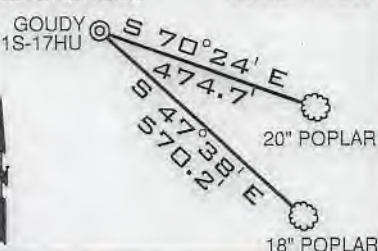


**GOUDY LEASE
WELL 1S-17HU
366.3537± ACRES**

DETAIL SKETCH "A"
SCALE 1"=200'

REFERENCES

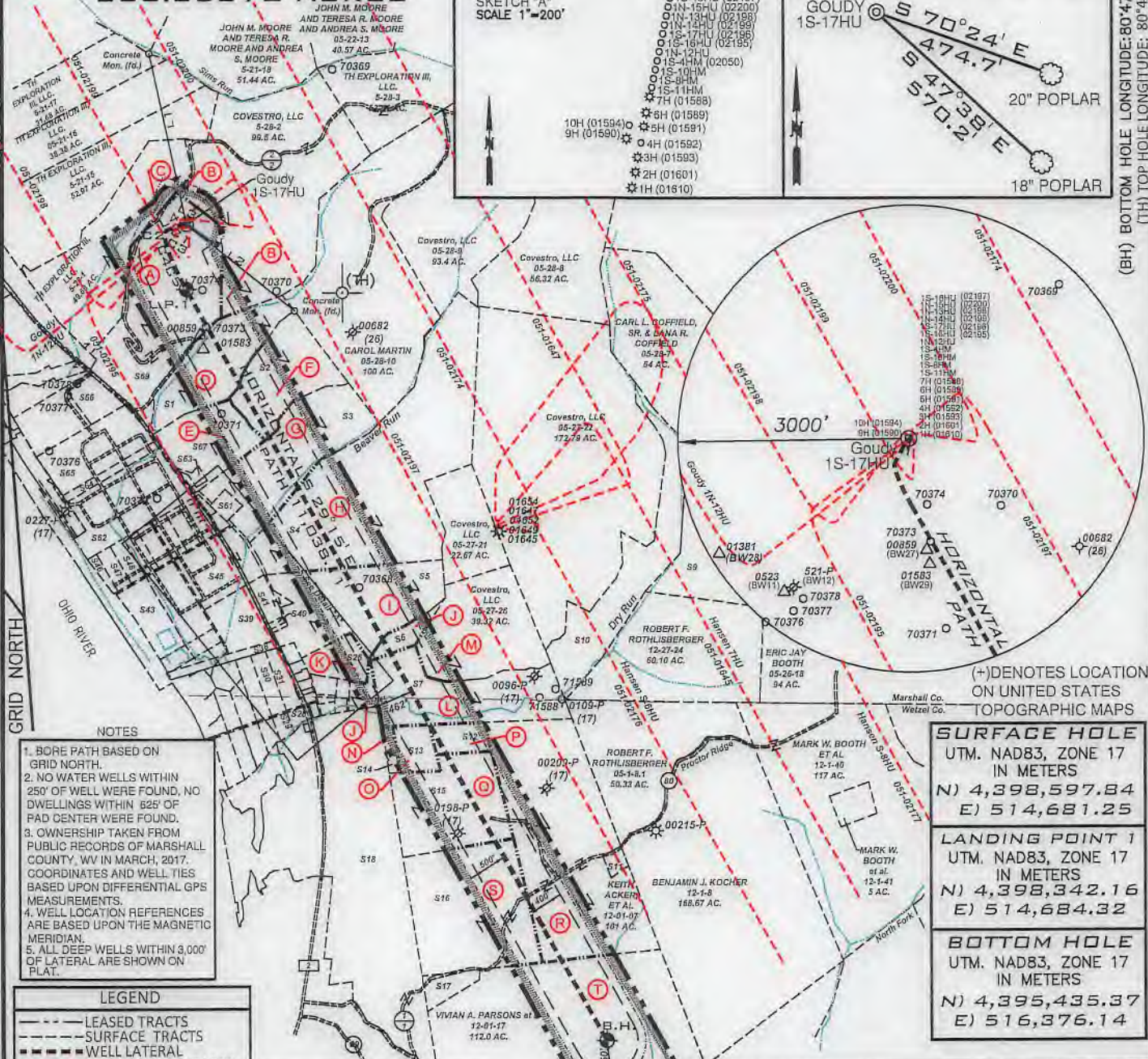
SCALE 1"=200'



- 01S-18HU (02197)
- 01N-15HU (02200)
- 01N-13HU (02198)
- 01S-17HU (02195)
- 01S-16HU (02195)
- 01N-12HU (02050)
- 01S-11HM (02050)
- 01S-10HM (02050)
- 01N-9HM (02050)
- 01S-8HM (02050)
- 01S-7H (01588)
- 01S-6H (01589)
- 01S-5H (01591)
- 01S-4H (01592)
- 01S-3H (01593)
- 01S-2H (01601)
- 01S-1H (01610)
- 10H (01594)
- 9H (01590)

(BH) BOTTOM HOLE LONGITUDE: 80°47'30"
(TH) TOP HOLE LONGITUDE: 80°47'30"

(TH) 4,700'
(BH) 15,092'



- 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°24' W	2233.61'
L2	S 51°09' E	1777.13'
L3	N 74°03' W	41.89'
L4	S 67°20' W	237.08'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 36°22' W	31.91'	34.45'	33.18'
C2	S 01°08' W	62.21'	173.56'	62.55'
C3	(BH) S 13°51' E	157.75'	839.98'	157.98'
C4	S 20°47' E	185.46'	2205.89'	185.51'
C5	S 26°28' E	385.25'	3622.62'	385.43'

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,398,597.84 E) 514,681.25
LANDING POINT 1 UTM. NAD83, ZONE 17 IN METERS N) 4,398,342.16 E) 514,684.32
BOTTOM HOLE UTM. NAD83, ZONE 17 IN METERS N) 4,395,435.37 E) 516,376.14

FILE NUMBER _____

DRAWING NUMBER GOUDY_1S-17HU_REV4

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1/200

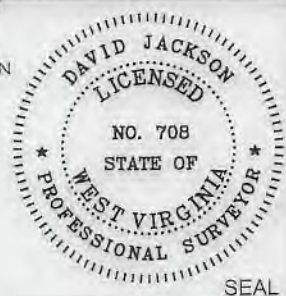
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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 1460
Clarksburg, WV 26302
304-623-5851



DATE: MARCH 15, 2019
REVISED DATE: JULY 23, 2019
OPERATORS WELL NO. GOUDY 1S-17HU
API WELL NO. 47-051-02196
STATE COUNTY PERMIT 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 _____
PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE (SPECIFY) _____
PLUG & ABANDON _____ CLEAN OUT & REPLUG _____
TARGET FORMATION POINT PLEASANT ESTIMATED DEPTH TVD 11,285' TMD: 22,545'
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

**GOUDY LEASE
WELL 1S-17HU
366.3537± ACRES**



**Detail "A"
SCALE 1"=1000'**



Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	D 05-28-12	TH Exploration III, LLC.	20.226
S2	F 05-28-11	Carol A. Martin	24.681
S3	G 05-27-19	Covestro, LLC	33.786
S4	H 05-27-20	Covestro, LLC	93.027
S5	I 05-27-20.1	Appalachian Power Co.	43.973
S6	J 05-27-27	James Andrew & Karen Lynne Richmond	8.9353
S7	L 05-27-25	James Andrew & Karen Lynne Richmond	41.35
S8	12-23-14	Robert F. Rothlisberger	0.27
S9	05-26-19	Eric Jay & Karrel S. Booth	50.0
S10	05-27-23	Robert F. Rothlisberger	35.77
S11	12-01-7.1	Harry Wayman Estate	2.0
S12	P 12-01-04	Robert F. Rothlisberger	6.0
S13	O 12-01-03	Edith Feenerty Harrison & Charles D. Harrison	7.8
S14	N 12-01-02	James A. & Karen L. Richmond	2.7
S15	Q 12-01-05	Irvin L. Hoyt, Jr. & David L. Hoyt	36.8
S16	S 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	12-23-15	Paul E. & Donna Jo Cain	0.7
S21	12-23-15.1	Robert F. Rothlisberger	0.47
S22	12-23-13	Paul E. & Donna Jo Cain	0.38
S23	05-27-27.2	Paul E. Cain, et ux	0.1767
S24	05-27-27.1	Donald P. Cain	1.645
S25	05-27-27.3	Paul E. Cain, et ux	1.018
S26	K 05-27-28	Covestro, LLC	8.0
S27	12-23-12	Paul E. & Donna Jo Cain	0.37
S28	12-23-11	Covestro, LLC	1.25
S29	12-23-10	Covestro, LLC	1.28
S30	12-23-05	Covestro, LLC	3.69
S31	05-27-40	Covestro, LLC	3.36
S32	12-23-06	Covestro, LLC	0.34
S33	05-27-44	Covestro, LLC	0.21
S34	05-27-43	Covestro, LLC	0.63
S35	05-27-42	Covestro, LLC	0.52
S36	05-27-42.1	Covestro, LLC	0.52
S37	05-27-41	Martha Jean Arrick	0.99
S38	05-27-31.2	Appalachian Power Co.	3.33
S39	05-27-31	Covestro, LLC	16.1
S40	05-27-30	Covestro, LLC	0.371
S41	05-27-31.1	Covestro, LLC	3.0
S42	05-27-32.2	Covestro, LLC	3.95
S43	05-27-29	Covestro, LLC	9.0
S44	05-27-45	Covestro, LLC	0.3627
S45	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	05-27-08	Covestro, LLC	2.52
S52	05-27-09	Covestro, LLC	1.87
S53	05-27-10	Covestro, LLC	0.52
S54	05-27-12	Covestro, LLC	1.0
S55	05-27-13	Covestro, LLC	0.34
S56	05-27-14	Covestro, LLC	0.25
S57	05-27-15	Covestro, LLC	0.47
S58	05-27-16	Covestro, LLC	0.23
S59	05-27-18	Covestro, LLC	0.97
S60	05-27-17	Covestro, LLC	0.88
S61	05-27-19.3	Cemetery	2.0
S62	05-27-02	Covestro, LLC	28.099
S63	05-27-19.2	Wheeling Electric Co.	0.75
S64	05-28-12.2	Covestro, LLC	3.1
S65	05-28-12.3	Covestro, LLC	18.784
S66	05-28-13.1	Air Products & Chemicals, Inc	5.522
S67	E 05-27-19.1	Covestro, LLC	21.267
S68	05-27-11	Covestro, LLC	0.03
S69	A 05-28-13	TH Exploration III, LLC.	81.36



P.S. 708 *David L Jackson*



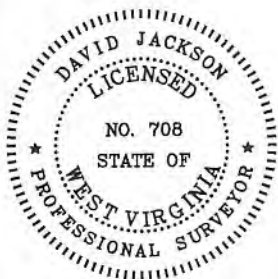
**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Goudy 1S-17HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API # 47-051-02196

WELL PLAT
PAGE 2 OF 3
DATE: 3/15/2019
**REVISED DATE:
7/03/2019**

**GOUDY LEASE
WELL 1S-17HU
366.3537± ACRES**

Lease ID	Parcel	Tags	Granor, Lessor, Etc.	Deed	Page
10*14418	5-28-13	A	PPG INDUSTRIES, INC.	878	610
10*27022	5-28-2	B	COVESTRO, LLC	1046	431
10*14418	5-28-1	C	PPG INDUSTRIES, INC.	878	610
10*14418	5-28-12	D	PPG INDUSTRIES, INC.	878	610
10*14658	5-28-12	D	THOMAS WILLIAM ABERSOLD	775	314
10*14659	5-28-12	D	JUDITH LEE ABERSOLD	781	609
10*14493	5-27-19.1	E	BETTY JEAN NEELY	748	468
10*14494	5-27-19.1	E	MARY LOU WILSON	748	471
10*14495	5-27-19.1	E	PATRICIA HARTMAN	752	197
10*14496	5-27-19.1	E	STEPHANIE L. HALL	752	215
10*14497	5-27-19.1	E	CAROL DEEN GARDNER	752	212
10*27022	5-27-19.1	E	COVESTRO, LLC	1046	431
10*14565	5-28-11	F	HARRY LEE GOUDY	670	59
10*14493	5-27-19	G	BETTY JEAN NEELY	748	468
10*14494	5-27-19	G	MARY LOU WILSON	748	471
10*14495	5-27-19	G	PATRICIA HARTMAN	752	197
10*14496	5-27-19	G	STEPHANIE L. HALL	752	215
10*14497	5-27-19	G	CAROL DEEN GARDNER	752	212
10*27022	5-27-19	G	COVESTRO, LLC	1046	431
10*14493	5-27-20	H	BETTY JEAN NEELY	748	468
10*14494	5-27-20	H	MARY LOU WILSON	748	471
10*14495	5-27-20	H	PATRICIA HARTMAN	752	197
10*14496	5-27-20	H	STEPHANIE L. HALL	752	215
10*14497	5-27-20	H	CAROL DEEN GARDNER	752	212
10*27022	5-27-20	H	COVESTRO, LLC	1046	431
10*14493	5-27-20.1	I	BETTY JEAN NEELY	748	468
10*14494	5-27-20.1	I	MARY LOU WILSON	748	471
10*14495	5-27-20.1	I	PATRICIA HARTMAN	752	197
10*14496	5-27-20.1	I	STEPHANIE L. HALL	752	215
10*14497	5-27-20.1	I	CAROL DEEN GARDNER	752	212
10*14499	5-27-20.1	I	UNION CARBIDE CORPORATION	815	221
10*14505	5-27-27	J	JAMES ANDREW & KAREN RICHMOND	752	447
10*14493	5-27-28	K	BETTY JEAN NEELY	748	468
10*14494	5-27-28	K	MARY LOU WILSON	748	471
10*14495	5-27-28	K	PATRICIA HARTMAN	752	197
10*14496	5-27-28	K	STEPHANIE L. HALL	752	215
10*14497	5-27-28	K	CAROL DEEN GARDNER	752	212
10*27022	5-27-28	K	COVESTRO, LLC	1046	431
10*14505	5-27-25	L	JAMES ANDREW & KAREN RICHMOND	752	447
10*27022	5-27-26	M	COVESTRO, LLC	1046	431
10*15074	12-1-2	N	SCOTT E RALBUSKY	129A	212
10*15091	12-1-3	O	EDITH F & CHARLES D HARRISON	168A	863
10*23502	12-1-4	P	ROBERT F ROTHLSBERGER	210A	801
10*15075	12-1-5	Q	BARBARA P MAZER AS TRSTEE OF THE BARBARA MAZER TRST UNDER AGMT DTD APR 17 2013	129A	693
10*15076	12-1-5	Q	EDWARD PENNINGTON	130A	979
10*15079	12-1-5	Q	JAMES K. HALL	132A	704
10*18122	12-1-5	Q	ANNE L HALL AND RICHARD S WURST	187A	626
10*18175	12-1-5	Q	STONE HILL MINERALS HOLDINGS LLC	188A	791
10*18177	12-1-5	Q	STONE HILL MINERALS HOLDINGS LLC	188A	793
10*18233	12-1-5	Q	SUSAN G HALL	188A	429
10*18286	12-1-5	Q	ELIZABETH H HALL	188A	431
10*19511	12-1-7	R	CORT D ACKER	195A	168
10*24538	12-1-7	R	BRC MINERALS, LP	103A	320
10*18376	12-1-6	S	VICTORIA K MCCLINTOCK	189A	492
10*18377	12-1-6	S	TERRY W GILBERT	189A	494
10*18378	12-1-6	S	CARL J GILBERT SR AND LAURA A GILBERT	189A	496
10*18817	12-1-6	S	JUDITH R WHITE AND FRANKIE D WHITE	192A	518
10*19682	12-1-6	S	NEIL D PATTERSON JR & THERESA PATTERSON	195A	279
10*19998	12-1-6	S	MALISSA D PATTERSON AS AIF FOR CLARK ELWOOD PATTERSON	196A	577
10*24538	12-1-6	S	BRC MINERALS, LP	103A	320
10*22580	12-1-17	T	JAMES H PARSONS JR	209A	265
10*23524	12-1-17	T	HAMMETT LAND & MINERALS LLC SAMUEL C HAMMETT MANAGING MEMBER	210A	807
10*23525	12-1-17	T	HAMMETT LAND & MINERALS LLC SAMUEL C HAMMETT MANAGING MEMBER	210A	809
10*23906	12-1-17	T	JOHN M PARSONS & ANTOINETTE L COSTANTINO	214A	675
10*24090	12-1-17	T	VIVIAN A PARSONS	216A	371
10*24317	12-1-17	T	ROY C PARSONS	218a	480
10*25450	12-1-17	T	MURIEL A MILLER	222A	465
10*25644	12-1-17	T	JOHN P SNYDER	222A	434
10*26612	12-1-17	T	DOROTHY JOANNA SNYDER HAAS	224A	549



P.S. 708

David L Jackson



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Goudy 1S-17HU
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API # 47-051-02196

WELL PLAT
PAGE 3 OF 3
DATE: 03/15/2019
**REVISED DATE:
07/03/2019**