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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Monday, October 21, 2024  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

EQT PRODUCTION COMPANY  
400 WOODCLIFF DR.

CANONSBURG, PA 15317

Re: Permit Modification Approval for Carnegie 9H  
47-049-02524-00-00

**Adding an AST to the pad**

EQT PRODUCTION COMPANY

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

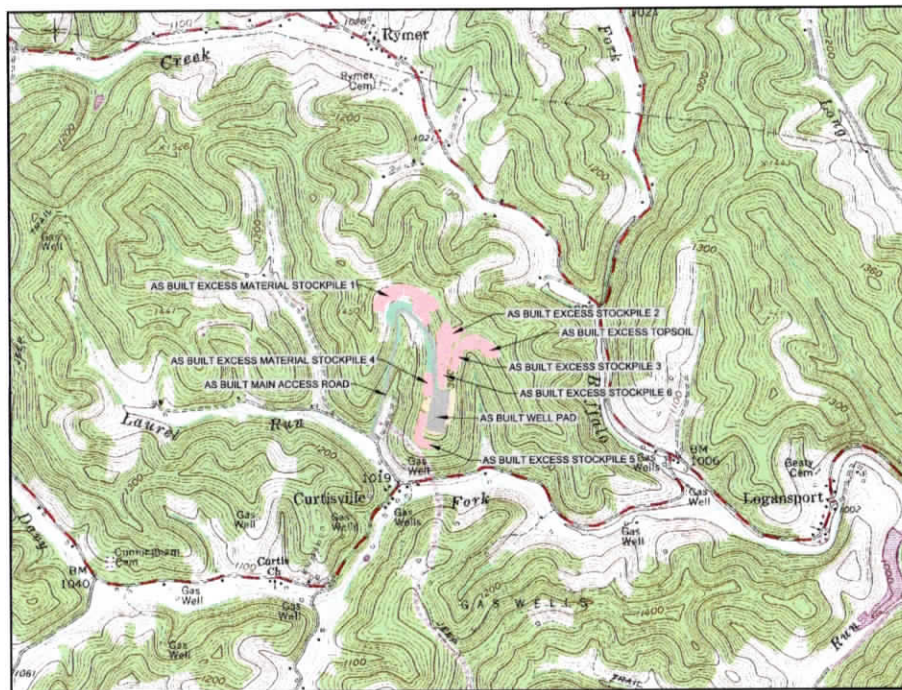
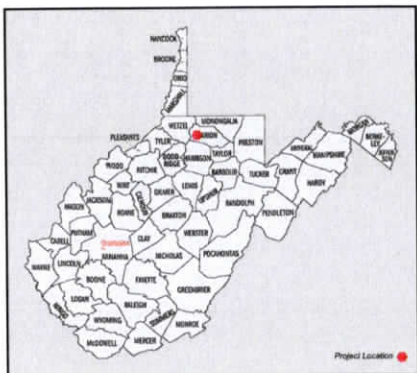
Operator's Well Number: Carnegie 9H  
Farm Name: Jeanne A Musgrave Akers & Joseph Forte  
U.S. WELL NUMBER: 47-049-02524-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 10/18/2024

Promoting a healthy environment.

10/25/2024

# EQT - CARNEGIE AS-BUILT / WELL PAD AST MODIFICATION

West Virginia Coordinate System of 1983  
State Plane Grid North  
Elevations NAVD83  
Established by Survey Grade GPS



**WELL LEGEND**

1H / L-003697	- LAT: 39.523718 / LONG. -80.436315
2H / L-003698	- LAT: 39.523751 / LONG. -80.436397
3H / L-003709	- LAT: 39.523758 / LONG. -80.436305
4H / L-003699	- LAT: 39.523792 / LONG. -80.436386
5H / L-003708	- LAT: 39.523798 / LONG. -80.436294
6H / L-003700	- LAT: 39.523832 / LONG. -80.436376
7H / L-003707	- LAT: 39.523839 / LONG. -80.436284
8H / L-003701	- LAT: 39.523872 / LONG. -80.436365
9H / L-003706	- LAT: 39.523879 / LONG. -80.436273
10H / L-003702	- LAT: 39.523913 / LONG. -80.436355
11H / L-003705	- LAT: 39.523920 / LONG. -80.436263
12H / L-003703	- LAT: 39.523954 / LONG. -80.436344
13H / L-007975	- LAT: 39.523960 / LONG. -80.436252
14H / L-003704	- LAT: 39.523994 / LONG. -80.436334
15H / L-007976	- LAT: 39.524000 / LONG. -80.436242
16H / L-003789	- LAT: 39.524034 / LONG. -80.436324
17H / L-004639	- LAT: 39.524041 / LONG. -80.436231
18H / L-003783	- LAT: 39.524074 / LONG. -80.436313
19H / L-004640	- LAT: 39.524081 / LONG. -80.436221

RECEIVED  
Office of Oil and Gas  
SEP 09 2024

West Virginia Department of Environmental Protection  
AFFLICTED PROPERTIES  
JOHN V. FORTE  
TAX MAP 49 - PARCEL 39  
23.98 ACRES  
SITE DISTURBANCE:  
EXCESS MATERIAL STOCKPILES = 2.10 ACRES  
PAD = 3.09 ACRES  
TOTAL DISTURBANCE = 5.19 ACRES  
TIMBER REMOVAL = 4.88 ACRES  
JOSEPH L.P.  
TAX MAP 49 - PARCEL 37  
23.98 ACRES  
SITE DISTURBANCE:  
ACCESS ROAD = 8.24 ACRES  
EXCESS MATERIAL STOCKPILES = 5.58 ACRES  
PAD = 3.51 ACRES  
TOTAL DISTURBANCE = 17.43 ACRES  
TIMBER REMOVAL = 15.79 ACRES  
JOHN W. WRIGHT  
TAX MAP 49 - PARCEL 38  
81.25 ACRES  
SITE DISTURBANCE:  
MAIN ACCESS ROAD = 8.15 ACRES  
EXCESS MATERIAL STOCKPILES = 13.84 ACRES  
TOTAL DISTURBANCE = 21.99 ACRES  
TIMBER REMOVAL = 20.94 ACRES  
JOSEPH V. FORTE  
TAX MAP 49 - PARCEL 39.1  
23.98 ACRES  
SITE DISTURBANCE:  
EXCESS MATERIAL STOCKPILES = 10.05 ACRES  
TOPSOIL STOCKPILE = 2.88 ACRES  
WELL PAD = 2.36 ACRES  
TOTAL DISTURBANCE = 15.29 ACRES  
TIMBER REMOVAL = 13.96 ACRES

**FLOODPLAIN CONDITIONS**

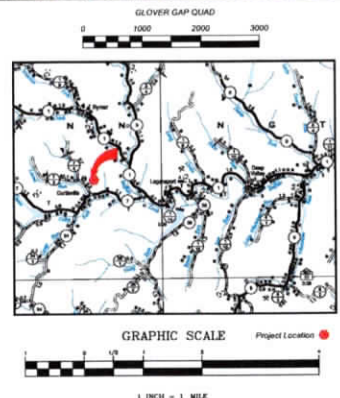
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:		
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:		NO
HEC-RAS STUDY COMPLETED:		NO
FLOODPLAIN SHOWN ON DRAWINGS:		N/A
FIRM MAP NUMBER(S) FOR SITE:	54049C0065D & 54049C0070D	N/A
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:		N/A

**SHEET INDEX**

COVER SHEET / LOCATION MAP	1
AS-BUILT OVERVIEW PLAN	2
AS-BUILT SITE PLAN	3-7
WELL PAD AST MODIFICATION	8
AS-BUILT ACCESS ROAD PROFILE	9-10

**SITE LOCATIONS**  
WGS 84 (WV NORTH ZONE)

LATITUDE	LONGITUDE
As Built Well Pad	39.523919 -80.436421
As Built Access Road Site 1400	39.523937 -80.440416
Proposed Access Road Well Pad 2171	39.524049 -80.438249



- WELL LOCATION RESTRICTIONS**
- Well Pad complies with the Well Location Restrictions of WV code 22-6A-12
- \* 250' from an existing well or developed spring used for human or domestic animals.
  - \* 625' to occupied dwelling or barn greater 2500 SF used for poultry or dairy measured from the center of the pad.
  - \* 100' from edge of disturbance to wetlands, perennial streams, natural or artificial lake, pond or reservoir.
  - \* 300' from edge of disturbance to naturally reproducing trout streams.
  - \* 1000' of surface or ground water intake to a public water supply.

As-Built Certification  
These drawings have been prepared using high density 3D scan data provided by Allegheny Surveys, Inc. on 8.9.23 and reflect the locations and as-built conditions known to exist following construction of this site, to the best of my knowledge.

**APPROVED**  
**WVDEP OOG**  
Modification  
10/21/2024

MISS Utility of West Virginia  
1-800-245-4848  
West Virginia State Law  
(Section XIV: Chapter 24-C)  
Requires that you call two business days before you dig in the state of West Virginia.  
**IT'S THE LAW!!!**



Allegheny Surveys, Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606

U.S. STATE OF WEST VIRGINIA  
Professional Seal

Hornor Since 1926 Bros. Engineers  
Civil, Mining, Environmental and  
1400 Main Street, Ste. 1000, Martinsburg, West Virginia, 26101-1000

THIS DOCUMENT PREPARED FOR  
HOT PRODUCTION COMPANY

AS-BUILT COVER SHEET / LOCATION MAP  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024  
Scale: As Noted

DATE	REVISIONS	Designed by:
11/06/2023	ADDED ADDITIONAL AS BUILT RIPRAP	TBC

Page: 1 of 10

# CARNEGIE WELL PAD OVERVIEW OF AS BUILT SITE / AST MODIFICATION

RECEIVED  
Office of Oil and Gas  
SEP 09 2024  
WV Department of  
Environmental Protection



All engineering information shown herein is based on high quality AS built data provided by Allegheny Surveys, Inc. (01-0-0-27)



Allegheny Surveys Inc.  
P.O. Box 436  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
Civil, Mining, Environmental and  
Surveying  
1000 Mountain Top Drive, P.O. Box 1000  
Martinsburg, WV 26156



THIS DOCUMENT  
PREPARED FOR:  
EQT ENERGY TRIM  
COMPANY

OVERVIEW OF AS BUILT SITE  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

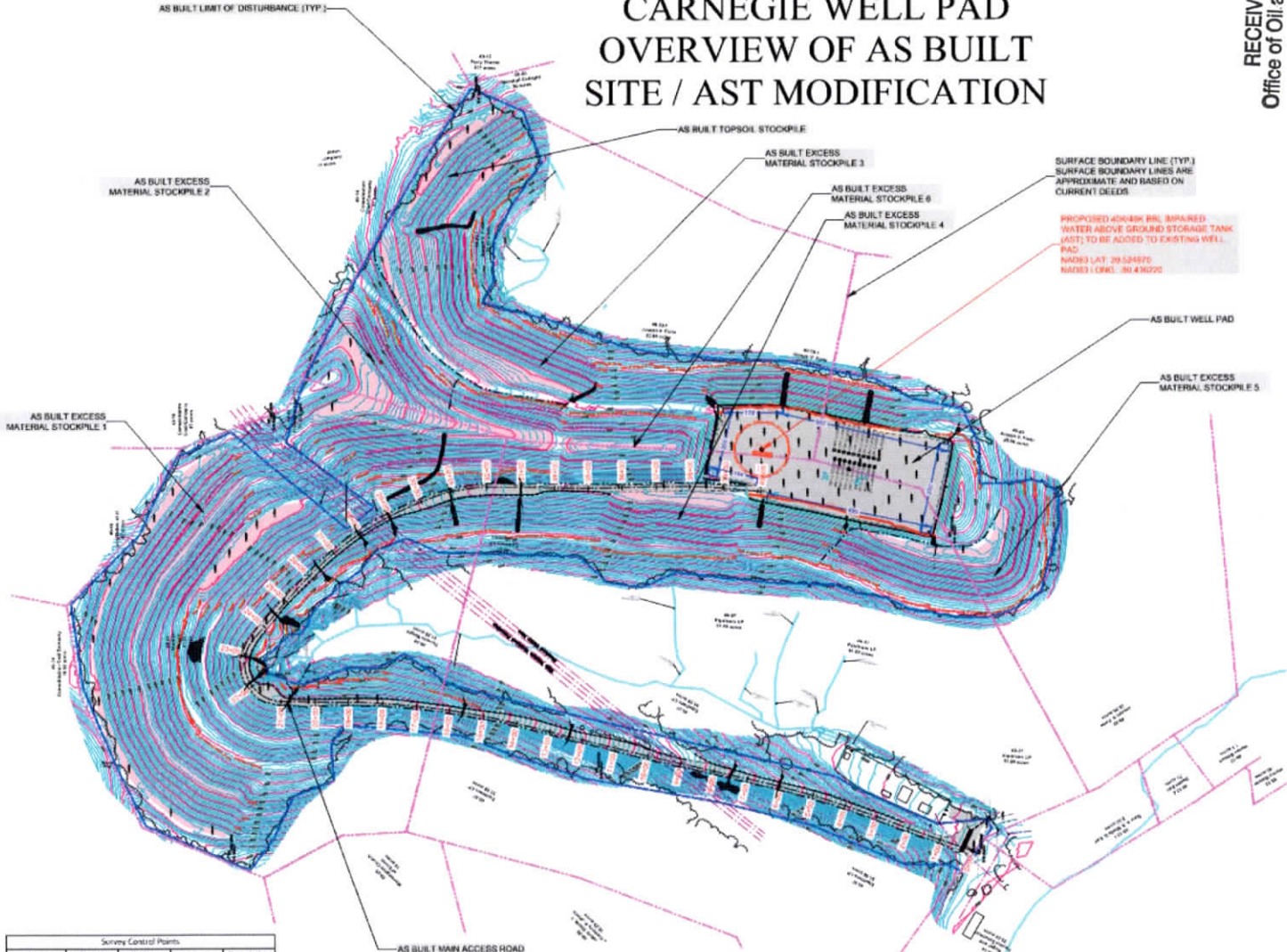
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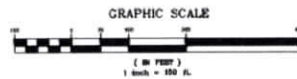
Designed by: [Signature]

File No: [Blank]

Page: 2 of 10



Survey Control Points				
Point Number	Northing	Easting	Elevation	Description
100	573846.03	1703227.30	1034.73	S/O Refurb
101	375073.56	1703467.94	1235.22	S/O Refurb
104	376310.11	1703236.82	1413.46	S/O Refurb
105	876036.43	1707501.52	1413.79	S/O Refurb
106	873429.07	1703476.58	1362.33	S/O Refurb
107	874026.93	1704167.48	1339.40	S/O Refurb



**APPROVED**  
**WVDEP OOG**  
Modification  
*[Signature]*  
10/21/2024

*Keany Willett*

DATE	REVISIONS

# CARNEGIE WELL PAD AS BUILT SITE PLAN

RECEIVED  
Office of Oil and Gas  
SEP 09 2024  
WV Department of  
Environmental Protection



All topographic information shown hereon is based on high density 3D scan data provided by Allegheny Surveys, Inc. on 8/9/23



Allegheny Surveys, Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
Registered Professional Engineer  
Civil, Mining, Environmental and Consulting Engineering  
Charleston, West Virginia 25301 (304) 851-8440

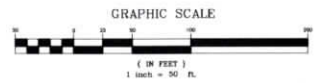


THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

AS BUILT SITE PLAN  
**CARNEGIE  
MODIFIED WELL PAD SITE**  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024  
Scale: 1"=50'  
Designed by: TMC  
File No: 2024-001-001-001-001  
Page: 3 of 10

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**WVDEP OOG**  
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*[Signature]*  
10/21/2024



DATE	REVISIONS

SURFACE BOUNDARY LINE (TYP.)  
SURFACE BOUNDARY LINES ARE APPROXIMATE AND BASED ON CURRENT DEEDS

48-14  
Roger and  
Pauline Eshelman  
25.09 acres

49-37  
Equitrans LP  
51.50 acres

49-37  
Equitrans LP  
51.50 acres

AS-BUILT ACCESS ROAD  
STATION 0+00  
NAD83 LAT. = 39.522937  
NAD 83 LONG. = -80.440416

24" CPP  
INLET ELEVATION = 1106.1'  
OUTLET ELEVATION = 1103.8'

30" CPP  
INLET ELEVATION = 1124.8'  
OUTLET ELEVATION = 1123.1'

(2) 12" CPPS  
INLET ELEVATION = 1037.0'  
OUTLET ELEVATION = 1034.7'

UNT - 1  
INTERMITTENT

UNT - 3  
EPHEMERAL

UNT - 4  
EPHEMERAL

UNT - 5  
EPHEMERAL

**Legend**

- As-Built Stored Areas
- As-Built Riprap
- As-Built Tree Line
- Existing Utility Pole
- Existing Gas Line CL
- As-Built 2' Contour
- As-Built 10' Contour
- As-Built 5' Contour
- As-Built 10' Contour
- As-Built 5' Contour
- As-Built Straw Wattle
- Limits of Disturbance (As-Built)
- As-Built Ditch Line
- Surface Boundary Line

DATE PLOTTED: 9/10/2024 10:00 AM; PLOTTER: HP DesignJet T1100; PLOT SCALE: 1"=50'

# CARNEGIE WELL PAD AS BUILT SITE PLAN

RECEIVED  
Office of Oil and Gas  
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WV Department of  
Environmental Protection



All topographic information shown herein is based on high density 3D scan data provided by Allegheny Surveys, Inc. on 8.8.23



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237 Birch River Road  
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304-649-8606

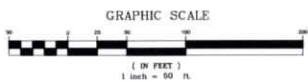
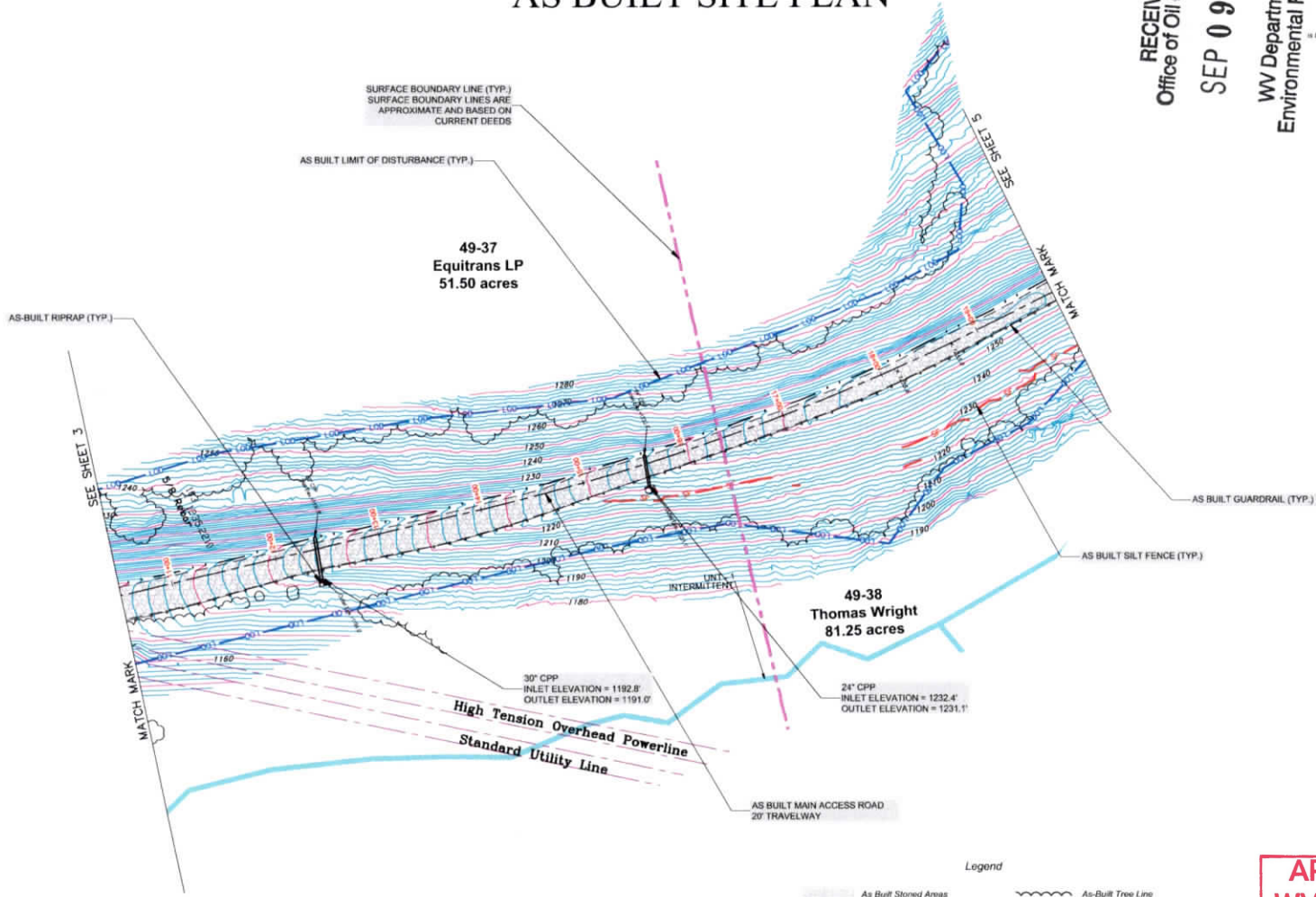


Hornor  
Brothers  
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Since  
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Civil, Mining, Environmental and  
Geotechnical Engineering  
140 State Street, Suite 1000  
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LOT PRODUCTION  
COMPANY

AS BUILT SITE PLAN  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV



- Legend
- As Built Stored Areas
  - As Built Rppap
  - As-Built Tree Line
  - Existing Utility Pole
  - Existing Gas Line CL
  - As Built 2' Contour
  - As Built 10' Contour
  - As Built 5' Contour
  - As Built Silt Fence
  - As Built Straw Wattle
  - Limits of Disturbance (As-Built)
  - As Built Ditch Line
  - Surface Boundary Line

APPROVED  
WVDEP OOG  
Modification  
10/21/2024

DATE: 9/5/2024  
Scale: 1"=50'

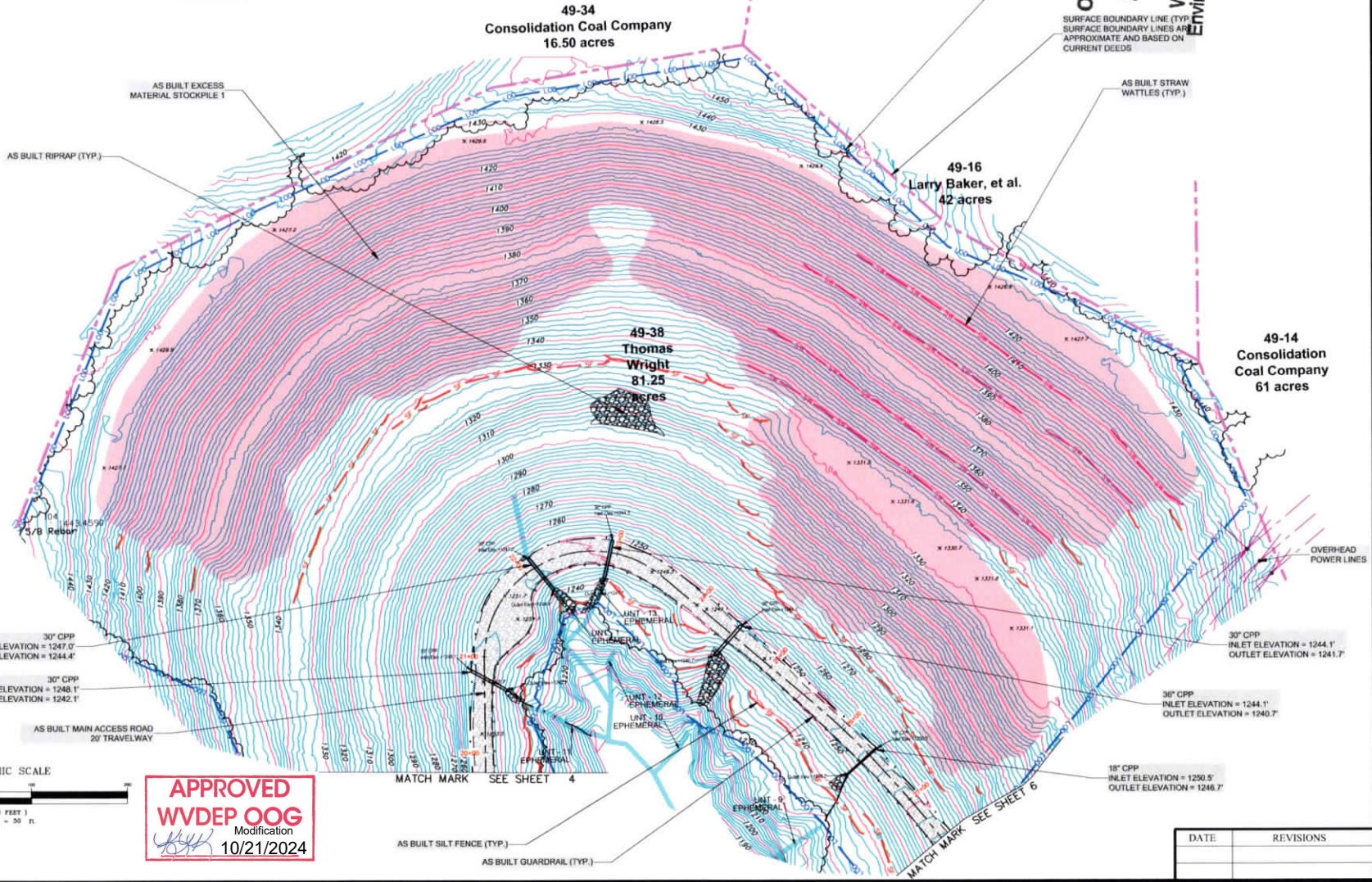
DATE	REVISIONS

Designed By: SNC  
File No.: 24-000-0000000000  
Page 4 of 10

# CARNEGIE WELL PAD AS BUILT SITE PLAN

- As Built Stored Areas
- As Built Spill Areas
- As Built Riprap

- As-Built Tree Line
- Existing Utility Pole
- As Built 2" Contour
- As Built 10' Contour
- As Built Silt Fence
- As Built Straw Wattle
- Limits of Disturbance (As-Built)
- As Built Ditch Line
- Surface Boundary Line



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All topographic information shown herein is based on high density 3D wire data provided by Allegheny Surveys, Inc. on 8.9.23



Allegheny Surveys Inc.  
P.O. Box 438  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
31602  
Civil, Mining, Environmental and Consulting Engineering  
Overhead, West Virginia, 2025 (201) 534-8442



THIS DOCUMENT PREPARED FOR EQT PRODUCTION COMPANY

AS BUILT SITE PLAN  
CARNEGIE WELL PAD SITE  
MODIFIED WELL PAD SITE  
MANNING DISTRICT  
MARION COUNTY, WV

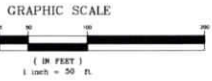
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Scale: 1"=50'

Designed by: TBC

File No. 2024-0000000000

Page 1 of 10



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Modification  
10/21/2024

DATE	REVISIONS

# CARNEGIE WELL PAD AS BUILT SITE PLAN

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WV Department of  
Environmental Protection



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Allegheny Surveys Inc.  
P.O. Box 436  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor  
Since  
1962  
Brooks, Engineers  
Civil, Mining, Environmental and  
Surveying  
1400 South 2nd Street, 4th Floor, Box 306  
Martinsburg, West Virginia, 26101-0306



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COMPANY

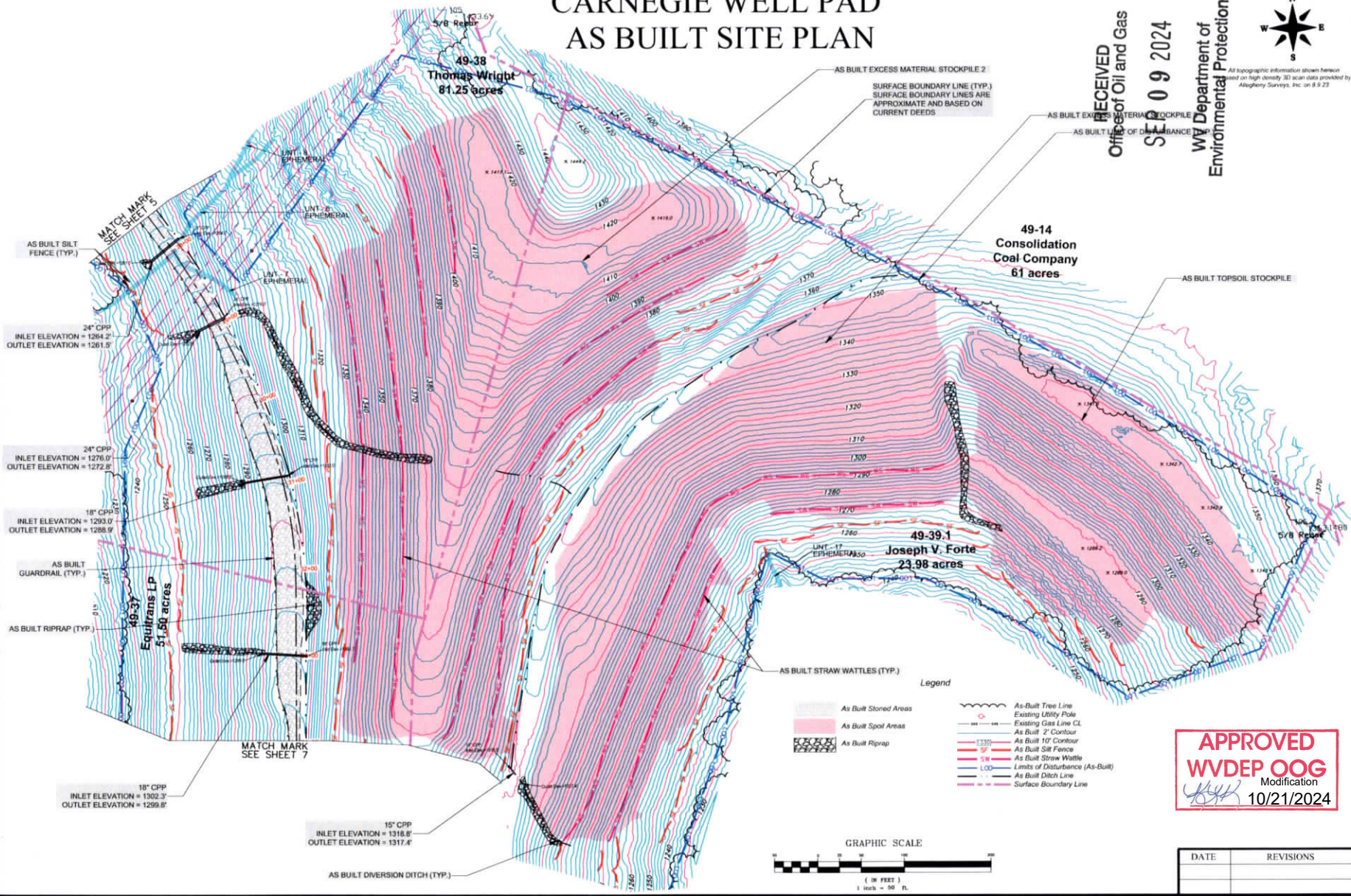
AS BUILT SITE PLAN  
**CARNEGIE**  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024

Designed By: JBC

File No: 24-000-00000000

Page: 9 of 10



DATE PLOTTED: 9/11/24 10:58 AM

# CARNEGIE WELL PAD AS BUILT SITE PLAN

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WV Department of  
Environmental Protection



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P.O. Box 438  
237 Birch River Road  
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304-649-8606



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Professional Surveyors  
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Contractors, West Virginia, 2020 (SH) 81-4441



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AS BUILT SITE PLAN  
**CARNEGIE  
MODIFIED WELL PAD SITE**  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024

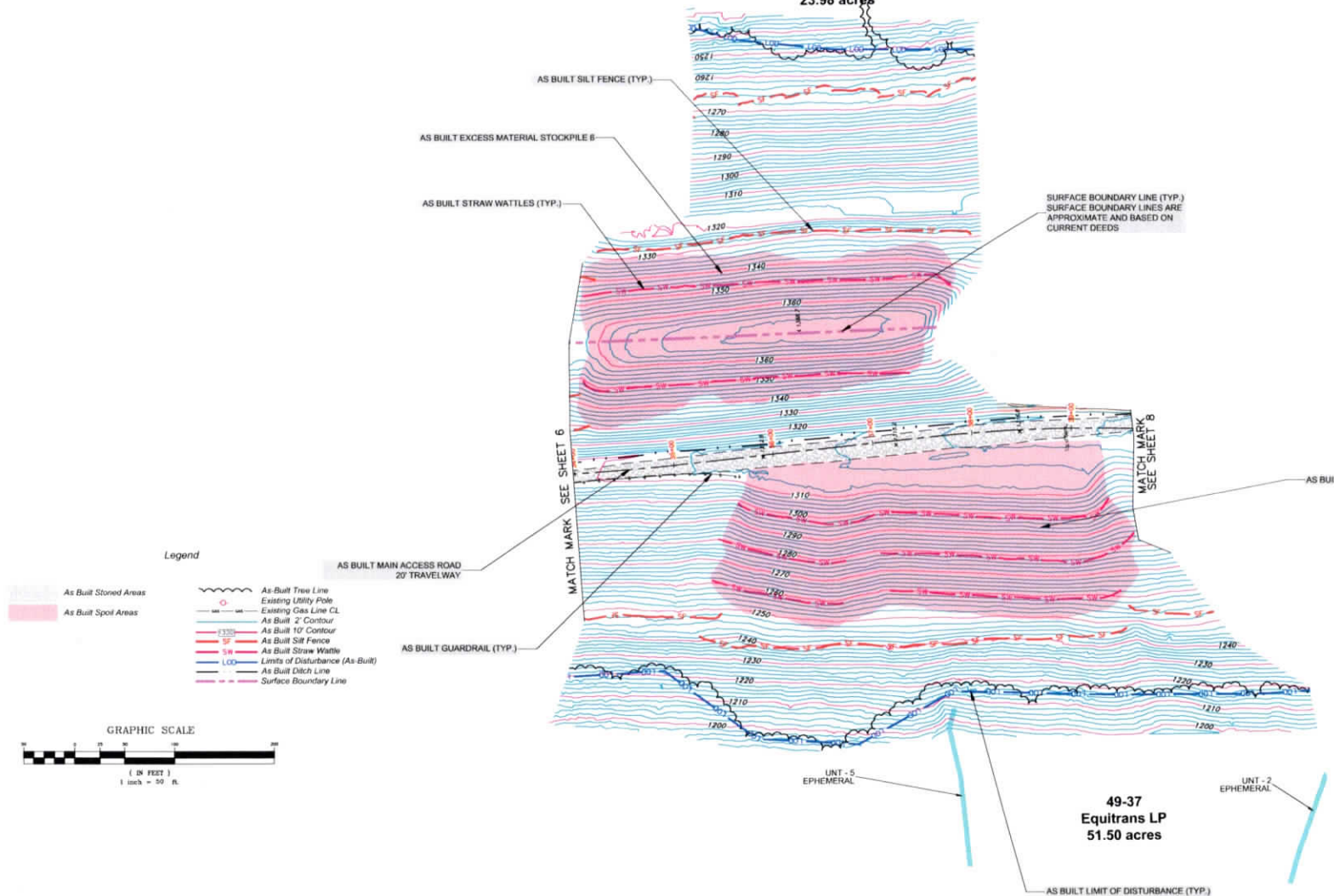
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WVDEP OOG**  
Modification  
*[Signature]*  
10/21/2024

DATE	REVISIONS

Designed by: TMC  
File No: *[illegible]*  
Page: 7 of 10

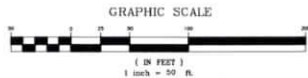
49-39.1  
Joseph V. Forte  
23.98 acres

49-37  
Equitrans LP  
51.50 acres



**Legend**

- As Built Stoned Areas
- As Built Spoil Areas
- As Built Tree Line
- Existing Utility Pole
- Existing Gas Line CL
- As Built 2' Contour
- As Built 10' Contour
- As Built Silt Fence
- As Built Straw Wattle
- Limits of Disturbance (As Built)
- As Built Ditch Line
- Surface Boundary Line



DATE PLOTTED: 9/10/2024 10:58:11 AM



# CARNEGIE WELL PAD WELL PAD AST MODIFICATION PLAN

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Office of Oil and Gas

SEP 09 2024

WV Department of  
Environmental Protection



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Allegheny Surveys, Inc.  
P.O. Box 436  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
3000  
19902  
Civil, Mining, Environmental and  
Construction Services  
1000 15th Street, Suite 200  
Martinsburg, WV 26158



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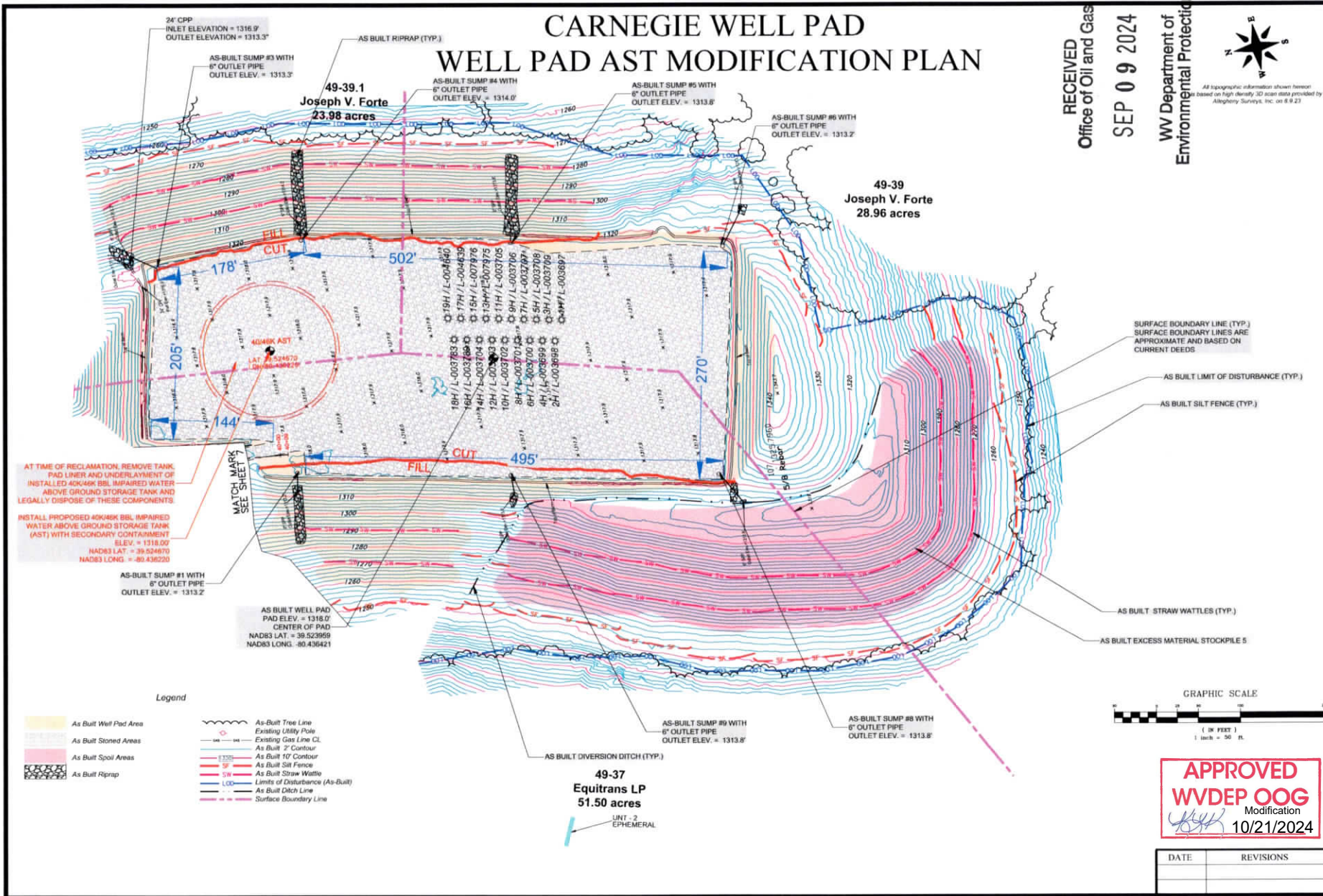
WELL PAD AST MODIFICATION PLAN  
CARNEGIE  
MODIFIED WELL PAD SITE  
MANNINGTON DISTRICT  
MARION COUNTY, WV

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**WVDEP OOG**  
Modification  
10/21/2024

Date: 9/5/2024

DATE	REVISIONS

Designed by: JMC  
File No.: 19000-0000000000  
Page: 4 of 10



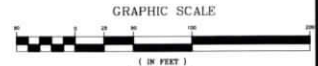
AT TIME OF RECLAMATION, REMOVE TANK, PAD LINER AND UNDERLAYMENT OF INSTALLED 400KMB BBL IMPAIRED WATER ABOVE GROUND STORAGE TANK AND LEGALLY DISPOSE OF THESE COMPONENTS

INSTALL PROPOSED 400KMB BBL IMPAIRED WATER ABOVE GROUND STORAGE TANK (AST) WITH SECONDARY CONTAINMENT ELEV. = 1318.00'  
NAD83 LAT. = 39.524670  
NAD83 LONG. = -80.436230

Legend

- As Built Well Pad Area
- As Built Stoned Areas
- As Built Spoil Areas
- As Built Riprap
- As-Built Tree Line
- Existing Utility Pole
- Existing Gas Line CL
- As Built 2' Contour
- As Built 10' Contour
- As Built Silt Fence
- As Built Straw Wattle
- Limits of Disturbance (As-Built)
- As Built Ditch Line
- Surface Boundary Line

49-37  
Equitrans LP  
51.50 acres  
UNIT - 2  
EPHEMERAL

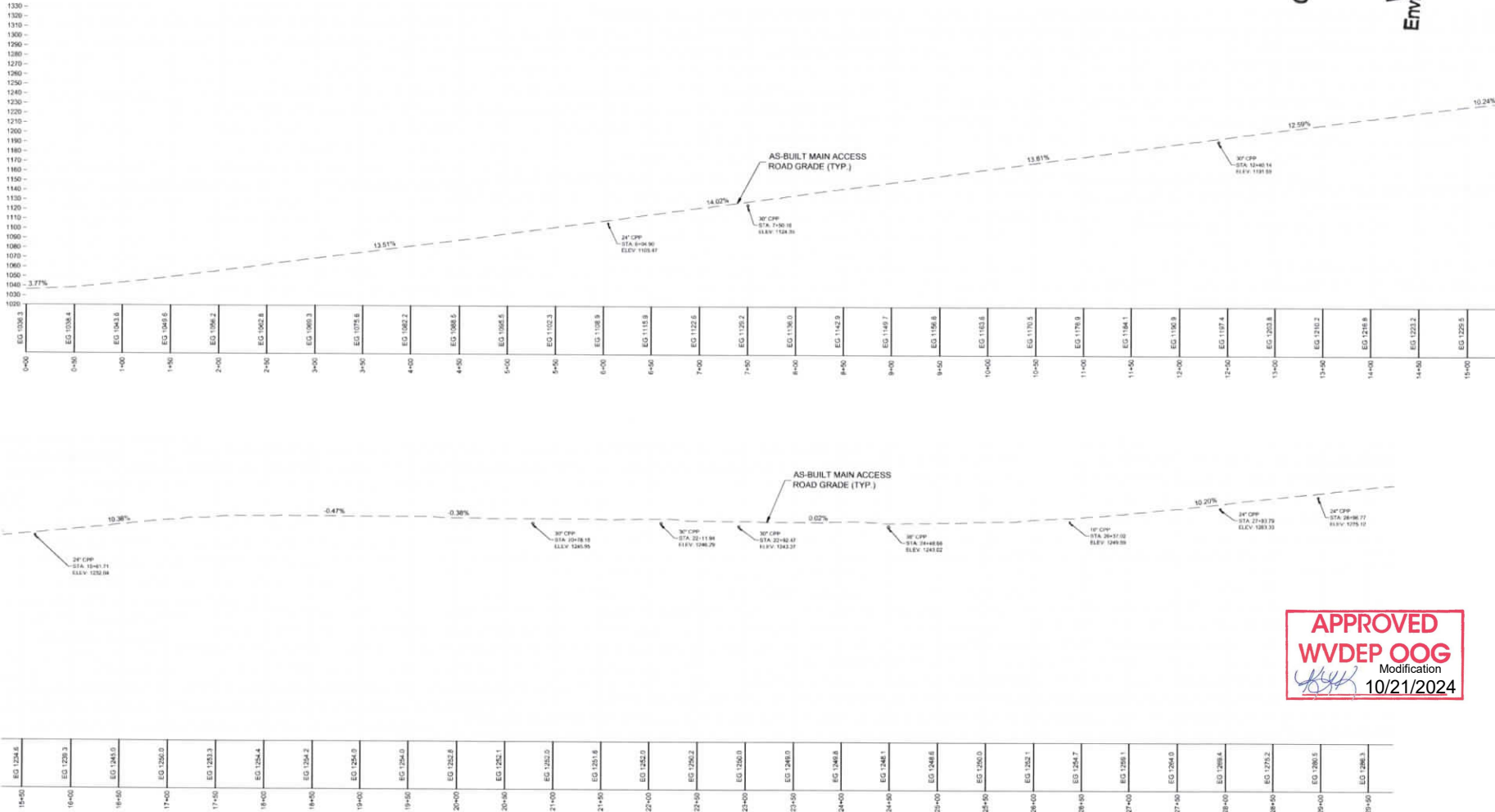


- SURFACE BOUNDARY LINE (TYP.)
- SURFACE BOUNDARY LINES ARE APPROXIMATE AND BASED ON CURRENT DEEDS
- AS BUILT LIMIT OF DISTURBANCE (TYP.)
- AS BUILT SILT FENCE (TYP.)
- AS BUILT STRAW WATTLES (TYP.)
- AS BUILT EXCESS MATERIAL STOCKPILE 5

DATE PLOTTED: 09/11/2024 09:11:11 AM; USER: JMC; PLOT: 19000-0000000000000000

# CARNEGIE MODIFIED WELL PAD AS BUILT MAIN ACCESS ROAD PROFILE

**RECEIVED**  
Office of Oil and Gas  
**SEP 09 2024**  
WV Department of  
Environmental Protection



GRAPHIC SCALE



**APPROVED**  
**WVDEP OOG**  
Modification  
*[Signature]*  
**10/21/2024**

DATE	REVISIONS



Allegheny Surveys Inc.  
P.O. Box 436  
237 Birch River Road  
Birch River, WV 26610  
304-649-8606



Hornor Bros. Engineers  
Civil, Environmental and  
Surveying  
148 South 10th Street, P.O. Box 306  
Martinsburg, WV 26150  
304-261-1234

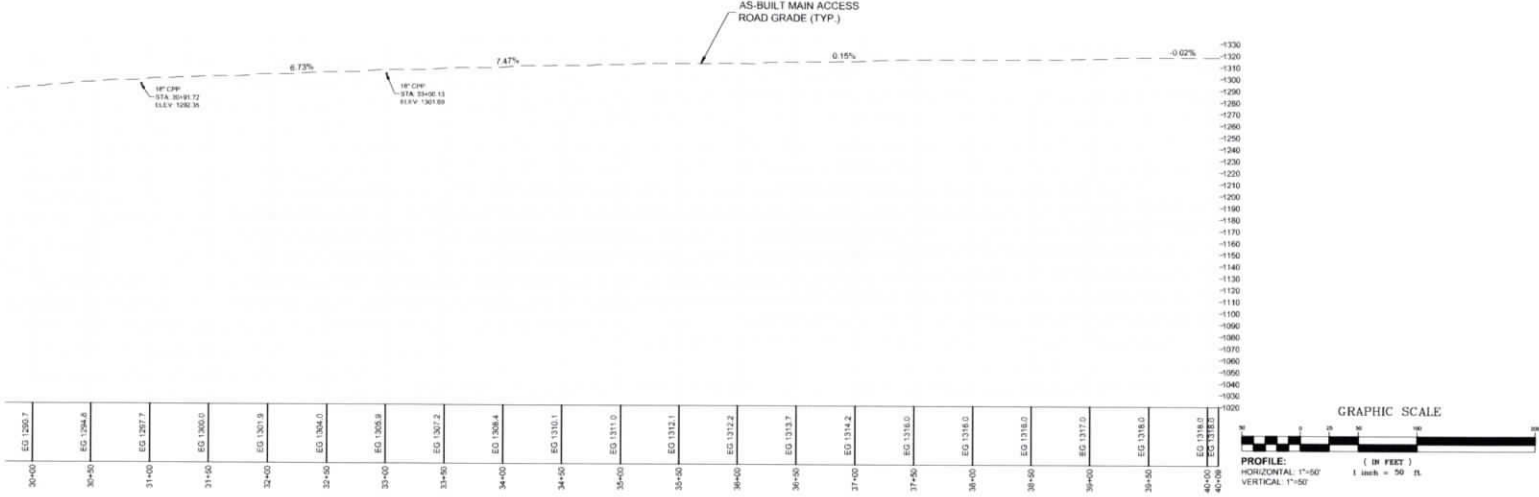


THIS DOCUMENT  
PREPARED FOR  
EGT PRODUCTION  
COMPANY

AS BUILT MAIN ACCESS ROAD PROFILE  
**CARNEGIE  
MODIFIED WELL PAD SITE**  
MANNINGTON DISTRICT  
MARION COUNTY, WV

Date: 9/5/2024  
Scale: 1" = 50'  
Checked by: JRC  
File No.: 24-0000000000  
Page: 9 of 10

# CARNEGIE MODIFIED WELL PAD AS BUILT MAIN ACCESS ROAD PROFILE



**APPROVED**  
**WVDEP OOG**  
 Modification  
*[Signature]*  
**10/21/2024**

DATE	REVISIONS

**RECEIVED**  
 Office of Oil and Gas  
**SEP 09 2024**  
 WV Department of  
 Environmental Protection



Allegheny Surveys Inc.  
 P.O. Box 438  
 237 Birch River Road  
 Birch River, WV 26610  
 304-649-8606



**Horner**  
 Since 1902  
**Bros. Engineers**  
 Mining, Environmental and  
 Civil  
 145 South 10th Street, P.O. Box 100  
 Charleston, West Virginia, 25301-0100



THIS DOCUMENT  
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**EGT PRODUCTION COMPANY**

AS BUILT MAIN ACCESS ROAD PROFILE  
**CARNEGIE**  
**MODIFIED WELL PAD SITE**  
 MANNINGTON DISTRICT  
 MARION COUNTY, WV

Date: 9/5/2024  
 Scale: 1" = 50'  
 Designed by: JRC  
 File No.:  
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