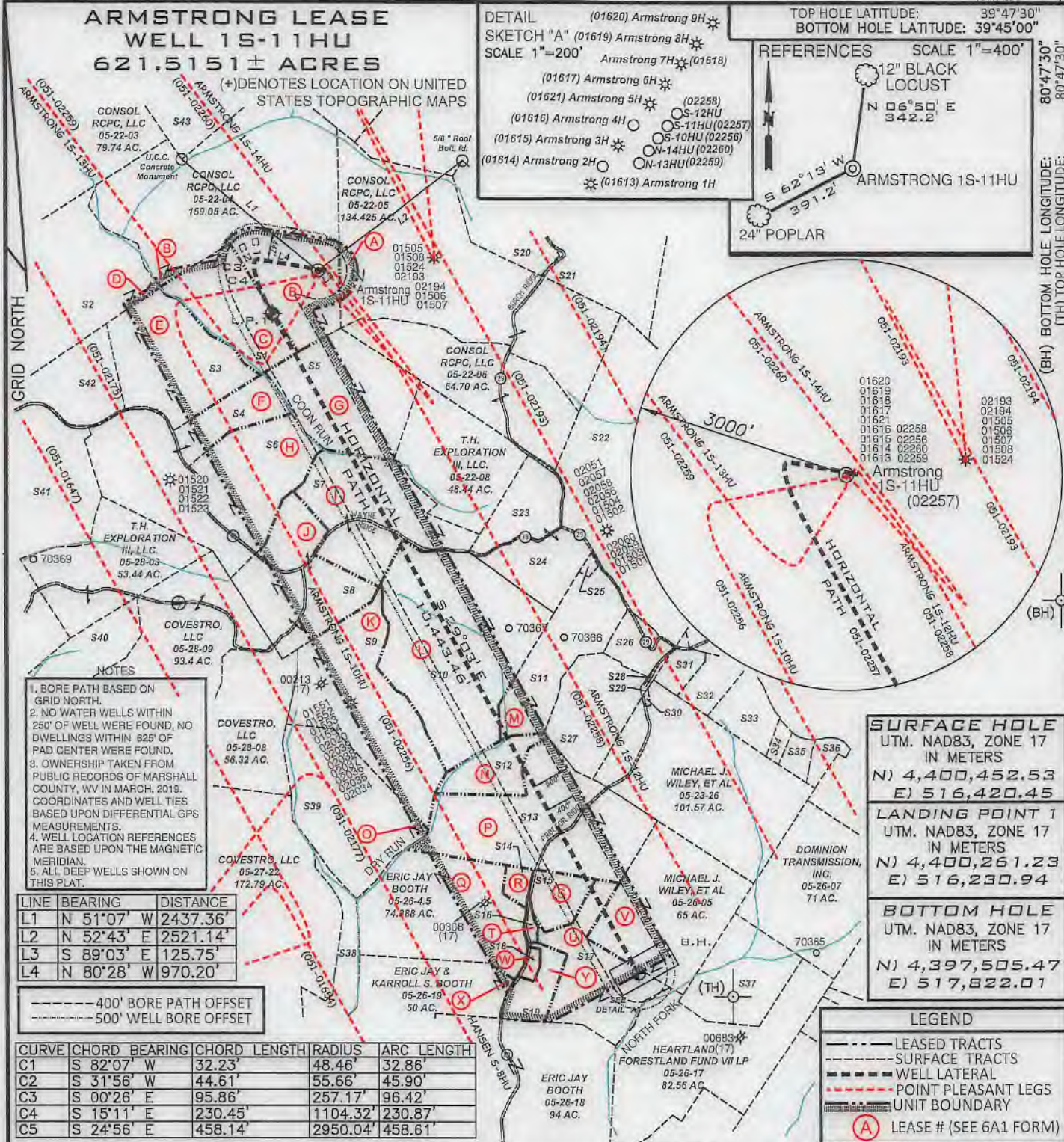
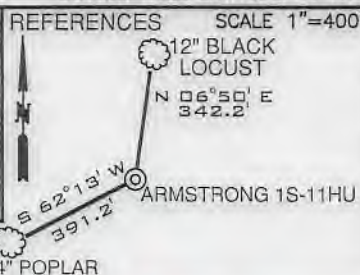


**ARMSTRONG LEASE
WELL 1S-11HU
621.5151 ± ACRES**

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

DETAIL (01620) Armstrong 9H
SKETCH "A" (01619) Armstrong 8H
SCALE 1"=200'
Armstrong 7H (01618)
(01617) Armstrong 6H
(01621) Armstrong 5H (02258)
(01616) Armstrong 4H
(01615) Armstrong 3H
(01614) Armstrong 2H
ARMSTRONG 1S-11HU (02257)
ARMSTRONG 1S-12HU (02258)
ARMSTRONG 1S-10HU (02256)
ARMSTRONG 1S-14HU (02260)
ARMSTRONG 1S-13HU (02259)
(01613) Armstrong 1H

TOP HOLE LATITUDE: 39°47'30"
BOTTOM HOLE LATITUDE: 39°45'00"



- 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, 2019. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 4. WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.
 5. ALL DEEP WELLS SHOWN ON THIS PLAT.

LINE	BEARING	DISTANCE
L1	N 51°07' W	2437.36'
L2	N 52°43' E	2521.14'
L3	S 89°03' E	125.75'
L4	N 80°28' W	970.20'

----- 400' BORE PATH OFFSET
----- 500' WELL BORE OFFSET

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 82°07' W	32.23'	48.46'	32.86'
C2	S 31°56' W	44.61'	55.66'	45.90'
C3	S 00°28' E	95.86'	257.17'	96.42'
C4	S 15°11' E	230.45'	1104.32'	230.87'
C5	S 24°56' E	458.14'	2950.04'	458.61'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,400,452.53
E) 516,420.45

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,400,261.23
E) 516,230.94

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,397,505.47
E) 517,822.01

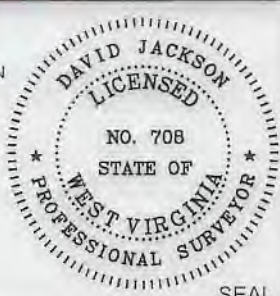
LEGEND

- LEASE TRACTS
- SURFACE TRACTS
- WELL LATERAL
- POINT PLEASANT LEGS
- UNIT BOUNDARY
- (A) LEASE # (SEE 6A1 FORM)

FILE NUMBER _____
DRAWING NUMBER: **ARMSTRONG 1S-11HU_REV 1**
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

P.S. 708 *David L Jackson*



JACKSON SURVEYING INC.
P.O. Box 1460
Clerksburg, WV 26302
304-623-5851

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

DATE: JULY 22, 2019
REVISED: NOVEMBER 05, 2019
OPERATORS WELL NO. Armstrong 1S-11HU
API WELL NO. 47-051-02257
STATE COUNTY PERMIT

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

LOCATION ELEVATION 1279.12' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER
DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE POWHATAN POINT 7.5' LEASE NUMBER SEE WW-6A1 Form

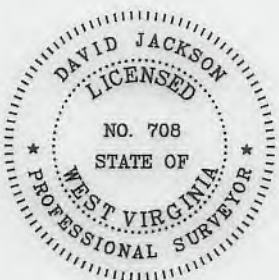
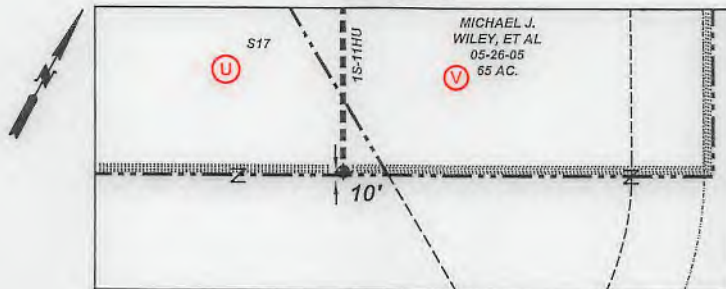
SURFACE OWNER CONSOL RCPC, LLC. ACREAGE 159.05
OIL & GAS ROYALTY OWNER CONSOL RCPC, LLC. LEASE ACREAGE 159.05
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____
PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,371' TMD: 22,155'
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

COUNTY NAME
PERMIT

**ARMSTRONG LEASE
WELL 1S-11HU
621.5151± ACRES**

Number	TAX MAP-PARCEL	SURFACE OWNER	ACRES
S1	C 05-22-17	Consol RCPC, LLC.	159.05
S2	D 05-22-18	Edward R. Yoho, Jr.	77.13
S3	E 05-22-16	Edward R. Yoho, Jr.	57.0
S4	F 05-22-12	T.H. Exploration III, LLC.	61.49
S5	G 05-22-10	T.H. Exploration III, LLC.	58.40
S6	H 05-22-11	T.H. Exploration III, LLC.	55.65
S7	I 05-22-9	T.H. Exploration III, LLC.	63.44
S8	J 05-28-4	T.H. Exploration III, LLC.	48.44
S9	K 05-28-6	Ula F. Nelson	70.0
S10	L 05-28-5	T.H. Exploration III, LLC.	105.9
S11	M 05-23-28	Gregg D. Minor	39.43
S12	N 05-26-1	Edwin Booth Anderson & Mark W. Booth	12.94
S13	P 05-26-2	Edwin Booth Anderson & Mark W. Booth	67.5
S14	R 05-26-4	James R. & Melody A. Anderson	3.887
S15	S 05-26-4.6	Otis F. Rush Jr.	12.268
S16	T 05-26-4.2	Otis S. Rush, et ux	1.58
S17	U 05-26-4.4	Otis F. & Glenda M. Rush	39.436
S18	W 05-26-4.3	Crystal & Randolph F. Matask	2.253
S19	Y 05-26-4.1	Otis S. Rush, et ux	12.188
S20	05-19-18.2	Paul V. & Carol Neely	32.672
S21	05-19-18	Mark E. Yoho, et ux	55.948
S22	05-23-1	Patricia Accettolo, et al	146.66
S23	05-22-7.1	XcL Exploration II, LLC & Atinum Marcellus I, LLC	20.68
S24	05-22-7	Patricia Accettolo, et al	25.02
S25	05-23-28.1	Troy W. & Erin M. Thomas	1.0
S26	05-23-28.2	Tammac Holdings Corporation	10.8
S27	05-23-27	Michael J. Wiley, et al	33.140
S28	05-23-23	Michael J. Wiley, et al	1.0
S29	05-23-24	Michael J. Wiley, et al	0.25
S30	05-23-25	Arthur A. Wiley	0.43
S31	05-23-22	Daniel D. Rhyand & Laurel R. Greene	6.25
S32	05-23-17.1	Curtis E. Hall, et ux	10.051
S33	05-23-17.2	Dick Rowan, Jr. & Carol J. Rowan	14.920
S34	05-23-17.4	Tammy D. Meadows	2.605
S35	05-23-17	Tammy & Thomas E. Brown	4.62
S36	05-23-17.3	William & Katherine Flewelling	5.018
S37	05-26-6	Heartwood Forestland Fund VII LP	36.17
S38	05-27-23	Robert. F. Rothlisberger	35.77
S39	O 05-28-7	Carl L. Corfield, Sr. & Lana R. Coffield	64.0
S40	05-27-5	Michael J. Wiley, et al	65.0
S41	05-22-13	John M. Moore, Theresa F. Moore, & Andrea S. Moore	40.57
S42	05-22-15	Edward R. Yoho, Jr.	25.5
S43	05-19-21	Sammy E. Whitlatch, et al	116.45

DETAIL "A"



4705102257 MDD

P.S. 708 *David L Jackson*



TUG HILL
OPERATING

OPERATOR'S
WELL #: Armstrong 1S-11HU
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STATE: WV
API: 47-051-02257

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**ARMSTRONG LEASE
WELL 1S-11HU
621.5151± ACRES**

Lease No.	Tags	Parcel	Grantor, Lessor, Etc.	Book	Page
10*19529	A	5-22-5	CNX GAS COMPANY LLC	733	500
10*14033	B	5-22-4	LAMOYNE BAKER	665	554
10*14034	B	5-22-4	LAWRENCE C AND LORRAINE J MCWHORTER	665	391
10*14035	B	5-22-4	PEGGY MAE WHITE	695	446
10*14036	B	5-22-4	WILDA WINTERS	701	579
10*14037	B	5-22-4	JUDITH L CHAMBERS	701	577
10*14038	B	5-22-4	HAYHURST COMPANY A FLORIDA PARTNERSHIP	724	7
10*14039	B	5-22-4	CHESTNUT HOLDINGS LLC	827	554
10*14507	C	5-22-17	MARY THERESA SOLEAU AND THOMAS SOLEAU	749	524
10*14508	C	5-22-17	JEAN W FOSTER	752	200
10*14509	C	5-22-17	JAMES ROBERT WELLS	752	202
10*14510	C	5-22-17	MARY AGNES CARROLL	749	528
10*14511	C	5-22-17	ELIZABETH JANE KELLER	754	242
10*14513	C	5-22-17	CAROLYN LYNN PORTER	767	256
10*14514	C	5-22-17	CHARLES ARTHUR WELLS	768	494
10*14515	C	5-22-17	JERRY TODD WELLS	773	572
10*14516	C	5-22-17	JAMES NESBITT WELLS BY JOANIE WELLS AIF	773	570
10*14517	C	5-22-17	CARL W BACH JR	852	250
10*14518	C	5-22-17	RAE ELLEN FLOYD AND KENNETH FLOYD	854	599
10*14519	C	5-22-17	DOUGLAS M BACH	854	597
10*16471	C	5-22-17	CNX GAS COMPANY LLC	905	155
10*16652	C	5-22-17	MARY JUDITH BRANSON AND MICHAEL L BRANSON	942	35
10*16674	C	5-22-17	CHARLOTTE A KASTELIC	942	37
10*26910	C	5-22-17	BRIDGET S AND DARRELL T GATES	1045	419
10*26940	C	5-22-17	PATRICK N WELLS	1045	413
10*14457	D	5-22-18	HARRY LEE GOUDY	731	140
10*14457	E	5-22-16	HARRY LEE GOUDY	731	140
10*14418	F	5-22-12	PPG INDUSTRIES, INC.	878	610
10*14418	G	5-22-10	PPG INDUSTRIES, INC.	878	610
10*14418	H	5-22-11	PPG INDUSTRIES, INC.	878	610
10*14418	I	5-22-9	PPG INDUSTRIES, INC.	878	610
10*14418	J	5-28-4	PPG INDUSTRIES, INC.	878	610
10*14572	K	5-28-6	VICKI LYNN WOOD	681	326
10*14573	K	5-28-6	AARON DEAN LITMAN	681	317
10*14574	K	5-28-6	KLOVA ANN MORRIS	681	320
10*14575	K	5-28-6	REVA JUNE ICARD	681	323
10*14576	K	5-28-6	WILLIAM L LITMAN	681	329
10*14577	K	5-28-6	ULA F NELSON	681	332
10*14578	K	5-28-6	BETTY KNOWLES	767	36
10*14304	L	5-28-5	RUTH MAE DULANEY	749	530
10*14305	L	5-28-5	HELEN BOWMAN	749	362
10*14306	L	5-28-5	RANDY GODDARD	759	248
10*14418	L	5-28-5	PPG INDUSTRIES, INC.	878	610



4705102257 MOD

P.S.
708

David L Jackson



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Armstrong 1S-11HU
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API: 47-051-02257

WELL PLAT
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form wv6

**ARMSTRONG LEASE
WELL 1S-11HU
621.5151± ACRES**

Lease No.	Tags	Parcel	Grantor, Lessor, Etc.	Book	Page
10*21218	M	5-23-28	GREGG D MINOR	952	647
10*22330	M	5-23-28	GREGG D MINOR	963	156
10*14916	N	5-26-1	MARK W BOOTH	836	110
10*14917	N	5-26-1	EDWIN BOOTH ANDERSON	836	108
10*14065	O	5-28-7	CARL COFFIELD	665	363
10*14916	P	5-26-2	MARK W BOOTH	836	110
10*14917	P	5-26-2	EDWIN BOOTH ANDERSON	836	108
10*17137	Q	5-26-4.5	MARK E SMITH AND VALERIE SMITH LIFE TENANT	685	521
10*17153	Q	5-26-4.5	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	687	46
10*17137	R	5-26-4	MARK E SMITH AND VALERIE SMITH LIFE TENANT	685	521
10*17153	R	5-26-4	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	687	46
10*17137	S	5-26-4.6	MARK E SMITH AND VALERIE SMITH LIFE TENANT	685	521
10*17153	S	5-26-4.6	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	687	46
10*17137	T	5-26-4.2	MARK E SMITH AND VALERIE SMITH LIFE TENANT	685	521
10*17153	T	5-26-4.2	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	687	46
10*17137	U	5-26-4.4	MARK E SMITH AND VALERIE SMITH LIFE TENANT	685	521
10*17153	U	5-26-4.4	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	687	46
10*14742	V	5-26-5	SUSAN E GORE	790	505
10*14744	V	5-26-5	THE SAMUEL MILTON SHEETS TRUST PAULINE RUTH SHEETS TRUSTEE	791	637
10*14745	V	5-26-5	RALPH B TAYLOR	794	485
10*17716	V	5-26-5	MICHAEL J AND BARBARA L WILEY	919	638
10*17777	V	5-26-5	MICHELLE E AND ROBERT T BAKER	921	128
10*21420	V	5-26-5	DAVID D BURKETT	957	3
10*21421	V	5-26-5	BRYANNA FLYNN RANKIN	957	5
10*21437	V	5-26-5	REBECCA MCMILLAN AND ROBERT MCMILLAN	957	1
10*21821	V	5-26-5	LINDA K TAYLOR AND RAY P MAGEE	951	631
10*25633	V	5-26-5	CHESTNUT HOLDINGS LLC	1034	546
10*17137	W	5-26-4.3	MARK E SMITH AND VALERIE SMITH LIFE TENANT	685	521
10*17153	W	5-26-4.3	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	687	46
10*19908	X	5-26-19	GOLDA K ANDERSON	945	434
10*21935	X	5-26-19	KARROLL S BOOTH AND LOIS E BOOTH	940	593
10*22015	X	5-26-19	ERIC JAY BOOTH	942	217
10*17137	Y	5-26-4.1	MARK E SMITH AND VALERIE SMITH LIFE TENANT	685	521
10*17153	Y	5-26-4.1	ALLEN SMITH & BARBARA SMITH REMAINDERMAN	687	46

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P.S. 708 *David L Jackson*



**TUG HILL
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