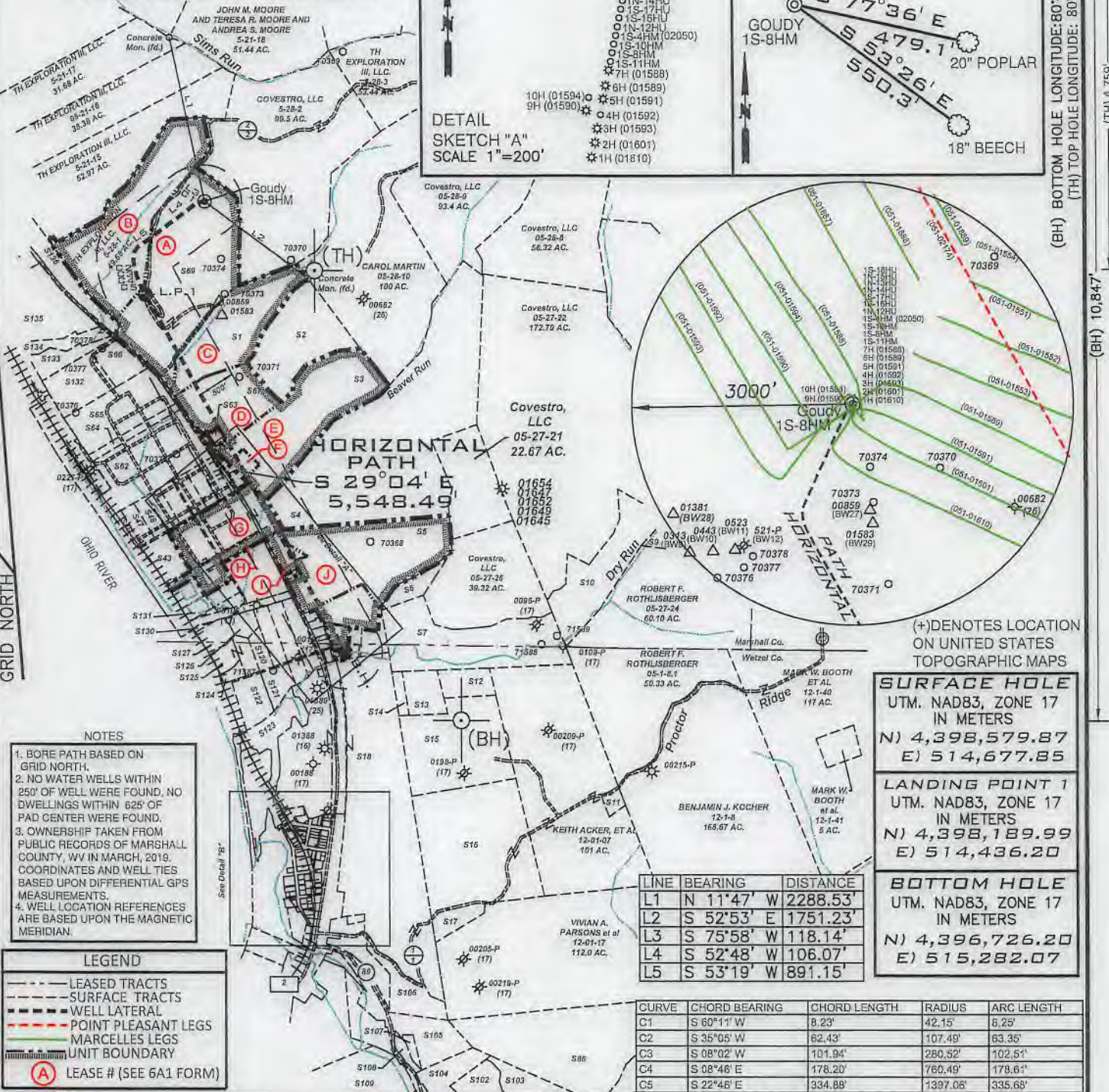
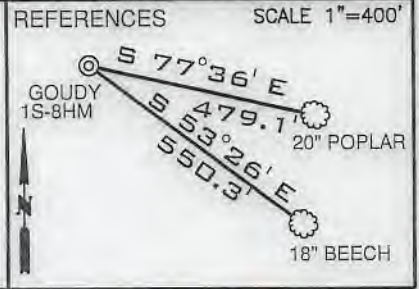
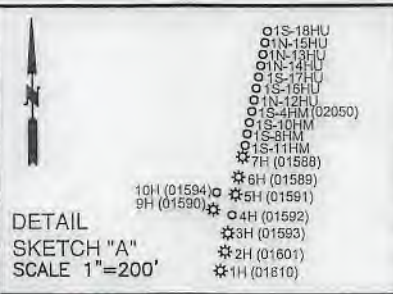


GOUDY LEASE WELL 1S-8HM 292.0837± ACRES

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



- 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, 2019. COORDINATES AND WELL TIES BASED UPON DIFFERENTIAL GPS MEASUREMENTS.
 - WELL LOCATION REFERENCES ARE BASED UPON THE MAGNETIC MERIDIAN.

LEGEND

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

LINE	BEARING	DISTANCE
L1	N 11°47' W	2288.53'
L2	S 52°53' E	1751.23'
L3	S 75°58' W	118.14'
L4	S 52°48' W	106.07'
L5	S 53°19' W	891.15'

CURVE	CHORD BEARING	CHORD LENGTH	RADIUS	ARC LENGTH
C1	S 60°11' W	8.23'	42.15'	8.25'
C2	S 35°05' W	82.43'	107.49'	63.35'
C3	S 08°02' W	101.94'	280.52'	102.51'
C4	S 08°46' E	178.20'	760.49'	178.61'
C5	S 22°46' E	334.88'	1337.06'	335.68'

(+) DENOTES LOCATION ON UNITED STATES TOPOGRAPHIC MAPS

SURFACE HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,579.87
E) 514,677.85

LANDING POINT 1
UTM. NAD83, ZONE 17
IN METERS
N) 4,398,189.99
E) 514,436.20

BOTTOM HOLE
UTM. NAD83, ZONE 17
IN METERS
N) 4,396,726.20
E) 515,282.07

FILE NUMBER _____

DRAWING NUMBER GOUDY_1S-8HM_REV2

SCALE 1" = 2000'

MINIMUM DEGREE OF ACCURACY 1/200

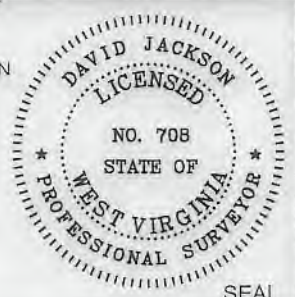
PROVEN SOURCE OF ELEVATION SUBMETER MAPPING
GRADE GPS

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



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

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

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 X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___
PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE (SPECIFY) _____

TARGET FORMATION MARCELLUS ESTIMATED DEPTH TVD 6,537' TMD: 12,505'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME
PERMIT

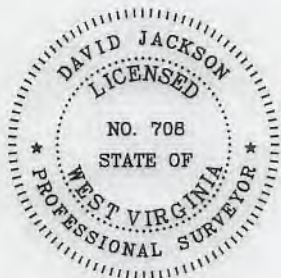
**GOUDY LEASE
WELL 1S-8HM
292.0837± ACRES**



Detail "A"



Detail "B"



P.S.
708

David L Jackson

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S1	C 05-28-12	TH Exploration III, LLC.	20.226
S2	05-28-11	Carol A. Martin	24.681
S3	E 05-27-19	Covestro, LLC	33.786
S4	05-27-20	Covestro, LLC	93.027
S5	J 05-27-20.1	Appalachian Power Co.	43.973
S6	05-27-27	James Andrew & Karen Lynne Richmond	8.9353
S7	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 Booth & Karrol S. Booth	50.0
S10	05-27-23	Robert F. Rothlisberger	35.77
S11	12-01-7.1	Harry Wayman Estate	2.0
S12	12-01-04	Robert F. Rothlisberger	6.0
S13	12-01-03	Charles D. & Edith Feenerty 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	12-23-15	Paul E. & Donna Jo Cain	0.7
S21	O 12-23-15.1	Robert F. Rothlisberger	0.47
S22	N 12-23-13	Paul E. & Donna Jo Cain	0.38
S23	M 05-27-27.2	Paul E. Cain, et ux	0.1767
S24	L 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	I 05-27-31.1	Covestro, LLC	3.0
S42	H 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	G 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	F 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	D 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.	70.0



**TUG HILL
OPERATING**

OPERATOR'S
WELL #: Goudy 1S-8HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API # 47-051-

WELL PLAT
PAGE 2 OF 3
DATE: 3/25/2019

**GOUDY LEASE
WELL 1S-8HM
292.0837± ACRES**

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S70	12-01-19	Steven J. & Susan L. Hafer	36.5
S71	12-01-31	Steven Jack & Susan Louise Hafer	20.0
S72	12-01-20	Charles E. Frohnapfel, Trustee of the Charles E. Frohnapfel Living Trust Dated October 3, 2017	126.0
S73	12-02-01	Nelson M. & Mary D. Miller	49.0
S74	12-01-34.1	Herbert Parsons & Virginia Yoho Roy	2.0
S75	12-01-34	John D. Amnah	38.0
S76	12-02-07	John D. Amnah	44.5
S77	12-06-52	John D. Amnah	6.46
S78	12-01-33	James & Charlene Lemley	1.06
S79	12-01-29	Baxter Farm, LLC	2.0
S80	12-06-26.3	Richard L. & Donna L. Erlewine	20.96
S81	12-06-26	Larry K. Keene	6.69
S82	12-06-24	Mark D. Baxter	84.92
S83	12-06-06	Baxter Farm, LLC	88.8
S84	12-01-32	Baxter Farm, LLC	78.74
S85	12-01-28	Steven J. & Susan L. Hafer	88.39
S86	12-01-18	Travis Darrell Blake & Angela Dawn Mitchell	48.4
S87	12-6A-11.2	Robert L. & Mary Ellen Stillwagoner	0.38
S88	12-06-18.1	Janice Haudenschilt	1.15
S89	12-06-18	Shelia Diane Gore	0.34
S90	12-6A-11.1	Robert L. & Mary Ellen Stillwagoner	0.66
S91	12-6A-11	Robert L. & Mary Ellen Stillwagoner	2.38
S92	12-6A-10	Jay Edward & Kathleen S. Smith	3.35
S93	12-6A-09	Joyce Kay Morris (L/E), Robert D. Jr. & Marsha J. Morris	3.52
S94	12-6A-08	Candis Darlene Clark	3.43
S95	12-6A-07	Janice Capoblanco	8.47
S96	12-6A-06	Ronald E. & Susan L. McCoy	2.09
S97	12-6A-03	Ronald E. & Susan L. McCoy	3.47
S98	12-6A-02	Ronald E. & Susan L. McCoy	3.49
S99	12-6A-01	Ronald E. & Susan L. McCoy	6.51
S100	12-06-05	Steven & Susan Louis Hafer	8.93
S101	12-06-04	Steven & Susan Hafer	6.2
S102	12-01-27	Steven J. & Susan Hafer	83.69
S103	12-01-26	Roland S. Fitzsimmons & William Joseph Blake	13.83
S104	12-01-25	Jack R. & Linda S. Blake	17.42
S105	12-01-15.3	Daniel L. & Vickie L. Williams	7.0
S106	12-01-1.1	W.V. D.O.H	10.59
S107	12-01-15.2	Michael Goddard	1.09
S108	12-01-15.1	Marshall & Tara Cecil (L/C), Roy Yoho	1.46

Number	TAX MAP -PARCEL	SURFACE OWNER	ACRES
S109	12-01-22	W.D. & R.A. Glover	18.84
S110	12-01-23.2	Sharon Maye McKinney	0.782
S111	12-01-23	Danny E. & Jill L. McKinney	1.55
S112	12-01-23.1	W.E & R.A. Glover	34.17
S113	12-01-25.1	Timothy Q. & Ronda K. Bohrer	1.2
S114	12-01-24	MitziLou Cecil, Trustee of the Tiger Cecil Irrevocable	0.85
S115	12-06-02	Brock T. Conner	23.83
S116	12-06-49	Kirkland Enterprises, LLC.	10.32
S117	12-06-51	Steven & Susan Hafer	0.599
S118	12-06-48	Ronald E. & Susan L. McCoy	0.36
S119 L	05-27-39	Covestro, LLC	3.74
S120	12-23-04	Pittsburgh Plate Glass Corp.	2.41
S121	12-23-09	Covestro, LLC	3.95
S122	12-23-08	Dora N. Moore Hrs., Et al	6.95
S123	12-01-1.5	United States of America	7.14
S124	12-23-02	Covestro, LLC	1.27
S125	12-23-03	Covestro, LLC	4.67
S126	12-27-38	Covestro, LLC	2.72
S127	12-27-37	Covestro, LLC	3.20
S128	12-27-35	Covestro, LLC	1.79
S129	12-27-34	Covestro, LLC	1.91
S130	12-27-36	Covestro, LLC	1.58
S131	12-27-33	Covestro, LLC	1.95
S132	05-28-13.2	Covestro, LLC	11.02
S133	05-28-1.1	Covestro, LLC	5.2217
S134	05-28-1.4	Covestro, LLC	11.69
S135	05-28-1.2	Covestro, LLC	21.62
S136	05-21-3.1	Eagle Natrum, LLC	98.61
S137	12-01-1.2	West Virginia Dept. of Transportation	0.27
S138	12-22-59	June M. Morris, Hrs.	2.00
S139	12-22-60	Franklin W. & Barabara J. Cogar	0.5
S140	12-22-09	M.B. Investment	0.20
S141	12-22-10	M.B. Investment	0.24
S142	12-22-12	Jack Ray & Linda S. Blake	0.16
S143	12-22-13	Dewayne E. & Patricia A. Yost	0.07
S144	12-22-28	June M. Morris, Hrs	0.12
S145	12-22-29	Jack R. & Linda S. Blake	0.50
S146	12-22-30	Jack R. & Linda S. Blake	0.24
S147	12-22-32	Ren Realty, LLC.	0.27
S148	12-22-33	Ren Realty, LLC.	0.08
S149	12-22-34	Ren Realty, LLC.	0.08
S150	12-22-51	Eric R. & Debra S. Sims	0.10
S151	12-22-52	Eric R. & Debra S. Sims	0.10
S152	12-22-53	Eric R. & Debra S. Sims	0.10
S153	12-22-54	Eric R. & Debra S. Sims	0.10
S154	12-22-55	Eric R. & Debra S. Sims	0.19
S155	12-22-56	Michael L. & Joyce D. Durig	0.22
S156	12-22-57	Michael L. & Joyce D. Durig	0.11
S157	12-22-58	Michael L. & Joyce D. Durig	0.15
S158	12-22-50	Michael L. & Joyce D. Durig	0.17
S159	12-22-49	Daniel J. Stillwagoner	0.13
S160	12-22-62	Virginia Bohrer, et al	0.05
S161	12-22-62.1	John R. & Toni Wright	0.314
S162	12-22-44	John R. & Toni Wright	0.52
S163	12-01-1.9	Grandview Doolin Public Service District	0.13
S164	12-22-27	Grandview Doolin Public Service District	0.27
S165	12-01-1.12	United States of America	22.55
S166	12-01-1.8	Grandview Doolin Public Service District	0.0895



P.S. 708 *David L Jackson*



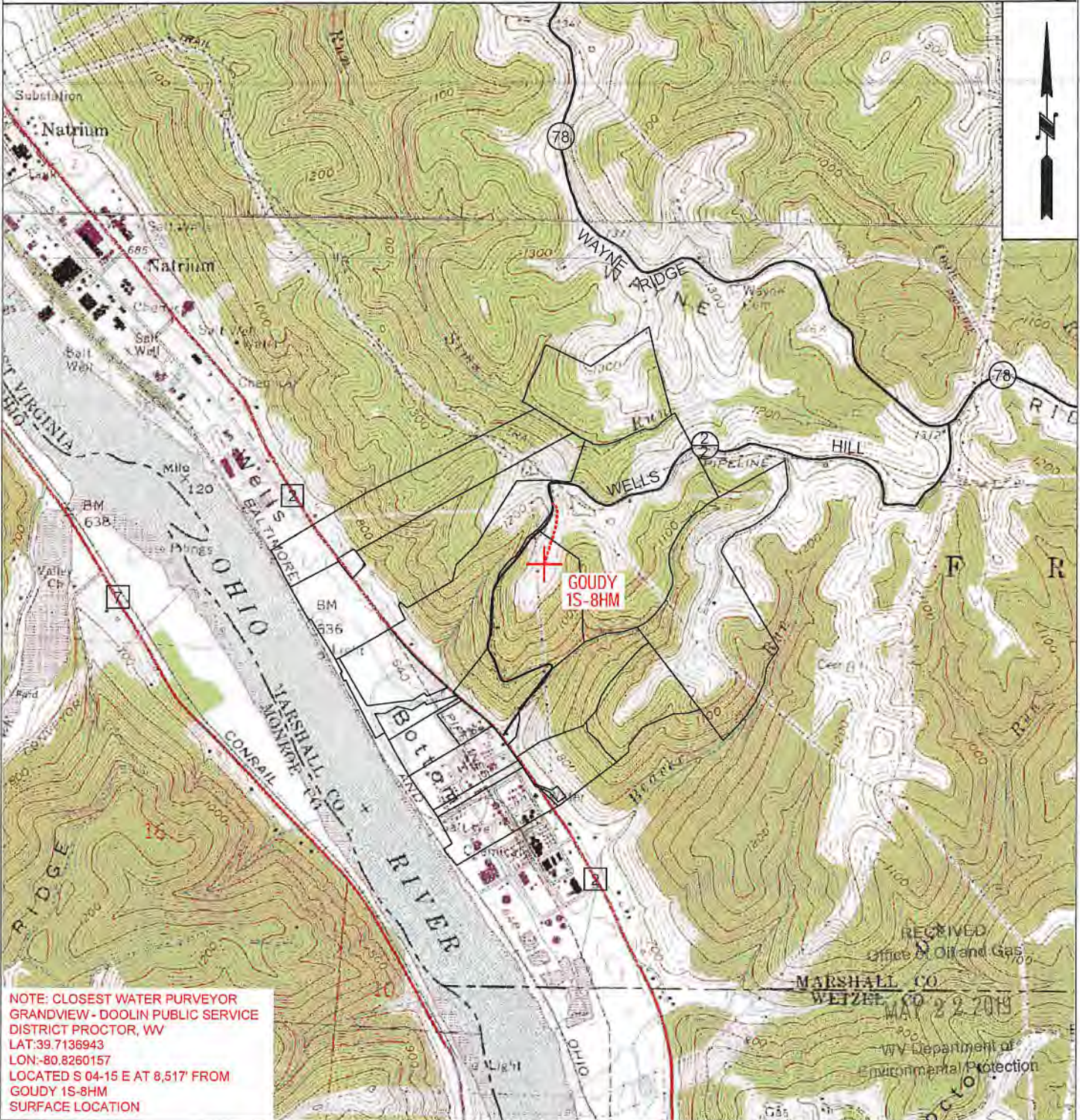
OPERATOR'S
WELL #: Goudy 1S-8HM
DISTRICT: Franklin
COUNTY: Marshall
STATE: WV
API # 47-051-

WELL PLAT
PAGE 3 OF 3
DATE: 3/25/2019

WW-9

PROPOSED GOUDY 1S-8HM

SUPPLEMENT PG 2



 TUG HILL OPERATING	OPERATOR 494510851 TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD SUITE 200 CANONSBURG, PA 15317	TOPO SECTION NEW MARTINSVILLE 7.5'	LEASE NAME GOUDY
	SCALE: 1" = 2000'	DATE: DATE: 03/25/2019	