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WV Department of
Environmental Protection

Well Operator's Report of Well Work



Well Number: Longworth A 101H (L028515)

API: 47 - 051 - 02519

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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API 47 - 051 - 02519 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 101H (L028515)
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 4,410,860.031 Easting 523,368.437
Landing Point of Curve Northing 4,411,426.596 Easting 523,729.494
Bottom Hole Northing 4,4412,007.948 Easting 521,854.063

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 13.62 ppg barium sulfate, sodium chloride, xanthan gum, polyanionic cellulose, modified starch, sodium hydroxide, phosphonates and alkyl phosphates, glutaraldehyde solution, calcium hydroxide, partially hydrolyzed polyacrylamide/polyacrylate, 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 12/22/2024
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 N
Salt water depth(s) ft 1734' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 571', 841' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Y

Reviewed by:


01/23/2026

API 47-051 - 02519 Farm name Graham H. Longworth Jr. Well number Longworth A 101H (L028515)

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"	1246'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2225'	NEW	J-55 36#	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4", 8-1/2"	5.5"	13,227'	NEW	HP-P110 20#	N/A	N
Tubing							
Packer type and depth set							

Comment Details

Production cmt has calculated TOC of 1084'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	1135	16	1.08	1226	0	8
Coal							
Intermediate 1	CLASS L	850	15.6	1.13	960	0	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2445	15.0	1.19	2909	1084'	8+
Tubing							

Drillers TD (ft) 13,246'

Loggers TD (ft) N/A

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Deepest formation penetrated MARCELLUS

Plug back to (ft) N/A

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Plug back procedure N/A

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Kick off depth (ft) 1261'

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 5833', EVERY OTHER JOINT TO 91'

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 - 02519

Farm name Graham H. Longworth Jr.

Well number Longworth A 101H (L028515)

PERFORATION RECORD

[illegible]

Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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Complete a separate record for each stimulation stage.

[illegible]

Please insert additional pages as applicable.

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Well number Longworth A 101H (L028515)

MD

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[illegible]

01/23/2026

API 47- 051 - 02519 Farm name Graham H. Longworth Jr. Well number Longworth A 101H (L028515)

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

Logging Company GyroData
Address 73 Noblestown 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 101H Final Formations API# 47-051-02519				
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	2,812
Gantz	2,815	2,812	2,876	2,873
Gordon	2,876	2,873	2,956	2,952
50F	2,956	2,952	3,005	3,001
Sand/Shale	3,005	3,001	3,084	3,080
Bayard	3,084	3,080	3,449	3,444
Sand/Shale	3,449	3,444	5,251	5,071
Alexander	5,251	5,071	5,688	5,445
Elks	5,688	5,445	6,556	6,197
Sonyea	6,556	6,197	6,668	6,282
Middlesex	6,668	6,282	6,705	6,308
Genesee	6,705	6,308	6,788	6,361
Geneseo	6,788	6,361	6,830	6,385
Tully	6,830	6,385	6,919	6,429
Hamilton	6,919	6,429	7,087	6,488
Marcellus	7,087	6,488	13,246	6,521

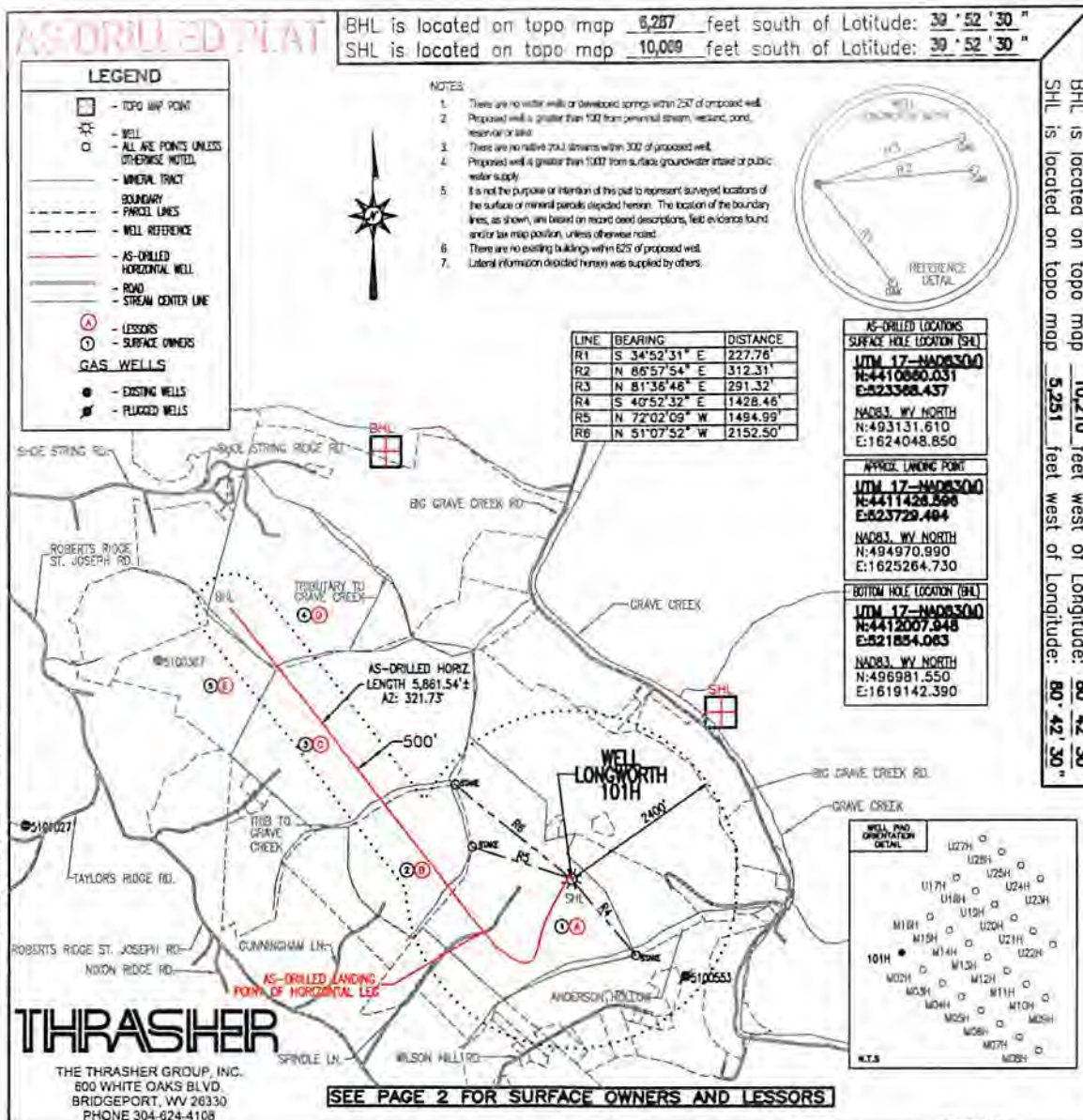
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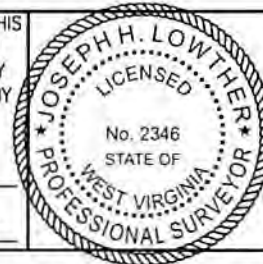
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FILE #: LONGWORTH 101H-AS-DRILLED
DRAWING #: LONGWORTH 101H-AS-DRILLED
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 57TH STREET
CHARLESTON, WV 25304



DATE: JANUARY 22, 2025
OPERATOR'S WELL #: LONGWORTH 101H-AS-DRILLED
API WELL #: 47 51 02519
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: 6,549'± TMD: 13,274'±
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 101H PAGE 2 OF 2 AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	DALE CUNNINGHAM ET UX	4-13/33
C	BRETT A. ANDREWS ET UX	4-12/19
D	JMK IREV TRST	4-12/4
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRTRNS LTD	
E	JMK IREV TRST	4-12/21

	SURFACE OWNER	DIST-TM/PAR
1	GRAHAM H. LONGWORTH JR.	4-11/1
2	DALE & MARY CUNNINGHAM	4-13/33
3	CODY M. JARRETT	4-12/19
4	MERLE L. CHAPLIN ET UX	4-12/4
5	RALPH E. WOOD	4-12/21

AS-DRILLED LOCATIONS
SURFACE HOLE LOCATION (SH)
UTM 17-NAD8300 N:4410880.031 E:523368.437
NAD83, WV NORTH N:493131.610 E:1624048.850

APPROX. LANDING POINT
UTM 17-NAD8300 N:4411428.598 E:523729.494
NAD83, WV NORTH N:494970.990 E:1625264.730

BOTTOM HOLE LOCATION (BH)
UTM 17-NAD8300 N:4412007.948 E:521854.083
NAD83, WV NORTH N:496981.550 E:1619142.390

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JANUARY 22, 2025

THRASHER

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

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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	13130	12981	36	Marcellus
3	03/21/2025	12953	12804	36	Marcellus
4	03/22/2025	12775	12626	36	Marcellus
5	03/22/2025	12597	12448	36	Marcellus
6	03/22/2025	12420	12271	36	Marcellus
7	03/23/2025	12242	12093	36	Marcellus
8	03/23/2025	12065	11916	36	Marcellus
9	03/23/2025	11887	11738	36	Marcellus
10	03/24/2025	11709	11560	36	Marcellus
11	03/24/2025	11532	11383	36	Marcellus
12	03/25/2025	11354	11205	36	Marcellus
13	03/25/2025	11177	11028	36	Marcellus
14	03/25/2025	10999	10850	36	Marcellus
15	03/26/2025	10821	10672	36	Marcellus
16	03/27/2025	10644	10495	36	Marcellus
17	03/27/2025	10466	10317	36	Marcellus
18	03/28/2025	10289	10140	36	Marcellus
19	03/28/2025	10111	9962	36	Marcellus
20	03/29/2025	9933	9784	36	Marcellus
21	03/29/2025	9756	9607	36	Marcellus
22	03/29/2025	9578	9429	36	Marcellus
23	03/30/2025	9401	9252	36	Marcellus
24	03/30/2025	9223	9074	36	Marcellus
25	03/30/2025	9045	8896	36	Marcellus
26	03/31/2025	8868	8719	36	Marcellus
27	03/31/2025	8690	8541	36	Marcellus
28	04/01/2025	8513	8364	36	Marcellus
29	04/01/2025	8335	8186	36	Marcellus
30	04/02/2025	8157	8008	36	Marcellus
31	04/02/2025	7980	7831	36	Marcellus
32	04/02/2025	7802	7653	36	Marcellus
33	04/03/2025	7625	7476	36	Marcellus
34	04/03/2025	7447	7298	36	Marcellus
35	04/03/2025	7269	7120	36	Marcellus

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Stimulation Data

01/23/2026

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	96	8203	9312	3678	175134	4176.000	
2	03/21/2025	100	7723	5973	4469	450280	8634.000	
3	03/22/2025	100	8187	6345	4622	450207	8540.000	
4	03/22/2025	100	8243	6270	4781	450589	8715.000	
5	03/22/2025	100	8122	6234	4785	450614	8685.000	
6	03/23/2025	100	8263	6275	4886	450303	8676.000	
7	03/23/2025	100	8086	4698	4843	451085	8696.001	
8	03/23/2025	100	8340	6165	4629	451031	8633.000	
9	03/23/2025	100	8196	6493	4671	450065	8661.000	
10	03/24/2025	100	8167	6241	4622	450503	8723.000	
11	03/25/2025	100	7864	6289	4599	450494	8677.000	
12	03/25/2025	100	8371	6190	4593	450795	8631.000	
13	03/25/2025	100	7975	4494	4865	450548	8577.000	
14	03/26/2025	101	8378	6236	4784	450746	8645.000	
15	03/27/2025	101	8158	5592	4901	450002	8558.000	
16	03/27/2025	96	8469	5924	4747	450073	8567.000	
17	03/28/2025	96	8017	5596	4299	450087	8697.000	
18	03/28/2025	99	8478	5794	4660	450439	8639.000	
19	03/29/2025	98	8240	5648	4923	450080	8532.000	
20	03/29/2025	98	8153	5834	4749	450119	8525.000	
21	03/29/2025	98	8197	5981	4793	450116	8722.000	
22	03/30/2025	101	8175	6173	4725	449863	8583.000	
23	03/30/2025	98	7946	5848	4904	450381	8519.000	
24	03/30/2025	101	8273	5783	4589	450724	8530.000	
25	03/31/2025	101	8086	5335	4997	450856	8542.000	
26	03/31/2025	100	8279	5785	4585	450115	8546.000	
27	04/01/2025	101	8111	5149	4756	450385	8576.000	
28	04/01/2025	100	8250	6175	4625	449939	8506.000	
29	04/02/2025	96	8587	6038	4570	450058	8599.000	
30	04/02/2025	100	7758	5930	4425	450315	8607.000	
31	04/02/2025	101	7779	5624	4735	450155	8594.000	
32	04/03/2025	100	7680	5864	4305	449917	8584.000	
33	04/03/2025	101	7730	5941	4678	450073	8561.000	
34	04/03/2025	100	7718	5791	5492	450130	8588.000	
35	04/04/2025	99	8335	5768	4639	450124	8605.000	

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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:	47-051-02519-00-00
Operator Name:	EQT Production
Well Name and Number:	Longworth A 101H
Latitude:	39.847436
Longitude:	-80.726843
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6549
Total Base Water Volume (gal)*:	12467657.9703911
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	86.96331	None
Sand (Proppant)	EQT	Proppant					
			Silica Substrate	14808-60-7	100.00000	12.94416	None
Clearal 268	ChemStream	Biocide					
			Water	7732-18-5	80.00000	0.00877	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ALKANES, C12-26-BRANCHED AND LINEAR	90622-53-0	40.00000	0.00602	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ACRYLAMIDE-CHLORIDE SALT OF TRIMETHYLAMMONIO-ETHYL ACRYLATE COPOLYMER	69418-26-4	40.00000	0.00602	None

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Enviro-Syn HCR-7000- WL	Fluid USA, Inc.	Synthetic Acid					
			FLUID-Acid-00001	Proprietary	20.00000	0.00128	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			Water	7732-18-5	15.00000	0.00085	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	0.00032	None
StimSTREAM FR 9800	ChemStream	Friction Reducer					
			ETHOXYLATED ALCOHOLS (C12-16)	68551-12-2	5.00000	0.00009	None
StimSTREAM SC-398	ChemStream	Scale Inhibitor					
			AA/ATBS Co-polymer	9003-05-8	5.00000	0.00002	None
Clearal 268	ChemStream	Biocide					
			Quaternary Ammonium Compounds	68424-85-1	3.00000	0.00001	None
Clearal 268	ChemStream	Biocide					
			Didecyl dimethyl ammonium chloride	7173-51-5	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)

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AS-DRILLED PLAT

BHL is located on topo map 6,287 feet south of Latitude: 39° 52' 30"
SHL is located on topo map 10,069 feet south of Latitude: 39° 52' 30"

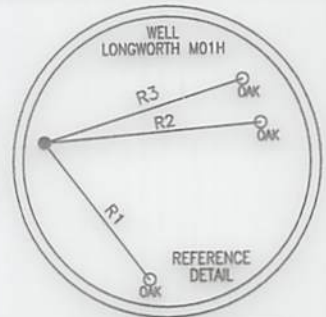
BHL is located on topo map 10,210 feet west of Longitude: 80° 42' 30"
SHL is located on topo map 5,251 feet west of Longitude: 80° 42' 30"

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

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.

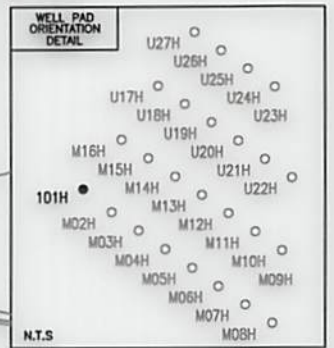
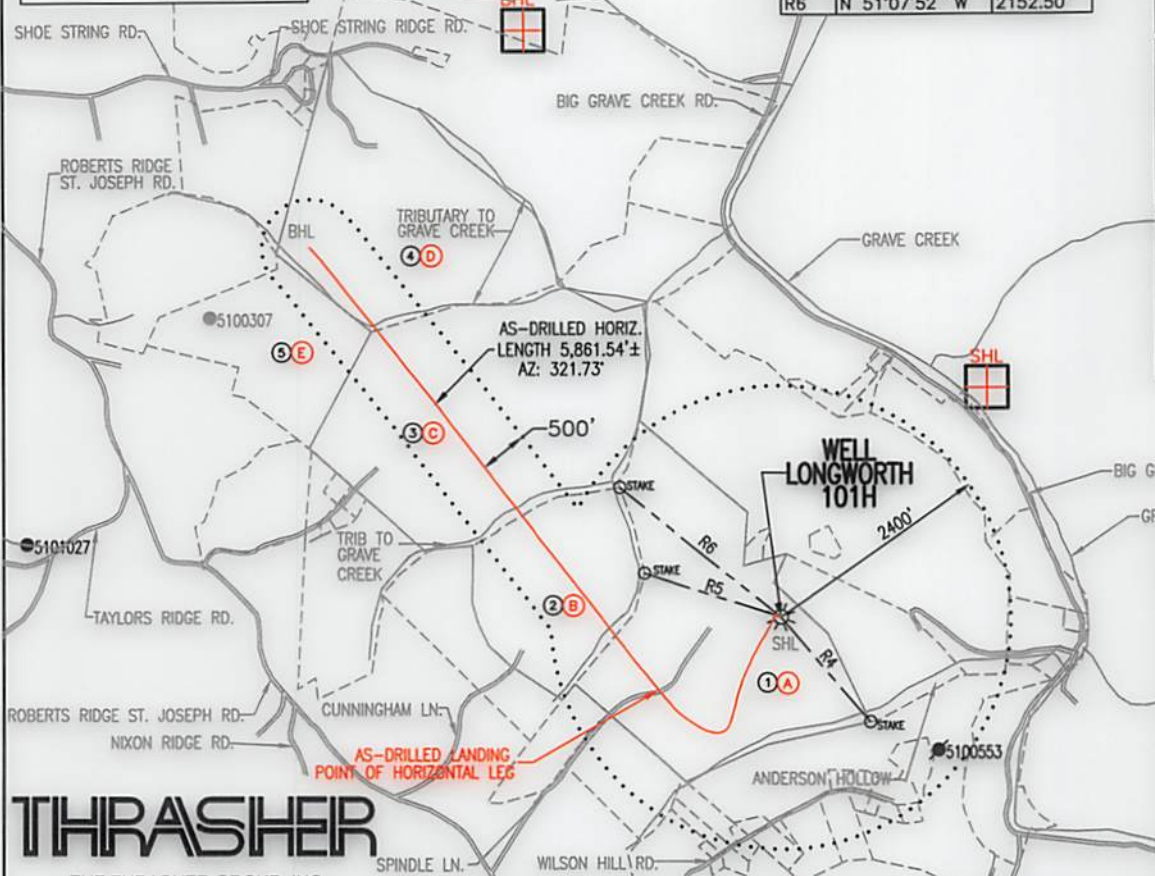


LINE	BEARING	DISTANCE
R1	S 34°52'31" E	227.76'
R2	N 86°57'54" E	312.31'
R3	N 81°36'46" E	291.32'
R4	S 40°52'32" E	1428.46'
R5	N 72°02'09" W	1494.99'
R6	N 51°07'52" W	2152.50'

AS-DRILLED LOCATIONS
SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4410860.031
E:523368.437
NAD83, WV NORTH
N:493131.610
E:1624048.850

APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4411426.596
E:523729.494
NAD83, WV NORTH
N:494970.990
E:1625264.730

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4412007.948
E:521854.063
NAD83, WV NORTH
N:496981.550
E:1619142.390



THRASHER

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

SEE PAGE 2 FOR SURFACE OWNERS AND LESSORS

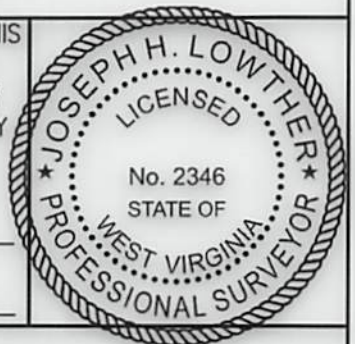
FILE #: LONGWORTH 101H-AS-DRILLED
DRAWING #: LONGWORTH 101H-AS-DRILLED
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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, 2025

OPERATOR'S WELL #: LONGWORTH 101H-AS-DRILLED

API WELL #: 47 51 02519
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: 13,274'±

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

LONGWORTH
101H
PAGE 2 OF 2
AS-DRILLED

	LESSOR	DIST-TM/PAR
A	GRAHAM H. LONGWORTH JR. ET AL	4-11/1
B	DALE CUNNINGHAM ET UX	4-13/33
C	BRETT A. ANDREWS ET UX	4-12/19
D	JMK IREV TRST	4-12/4
	PURPLEBURGH VENTURES LLC	
	MARCELLUS TX MINERAL PRTRNS LTD	
E	JMK IREV TRST	4-12/21

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01/23/2026

JANUARY 20, 2025

AS-DRILLED PLAT

BHL is located on topo map 6,287 feet south of Latitude: 39° 52' 30"
 SHL is located on topo map 10,069 feet south of Latitude: 39° 52' 30"

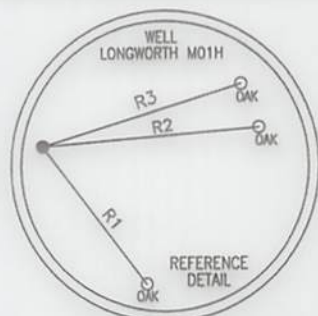
BHL is located on topo map 10,210 feet west of Longitude: 80° 42' 30"
 SHL is located on topo map 5,251 feet west of Longitude: 80° 42' 30"

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

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.



LINE	BEARING	DISTANCE
R1	S 34°52'31" E	227.76'
R2	N 86°57'54" E	312.31'
R3	N 81°36'46" E	291.32'
R4	S 40°52'32" E	1428.46'
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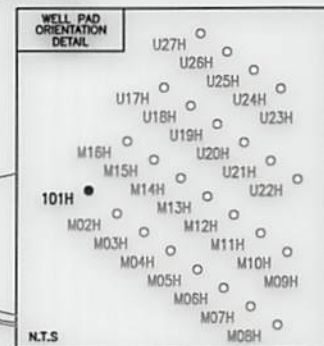
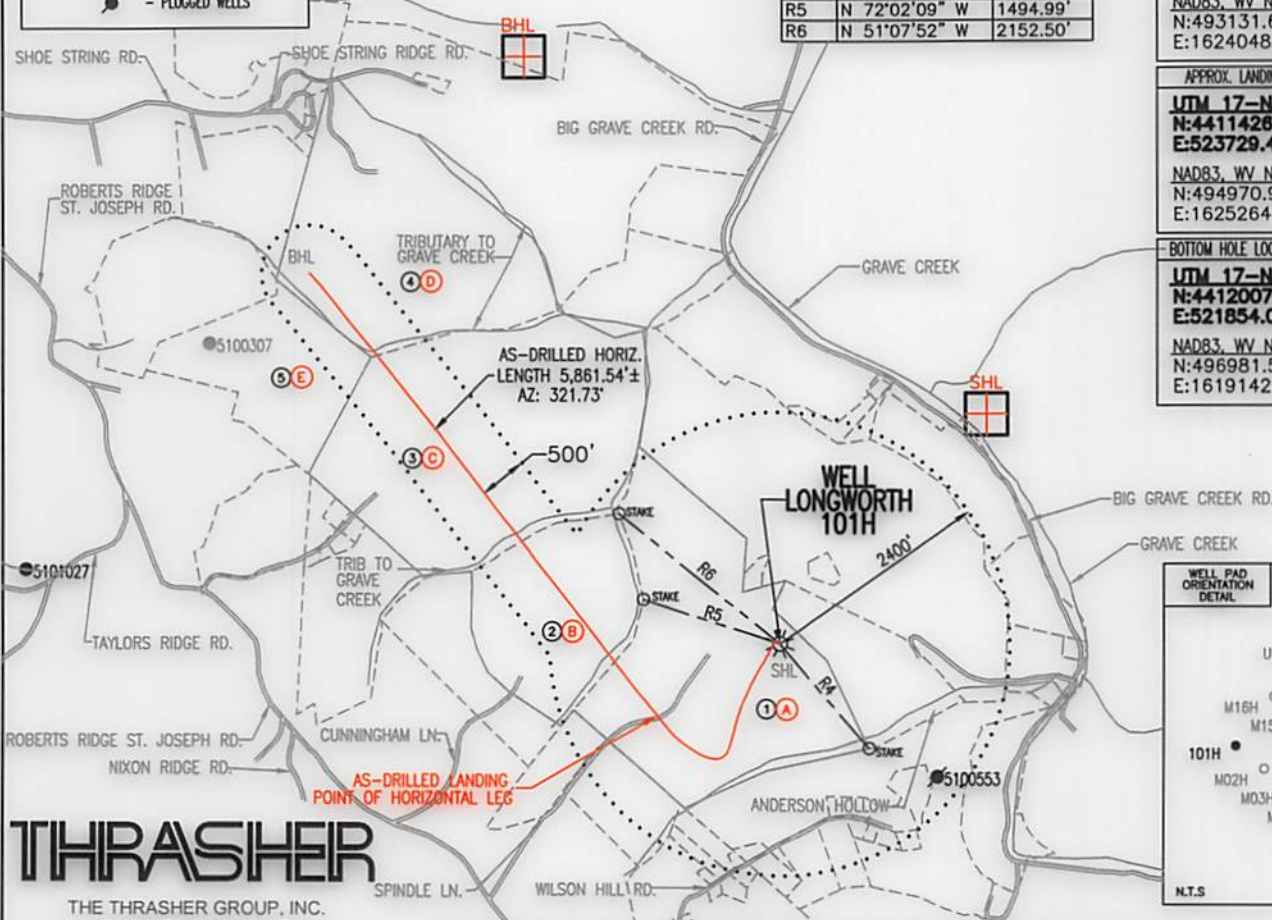
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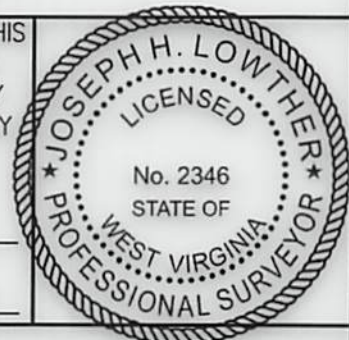
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01/23/2026

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