07-42.5	Matthew V. Conner, et al	3.791
S19	05-07-42	Tracy M. Kesterson	0.54
S20	05-07-44	Crystal B. Darrah	1.726
S21	05-07-42.2	Steven & Rhonda Lloyd	0.85
S22	05-07-42.3	Joshua David Hartley	0.87
S23	05-07-42.4	Lionel & Mary Lee Persinger	0.94
S24	05-07-33	William N. Roupe	24.60
S25	05-12-09	Lionel & Mary Lee Persinger	10.15
S26	05-12-10.1	Consolidation Coal Co./ Murray Energy	38.48
S27	05-11-1.4	Larry W. Dunlap, et al	32.493
S28	05-11-1.1	Larry W. Dunlap & Charles Leroy, et al	34.405
S29	05-11-21	Karen Reed, et al	112.67
S30	05-12-11	Wesley B. Bryan & Wesley R. Bryan II	52.478
S31	05-15-04	Joseph J. Kramer, et ux	41.106
S32	05-15-03	Joseph J. Kramer, et ux	36.10
S33	05-15-02	John David Petrock, et ux	5
S34	05-15-14	John David Petrock, et ux	25
S35	05-15-15	John David Petrock, et ux	150.23
S36	05-15-15	Robert L. Shields, et al	49
S37	05-14-12	Dale R. Gallagher, et al	135.100
S38	05-14-10	Wanda P. Rine (Life)	107.372
S39	05-12-15	Woodland Hills Church of God Trs.	0.375
S40	05-12-21.1	Robert W. Jr. & Wendy L. Riggensch	14.222
S41	05-12-13	Linda Hamilton, et al	41.887
S42	05-12-7.1	Raymond K. Miller	1.609
S43	05-12-7.2	Raymond K. Miller	4.66
S44	05-12-07	Robert Wm. Riggensch, et ux	104.231
S45	05-12-02	CNX LAND, LLC	60.68
S46	05-12-03	CNX LAND, LLC	62.30
S47	05-12-05	CNX LAND, LLC	61.883
S48	05-07-34	W VA DEPT OF HIGHWAYS	10.88
S49	05-07-31.2	WILLIAM N ROUPE ET UX	3.304
S50	05-07-31.4	GRANDVIEW-DOOLEN PSD	0.23
S51	05-07-32	WILLIAM N & VIRGINIA A ROUPE	4.2

**SURFACE HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,406,050.70  
E) 516,097.13

**LANDING POINT 1**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,406,395.41  
E) 516,366.39

**BOTTOM HOLE**  
UTM. NAD83, ZONE 17  
IN METERS  
N) 4,404,475.36  
E) 517,474.93



*David Jackson*

P.S.  
708



**TUG HILL  
OPERATING**

OPERATOR'S

WELL #1: WOODFORD 9HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

API# 47-051-02150

WELL PLAT

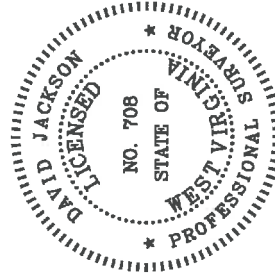
PAGE 2 OF 6

DATE: 7/27/2020

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S52	05-07-43.4	Ida Campbell	0.29
S53	05-07-43.1	State Road Commission	1.48
S54	05-11-01	William N. & Virginia A. Roupe	4.527
S55	05-11-1.6	Debra Morris	2.093
S56	05-11-1.3	Jay A. Conner, Et Ux	4.256
S57	05-11-1.2	Jay A. Conner, Et Ux	5.824
S58	05-11-02	Walter C. & Cheryl A. Rine	42.36
S59	05-11-2.2	Joshua A. Myers	2.193
S60	05-11-2.1	Walter C. & Cheryl A. Rine	1.19
S61	05-11-17.2	Brenda & Michael Bryan	11.504
S62	05-11-16	Keith E. Haucht, Et Al	83.674
S63	05-11-14.1	Dennis F. Moore, Et Ux	1.056
S64	05-11-13	Joy D. Gartman & Arlin Gatts	12.29
S65	05-11-12	Joseph J. Kramar, Et Ux	43.2188
S66	05-15-5	Joseph J. Kramar, Et Ux	35.0
S67	05-15-6.1	Joseph J. Kramar, Et Ux	39.40
S68	05-15-13	CNX LAND, LLC	11.0
S69	05-15-10	Mark Stanley Ruckman	153.75
S70	05-7A-02	CNX LAND, LLC	2.23
S71	05-7A-01	Lucille Myers	0.529
S72	05-7B-25	Cindy D. Aliff	0.1673
S73	05-7B-26	Cindy D. Aliff	0.1148
S74	05-7B-27	Patricia A. Johnson	0.1148
S75	05-7B-28	Patricia A. Johnson	0.0574
S76	05-7B-28.1	Patricia A. Johnson	0.0574
S77	05-7B-29	Patricia A. Johnson	0.1148
S78	05-7B-30	Cindy D. Aliff, et al	0.1148
S79	05-7B-31	Cindy D. Aliff, et al	0.1148
S80	05-7B-32	Albert J. Anderson, Jr.	0.1148
S81	05-7B-33	Albert J. Anderson, Jr.	0.1182
S82	05-7B-34	Albert J. Anderson, Jr.	0.1148
S83	05-7B-35	Albert J. Anderson, Jr.	0.1217
S84	05-7B-36	Albert J. Anderson, Jr.	0.1148
S85	05-7B-37	Teresa & Thomas Gouldsberry	0.1148
S86	05-7B-38	Teresa & Thomas Gouldsberry	0.1148
S87	05-7B-39	Teresa & Thomas Gouldsberry	0.1148
S88	05-7B-40	Teresa & Thomas Gouldsberry	0.1148
S89	05-7B-41	Teresa & Thomas Gouldsberry	0.1148
S90	05-7B-42	Teresa & Thomas Gouldsberry	0.1194
S91	05-7B-43	Teresa & Thomas Gouldsberry	0.1148
S92	05-7B-44	Daniel D. & Mary E. Robinson	0.1148
S93	05-7B-45	Daniel D. & Mary E. Robinson	0.1148
S94	05-7B-46	Daniel D. Robinson, et ux	0.1148
S95	05-7B-47	Daniel D. Robinson, et ux	0.1148
S96	05-7B-01	Patricia L. Robinson	1.257
S97	05-7B-24	Cindy D. Aliff	0.0354
S98	05-7B-23	Cindy D. Aliff	0.0471
S99	05-7B-22	Patricia A. Johnson	0.0505
S100	05-7B-21	Patricia A. Johnson	0.0287
S101	05-7B-21.1	Patricia A. Johnson	0.0296
S102	05-7B-20	Patricia A. Johnson	0.0826
S103	05-7B-19	Cindy D. Aliff, et al	0.0712
S104	05-7B-18	Cindy D. Aliff, et al	0.0763
S105	05-7B-17	Albert J. Anderson, Jr.	0.0849
S106	05-7B-16	Albert J. Anderson, Jr.	0.0903
S107	05-7B-15	Albert J. Anderson, Jr.	0.0970
S108	05-7B-14	Albert J. Anderson, Jr.	0.0991
S109	05-7B-13	Albert J. Anderson, Jr.	0.1067
S110	05-7B-12	Teresa & Thomas Gouldsberry	0.1113
S111	05-7B-11	Teresa & Thomas Gouldsberry	0.1159
S112	05-7B-10	Teresa & Thomas Gouldsberry	0.1199
S113	05-7B-09	Teresa & Thomas Gouldsberry	0.1240
S114	05-7B-08	Teresa & Thomas Gouldsberry	0.1286
S115	05-7B-07	Teresa & Thomas Gouldsberry	0.1331
S116	05-7B-06	Teresa & Thomas Gouldsberry	0.1377
S117	05-7B-05	Daniel D. & Mary E. Robinson	0.1418
S118	05-7B-04	Daniel D. & Mary E. Robinson	0.1458
S119	05-7B-03	Daniel D. Robinson, et ux	0.1504
S120	05-7B-02	Daniel D. Robinson, et ux	0.1550
S121	05-12-13.1	Raymond K. Miller	0.113

**WOODFORD LEASE  
WELL 9HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
10*19297	EE	5-15-61	PHILIP LEONARD MARXEN	839	410
10*19298	EE	5-15-61	BETTY J MARXEN SLEZAK	822	351
10*19299	EE	5-15-61	A NINETTE CONWAY MARXEN	817	512
10*19300	EE	5-15-61	DEBORAH F HAGEMAN HUPPERT	815	145
10*19301	EE	5-15-61	SANDRA HAGEMAN KANGAS	815	150
10*19302	EE	5-15-61	JEFFREY C MARXEN SAMANTHA L MARXEN	817	506
10*19303	EE	5-15-61	THOMAS O MARXEN	814	589
10*19304	EE	5-15-61	DEAN L RINE, JR, PAMELA F. RINE	813	635
10*19305	EE	5-15-61	KAREN MARXEN SONDROL	813	605
10*19306	EE	5-15-61	RICHARD L. TATE MARCELINE RINETATE	814	594
10*19307	EE	5-15-61	MARY SUE RINE-WALTER	815	155
10*19308	EE	5-15-61	WILLIAM WEBER	817	646
10*19337	FF	5-15-14	JACK PETROCK HATTIE PETROCK	741	68
10*24394	GG	5-15-13	VINCENT JASON RYAN III	1024	195
10*24392	GG	5-15-13	ALBERTA RYAN	1024	198
10*29294	GG	5-15-13	MICHAEL R. BRYAN BRENDA K. BRYAN	741	78
10*21175	GG	5-15-13	KEITH A RYAN	952	177
10*21176	GG	5-15-13	FLORENCE K FOSTER & DAVID B FOSTER	952	179
10*21177	GG	5-15-13	RHONDA R TOPPER & DAVID R TOPPER	952	181
10*21374	GG	5-15-13	SHIRLEY J POGORZELSKI	957	9
10*21375	GG	5-15-13	REBECCA J KOVALCHIK AND WILLIAM D KOVALCHIK	957	17
10*21376	GG	5-15-13	JACK W RYAN AND JANET N RYAN	957	15
10*21377	GG	5-15-13	DAVID A RYAN AND CYNTHIA L RYAN	957	13
10*21378	GG	5-15-13	ROBECCA K ODKAKER AND ALVIN L ODKAKER JR	957	11
10*21379	GG	5-15-13	PATRICIA M PORTWOOD AND CLARENCE A PORTWOOD	957	19
10*21380	GG	5-15-13	JAMES H RYAN JR AND PAULAJ RYAN	957	21
10*21381	GG	5-15-13	NANCY KAY GALLAGHER	957	23
10*21899	GG	5-15-13	JAMES D RYAN AND NORMA J RYAN	959	524
10*21900	GG	5-15-13	LUCINDIA A MARKE AND KIM D MARKE	959	520
10*21901	GG	5-15-13	YVONNE HOOVER AND JAMES A HOOVER	959	518
10*22047	GG	5-15-13	AUDREY E WELLS AND TIMOTHY R WELLS	959	522
10*22048	GG	5-15-13	KAREN L DENNY AND GARY W DENNY	960	415
10*22049	GG	5-15-13	ELSIE M SHORTLAND	960	401
10*22050	GG	5-15-13	DAVID W RYAN AND KRISTEN E RYAN	960	407
10*22088	GG	5-15-13	WILLIAM H M RYAN & DANIELA H RYAN	960	403
10*22405	GG	5-15-13	CAROL A KURTZ AND JAMES A KURTZ	960	405
10*22514	GG	5-15-13	WILLIAM WOOD	962	564
10*22515	GG	5-15-13	RUTH E RYAN	962	562
10*22517	GG	5-15-13	JUDY L RIDGWAY	964	444
10*22597	GG	5-15-13	GEORGE W SETTLES	964	442
10*22857	GG	5-15-13	MARILYN C RYAN	966	90
10*19337	HH	5-15-12	DAN M JR AND CYNTHIA J RYAN	960	403
10*19337	HH	5-15-12	JACK PETROCK HATTIE PETROCK	741	68



P.S.  
708  
*David L Jackson*



**TUG HILL**  
OPERATING

OPERATOR'S  
WELL #: WOODFORD 9HU  
DISTRICT: Franklin  
COUNTY: Marshall  
STATE: WV  
API# 47-051-02150

WELL PLAT

PAGE: 6 OF 6

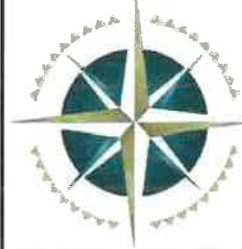
DATE: 07/27/2020

**WOODFORD LEASE  
WELL 9HU  
636.4012± ACRES**

LEASE NO.	TAGS	PARCEL	OIL & GAS ROYALTY OWNER	DEED BOOK	PAGE
10*19180	X	5-11-16	STEVEN HAUGHT	710	67
10*14811	Y	5-11-15	FORREST MILLER	819	316
10*16913	Y	5-11-15	LIONEL LAND MARY LEE PERSINGER	976	626
10*17329	Y	5-11-15	JOHN P ICARD AND REVA J ICARD	943	524
10*18045	Y	5-11-15	KLOVA ANN MORRIS	927	114
10*18174	Y	5-11-15	THE ESTATE OF ROY JOSEPH LEACH	927	647
10*19642	Y	5-11-15	NOEL A PARKS	944	92
10*21455	Y	5-11-15	MELISSA MILLER GIBSON AND JAMES GIBSON	953	308
10*21903	Y	5-11-15	WILLIAM R VOLTZ AND SHARON VOLTZ	960	182
10*21904	Y	5-11-15	MARY S MAGERS AND WILLIAMS MAGERS	960	158
10*21905	Y	5-11-15	DAVID F VOLTZ AND LINDA VOLTZ	961	444
10*21906	Y	5-11-15	MICHAEL P VOLTZ	960	164
10*21910	Y	5-11-15	J THOMAS VOLTZ AND NANCY VOLTZ	960	179
10*21939	Y	5-11-15	UJA F NELSON	960	96
10*22134	Y	5-11-15	JACK MICHAEL FOREMAN	961	449
10*22309	Y	5-11-15	AARON D LUTMAN AND BETTY J LUTMAN	963	408
10*22311	Y	5-11-15	WILLIAM L LUTMAN AND VICKIE LUTMAN	963	404
10*22312	Y	5-11-15	RICHARD WOOD AND VICKI WOOD	962	528
10*24338	Y	5-11-15	LULIE SPRINGWATER	964	231
10*25259	Y	5-11-15	SHARON TOLER WILLIAMS & HERVY WILLIAMS	966	94
10*19293	Z	5-15-4	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	655	566
10*14043	AA	5-15-1	PATRICK R. WALSH	725	566
10*14044	AA	5-15-1	JOSEPH WESLEY GALLAHER, II	724	232
10*14045	AA	5-15-1	LAMOYNE BAKER	724	236
10*14046	AA	5-15-1	CHARLES THOMPSON GALLAHER, II	724	234
10*14047	AA	5-15-1	LESLIE ANN BLYTHE	726	645
10*14048	AA	5-15-1	BRYANNA FVNN RANKIN	727	3
10*14050	AA	5-15-1	JUDITH L CHAMBERS	726	643
10*14051	AA	5-15-1	AMANDA L SMITH	727	572
10*14052	AA	5-15-1	MAY ELIZABETH GALLAHER BROWNIN	727	568
10*14054	AA	5-15-1	LARRY D. MCWHORTER	727	570
10*14055	AA	5-15-1	RUDOLPH RAUKAR, JR.	730	189
10*14056	AA	5-15-1	VICTOR PEDDICORD	730	193
10*14057	AA	5-15-1	WALLACE T. BERRY	731	156
10*14058	AA	5-15-1	THE SAMUEL MILTON SHEETS TRUST	732	624
10*14059	AA	5-15-1	NANCY HOFSTATTER	732	628
10*14059	AA	5-15-1	LAURA BERRY MCGLYNN	732	622
10*14062	AA	5-15-1	REBECCA McMILLAN	803	482
10*14063	AA	5-15-1	DAVID BURKETT	803	480
10*14064	AA	5-15-1	CIRRUS MINERALS LLC	843	452
10*47051.331.1	AA	5-15-1	LEEANN M LEMONOVICH	910	136
10*19090	BB	5-15-3	KATHLEEN R CUSTEAD	806	39
10*23911	BB	5-15-3	SUSAN W. PARSONS ETUX	1019	470
10*19098	BB	5-15-3	PHYLLIS L PARSONS	814	379
10*19046	BB	5-15-3	CAROL J WEINSTEIN	813	33
10*19047	BB	5-15-3	DEBORAH CROSTEN-PURCELL	813	28
10*19048	BB	5-15-3	JANET FRANKHAUSER WILSON	817	627
10*19055	BB	5-15-3	DONNA J GORDYAN	814	468
10*19056	BB	5-15-3	LESLIE R KEYS	814	463
10*19061	BB	5-15-3	ANN WOLSCHEGER	817	615
10*19066	BB	5-15-3	MICHAEL FRANKHAUSER	818	29
10*19068	BB	5-15-3	LINDA L RUPERT	820	229
10*19069	BB	5-15-3	SCOTT D FRANKHAUSER	822	446
10*19071	BB	5-15-3	DONNA L CLAPPER	820	191
10*19074	BB	5-15-3	PHILIP G FRANKHAUSER	822	441
10*19076	BB	5-15-3	FRANKHAUSER LIVING TRUST SUSAN LIVINGSTON, TRUSTEE	826	495
10*19080	BB	5-15-3	REVOCABLE TRUST AGREEMENT CHARLES S HAMEL	835	266
10*19081	BB	5-15-3	RUDINA A FRANKHAUSER	831	457
10*19128	BB	5-15-3	RUDOLPH G FRANKHAUSER	860	258
10*19254	BB	5-15-3	JOANNE LABRY	820	320
10*19293	BB	5-15-3	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR BERNETTA D BROWN AND DOUGLAS M BROWN	655	566
10*21934	BB	5-15-3	BROWN	960	167
10*21936	BB	5-15-3	CHRISTOPHER L PARSONS & LAURA A PARSONS	960	170
10*22046	BB	5-15-3	PHYLLIS E HARVEY AND STEVEN E HARVEY	960	398
10*22293	BB	5-15-3	ROBERT W PARSONS AND LINDA B PARSONS	962	197
10*22404	BB	5-15-3	REBECCA S LUKATS AND ELMER M LUKATS	962	566
10*22417	BB	5-15-3	RONALD L PARSONS AND PAULA J PARSONS	963	386
10*19293	CC	5-15-2	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR KAREN J DENNY	655	566
10*19310	DD	5-15-2	ELEN DINGER & RICHARD DINGER	798	551
10*19311	DD	5-15-2	FLORENCE K FOSTER & DAVID B FOSTER	798	395
10*19312	DD	5-15-2	MARK A GALLAGHER	799	92
10*19313	DD	5-15-2	NANCY KAY GALLAGHER	798	579
10*19314	DD	5-15-2	THE JOSEPHINE A RYAN REV LIVING TRUST REBECCA J KOVALCHIK AND WILLIAM D KOVALCHIK	798	495
10*19315	DD	5-15-2	CAROL A KURTZ	798	361
10*19316	DD	5-15-2	SHIRLEY J POGORZELSKI	798	588
10*19317	DD	5-15-2	PATRICIA M PORTWOOD AND CLARENCE A PORTWOOD	798	561
10*19318	DD	5-15-2	JUDY L RIDGWAY	799	110
10*19319	DD	5-15-2	ALBERTA RYAN	799	46
10*19320	DD	5-15-2	FINLEY RYAN JR	798	624
10*19321	DD	5-15-2	JAMES D RYAN	798	504
10*19322	DD	5-15-2	JAMES R RYAN JR AND PAUL J RYAN KEVIN MICHAEL RYAN	798	370
10*19324	DD	5-15-2	RUTH E RYAN	799	166
10*19325	DD	5-15-2	VINCENT JASON RYAN III	798	570
10*19326	DD	5-15-2	WILBERT W RYAN JR	799	137
10*19327	DD	5-15-2	WILLIAM HERVEY MILLER RYAN	798	615
10*19328	DD	5-15-2	GEORGE SETTLES	799	128
10*19329	DD	5-15-2	ELSE M SHORLAND	799	28
10*19330	DD	5-15-2	RHONDA R TOPPER & DAVID R TOPPER	799	119
10*19331	DD	5-15-2	MARY F WASZKIEWICZ	799	19
10*19332	DD	5-15-2	AUDREY E WELLS	798	606
10*19333	DD	5-15-2	KATHRYN G WOOD	798	386
10*19334	DD	5-15-2	WOODROW A. RYAN REV TRST JACK W. RYAN, TRUSTEE	800	162
10*19335	DD	5-15-2	JACK PETROCK HATTIE PETROCK	799	37
10*19337	EE	5-15-6.1	JOSEPH I. KRAMAR, SR. JO ANN KRAMAR	741	68
10*19293	EE	5-15-6.1	KEVIN J. KELLY PAMELA MARKEN-KELLY	655	566
10*19295	EE	5-15-6.1	MARISSA C MARXEN	858	381
10*19296	EE	5-15-6.1	MARISSA C MARXEN	857	120



P.S.  
708  
*David L Jackson*



**TUG HILL**  
OPERATING

OPERATOR'S

WELL #: WOODFORD\_9HU

DISTRICT: Franklin

COUNTY: Marshall

STATE: WV

API# 47-051-02150

WELL PLAT

PAGE: 5 OF 6

DATE: 07/27/2020