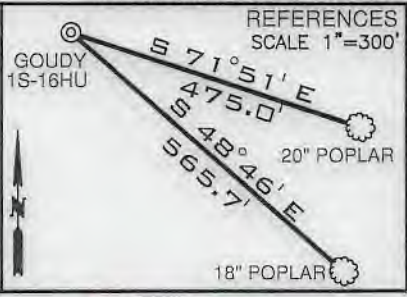
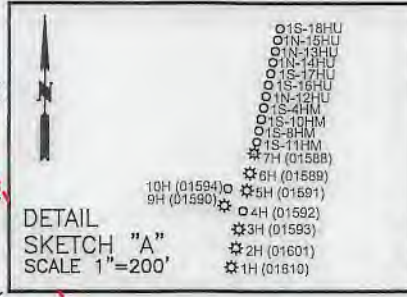


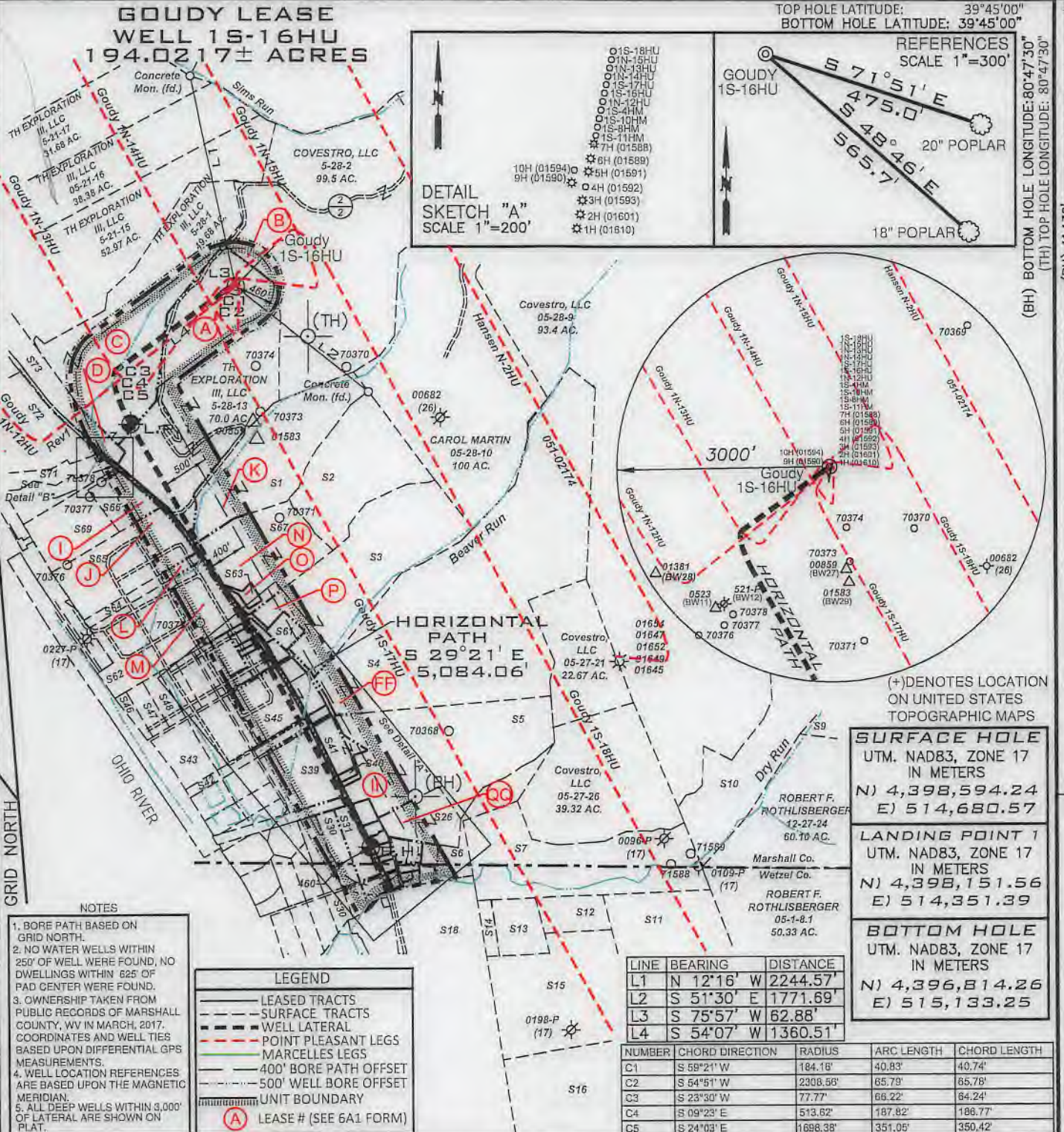
GOUDY LEASE WELL 1S-16HU 194.0217± ACRES

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

REFERENCES
SCALE 1"=300'



(BH) BOTTOM HOLE LONGITUDE: 80°47'30"
(TH) TOP HOLE LONGITUDE: 80°47'30"
(TH) 4,712'
(BH) 11,130'



- 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.
 5. ALL DEEP WELLS WITHIN 3,000' OF LATERAL ARE SHOWN ON PLAT.

LEGEND

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

LINE	BEARING	DISTANCE
L1	N 12°16' W	2244.57'
L2	S 51°30' E	1771.69'
L3	S 75°57' W	62.88'
L4	S 54°07' W	1360.51'

NUMBER	CHORD DIRECTION	RADIUS	ARC LENGTH	CHORD LENGTH
C1	S 59°21' W	184.18'	40.83'	40.74'
C2	S 54°51' W	2308.55'	65.79'	65.78'
C3	S 23°30' W	77.77'	66.22'	64.24'
C4	S 09°23' E	513.62'	187.82'	186.77'
C5	S 24°03' E	1698.38'	351.05'	350.42'

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,594.24
E) 514,680.57

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,151.56
E) 514,351.39

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,396,814.26
E) 515,133.25

FILE NUMBER _____

DRAWING NUMBER GOUDY_1S-16HU_REV2

SCALE 1" = 1500'

MINIMUM DEGREE OF ACCURACY 1/200

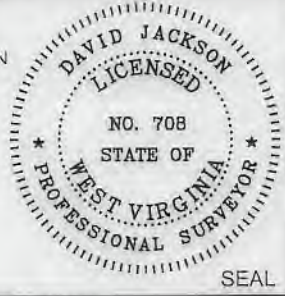
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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
304-623-8851



DATE: MARCH 15, 2019
REVISED DATE: JUNE 14, 2019
OPERATORS WELL NO. GOUDY 1S-16HU
API WELL NO. 47-051-02195
STATE COUNTY PERMIT

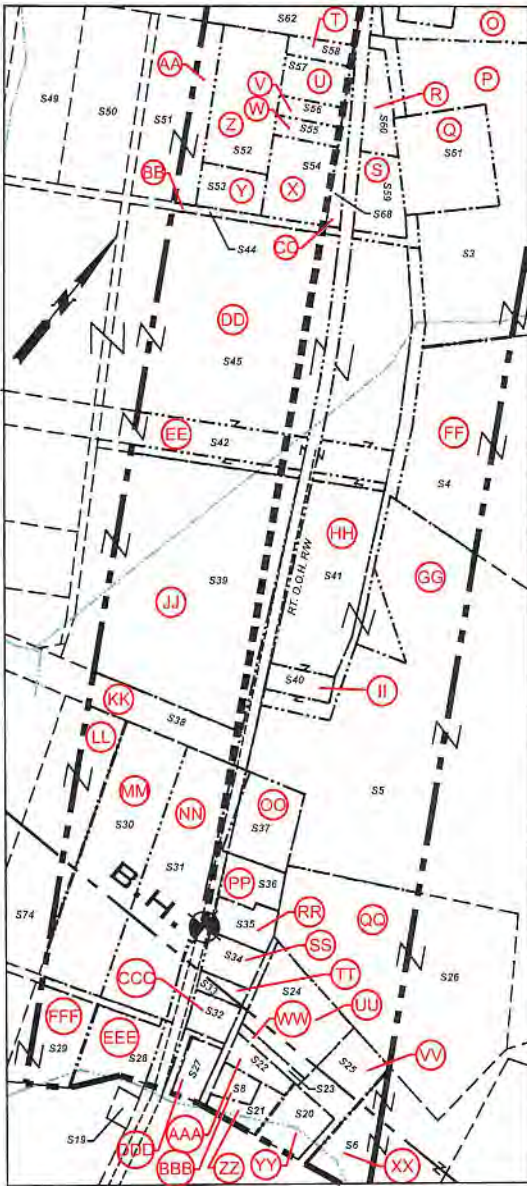
LOCATION ELEVATION 1239.4' WATERSHED (HUC 10) FRENCH CREEK - OHIO RIVER
DISTRICT FRANKLIN COUNTY MARSHALL
QUADRANGLE NEW MARTINSVILLE 7.5' LEASE NUMBER SEE WW-6A1 FORM

SURFACE OWNER TH EXPLORATION III, LLC ACREAGE 70.0
OIL & GAS ROYALTY OWNER TH EXPLORATION III, LLC LEASE ACREAGE 70.0
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
PERFORMATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) _____
PLUG & ABANDON CLEAN OUT & REPLUG

TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD: 11,270' TMD: 16,661'
WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 ADDRESS CHARLESTON, WV 25313

**GOUDY LEASE
WELL 1S-16HU
194.0217± ACRES**

Detail "A"



Detail "B"



P.S. 708 *David L Jackson*

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES	
S1	K	05-28-12	TH Exploration III, LLC.	20.226
S2		05-28-11	Carol A. Martin	24.681
S3	P	05-27-19	Covestro, LLC	33.786
S4	FF	05-27-20	Covestro, LLC	93.027
S5	GG	05-27-20.1	Appalachian Power Co.	43.973
S6	XX	05-27-27	James Andrew & Karen Lynne Richmond	8.9353
S7		05-27-25	James Andrew & Karen Lynne Richmond	41.35
S8	BBB	12-23-14	Robert F. Rothlisberger	65.0
S9		05-26-19	Eric Jay & Karrel S. Booth	50.0
S10		05-27-23	Robert F. Rothlisberger	35.77
S11		12-01-07	Robert F. Rothlisberger	101
S12		12-01-04	Robert F. Rothlisberger	6.0
S13		12-01-03	Edith Feenerty Harrison & Charles D. Harrison	7.8
S14		12-01-02	James A. & Karen L. Richmond	2.7
S15		12-01-05	Irvin L. Hoyt, Jr. & David L. Hoyt	36.8
S16		12-01-06	Mona Parsons, et al	52.75
S17		12-01-16	Vivian A. Parsons, et al	5.125
S18		12-01-01	Covestro, LLC	135.0
S19		12-01-1.7	Colombia Gas Transmission, Corp.	0.15
S20	YY	12-23-15	Paul E. & Donna Jo Cain	0.7
S21	ZZ	12-23-15.1	Robert F. Rothlisberger	0.47
S22	AAA	12-23-13	Paul E. & Donna Jo Cain	0.38
S23	WW	05-27-27.2	Paul E. Cain, et ux	0.1767
S24	UU	05-27-27.1	Donald P. Cain	1.645
S25	VV	12-27-27.3	Paul E. Cain, et ux	1.018
S26	QQ	05-27-28	Covestro, LLC	8.0
S27	DDD	12-23-12	Paul E. & Donna Jo Cain	0.37
S28	EEE	12-23-11	Covestro, LLC	1.25
S29	FFF	12-23-10	Covestro, LLC	1.28
S30	MM	12-23-05	Covestro, LLC	3.69
S31	NN	05-27-40	Covestro, LLC	3.36
S32	CCC	12-23-06	Covestro, LLC	0.34
S33	TT	05-27-44	Covestro, LLC	0.21
S34	SS	05-27-43	Covestro, LLC	0.63
S35	RR	05-27-42	Covestro, LLC	0.52
S36	PP	05-27-42.1	Covestro, LLC	0.52
S37	OO	05-27-41	Martha Jean Arrick	0.99
S38	KK	05-27-31.2	Appalachian Power Co.	3.33
S39	JJ	05-27-31	Covestro, LLC	16.1
S40	II	05-27-30	Covestro, LLC	0.374
S41	HH	05-27-31.1	Covestro, LLC	3.0
S42	EE	05-27-32.2	Covestro, LLC	3.95
S43		05-27-29	Covestro, LLC	9.0
S44	BB	05-27-45	Covestro, LLC	0.3627
S45	DD	05-27-32	Covestro, LLC	33.53
S46		05-27-03	Covestro, LLC	1.27
S47		05-27-04	Covestro, LLC	2.52
S48		05-27-05	Covestro, LLC	2.52
S49		05-27-06	Covestro, LLC	2.52
S50		05-27-07	Covestro, LLC	2.52
S51	AA	05-27-08	Covestro, LLC	2.52
S52	Z	05-27-09	Covestro, LLC	1.87
S53	Y	05-27-10	Covestro, LLC	0.52
S54	X	05-27-12	Covestro, LLC	1.0
S55	W	05-27-13	Covestro, LLC	0.34
S56	V	05-27-14	Covestro, LLC	0.25
S57	U	05-27-15	Covestro, LLC	0.47
S58	T	05-27-16	Covestro, LLC	0.23
S59	S	05-27-18	Covestro, LLC	0.97
S60	R	05-27-17	Covestro, LLC	0.88
S61	Q	05-27-19.3	Cemetery	2.0
S62	M	05-27-02	Covestro, LLC	28.099
S63	O	05-27-19.2	Wheeling Electric Co.	0.75
S64	L	05-28-12.2	Covestro, LLC	3.1
S65	J	05-28-12.3	Covestro, LLC	18.784
S66	I	05-28-13.1	Air Products & Chemicals, Inc	5.522
S67	N	05-27-19.1	Covestro, LLC	21.267
S68	CC	05-27-11	Covestro, LLC	0.07
S69	H	05-28-13.2	Covestro, LLC	11.02
S70	G	05-28-1.1	Covestro, LLC	5.2217
S71	F	05-28-1.4	Covestro, LLC	11.69
S72	E	05-28-1.2	Covestro, LLC	21.62
S73	D	05-21-3.1	Eagle Natruim, LLC	98.61
S74	LL	05-27-39	Covestro, LLC	3.74



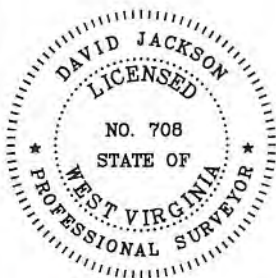
**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Goudy 1S-16HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API: 047-051-

WELL PLAT
PAGE 2 OF 3
DATE: 3/15/2019
REVISED DATE: 6/14/2019

PG 3 OF 4 **GOUDY LEASE**
WELL 1S-16HU
194.0217± ACRES

Lease ID	Tags	Parcel	Grantor, Lessor, Etc.	Deed Book/Page	
10*14418	A	5-28-13	PPG INDUSTRIES, INC.	878	610
10*27022	B	5-28-2	COVESTRO LLC	1046	431
10*14418	C	5-28-1	PPG INDUSTRIES, INC.	878	610
10*14418	D	5-21-3.1	PPG INDUSTRIES, INC.	878	610
10*14418	E	5-28-1.2	PPG INDUSTRIES, INC.	878	610
10*14418	F	5-28-1.4	PPG INDUSTRIES, INC.	878	610
10*14418	G	5-28-1.1	PPG INDUSTRIES, INC.	878	610
10*14418	H	5-28-13.2	PPG INDUSTRIES, INC.	878	610
10*14418	I	5-28-13.1	PPG INDUSTRIES, INC.	878	610
10*27022	J	5-28-12.3	COVESTRO LLC	1046	431
10*14658	K	5-28-12	THOMAS WILLIAM ABERSOLD	775	314
10*14659	K	5-28-12	JUDITH LEE ABERSOLD	781	609
10*14418	K	5-28-12	PPG INDUSTRIES, INC.	878	610
10*27022	L	5-28-12.2	COVESTRO LLC	1046	431
10*27022	M	5-27-2	COVESTRO LLC	1046	431
10*14495	N	5-27-19.1	PATRICIA HARTMAN	752	197
10*14493	N	5-27-19.1	BETTY JEAN NEELY	748	468
10*14494	N	5-27-19.1	MARY LOU WILSON	748	471
10*14496	N	5-27-19.1	STEPHANIE L HALL	752	215
10*14497	N	5-27-19.1	CAROL DEEN GARDNER	752	212
10*27022	N	5-27-19.1	COVESTRO LLC	1046	431
10*14703	O	5-27-19.2	WHEELING POWER COMPANY AKA WHE	786	383
10*14495	O	5-27-19.2	PATRICIA HARTMAN	752	197
10*14493	O	5-27-19.2	BETTY JEAN NEELY	748	468
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10*14495	P	5-27-19	PATRICIA HARTMAN	752	197
10*14493	P	5-27-19	BETTY JEAN NEELY	748	468
10*14494	P	5-27-19	MARY LOU WILSON	748	471
10*14496	P	5-27-19	STEPHANIE L HALL	752	215
10*14497	P	5-27-19	CAROL DEEN GARDNER	752	212
10*27022	P	5-27-19	COVESTRO LLC	1046	431
10*14493	Q	5-27-19.3	BETTY JEAN NEELY	748	468
10*14494	Q	5-27-19.3	MARY LOU WILSON	748	471
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10*14496	Q	5-27-19.3	STEPHANIE L HALL	752	215
10*14497	Q	5-27-19.3	CAROL DEEN GARDNER	752	212
10*25655	Q	5-27-19.3	HILARY AND VIRGIE MONTGOMERY	1033	306
10*25715	Q	5-27-19.3	ANNA JONES	1035	163
10*25473	Q	5-27-19.3	ETHEL J EVANS	1033	115
10*25494	Q	5-27-19.3	MARIE ERLEWINE	1033	113
10*25558	Q	5-27-19.3	MARLENE AND EUGENE RECTOR	1033	304
10*26821	Q	5-27-19.3	WILLIAM R MOORE	1040	538
10*26458	Q	5-27-19.3	SHARON COLVIN FKA SHARON SUE ERLEWINE ET UX	1035	3
10*26820	Q	5-27-19.3	ROBERT C EVANS	1040	582
10*26597	Q	5-27-19.3	RICHARD LEE ERLEWINE AND DONNA L ERLEWINE	1038	526
10*26824	Q	5-27-19.3	REBECCA M COWARD AND EDWARD S COWARD	1040	532
10*26912	Q	5-27-19.3	RACHAEL I MOORE	1040	544
10*26823	Q	5-27-19.3	MICHAEL J MOORE	1040	550
10*26582	Q	5-27-19.3	LINDA E HILL FKA LINDA LOU ERLEWINE AND JOHN S HILL	1038	535
10*26595	Q	5-27-19.3	KELLY R ROOT FKA KELLY R EVANS	1038	530
10*26593	Q	5-27-19.3	CRAIG DOUGLAS ERLEWINE AND DOREEN E ERLEWINE	1038	540
10*26509	Q	5-27-19.3	CECELIA EDWARDS	1037	446
10*26822	Q	5-27-19.3	ALBERT L MOORE	1040	556
10*27022	R	5-27-17	COVESTRO LLC	1046	431
10*27022	S	5-27-18	COVESTRO LLC	1046	431
10*27022	T	5-27-16	COVESTRO LLC	1046	431
10*27022	U	5-27-15	COVESTRO LLC	1046	431



P.S. 708 *David L Jackson*



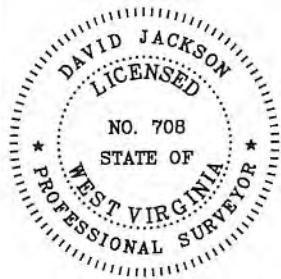
TUG HILL
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WELL PLAT
PAGE 3 OF 4
DATE: 3/15/2019
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PG 4 OF 4 **GOUDY LEASE**
WELL 1S-16HU
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Lease ID	Tags	Parcel	Grantor, Lessor, Etc.	Deed Book/Page	
10*27022	V	5-27-14	COVESTRO LLC	1046	431
10*27022	W	5-27-13	COVESTRO LLC	1046	431
10*27022	X	5-27-12	COVESTRO LLC	1046	431
10*27022	Y	5-27-10	COVESTRO LLC	1046	431
10*27022	Z	5-27-9	COVESTRO LLC	1046	431
10*27022	AA	5-27-8	COVESTRO LLC	1046	431
10*27022	BB	5-27-45	COVESTRO LLC	1046	431
10*27022	CC	5-27-11	COVESTRO LLC	1046	431
10*27022	DD	5-27-32	COVESTRO LLC	1046	431
10*27022	EE	5-27-32.2	COVESTRO LLC	1046	431
10*14493	FF	5-27-20	BETTY JEAN NEELY	748	468
10*14494	FF	5-27-20	MARY LOU WILSON	748	471
10*14495	FF	5-27-20	PATRICIA HARTMAN	752	197
10*14496	FF	5-27-20	STEPHANIE L HALL	752	215
10*14497	FF	5-27-20	CAROL DEEN GARDNER	752	212
10*27022	FF	5-27-20	COVESTRO LLC	1046	431
10*14495	GG	5-27-20.1	PATRICIA HARTMAN	752	197
10*14493	GG	5-27-20.1	BETTY JEAN NEELY	748	468
10*14494	GG	5-27-20.1	MARY LOU WILSON	748	471
10*14496	GG	5-27-20.1	STEPHANIE L HALL	752	215
10*14497	GG	5-27-20.1	CAROL DEEN GARDNER	752	212
10*14499	GG	5-27-20.1	UNION CARBIDE CORPORATION	815	221
10*27022	HH	5-27-31.1	COVESTRO LLC	1046	431
10*27022	II	5-27-30	COVESTRO LLC	1046	431
10*27022	JJ	5-27-31	COVESTRO LLC	1046	431
10*14499	KK	5-27-31.2	UNION CARBIDE CORPORATION	815	221
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10*27022	MM	12-23-5	COVESTRO LLC	1046	431
10*27022	NN	5-27-40	COVESTRO LLC	1046	431
10*17513	OO	5-27-41	DONALD FREDRICK ARRICK	942	4
10*27022	PP	5-27-42.1	COVESTRO LLC	1046	431
10*14493	QQ	5-27-28	BETTY JEAN NEELY	748	468
10*14494	QQ	5-27-28	MARY LOU WILSON	748	471
10*14495	QQ	5-27-28	PATRICIA HARTMAN	752	197
10*14496	QQ	5-27-28	STEPHANIE L HALL	752	215
10*14497	QQ	5-27-28	CAROL DEEN GARDNER	752	212
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10*27022	TT	5-27-44	COVESTRO LLC	1046	431
10*18446	UU	5-27-27.1	DONALD P CAIN	933	96
10*18445	VV	5-27-27.3	PAUL E CAIN AND DONNA JO CAIN	933	93
10*18445	WW	5-27-27.2	PAUL E CAIN AND DONNA JO CAIN	933	93
10*14505	XX	5-27-27	JAMES ANDREW RICHMOND	752	447
10*18438	YY	12-23-15	PAUL E CAIN AND DONNA JO CAIN	190A	191
10*23506	ZZ	12-23-15.1	ROBERT F ROTHLSBERGER	210A	805
10*18438	AAA	12-23-13	PAUL E CAIN AND DONNA JO CAIN	190A	191
10*23506	BBB	12-23-14	ROBERT F ROTHLSBERGER	210A	805
10*27022	CCC	12-23-6	COVESTRO LLC	226A	362
10*18438	DDD	12-23-12	PAUL E CAIN AND DONNA JO CAIN	190A	191
10*27022	EEE	12-23-11	COVESTRO LLC	226A	362
10*27022	FFF	12-23-10	COVESTRO LLC	226A	362

P.S.
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David L Jackson



TUG HILL
OPERATING

OPERATOR'S
WELL #: Goudy 1S-16HU
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WELL PLAT
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