

Well Operator's Report of Well Work



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JUL 16 2025

WV Department of
Environmental Protection

Well Number: Longworth A 103H (L028514)

API: 47 - 051 - 02520

Submission: ☐ Initial ☒ Amended

Notes: Updated with Stimulation Info.

WR-34 Attached.

01/23/2026

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

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WV Department of
Environmental Protection

API 47 - 051 - 02520 County Marshall District Clay
Quad Glen Easton Pad Name LONGWORTH A Field/Pool Name N/A
Farm name Graham H. Longworth Jr. Well Number Longworth A 103H (L028514)
Operator (as registered with the OOG) EQT Production Company
Address 400 Woodcliff Drive City Canonsburg State PA Zip 15317

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,410,857.504 Easting 523,372.246
Landing Point of Curve Northing 4,411,378.729 Easting 523,772.238
Bottom Hole Northing 4,412,523.251 Easting 522,840.469

Elevation (ft) 1270' GL Type of Well ☒ New ☐ Existing Type of Report ☐ Interim ☒ Final
Permit Type ☐ Deviated ☐ Horizontal ☒ Horizontal 6A ☒ Vertical Depth Type ☐ Deep ☒ Shallow
Type of Operation ☐ Convert ☐ Deepen ☒ Drill ☐ Plug Back ☐ Redrilling ☐ Rework ☒ Stimulate
Well Type ☐ Brine Disposal ☐ CBM ☒ Gas ☐ Oil ☐ Secondary Recovery ☐ Solution Mining ☐ Storage ☐ Other _____
Type of Completion ☒ Single ☐ Multiple Fluids Produced ☐ Brine ☒ Gas ☒ NGL ☐ Oil ☐ Other _____
Drilled with ☐ Cable ☒ Rotary

Drilling Media Surface hole ☒ Air ☐ Mud ☐ Fresh Water Intermediate hole ☒ Air ☐ Mud ☐ Fresh Water ☐ Brine
Production hole ☒ Air ☒ Mud ☐ Fresh Water ☐ Brine

Mud Type(s) and Additive(s)

Synthetic Oil Based Mud 13.55 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde/acrylonitrile, calcium hydroxide, partially hydrolyzed polyacrylamide/polycrylate, potassium chloride, sodium carbonate, ground walnut shells, alcohol and modified fatty acid, ferrochrome lignosulfonate, calcium carbonate, fibrous cellulose

Date permit issued 09/27/2024 Date drilling commenced 10/14/2024 Date drilling ceased 12/26/2024
Date completion activities began 03/21/2025 Date completion activities ceased 04/21/2025
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 84', 590' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 1734' Void(s) encountered (Y/N) depths _____
Coal depth(s) ft 571', 841' Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) Y

APPROVED

Reviewed by:

[Signature]
01/23/2026
7/29/2025

API 47-051 - 02520 Farm name Graham H. Longworth Jr. Well number Longworth A 103H (L028514)

CASING STRINGS	Hole Size	Casing Size	Depth (GL)	New or Used	Grade wt/ft	Basket Depth(s) (GL)	Did cement circulate (Y/ N) * Provide details below*
Conductor	30"	26"	40'	NEW	A-500 85.6#	N/A	Y
Surface	17-1/2"	13-3/8"	1242'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2229'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5.5"	12,183'	NEW	HP-P110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details

Production cmt has calculated TOC of 1195'GL, which is greater than 500'TVD above the producing formation. No issues

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (GL)	WOC (hrs)
Conductor	CLASS A	83	15.6	1.18	98	0	8+
Surface	CLASS L	1130	16	1.08	1220	0	8
Coal							
Intermediate 1	CLASS L	800	15.6	1.13	904	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2230	15.0	1.19	2654	1195'	8+
Tubing							

Drillers TD (ft) 12,204'

Loggers TD (ft) N/A

Deepest formation penetrated MARCELLUS

Plug back to (ft) N/A

Plug back procedure N/A

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Kick off depth (ft) 2347'

Check all wireline logs run

☐ caliper ☐ density ☒ deviated/directional ☐ induction
☐ neutron ☐ resistivity ☒ gamma ray ☐ temperature ☐ sonic

Well cored ☐ Yes ☒ No ☐ Conventional ☐ Sidewall

Were cuttings collected ☐ Yes ☒ No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING

CONDUCTOR- NONE

SURFACE- ON SHOE TRACK AND EVERY 500' TO SURFACE

INTERMEDIATE: ON SHOE TRACK AND EVERY 500' FEET TO SURFACE

PRODUCTION: ON SHOE TRACK, EVERY JOINT TO 6392', EVERY OTHER JOINT TO 97'

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ☒ No DETAILS

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ☒ No DETAILS

WERE TRACERS USED ☐ Yes ☒ No TYPE OF TRACER(S) USED

01/23/2026

API 47- 051 - 02520

Farm name Graham H. Longworth Jr.

Well number Longworth A 103H (L028514)

PERFORATION RECORD

[illegible]

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

[illegible]

Please insert additional pages as applicable.

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Well number Longworth A 103H (L028514)

DEPTHS

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OIL TEST ☐ Flow ☐ Pump

OPEN FLOW	Gas	Oil	NGL	Water	GAS MEASURED BY
	2332 mcfpd	0 bpd	306 bpd	221 bpd	☐ Estimated ☒ Orifice ☐ Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	

[illegible]

Attach copy of FRACFOCUS Registry

01/23/2026

API 47- 051 - 02520 Farm name Graham H. Longworth Jr. Well number Longworth A 103H (L028514)

Drilling Contractor Falcon (Rig 25)
Address 1120 US-119 City Indiana State PA Zip 15701

Logging Company GyroData
Address 73 Nobletown Road City Carnegie State PA Zip 15106

Logging Company Scientific Drilling International, Inc
Address 3475 Washington Ave City Finleyville State PA Zip 15332

Cementing Company _____
Address _____ City _____ State _____ Zip _____

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Well # LONGWORTH 103H Final Formations API# 47-051-02520				
Formation Name	Drill Top MD (ftGRD)	Drill Top (TVD) (ftGRD)	Drill Btm MD (ftGRD)	Drill Btm (TVD) (ftGRD)
Sand/Shale	1	1	571	571
Waynesburg Coal	571	571	571	571
Sand/Shale	571	571	841	841
Pittsburgh Coal	841	841	849	849
Sand/Shale	849	849	1,868	1,867
Big Lime	1,868	1,867	2,096	2,094
Big Injun	2,096	2,094	2,178	2,176
Sand/Shale	2,178	2,176	2,815	2,808
Gantz	2,815	2,808	2,876	2,867
Gordon	2,876	2,867	2,956	2,944
50F	2,956	2,944	3,005	2,990
Sand/Shale	3,005	2,990	3,084	3,063
Bayard	3,084	3,063	3,449	3,385
Sand/Shale	3,449	3,385	5,251	4,948
Alexander	5,251	4,948	5,688	5,325
Elks	5,688	5,325	6,702	6,203
Sonyea	6,702	6,203	6,811	6,286
Middlesex	6,811	6,286	6,848	6,311
Genesee	6,848	6,311	6,927	6,363
Geneseo	6,927	6,363	6,969	6,387
Tully	6,969	6,387	7,045	6,426
Hamilton	7,045	6,426	7,260	6,493
Marcellus	7,260	6,493	12,204	6,525

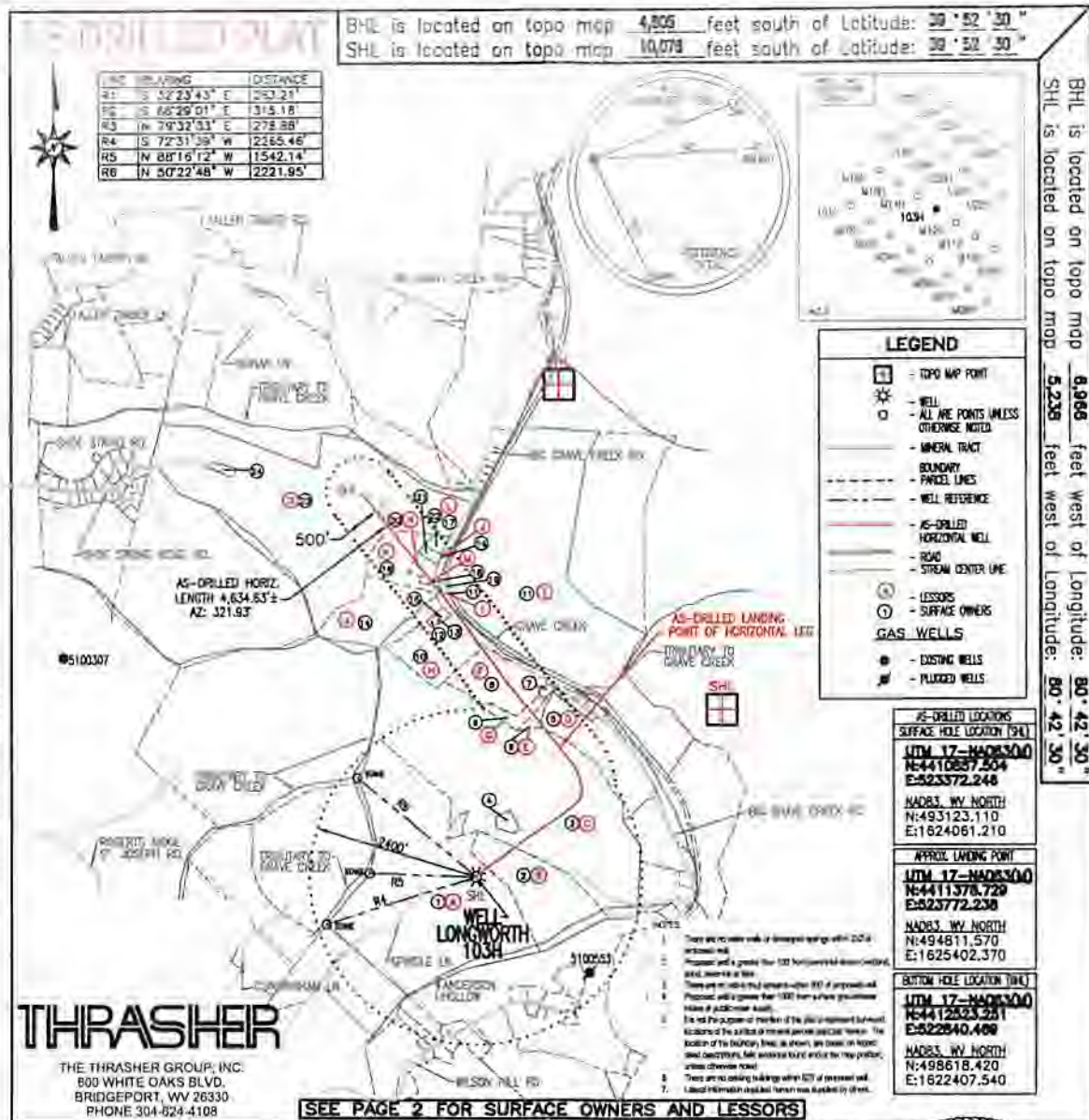
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FILE #: LONGWORTH 103H - AS-DRILLED
DRAWING #: LONGWORTH 103H-AS-DRILLED
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *Joseph H. Lowther*
R.P.E.: _____ L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 5TH STREET
CHARLESTON, WV 25304

DATE: JANUARY 22, 2025
OPERATOR'S WELL #: LONGWORTH 103H-AS-DRILLED
API WELL #: 47 51 02520
STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep ☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow
WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1270.00'
COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'
SURFACE OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 123.589±
OIL & GAS ROYALTY OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 238.747±
DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐
PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☒
(SPECIFY): AS-DRILLED PLAT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,553'± TMD: 12,232'±
WELL OPERATOR: EGT CHAP LLC DESIGNATED AGENT: JOSEPH C. MALLOW
Address: 400 WOODCLIFF DRIVE Address: 427 MIDSTATE DRIVE
City: CAMONSBURG State: PA Zip Code: 15317 City: CLARKSBURG State: WV Zip Code: 26301

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LONGWORTH 103H PAGE 2 OF 2 AS-DRILLED

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	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	GRAHAM H. LONGWORTH JR. ET AL	4-11/2
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
C	GRAHAM H. LONGWORTH JR. ET AL	4-12/16
	SHERI L. EVRAETS FAMILY TRUST	
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
D	JAMES W. MORRISON, ET UX.	4-12/14
E	MICHAEL A. JOBES ET UX	4-12/13
F	MICHAEL JOBES ET UX	4-12/12
G	MICHAEL JOBES ET UX	4-12/12.2
H	DIOCESE OF WHEELING - CHARLESTON	4-12/10.2
	SUSAN MARKLEY ZIDAR, ET VIR.	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE, ET UX.	
I	DIOCESE OF WHEELING - CHARLESTON	4-10/1
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	

	LESSOR	DIST-TM/PAR
J	DIOCESE OF WHEELING - CHARLESTON	4-12/10
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
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	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
K	DIOCESE OF WHEELING - CHARLESTON	4-12/10.3
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
L	ROBERT D. RICHMOND, ET UX.	4-12/5
M	DIOCESE OF WHEELING - CHARLESTON	4-12/10.4
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
N	DIOCESE OF WHEELING - CHARLESTON	4-12/9
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
O	JMK IREV TRST	4-12/3
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRINRS LTD	

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	GRAHAM H. LONGWORTH JR.	4-11/2
3	DANIEL C. LONGWORTH	4-12/16
4	DANIEL C. SR. AND JEANNETTE L. LONGWORTH	4-12/16.1
5	JAMES W. MORRISON, ET UX.	4-12/14
6	KEVIN HAUGHT	4-12/13
7	KEVIN HAUGHT	4-12/12.1
8	KEVIN HAUGHT	4-12/12
9	KEVIN HAUGHT	4-12/12.2
10	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/10.2
11	CITY OF MOUNDSVILLE	4-10/1
12	THOMAS L. AND CLARA J. HAUGHT	4-12/6
13	THOMAS L. AND CLARA J. HAUGHT	4-12/11
14	THOMAS HAUGHT ET AL	4-12/10
15	THOMAS L. & CLARA J. HAUGHT	4-12/10.1
16	CLIFFORD A. & JOY M. WHITE	4-12/10.3
17	ROBERT D. & VIRGINIA RICHMOND	4-12/5
18	CLIFFORD A. & JOY M. WHITE	4-12/10.4
19	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-12/25
20	THOMAS L. & CLARA J. HAUGHT	4-12/9
21	THOMAS L. & CLARA J. HAUGHT	4-12/8
22	THOMAS L. & CLARA J. HAUGHT	4-12/7
23	MORIE CHAPLIN ET UX	4-12/3
24	MORIE R. & JEAN E. CHAPLIN	4-12/3.1

AS-DRILLED LOCATIONS
SURFACE HOLE LOCATION (SH)
UTM 17-NAD83/00
N=4410667.804
E=523372.248
NAD83, WV NORTH
N:493123.110
E:1624061.210

APPROX. LIVING POINT
UTM 17-NAD83/00
N=4411378.729
E=523772.238
NAD83, WV NORTH
N:494811.570
E:1625402.370

BOTTOM HOLE LOCATION (BH)
UTM 17-NAD83/00
N=4412523.787
E=522838.074
NAD83, WV NORTH
N:458620.310
E:1622399.710

THRASHER

JANUARY 22, 2025

2 THRASHER GROUP, INC.
300 WEST 10TH ST
CHESAPEAKE, VA 26030
PHONE 304-534-1123

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Perforation Data

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Stage No.	Perforation Date	Stage Perforated From TMD Ft.	Stage Perforated To TMD Ft.	# of Perforations/Stage	Formation(s)
2	03/21/2025	12087	11937	36	Marcellus
3	03/21/2025	11908	11759	36	Marcellus
4	03/22/2025	11730	11580	36	Marcellus
5	03/22/2025	11551	11402	36	Marcellus
6	03/23/2025	11373	11223	36	Marcellus
7	03/23/2025	11194	11045	36	Marcellus
8	03/23/2025	11016	10866	36	Marcellus
9	03/24/2025	10837	10688	36	Marcellus
10	03/24/2025	10659	10509	36	Marcellus
11	03/25/2025	10480	10331	36	Marcellus
12	03/25/2025	10302	10152	36	Marcellus
13	03/26/2025	10123	9974	36	Marcellus
14	03/26/2025	9945	9795	36	Marcellus
15	03/27/2025	9766	9617	36	Marcellus
16	03/27/2025	9588	9438	36	Marcellus
17	03/28/2025	9409	9260	36	Marcellus
18	03/28/2025	9231	9081	36	Marcellus
19	04/04/2025	9052	8903	36	Marcellus
20	04/04/2025	8874	8724	36	Marcellus
21	04/04/2025	8695	8546	36	Marcellus
22	04/05/2025	8517	8367	36	Marcellus
23	04/05/2025	8338	8189	36	Marcellus
24	04/05/2025	8160	8010	36	Marcellus
25	04/05/2025	7981	7832	36	Marcellus
26	04/05/2025	7803	7653	36	Marcellus
27	04/06/2025	7624	7475	36	Marcellus
28	04/06/2025	7446	7326	30	Marcellus

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Stimulation Data

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Stage #	Stimulation Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	03/21/2025	89	8967	9063	4054	175782	3585	
2	03/21/2025	100	8412	6168	4547	450225	8820	
3	03/22/2025	100	8280	6599	4456	448575	8717	
4	03/22/2025	99	8433	6388	4491	450170	8714	
5	03/23/2025	101	8300	5873	4665	450083	8734	
6	03/23/2025	100	8202	6206	4308	449569	8677	
7	03/23/2025	99	8371	6171	4346	450076	8695	
8	03/24/2025	100	8185	5971	4409	450641	8721	
9	03/24/2025	100	8212	5880	4369	448971	8618	
10	03/25/2025	99	8451	6111	4351	449309	8656	
11	03/25/2025	95	8257	5931	3926	450152	8591	
12	03/26/2025	97	8734	5984	4182	449710	8669	
13	03/26/2025	98	8553	5997	4242	450103	8555	
14	03/27/2025	96	8569	6325	4764	450028	8628	
15	03/27/2025	98	8432	5913	4625	449921	8512	
16	03/28/2025	98	8647	5871	4396	450781	8519	
17	03/28/2025	96	8507	6131	4667	450015	8486	
18	04/04/2025	89	8816	6144	4876	450061	8622	
19	04/04/2025	95	8766	5955	4631	450111	8722	
20	04/04/2025	99	8049	5929	4662	450924	8669	
21	04/05/2025	98	8362	5756	4670	450098	8604	
22	04/05/2025	98	8065	6118	4449	450361	8502	
23	04/05/2025	99	8286	6156	4517	450064	8623	
24	04/05/2025	99	8368	6139	4837	450010	8608	
25	04/05/2025	98	8110	2823	4760	449968	8498	
26	04/06/2025	99	8179	5867	4284	450117	8493	
27	04/06/2025	97	8197	5963	4460	450115	8497	
28	04/06/2025	97	8151	6130	4649	375423	7389	

01/23/2026

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	03/21/2025
Job End Date:	04/21/2025
State:	West Virginia
County:	Marshall
API Number:	47-051-02520-00-00
Operator Name:	EQT Production
Well Name and Number:	Longworth A 103H
Latitude:	39.847413
Longitude:	-80.726798
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6553
Total Base Water Volume (gal)*:	9875208.12919556
Total Base Non Water Volume:	0



Water Source	Percent
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Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	EQT	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	86.96402	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.92860	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00879	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.00769	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.00769	None

01/23/2026

Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00145	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00108	None
Clearal 268	ChemStream	Biocide					
			Glutaraldehyde	111-30-8	20.00000	0.00055	None
Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Amine-00001	Proprietary	10.00000	0.00036	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00012	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00002	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Ethanol	64-17-5	1.50000	0.00000	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/Maleic Anhydride Co- polymer	9003-04-7	1.00000	0.00000	None

Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided.

Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

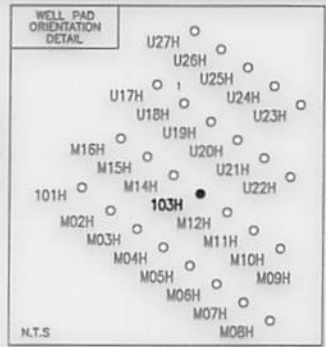
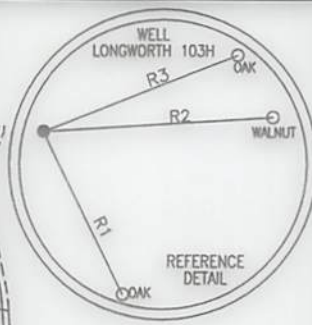
RECEIVED
Office of Oil and Gas
JUL 16 2025
U.S. Department of
Environmental Protection

01/23/2026

AS-DRILLED PLAT

BHL is located on topo map 4,605 feet south of Latitude: 39° 52' 30"
 SHL is located on topo map 10,076 feet south of Latitude: 39° 52' 30"

LINE	BEARING	DISTANCE
R1	S 32°23'43" E	263.21'
R2	S 86°29'01" E	315.18'
R3	N 79°32'33" E	278.88'
R4	S 72°31'39" W	2265.46'
R5	N 88°16'12" W	1542.14'
R6	N 50°22'48" W	2221.95'



LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT
- BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- AS-DRILLED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS
- EXISTING WELLS
- PLUGGED WELLS

AS-DRILLED LOCATIONS
SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4410857.504
 E:523372.246
 NAD83, WV NORTH
 N:493123.110
 E:1624061.210

APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4411378.729
 E:523772.238
 NAD83, WV NORTH
 N:494811.570
 E:1625402.370

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4412523.251
 E:522840.469
 NAD83, WV NORTH
 N:498618.420
 E:1622407.540

THRASHER

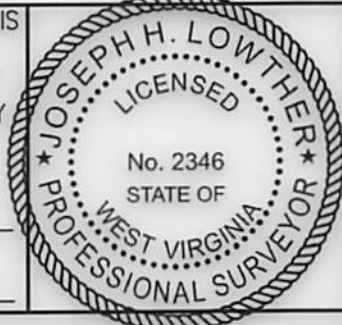
THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-624-4108

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: LONGWORTH 103H - AS-DRILLED
 DRAWING #: LONGWORTH 103H-AS-DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed:
 R.P.E.: _____ L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: JANUARY 22, 2025
 OPERATOR'S WELL #: LONGWORTH 103H-AS-DRILLED
 API WELL #: 47 51 02520
 STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep ☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1270.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 123.589±
 OIL & GAS ROYALTY OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 298.747±

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐
 PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☒

(SPECIFY): AS-DRILLED PLAT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,553'± TMD: 12,232'±

WELL OPERATOR: EQT CHAP LLC DESIGNATED AGENT: JOSEPH C. MALLOW
 Address: 400 WOODCLIFF DRIVE Address: 427 MIDSTATE DRIVE
 City: CANONSBURG State: PA Zip Code: 15317 City: CLARKSBURG State: WV Zip Code: 26301

01/23/2026

LONGWORTH

103H

PAGE 2 OF 2

AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	GRAHAM H. LONGWORTH JR. ET AL	4-11/2
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
C	GRAHAM H. LONGWORTH JR. ET AL	4-12/16
	SHERI L. EVRAETS FAMILY TRUST	
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
D	JAMES W. MORRISON, ET UX.	4-12/14
E	MICHAEL A. JOBES ET UX	4-12/13
F	MICHAEL JOBES ET UX	4-12/12
G	MICHAEL JOBES ET UX	4-12/12.2
H	DIOCESE OF WHEELING - CHARLESTON	4-12/10.2
	SUSAN MARKLEY ZIDAR, ET VIR.	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE, ET UX.	
I	DIOCESE OF WHEELING - CHARLESTON	4-10/1
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
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	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	

	LESSOR	DIST-TM/PAR
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K	DIOCESE OF WHEELING - CHARLESTON	4-12/10.3
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
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	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
L	ROBERT D. RICHMOND, ET UX.	4-12/5
M	DIOCESE OF WHEELING - CHARLESTON	4-12/10.4
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
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N	DIOCESE OF WHEELING - CHARLESTON	4-12/9
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	MICHAEL D. WUERTHELE	
O	JMK IREV TRST	4-12/3
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRTRNS LTD	

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19	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-12/25
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22	THOMAS L. & CLARA J. HAUGHT	4-12/7
23	MERLE CHAPLIN ET UX	4-12/3
24	MERLE R. & JEAN E. CHAPLIN	4-12/3.1

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N:4410857.504	
E:523372.248	
NAD83, WV NORTH	
N:493123.110	
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APPROX. LANDING POINT	
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E:1625402.370	
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E:522838.074	
NAD83, WV NORTH	
N:498620.310	
E:1622399.710	

01/23/2026

THRASHER

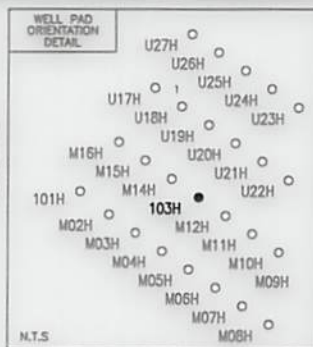
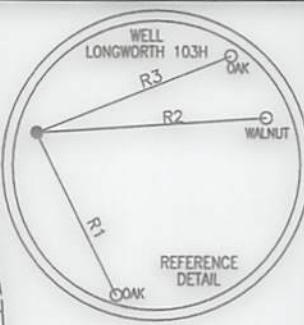
THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

JANUARY 22, 2025

AS-DRILLED PLAT

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SHL is located on topo map 10,076 feet south of Latitude: 39° 52' 30"

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UTM 17-NAD83(M)
N:4412523.251
E:522840.469

NAD83, WV NORTH
N:498618.420
E:1622407.540

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
 - There are no existing buildings within 625' of proposed well.
 - Lateral information depicted hereon was supplied by others.

THRASHER

THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

FILE #: LONGWORTH 103H - AS-DRILLED

DRAWING #: LONGWORTH 103H-AS-DRILLED

SCALE: 1" = 2000'

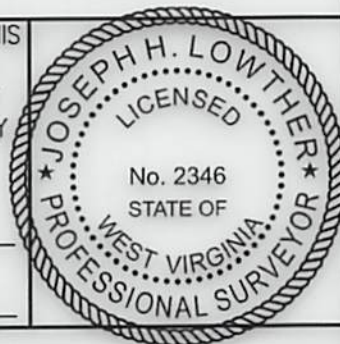
MINIMUM DEGREE
OF ACCURACY: 1/2500

PROVEN SOURCE
OF ELEVATION: U.S.G.S. MONUMENT
THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY
THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed:

R.P.E.: L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON
UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304



DATE: JANUARY 20, 2024
OPERATOR'S WELL #: LONGWORTH 103H-AS-DRILLED
API WELL #: 47 51 02520
STATE COUNTY PERMIT

Well Type: ☐ Oil ☐ Waste Disposal ☒ Production ☐ Deep ☒ Gas ☐ Liquid Injection ☐ Storage ☒ Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1270.00'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 123.589±

OIL & GAS ROYALTY OWNER: GRAHAM H. LONGWORTH JR. ACREAGE: 298.747±

DRILL ☒ CONVERT ☐ DRILL DEEPER ☐ REDRILL ☐ FRACTURE OR STIMULATE ☒ PLUG OFF OLD FORMATION ☐
PERFORATE NEW FORMATION ☐ PLUG & ABANDON ☐ CLEAN OUT & REPLUG ☐ OTHER CHANGE ☒

(SPECIFY): AS-DRILLED PLAT

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,550'± TMD: 12,232'±

WELL OPERATOR: EQT CHAP LLC DESIGNATED AGENT: JOSEPH C. MALLOW

Address: 400 WOODCLIFF DRIVE Address: 427 MIDSTATE DRIVE

City: CANONSBURG State: PA Zip Code: 15317 City: CLARKSBURG State: WV Zip Code: 26301

As Drilled

LONGWORTH 103H PAGE 2 OF 2 AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	GRAHAM H. LONGWORTH JR. ET AL	4-11/2
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
	MARK FRIESE	
	ANTHONY FRIESE	
	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
C	GRAHAM H. LONGWORTH JR. ET AL	4-12/16
	SHERI L. EVRAETS FAMILY TRUST	
	LISA NICEWARNER	
	JULIA RODGERS	
	KEITH FRIESE	
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	JAMES FRIESE	
	HENRY FRIESE	
	STEVEN FRIESE	
D	JAMES W. MORRISON, ET UX.	4-12/14
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F	MICHAEL JOBES ET UX	4-12/12
G	MICHAEL JOBES ET UX	4-12/12.2
H	DIOCESE OF WHEELING - CHARLESTON	4-12/10.2
	SUSAN MARKLEY ZIDAR, ET VIR.	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFERY A. WUERTHELE	
	MICHAEL D. WUERTHELE, ET UX.	
I	DIOCESE OF WHEELING - CHARLESTON	4-10/1
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
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	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	

	LESSOR	DIST-TM/PAR
J	DIOCESE OF WHEELING - CHARLESTON	4-12/10
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
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	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
K	DIOCESE OF WHEELING - CHARLESTON	4-12/10.3
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
L	ROBERT D. RICHMOND, ET UX.	4-12/5
M	DIOCESE OF WHEELING - CHARLESTON	4-12/10.4
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
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	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
N	DIOCESE OF WHEELING - CHARLESTON	4-12/9
	SUSAN MARKLEY ZIDAR, ET VIR	
	LAUREN M. TEKELY IRREVOCABLE TRUST	
	MARY ANN BAKER	
	RALPH ULMAN AND MARY K. ULMAN TRUST	
	SISTERS OF ST FRANCIS PROV OF GOD	
	ROBERT S. WUERTHELE	
	MARK K. WUERTHELE	
	JEFFREY A. WUERTHELE	
	MICHAEL D. WUERTHELE	
O	JMK IREV TRST	4-12/3
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRTNRS LTD	

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7	KEVIN HAUGHT	4-12/12.1
8	KEVIN HAUGHT	4-12/12
9	KEVIN HAUGHT	4-12/12.2
10	THOMAS L. AND CLARA J. HAUGHT-LIFE	4-12/10.2
11	CITY OF MOUNDSVILLE	4-10/1
12	THOMAS L. AND CLARA J. HAUGHT	4-12/6
13	THOMAS L. AND CLARA J. HAUGHT	4-12/11
14	THOMAS HAUGHT ET AL	4-12/10
15	THOMAS L. & CLARA J. HAUGHT	4-12/10.1
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N:494811.570
E:1625402.370
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4412523.787
E:522838.074
NAD83, WV NORTH
N:498620.310
E:1622399.710

01/23/2026

THRASHER

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