



west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary
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 7H
47-049-02523-00-00

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.

A blue ink signature of James A. Martin, Chief, is written in a cursive style above his name and title.

James A. Martin
Chief

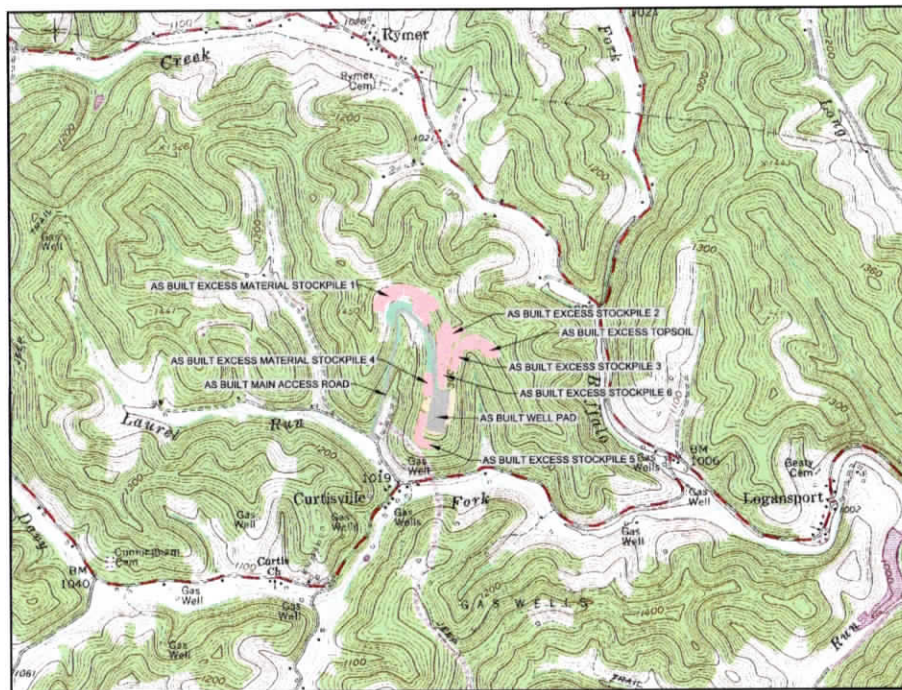
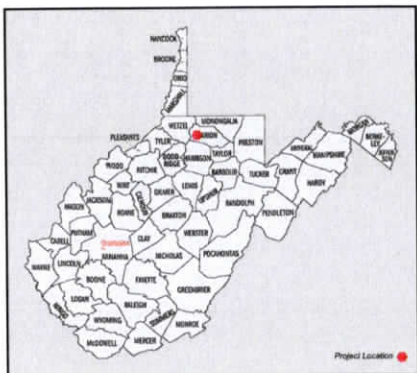
Operator's Well Number: Carnegie 7H
Farm Name: Jeanne A Musgrave Akers & Joseph Forte
U.S. WELL NUMBER: 47-049-02523-00-00
Horizontal 6A New Drill
Date Modification Issued: 10/21/2024

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

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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 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

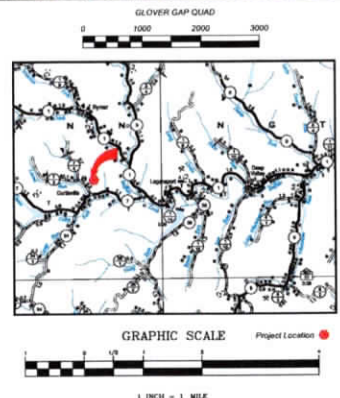
DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN:		
PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR:		NO
HEC-RAS STUDY COMPLETED:		NO
FLOODPLAIN SHOWN ON DRAWINGS:		N/A
FIRM MAP NUMBER(S) FOR SITE:	54049C0065D & 54049C0070D	N/A
ACREAGES OF CONSTRUCTION IN FLOODPLAIN:		N/A

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. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
STATE OF WEST VIRGINIA
DIVISION OF MINERAL RESOURCES

Hornor Since 1926 Bros. Engineers
Civil, Mining, Environmental and Surveying
1400 Main Street, 1st Floor, Martinsburg, WV 26150
Phone: 304-293-2200 Fax: 304-293-2201

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: TRC
11/06/2023	ADDED ADDITIONAL AS BUILT RIPRAP	

Page: 1 of 10

CARNEGIE WELL PAD OVERVIEW OF AS BUILT SITE / AST MODIFICATION

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Office of Oil and Gas

SEP 09 2024

WV Department of
Environmental Protection



All Engineering information shown herein is based on high quality 3D laser data provided by Allegheny Surveys, Inc. on 8/4/24.



Allegheny Surveys Inc.
P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-549-8600



Hornor Bros. Engineers
Civil, Mining, Environmental and
Surveying
1000 Main Street, Suite 1000, Charleston, WV 25302
304-743-1111



THIS DOCUMENT
PREPARED FOR:
EQT PRODUCTION COMPANY

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

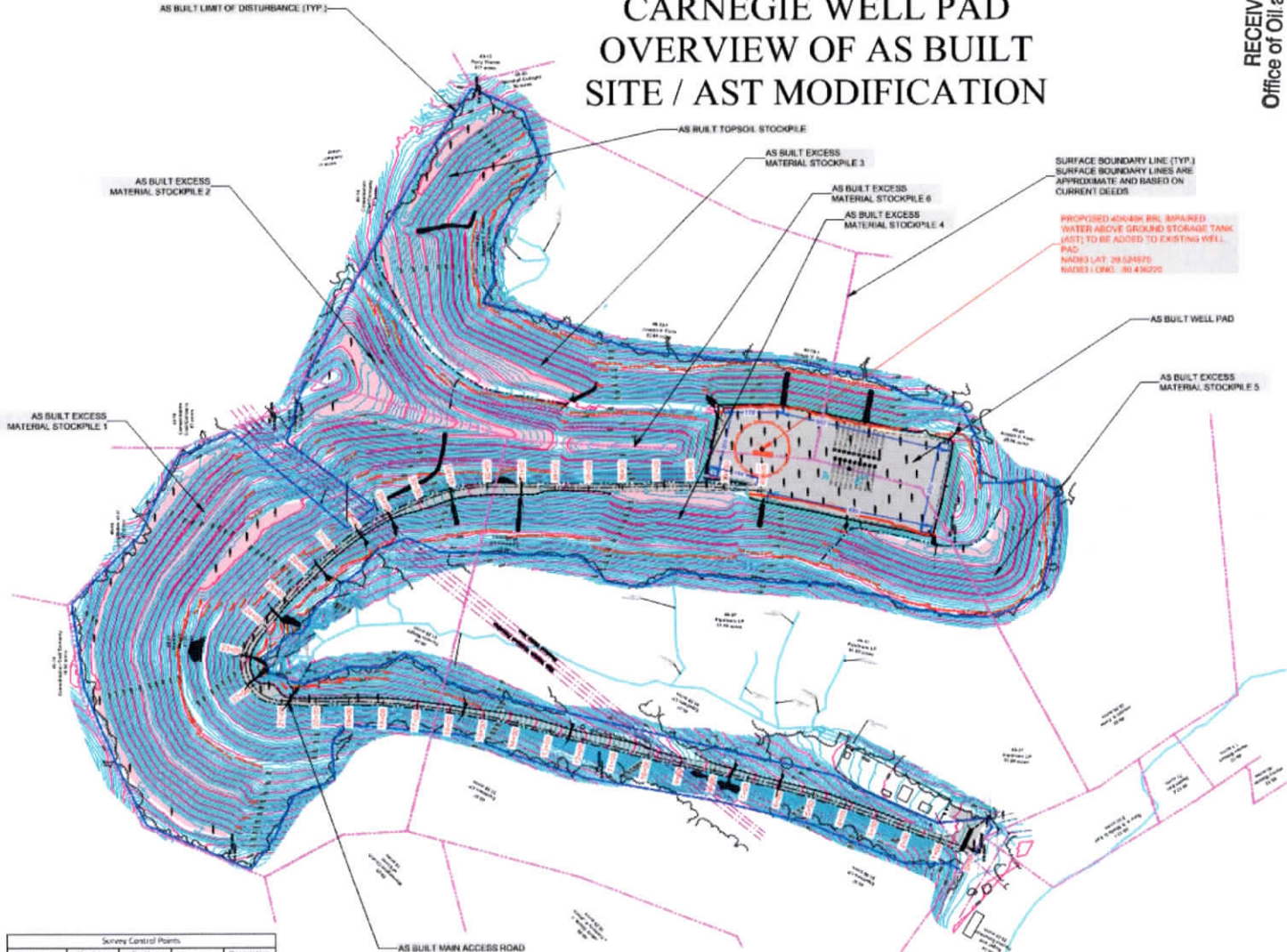
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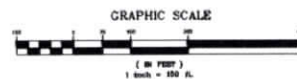
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Page: 2 of 10



Survey Control Points				
Point Number	Northing	Easting	Elevation	Description
100	373846.03	1703227.30	1034.73	S/O Rebar
101	375073.56	1703467.94	1235.22	S/O Rebar
104	376140.11	1703236.82	1443.46	S/O Rebar
105	376216.43	1703501.32	1443.79	S/O Rebar
106	373429.07	1703476.58	1382.33	S/O Rebar
107	374026.93	1704167.48	1375.40	S/O Rebar



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10/21/2024

[Signature]

DATE	REVISIONS

CARNEGIE WELL PAD AS BUILT SITE PLAN

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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



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



Horner Bros. Engineers
3100
Civil, Mining, Environmental and
Consulting Engineering
1000
Martinsburg, West Virginia, 26001
304-261-8440

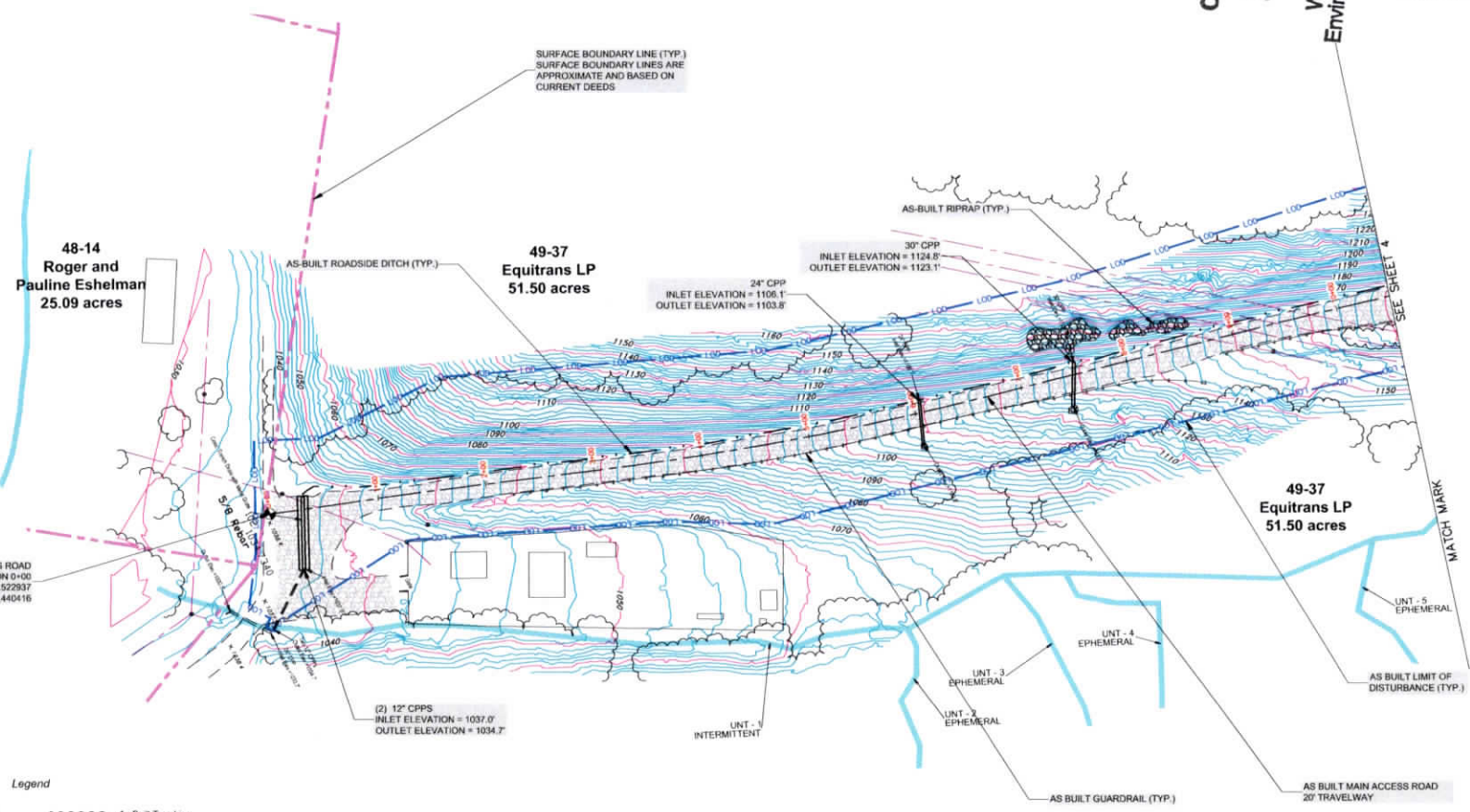
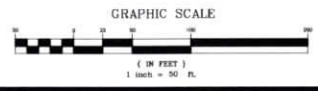


THIS DOCUMENT
PREPARED FOR
EQT PRODUCTION
COMPANY

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

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

DATE	REVISIONS



- 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

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

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

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

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

48-14
Roger and
Pauline Eshelman
25.09 acres

49-37
Equitrans LP
51.50 acres

49-37
Equitrans LP
51.50 acres

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

AS-BUILT ROADSIDE DITCH (TYP.)

AS-BUILT RIPRAP (TYP.)

SEE SHEET 4

MATCH MARK

AS BUILT LIMIT OF
DISTURBANCE (TYP.)

AS BUILT GUARDRAIL (TYP.)

AS BUILT MAIN ACCESS ROAD
20' TRAVELWAY

UNT - 1
INTERMITTENT

UNT - 3
EPHEMERAL

UNT - 4
EPHEMERAL

UNT - 5
EPHEMERAL

DATE PLOTTED: 10/21/2024 10:45 AM

CARNEGIE WELL PAD AS BUILT SITE PLAN

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Office of Oil and Gas
SEP 09 2024
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



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

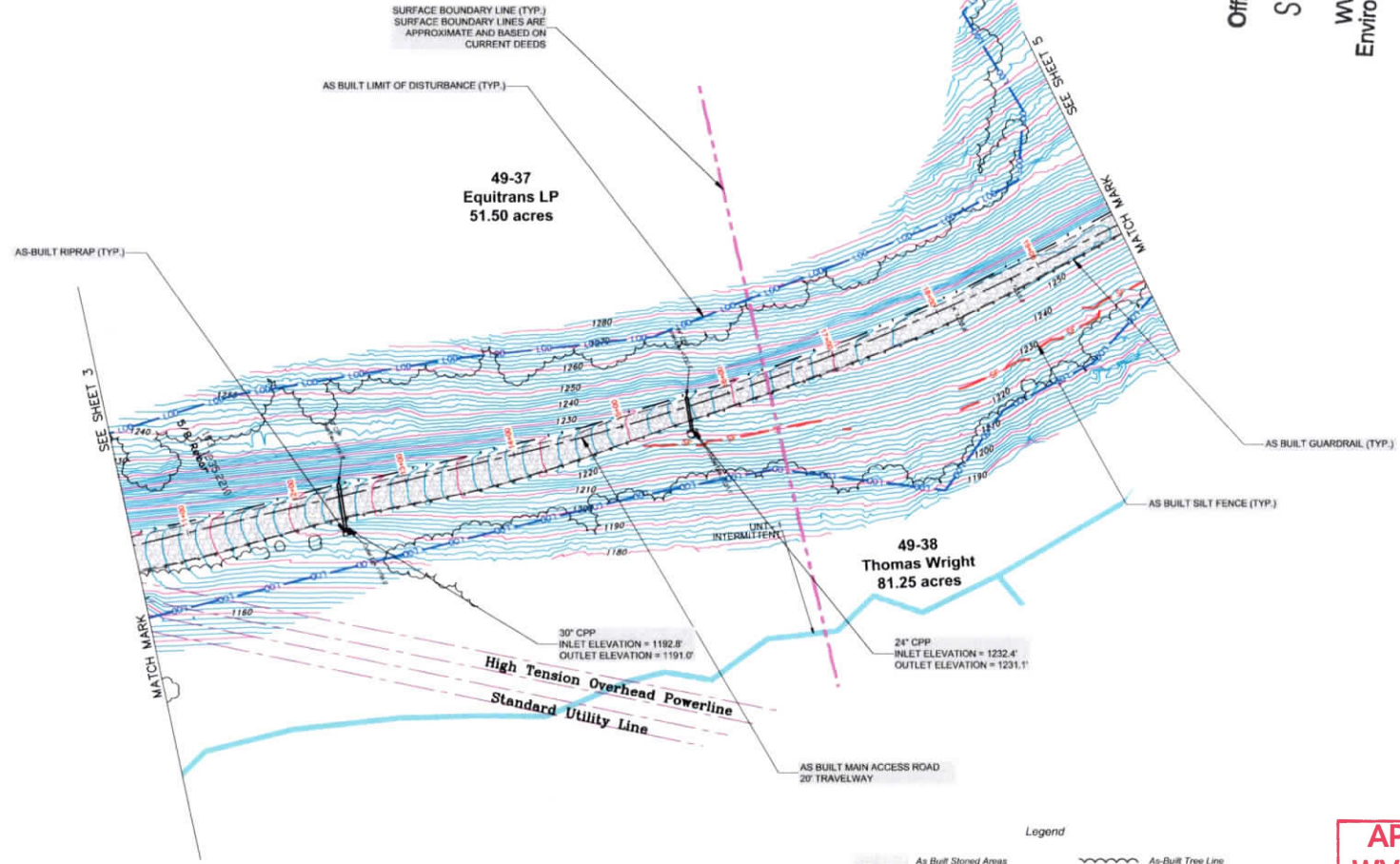


Hornor Bros. Engineers
Since 1962
Civil, Mining, Environmental and
Geotechnical Engineering
140 State Street, Suite 1000
Martinsburg, West Virginia, 26101 (304) 631-4444



THIS DOCUMENT PREPARED FOR EOT PRODUCTION COMPANY

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



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

AS BUILT LIMIT OF DISTURBANCE (TYP.)

49-37
Equitrans LP
51.50 acres

49-38
Thomas Wright
81.25 acres

30" CPP
INLET ELEVATION = 1192.8'
OUTLET ELEVATION = 1191.0'

24" CPP
INLET ELEVATION = 1232.4'
OUTLET ELEVATION = 1231.1'

High Tension Overhead Powerline
Standard Utility Line

AS BUILT MAIN ACCESS ROAD
20' TRAVELWAY

AS-BUILT RIPRAP (TYP.)

SEE SHEET 3

SEE SHEET 5

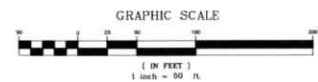
MATCH MARK

MATCH MARK

UNIT 1
INTERMITTENT

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 Silt Fence
- As Built Straw Wattle
- Limits of Disturbance (As-Built)
- As Built Ditch Line
- Surface Boundary Line



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10/21/2024

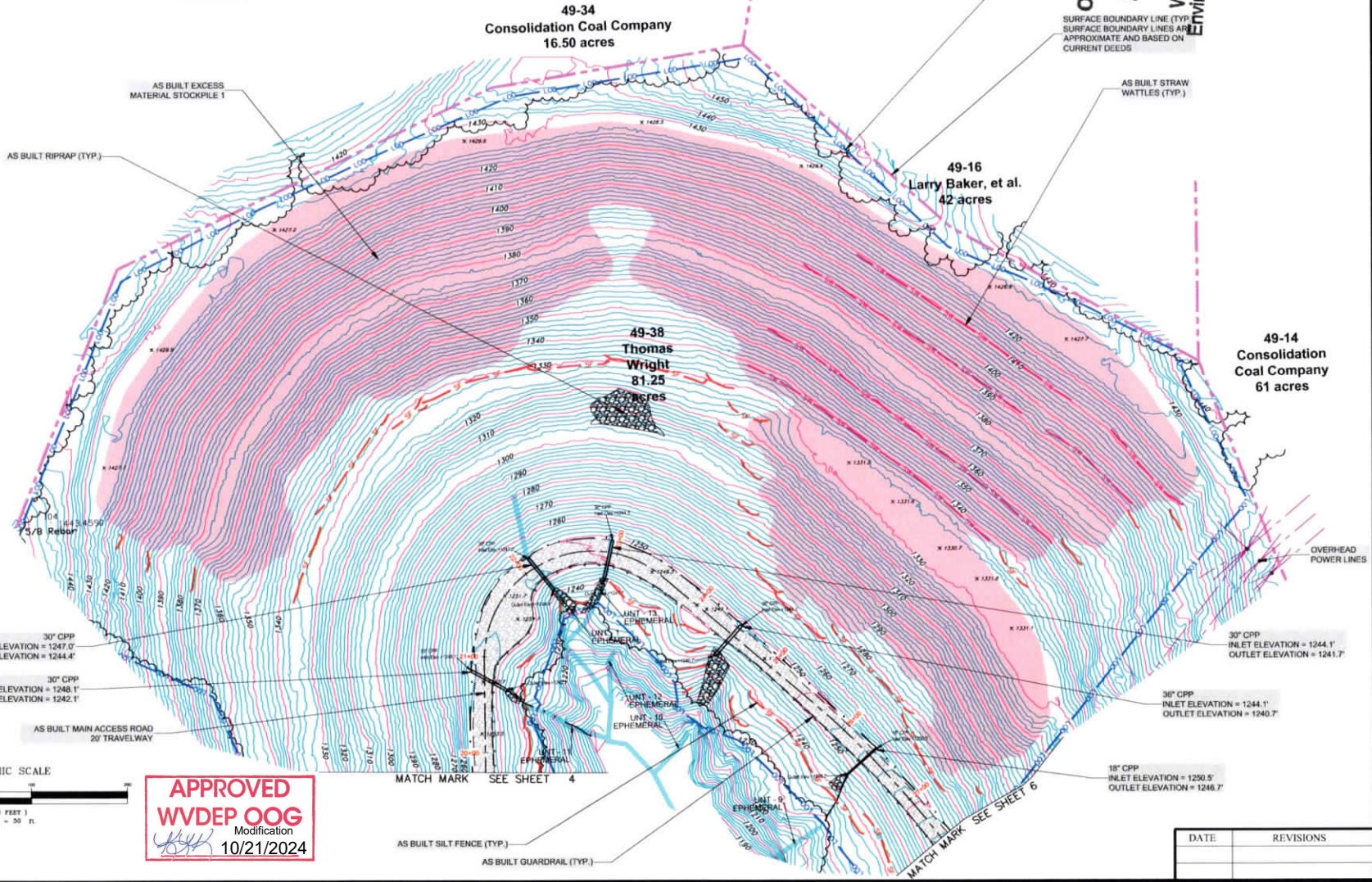
DATE	REVISIONS

Date: 9/5/2024
Scale: 1"=50'
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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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
Overseas, Inc. Reg. No. 303 (301) 54-844



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

Date: 9/5/2024
Scale: 1"=50'
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CARNEGIE WELL PAD AS BUILT SITE PLAN

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



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



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Civil, Mining, Environmental and
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1400 South 2nd Street, 4th Floor, Suite 404
Columbus, West Virginia, 26031 (304) 634-1444



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COMPANY

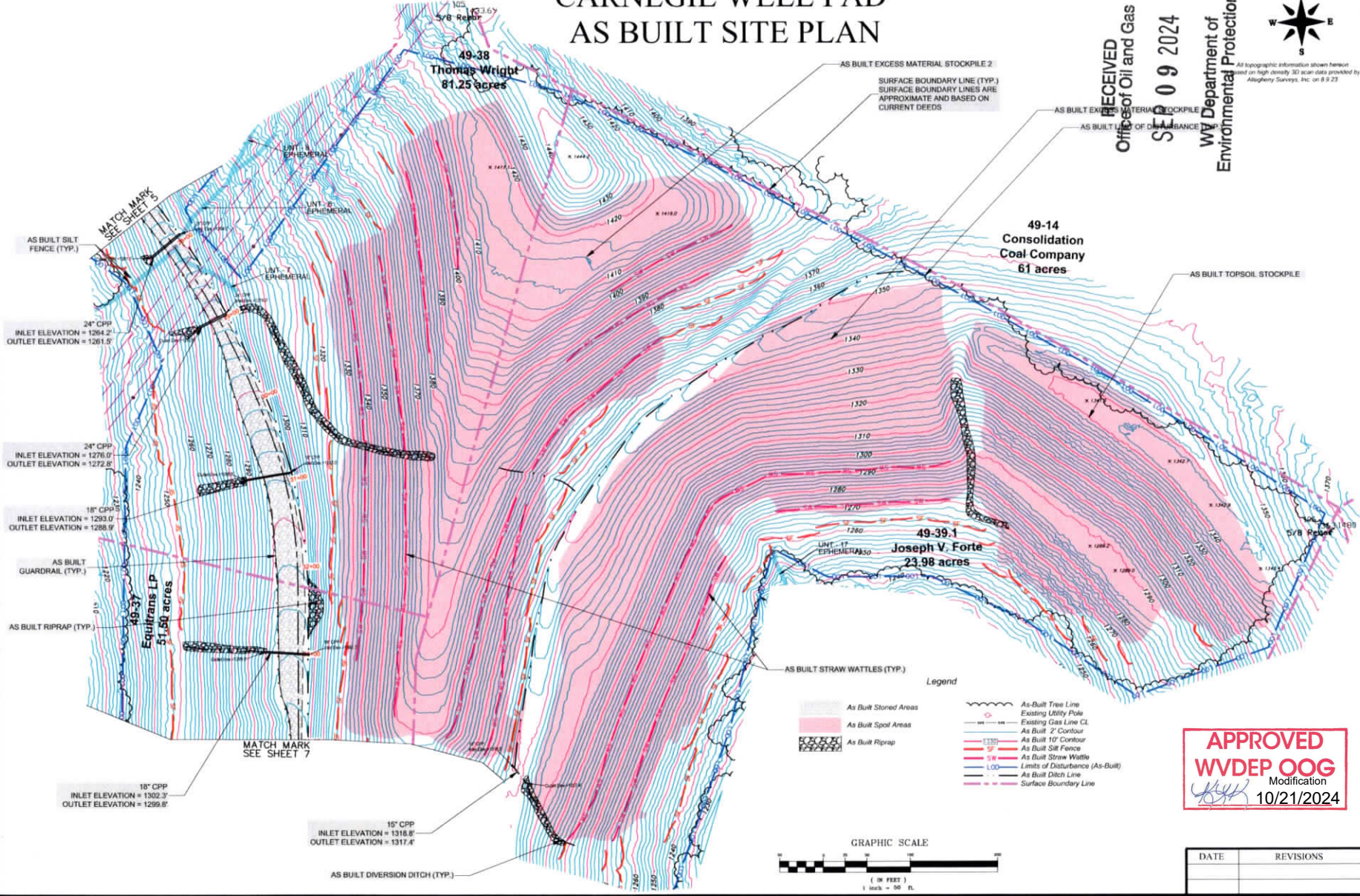
AS BUILT SITE PLAN
**CARNEGIE
MODIFIED WELL PAD SITE**
MANNINGTON DISTRICT
MARION COUNTY, WV

Date: 9/5/2024

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Page: 9 of 10



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CARNEGIE WELL PAD AS BUILT SITE PLAN

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WV Department of
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304-649-8606



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Professional Surveyors
1400 State Street, Ste. 1000
Martinsburg, West Virginia, 26001 (304) 631-4444



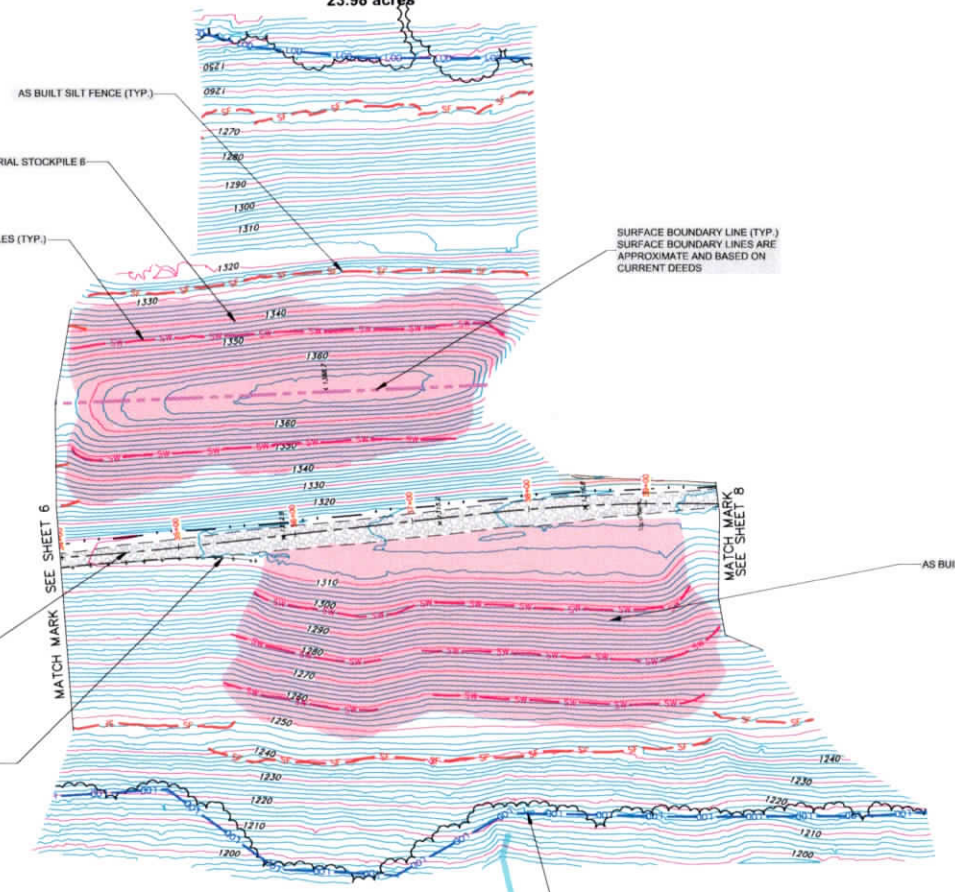
THIS DOCUMENT PREPARED FOR
EQT PRODUCTION COMPANY

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

Date: 9/5/2024
Scale: 1"=50'
Designed by: TMC

49-39.1
Joseph V. Forte
23.98 acres

49-37
Equitrans LP
51.50 acres



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

Legend

- As Built Storied 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

GRAPHIC SCALE



**APPROVED
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Modification

10/21/2024

DATE	REVISIONS

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Page: 7 of 10

CARNEGIE WELL PAD WELL PAD AST MODIFICATION PLAN

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237 Birch River Road
Birch River, WV 26610
304-649-8606



Joseph V. Forte
Professional Engineer
No. 1962
Civil, Mining, Environmental and
Surveying
1000 1st Street, Suite 100
Martinsburg, West Virginia, 26001 (304) 634-4443



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COMPANY

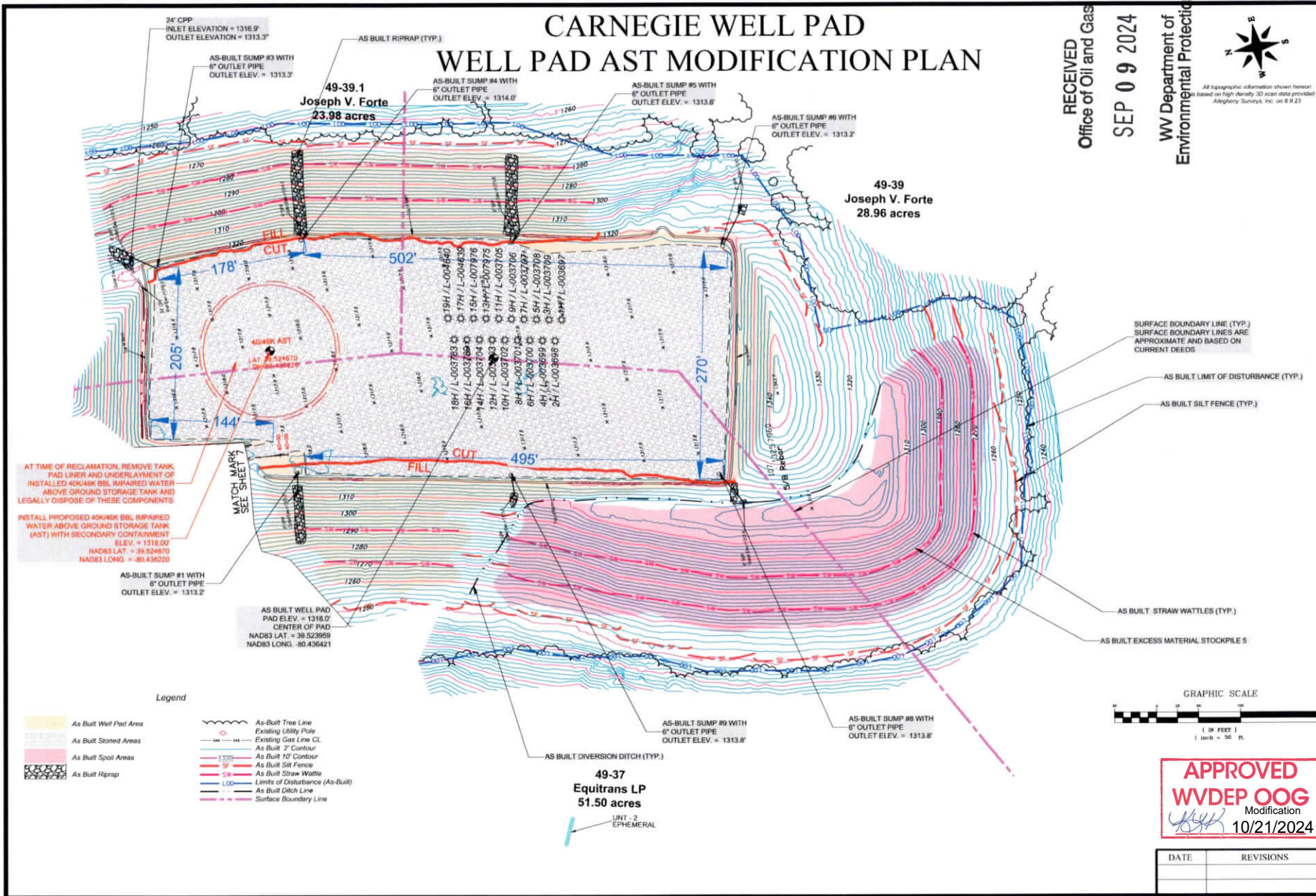
WELL PAD AST MODIFICATION PLAN
CARNEGIE
MODIFIED WELL PAD SITE
MANNINGTON DISTRICT
MARION COUNTY, WV

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

APPROVED
WVDEP OOG
Modification
10/21/2024

DATE	REVISIONS

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Page: 4 of 10



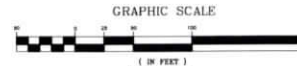
AT TIME OF RECLAMATION, REMOVE TANK, PAD LINER AND UNDERLAYMENT OF INSTALLED 40KMB BBL IMPAIRED WATER ABOVE GROUND STORAGE TANK AND LEGALLY DISPOSE OF THESE COMPONENTS

INSTALL PROPOSED 40KMB 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

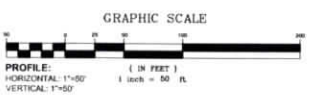
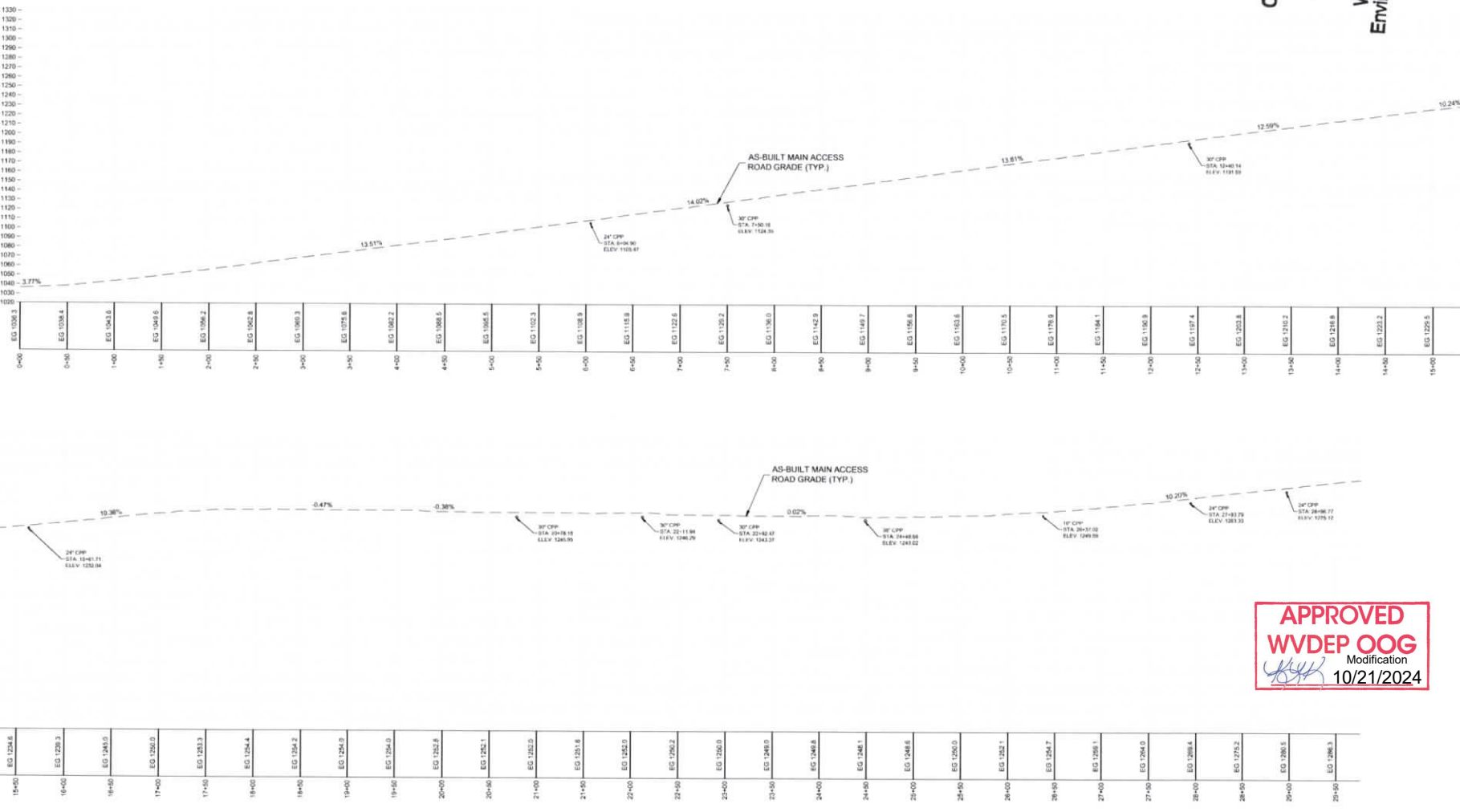
49-37
Equitrans LP
51.50 acres
UNIT - 2
EPHEMERAL



DATE PLOTTED: 09/12/2024 10:54:00 AM; PLOT SCALE: 1"=50.00 FT; PLOT SHEET: 01

CARNEGIE MODIFIED WELL PAD AS BUILT MAIN ACCESS ROAD PROFILE

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 WV Department of
 Environmental Protection



APPROVED
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 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

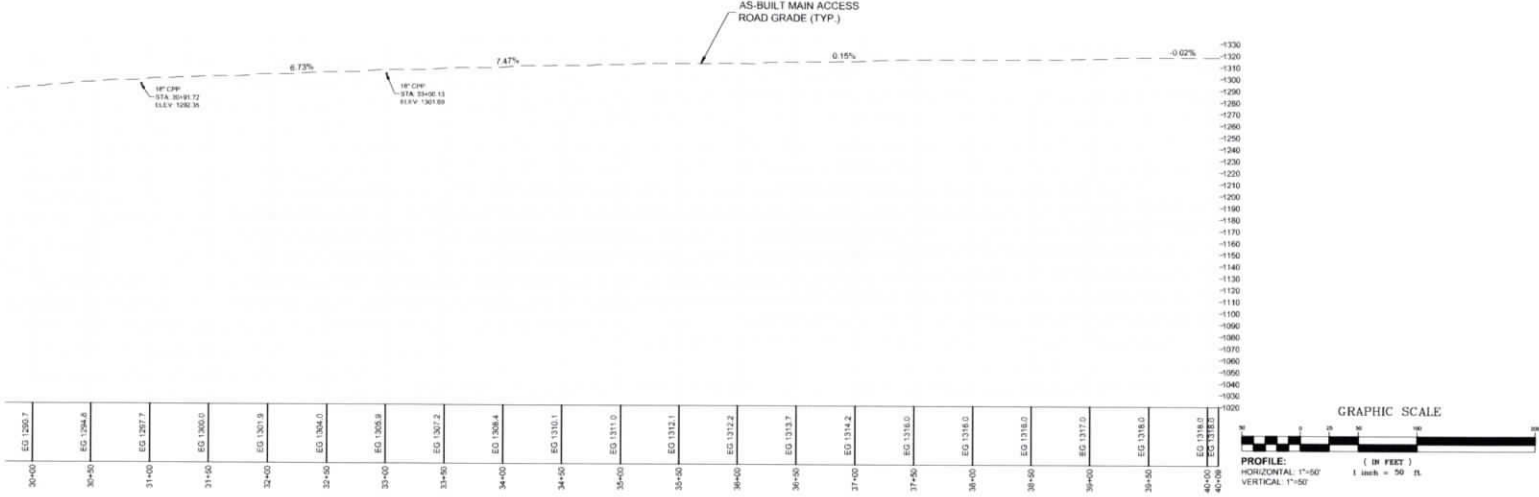
HORNOR
 Since 1936
 Bros. Engineers
 Environmental and
 Civil Engineers
 142 South 10th Street, Post Office Box 386
 Charleston, West Virginia, 25301 (304) 333-2344

EQT
 THIS DOCUMENT
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 EQT 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: JMK
 File No.:
 Page: 8 of 10

CARNEGIE MODIFIED WELL PAD AS BUILT MAIN ACCESS ROAD PROFILE



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Modification
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10/21/2024

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SEP 09 2024
 WV Department of
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P.O. Box 438
237 Birch River Road
Birch River, WV 26610
304-649-8606



Horner
Since 1902
Bros. Engineers
Civil, Mining, Environmental and
145 South 10th Street, P.O. Box 100
Chickadee, West Virginia, 26015-0100



THIS DOCUMENT
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EQT 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.: 24-0000000000
Page: 10 of 10