

### 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

### Friday, January 17, 2025 PERMIT MODIFICATION APPROVAL Horizontal 6A / New Drill

DIVERSIFIED PRODUCTION LLC 101 MCQUISTON DRIVE

JACKSON CENTER, PA 16133

Re:

Permit Modification Approval for Abbey South 4MH

47-033-06046-00-00

Extending Well Pad

### DIVERSIFIED PRODUCTION LLC

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: Abbey South 4MH

Farm Name: Long Ridge West Virginia LLC

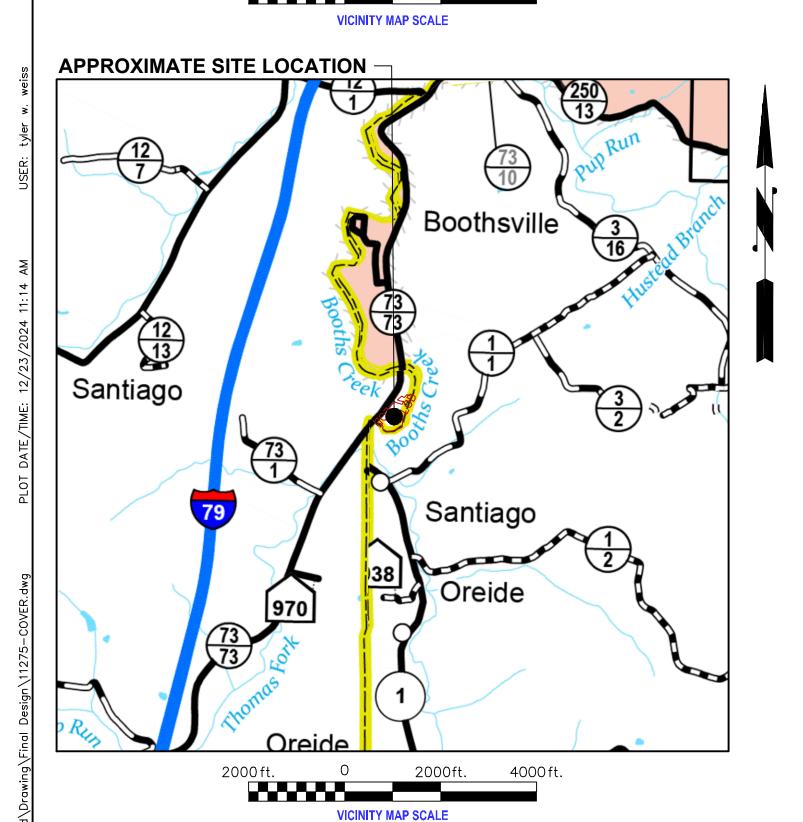
U.S. WELL NUMBER: 47-033-06046-00-00

Horizontal 6A New Drill

Date Modification Issued: 1/17/2025

Promoting a healthy environment.

# **APPROXIMATE SITE LOCATION —**



### WELL RESTRICTIONS CHECKLIST (HORIZONTAL 6A WELLS) AT LEAST 100 FEET FROM PAD AND LOD (INCLUDING ANY E&S CONTROL FEATURE) TO ANY PERENNIAL STREAM, LAKE, POND, RESERVOIR OR AT LEAST 300 FEET FROM PAD AND LOD (INCLUDING ANY E&S CONTROL FEATURE) TO ANY NATURALLY PRODUCING TROUT STREAM: AT LEAST 1000 FEET FROM PAD AND LOD (INCLUDING ANY E&S CONTROL FEATURE) TO ANY GROUND WATER INTAKE OR PUBLIC WATER AT LEAST 250 FEET FROM ANY EXISTING WATER WELL OR DEVELOPED SPRING TO WELL BEING DRILLED: YES AT LEAST 625 FEET FROM AN OCCUPIED DWELLING STRUCTURE TO CENTER OF PAD: YES AT LEAST 625 FEET FROM AGRICULTURAL BUILDINGS LARGER THAN 2500 SQAURE FEET TO THE CENTER OF PAD:

CONTRACTOR SHALL NOTIFY THE ONE-CALL SYSTEM OF THE INTENDED EXCAVATION OR DEMOLITION NOT LESS THAN FORTY-EIGHT (48) HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL FEDERAL OR STATE HOLIDAYS, NOR MORE THAN TEN (10) WORK DAYS PRIOR TO THE BEGINNING OF SUCH WORK. CALL811.COM/811-IN-YOUR-STATE

# **ABBEY WELL PAD** ISSUED FOR CONSTRUCTION PLANS T70-11275 HARRISON COUNTY, WEST VIRGINIA **DECEMBER 2024**

### **Disturbance Summary**

Duamantu Ouenan	(District Toy Man Dancel)	Access Road	Well Pad	Laydown Area	Stockpile	Total
Property Owner	(District - Tax Map - Parcel)	Disturbance (Ac.)				
WILLOW CREEK N	MHV LLC (17-5-210-44.2)	0.35	2.52	1.80	0.78	5.45
WILLOW CREEK N	MHV LLC (17-5-210-44.1)	0.00	0.00	0.00	0.53	0.53
Total	Disturbance	0.35	2.52	1.80	1.31	5.98

39 CATHERINE DRIVE SHINNSTON, WV 2643





DIVERSIFIED PRODUCTION, LLC PHONE: (304) 543-1779 101 McQUISTON DRIVE JACKSON CENTER, PA 16133

## CONTACTS

**CLIENT'S CONTACT** DIVERSIFIED PRODUCTION, LLC ATTN: JIM BOWER (412) 551-3585

BRIDGEPORT, WV OFFICE 600 WHITE OAKS BLVD. BRIDGEPORT, WV 26330

**ENGINEER** THE THRASHER GROUP ATTN: COLE ANDERSON, P.E. (304) 624-4108

# PLAN REPRODUCTION WARNING

(304) 624-4108

PO BOX 940

THESE PLANS ARE INTENDED TO BE PLOTTED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS, REFER TO GRAPHIC SCALE. THESE PLANS HAVE BEEN CREATED FOR FULL COLOR PLOTTING. ANY SET OF THESE PLANS THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES. \*\*WARNING\*\*: INFORMATION MAY BE LOST IN COPYING AND/OR GRAY SCALE PLOTTING.

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### SHEET INDEX

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Abbey Well Pad Well Head Coordinates							
Coordinate Label	2MH	4MH	6MH	8MH			
Latitude	N 39.373639°	N 39.373667°	N 39.373696°	N 39.373724°			
Longitude	W 80.201062°	W 80.201024°	W 80.200986°	W 80.200947°			
WV83-N Northing	318,976.473 ft	318,986.775 ft	318,996.963 ft	319,007.378 ft			
WV83-N Easting	1,770,317.364 ft	1,770,328.270 ft	1,770,339.053 ft	1,770,350.077 ft			
UTM 83-17 Northing	4,358,545.395 m	4,358,548.589 m	4,358,551.747 m	4,358,554.976 m			
UTM 83-17 Easting	568,816.540 m	568,819.810 m	568,823.044 m	568,826.350 m			

**DETAILS** 

	Abbey Well Pad Site Coordinates							
Coordinate Label	Access Road	Well Pad Center	Well Pad N	Well Pad NE	Well Pad SE	Well Pad SW	Well Pad NW	
coordinate Easer	Beginning	Wenrad center	Corner	Corner	Corner	Corner	Corner	
Latitude	N 39.373609°	N 39.373601°	N 39.373988°	N 39.373788°	N 39.373422°	N 39.373222°	N 39.373547°	
Longitude	W 80.201663°	W 80.200808°	W 80.200725°	W 80.200150°	W 80.200340°	W 80.201280°	W 80.201436°	
WV83-N Northing	318,966.860 ft	318,962.143 ft	319,103.067 ft	319,028.748 ft	318,895.827 ft	318,825.258 ft	318,943.849 ft	
WV83-N Easting	1,770,147.360 ft	1,770,389.115 ft	1,770,413.762 ft	1,770,575.610 ft	1,770,520.953 ft	1,770,254.547 ft	1,770,211.489 ft	
UTM 83-17 Northing	4,358,541.603 m	4,358,541.393 m	4,358,584.453 m	4,358,562.631 m	4,358,521.857 m	4,358,499.005 m	4,358,534.918 m	
UTM 83-17 Easting	568.764.794 m	568.838.473 m	568.845.267 m	568.894.954 m	568,878.976 m	568.798.169 m	568,784.449 m	

REVISION NUMBER	REVISED SHEETS	BY	DATE	DESCRIPTION
IFC1	6,7,11-15,17,18	DMP	12.20.2024	EXPANDED WELL PAD

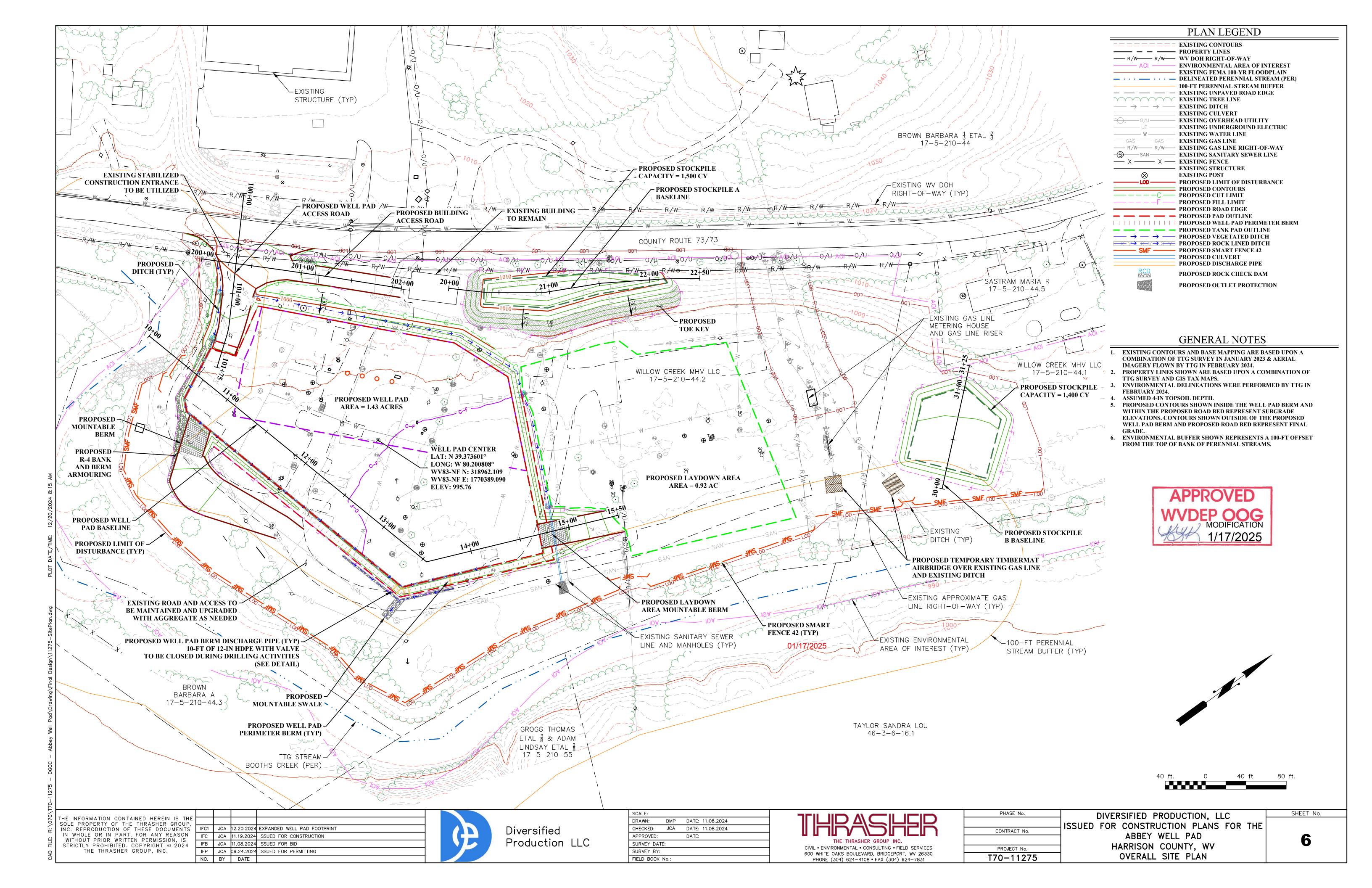


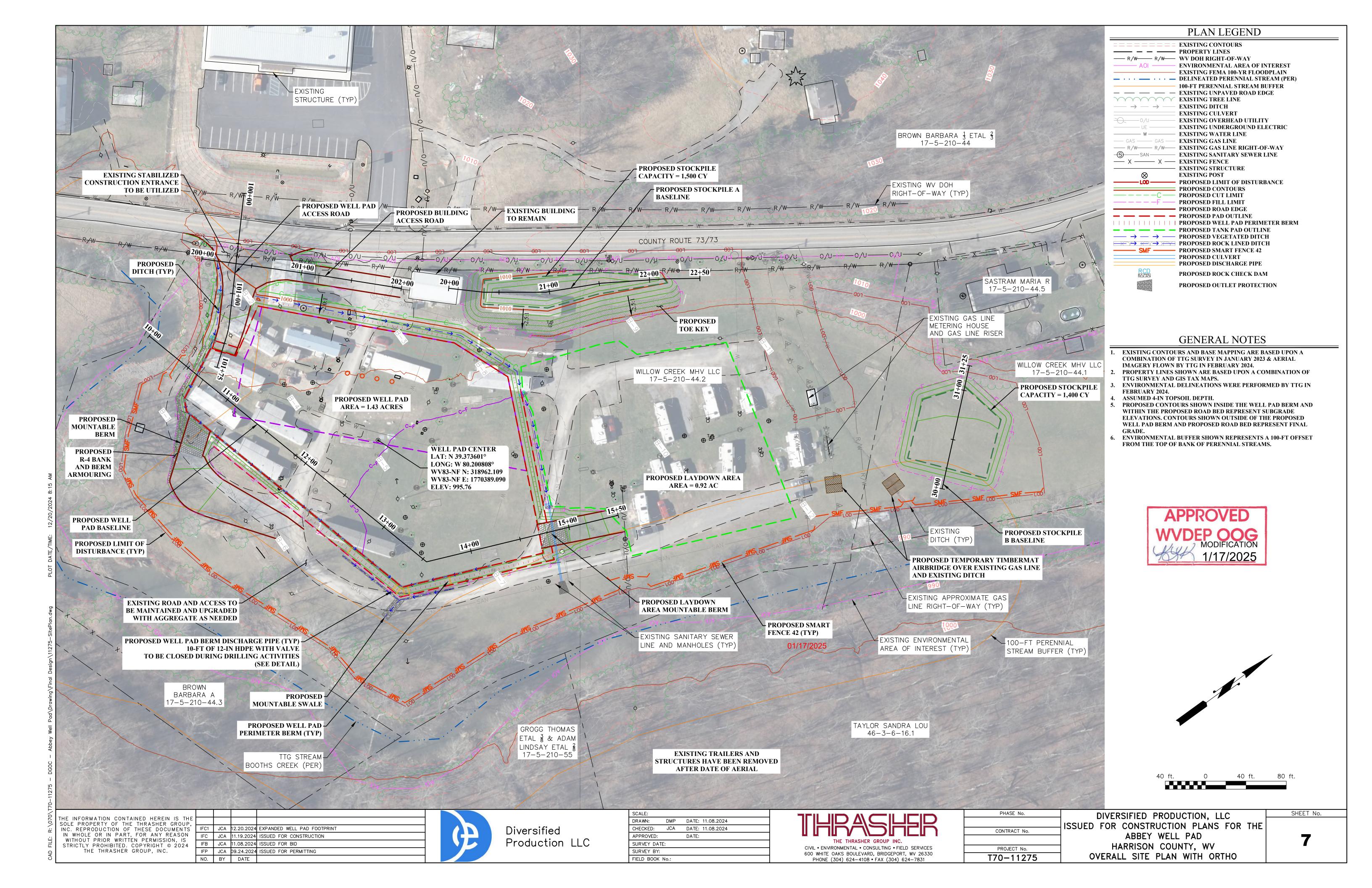
### JAMES C. ANDERSON, WV P.E. #25316

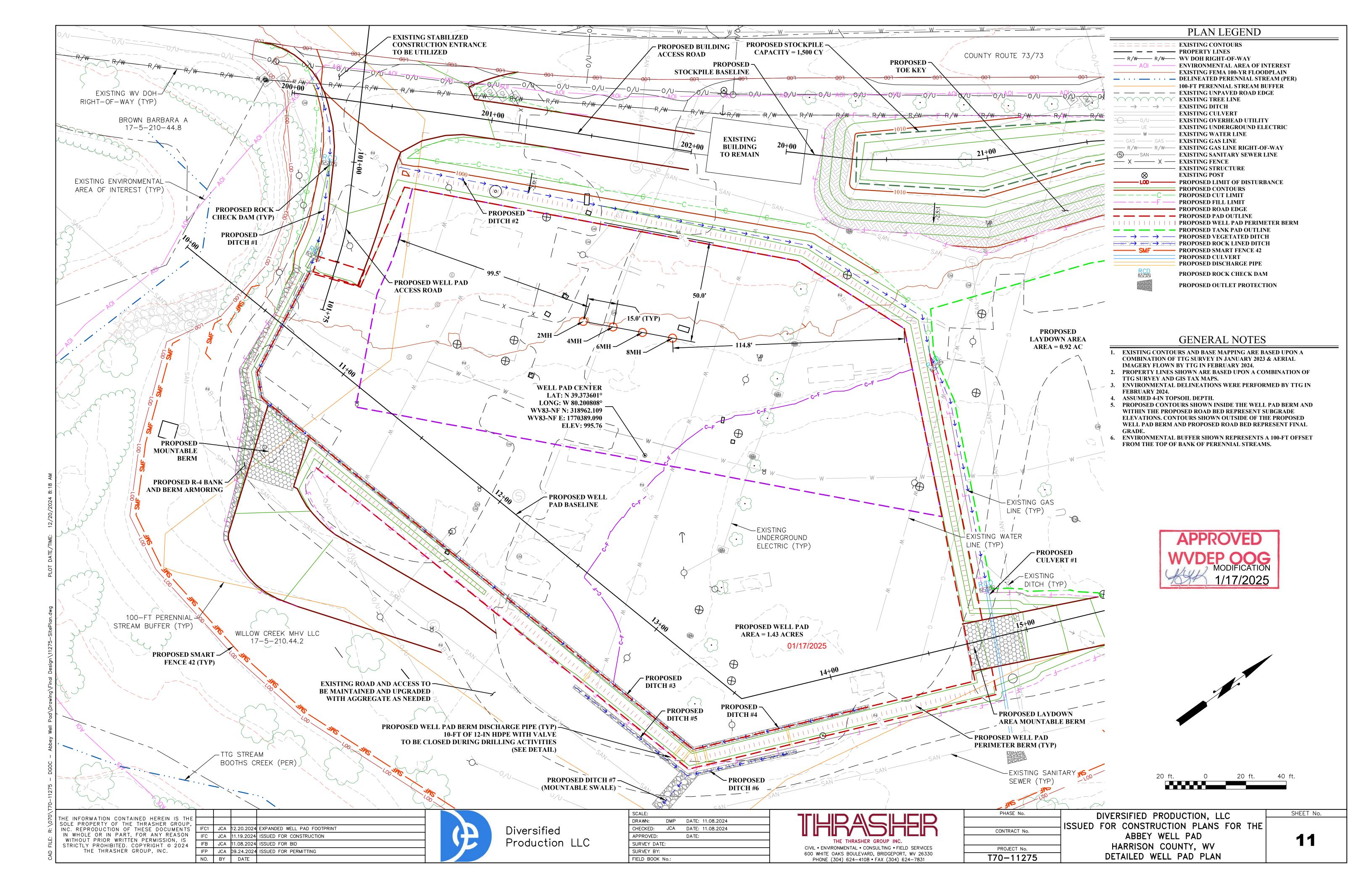
ISSUED FOR PERMITS	DATE: <u>09.24.2024</u>	BY: _	JCA
ISSUED FOR BID	DATE: 11.08.2024	BY:	JCA

ISSUED FOR CONSTRUCTION

DATE: 11.19.2024





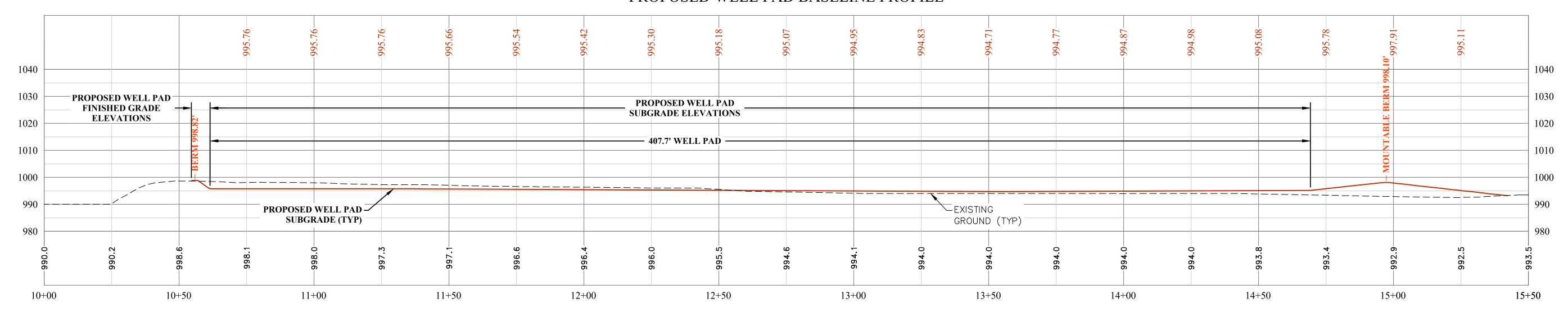


----- EXISTING GROUND
PROPOSED GRADE
PROPOSED CULVERT

**GENERAL NOTES** 

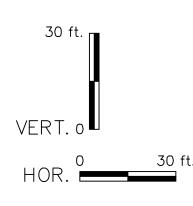
1. PROPOSED CONTOURS SHOWN INSIDE THE WELL PAD BERM AND WITHIN THE PROPOSED ROAD BED REPRESENT SUBGRADE ELEVATIONS. CONTOURS SHOWN OUTSIDE OF THE PROPOSED WELL PAD BERM AND PROPOSED ROAD BED REPRESENT FINAL GRADE.

# PROPOSED WELL PAD BASELINE PROFILE



01/17/2025





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21	JCA	12.20.2024	EXPANDED WELL PAD FOOTPRINT			Diversified
C	JCA	11.19.2024	ISSUED FOR CONSTRUCTION			
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SCALE:		
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CHECKED:	JCA	DATE: 11.08.2024
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SURVEY BY:		
FIELD BOOK	No.:	

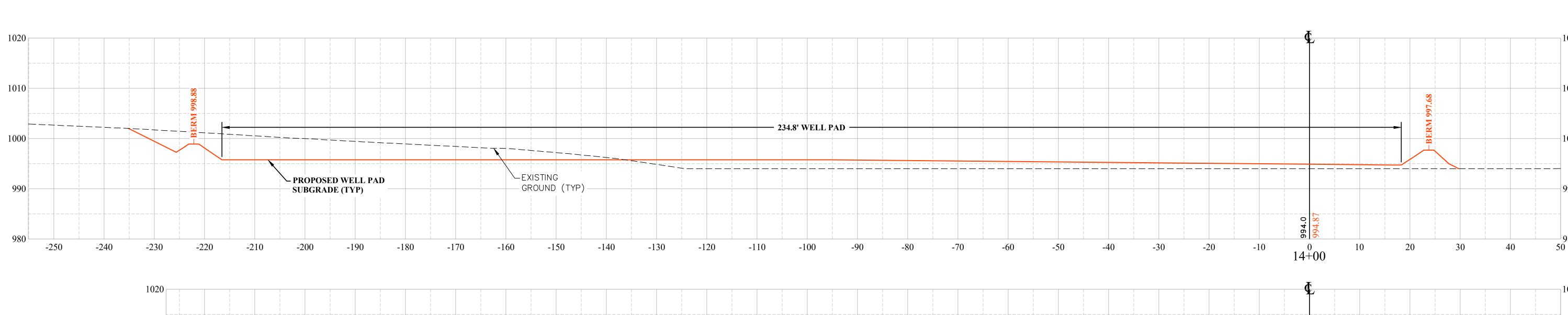
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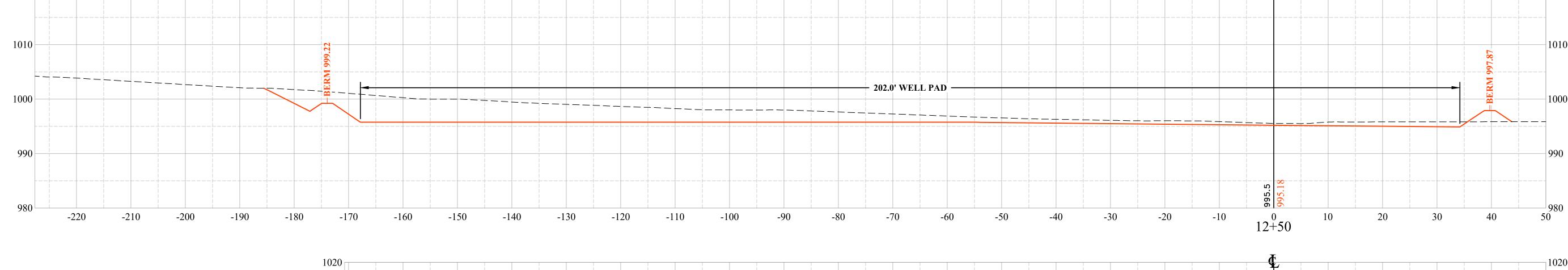
PHASE No.	DIVERSIFIED PRODUCTION, LLC
	ISSUED FOR CONSTRUCTION PLANS FOR THE
CONTRACT No.	
	ABBEY WELL PAD
	LADDISON COLINITY W//
PROJECT No.	HARRISON COUNTY, WV
T70-11275	WELL PAD BASELINE

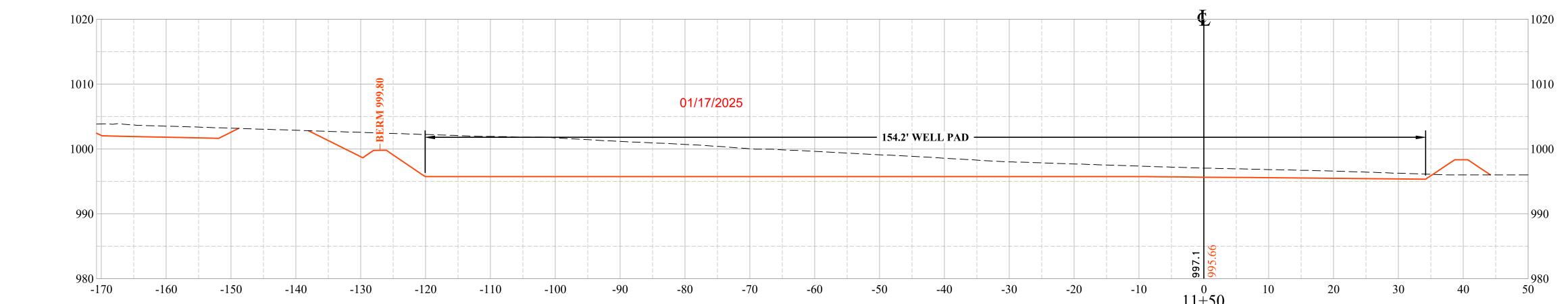
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SECTION LEGEND ---- EXISTING GROUND - PROPOSED GRADE GENERAL NOTES 1. PROPOSED CONTOURS SHOWN INSIDE THE WELL PAD BERM AND WITHIN THE PROPOSED ROAD BED REPRESENT SUBGRADE ELEVATIONS. CONTOURS SHOWN OUTSIDE OF THE PROPOSED WELL PAD BERM AND PROPOSED ROAD BED REPRESENT FINAL GRADE. 14 + 0012+50 11<del>+</del>50 SHEET No. PHASE No. DIVERSIFIED PRODUCTION, LLC ISSUED FOR CONSTRUCTION PLANS FOR THE CONTRACT No. ABBEY WELL PAD **13** HARRISON COUNTY, WV PROJECT No. WELL PAD SECTIONS T70-11275









APPROVED
WVDEP OG
MODIFICATION
1/17/2025

IFC1 | JCA | 12.20.2024 EXPANDED WELL PAD FOOTPRINT

IFC JCA 11.19.2024 ISSUED FOR CONSTRUCTION

IFP JCA 09.24.2024 ISSUED FOR PERMITTING

IFB JCA 11.08.2024 ISSUED FOR BID

NO. BY DATE

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Diversified Production LLC

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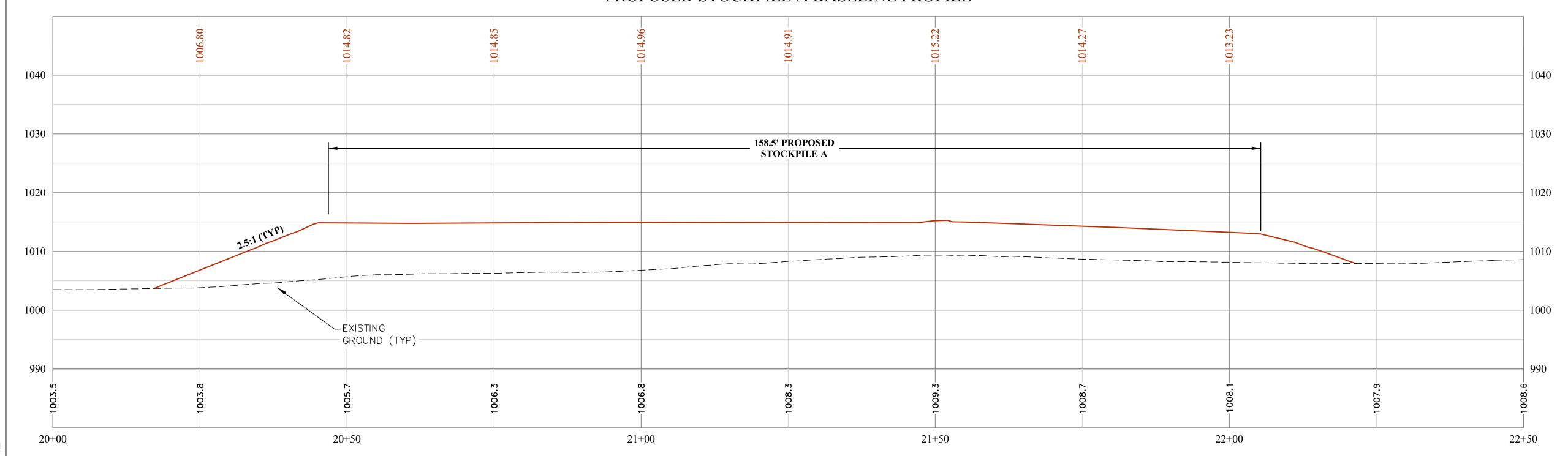
### PROFILE LEGEND

----- EXISTING GROUND
PROPOSED GRADE
PROPOSED CULVERT

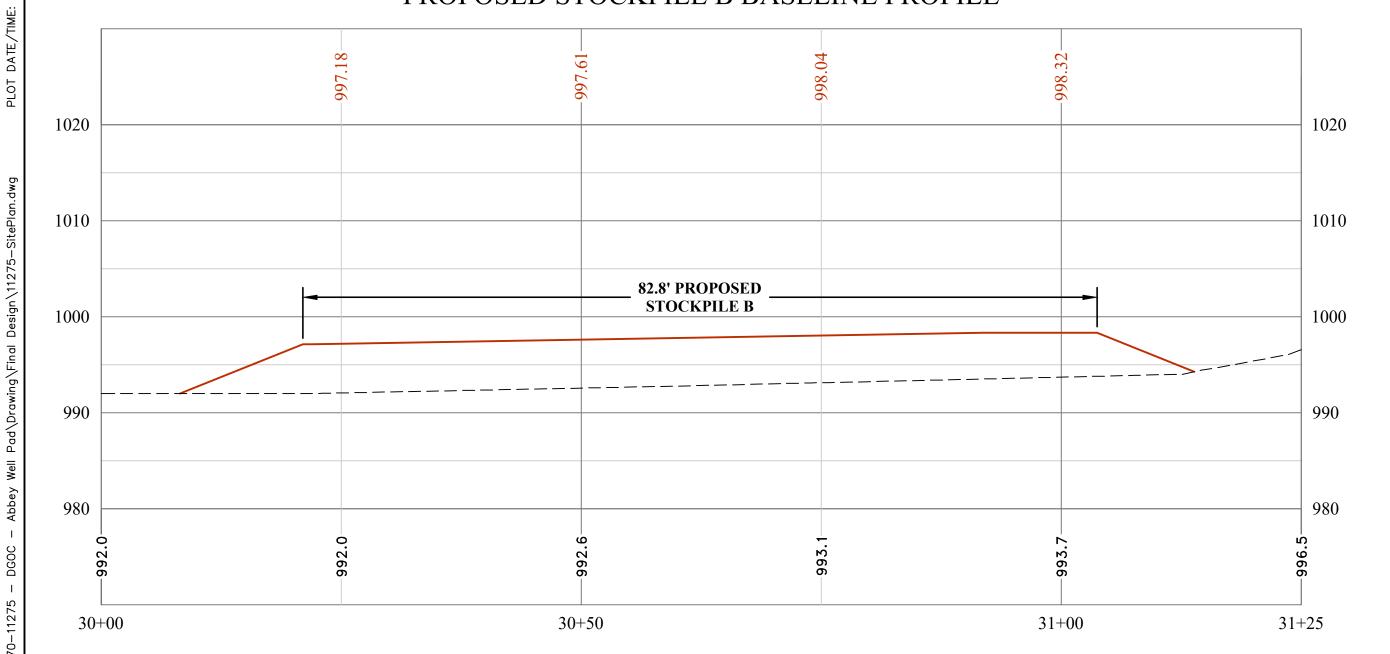
### GENERAL NOTES

1. PROPOSED CONTOURS SHOWN INSIDE THE WELL PAD BERM AND WITHIN THE PROPOSED ROAD BED REPRESENT SUBGRADE ELEVATIONS. CONTOURS SHOWN OUTSIDE OF THE PROPOSED WELL PAD BERM AND PROPOSED ROAD BED REPRESENT FINAL GRADE.

# PROPOSED STOCKPILE A BASELINE PROFILE



# PROPOSED STOCKPILE B BASELINE PROFILE



01/17/2025

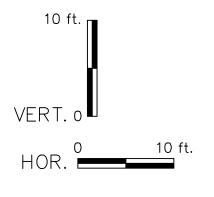


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 DMP
 DATE: 11.08.2024

 CHECKED:
 JCA
 DATE: 11.08.2024

APPROVED:

SURVEY DATE:
SURVEY BY:
FIELD BOOK No.:



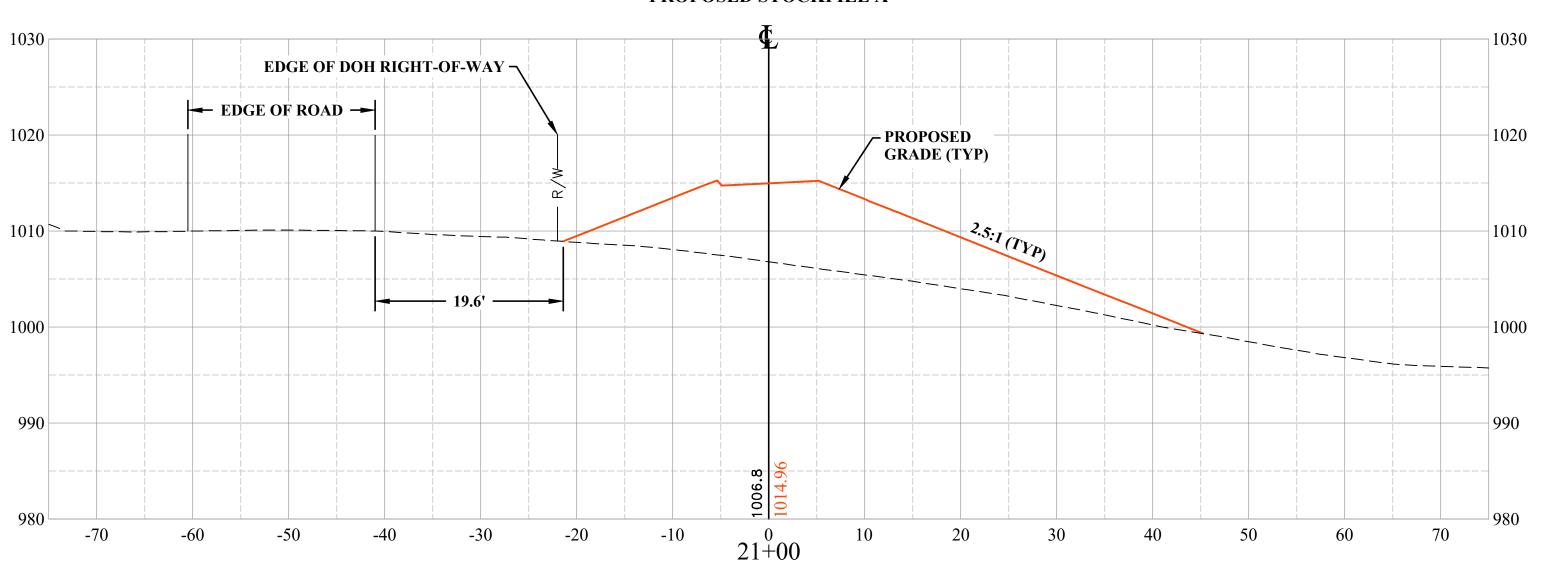
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THE THRASHER GROUP, INC.	IFP	JCA	09.24.2024	ISSUED FOR PERMITTING	1		
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	Diversified	
レレ	Production LLC	

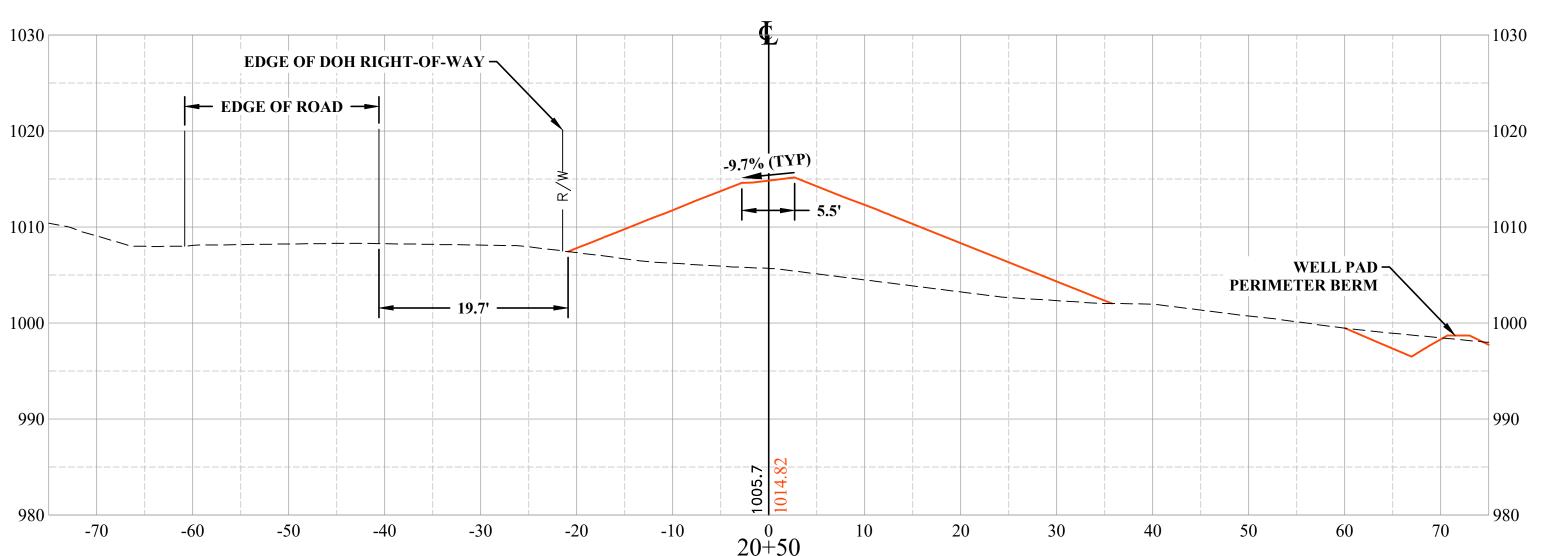
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	ABBEY WELL PAD
PROJECT No.	HARRISON COUNTY, WV
T70-11275	STOCKPILE BASELINES

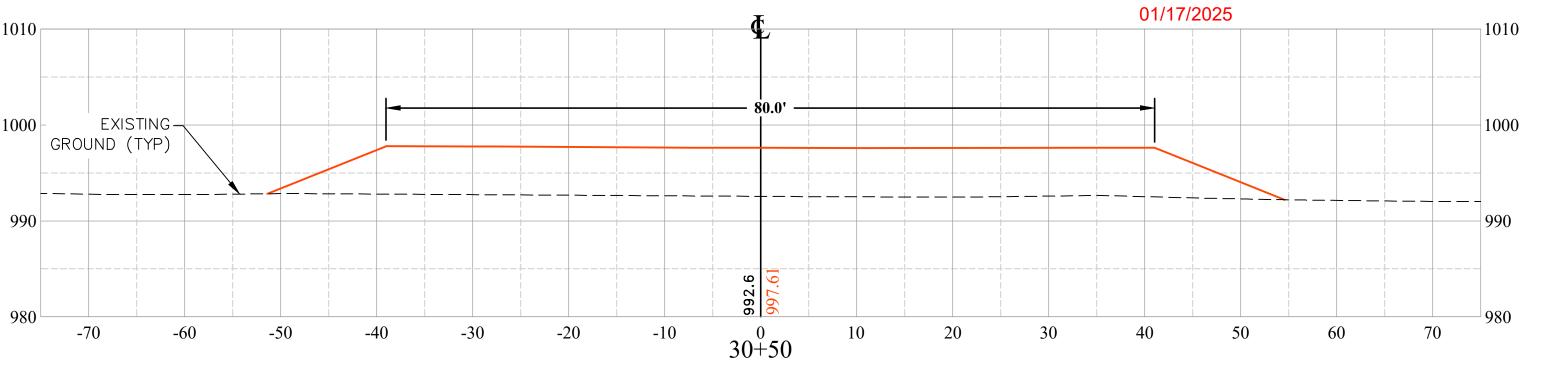
PROPOSED STOCKPILE A



PROPOSED STOCKPILE A







5 ft. VERT. o

SECTION LEGEND

- PROPOSED GRADE

GENERAL NOTES

PROPOSED CONTOURS SHOWN INSIDE THE WELL PAD BERM AND

WELL PAD BERM AND PROPOSED ROAD BED REPRESENT FINAL

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---- EXISTING GROUND

GRADE.

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SCALE:			
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APPROVED:		DATE:	
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SURVEY BY:			İ
FIELD BOOK	No.:		İ

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CONTRACT No.	
	ABBEY WELL PAD
PROJECT No.	HARRISON COUNTY, WV
T70-11275	STOCKPILE SECTIONS

**15** 

SHEET No.

PLAN LEGEND — — — PROPERTY LINES ——— LOD—— PROPOSED LIMIT OF DISTURBANCE — — — PROPOSED EDGE OF WELL PAD PROPOSED WELL PAD BERM PROPOSED ROAD EDGE — — PROPOSED EDGE OF TOPSOIL STOCKPILE BROWN BARBARA 1 ETAL 2 17-5-210-44 **NOTES** 1. ALL COORDINATES ARE IN NAD83, WEST VIRGINIA STATE PLANES, NORTH ZONE, US FOOT. 2. THRASHER WILL ESTABLISH PROJECT CONTROL PRIOR TO CONSTRUCTION. PROPOSED WELL PAD WELL PAD CORNER **ACCESS ROAD CENTERLINE** LAT: N 39.373547° LONG: W 80.201436° WV83-NF N: 318943.849 ~ PROPOSED BUILDING ~ PROPOSED STOCKPILE A WV83-NF E: 1770211.489 ACCESS ROAD CENTERLINE **BASELINE** ELEV: 996.09 -200+00<del>-</del> WELL PAD CORNER LAT: N 39.373374° LONG: W 80.201415° SASTRAM MARIA R WV83-NF N: 318880.915 17-5-210-44.5 WV83-NF E: 1770216.990 ELEV: 996.09 WELL PAD CORNER WELL PAD CORNER / 💢 LAT: N 39.373419° LAT: N 39.373237° LONG: W 80.201338° LONG: W 80.201322° WV83-NF N: 318897.072 WV83-NF N: 318830.829 WV83-NF E: 1770238.693 WV83-NF E: 1770242.874 WILLOW CREEK MHV LLC ELEV: 996.09 ELEV: 996.09 17-5-210-44.1 WELL PAD CORNER WELL PAD CORNER LAT: N 39.373988° LAT: N 39.373924° LONG: W 80.200725° ~ PROPOSED WELL LONG: W 80.200930° WV83-NF N: 319103.067 PAD BASELINE WV83-NF N: 319079.939 WV83-NF E: 1770413.762 WV83-NF E: 1770355.527 ELEV: 996.09 ELEV: 996.09 ~ PROPOSED WELL PAD PERIMETER BERM (TYP) PROPOSED LAYDOWN AREA PROPOSED WELL PAD AREA = 0.92 ACAREA = 1.43 ACRESWILLOW CREEK MHV LLC 17-5-210-44.2 WELL PAD CORNER - PROPOSED STOCKPILE B LAT: N 39.373222° BASELINE LONG: W 80.201280° WV83-NF N: 318825.258 WV83-NF E: 1770254.547 **ELEV: 996.05** WELL PAD CORNER LAT: N 39.373422° LONG: W 80.200340° WV83-NF N: 318895.827 WV83-NF E: 1770520.953 ELEV: 994.73 WELL PAD CORNER LAT: N 39.373788° LONG: W 80.200150° WV83-NF N: 319028.748 WV83-NF E: 1770575.610 **ELEV: 995.32** - PROPOSED LIMIT OF 01/17/2025 **DISTURBANCE (TYP)** BROWN BARBARA A 17-5-210-44.3 TAYLOR SANDRA LOU GROGG THOMAS 46-3-6-16.1 ETAL 🖁 & ADAM LINDSAY ETAL  $\frac{2}{8}$  17-5-210-55 SHEET No. PHASE No. DIVERSIFIED PRODUCTION, LLC THE INFORMATION CONTAINED HEREIN IS THE SOLE PROPERTY OF THE THRASHER GROUP, INC. REPRODUCTION OF THESE DOCUMENTS DRAWN: DMP DATE: 11.08.2024 ISSUED FOR CONSTRUCTION PLANS FOR THE Diversified CHECKED: JCA DATE: 11.08.2024 IFC1 JCA 12.20.2024 EXPANDED WELL PAD FOOTPRINT CONTRACT No. IN WHOLE OR IN PART, FOR ANY REASON WITHOUT PRIOR WRITTEN PERMISSION, IS STRICTLY PROHIBITED. COPYRIGHT © 2024 THE THRASHER GROUP, INC. ABBEY WELL PAD IFC JCA 11.19.2024 ISSUED FOR CONSTRUCTION APPROVED: **17** Production LLC IFB JCA 11.08.2024 ISSUED FOR BID SURVEY DATE: HARRISON COUNTY, WV CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES PROJECT No. IFP JCA 09.24.2024 ISSUED FOR PERMITTING SURVEY BY: 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330 PHONE (304) 624-4108 • FAX (304) 624-7831 OVERALL GEOMETRIC LAYOUT T70-11275 FIELD BOOK No.: NO. BY DATE

	BUILDING ACCESS ROAD															
No.	No. Type Start Station End Station Length Direction Start Point (WV83-N E,N)		End Point (WV83-N E,N)	PI Station	PI Point	Degree of Curvature by ARC Dc	Delta Angle Δ	Radius R	External Tangent T	Chord Length LC	External Secant E	Mid- Ordinated M				
1	Line	200+00.00'	200+77.16'	77.165'	N 43° 45′ 10.43″ E	1770140.9227',318926.2679'	1770194.2858',318982.0061'									
2	Curve	200+77.16'	201+26.95'	49.790'		1770194.2858',318982.0061'	1770229.1186',319017.5810'	201+02.06'	1770211.5025',318999.9891'	2°35'02"	1°17'11"	2217.426'	24.896'	49.788'	0.140'	0.14
3	Line	201+26.95'	202+00.00'	73.046'	N 45° 02' 21.85" E	1770229.1186',319017.5810'	1770280.8054',319069.1967'									

	WELL PAD BASELINE												
No.	No. Type Start Station End Station			Length (L)	Direction	Start Point (WV83-N E,N)	End Point (WV83-N E,N)						
1	Line	10+00.00'	13+54.57'	354.572'	N 75° 09′ 48.49″ E	1770171.9939',318839.2564'	1770514.7446',318930.0489'						
2	Line	13+54.57'	15+50.00	195.428	N 22° 21′ 09.19" E	1770514.7446',318930.0489'	1770589.0667',319110.7928'						

	STOCKPILE A BASELINE											
No.	Туре	Start Station	End Station	Length (L)	Direction	Start Point (WV83-N E,N)	End Point (WV83-N E,N)					
1	Line	20+00.00'	20+32.84'	32.836'	N 44° 26′ 02.65″ E	1770317.7688',319098.3734'	1770340.7567',319121.8200'					
2	Line	20+32.84'	21+37.49'	104.656'	N 29° 10′ 03.55″ E	1770340.7567',319121.8200'	1770391.7626',319213.2055'					
3	Line	21+37.49'	21+68.43'	30.937'	N 30° 23′ 44.09″ E	1770391.7626',319213.2055'	1770407.4156',319239.8900'					
4	Line	21+68.43'	21+89.60'	21.175'	N 32° 26′ 31.03″ E	1770407.4156',319239.8900'	1770418.7751',319257.7608'					
5	Line	21+89.60'	22+14.30'	24.695'	N 32° 27′ 11.99″ E	1770418.7751',319257.7608'	1770432.0267',319278.5991'					
6	Line	22+14.30'	22+50.00'	35.700'	N 30° 12′ 22.01″ E	1770432.0267',319278.5991'	1770449.9878',319309.4518'					

	STOCKPILE B BASELINE										
No.	Type	Start Station	<b>End Station</b>	Length (L)	Direction	Start Point (WV83-N E,N)	End Point (WV83-N E,N)				
1	Line	30+00.00'	31+25.00'	125.000'	N 41° 31' 50.25" W	1770756.650 <b>9',13'193'820065</b> 0'	1770673.7734',319479.6382'				

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IFC1 JCA 12.20.2024 EXPANDED WELL PAD FOOTPRINT IFC JCA 11.19.2024 ISSUED FOR CONSTRUCTION IFB JCA 11.08.2024 ISSUED FOR BID IFP JCA 09.24.2024 ISSUED FOR PERMITTING NO. BY DATE



SCALE:			
DRAWN:	DMP	DATE: 11.08.2024	
CHECKED:	JCA	DATE: 11.08.2024	
APPROVED:		DATE:	
SURVEY DAT	E:		
SURVEY BY:			

FIELD BOOK No.:



DIVERSIFIE	PHASE No.
ISSUED FOR CON	CONTRACT No.
-l ABE	CONTRACT NO.
† HARRIS	PROJECT No.
] GEOMETR	T70-11275
	1/0 112/0

TIED PRODUCTION, LLC INSTRUCTION PLANS FOR THE BBEY WELL PAD RISON COUNTY, WV GEOMETRIC LAYOUT TABLES