

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

August 06, 2012

WELL WORK PERMIT Horizontal 6A Well

This permit, API Well Number: 47-3305651, issued to ANTERO RESOURCES APPALACHIAN CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: CLETA UNIT 2H

Farm Name: KOVAR, STEVE C. JR.

API Well Number: 47-3305651

Permit Type: Horizontal 6A Well

Date Issued: 08/06/2012

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. When compacting fills, each lift before compaction shall not be more than 12 inches in height. After compaction each lift must pass a 95 % compaction based on test results from the standard proctor density test of the actual soils used in specific engineered fill sites. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 3. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.

WW - 6B (1/12) 6/14/12

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

					T	,	
Well Opera	itor: Antero Re	sources Appalachia	n Corporation	494488557	033- Harrison	Union	Big Isaac
-1	-			Operator ID	County	District	Quadrangle
Operator's	Well Number	Cleta Unit 21	I V		Well Pad Nan	ne: Corder East	<u> </u>
Elevation o	current ground	d: ~1420'	E	evation, proposed	post-constru	ction:	1405'
Dio valion, v	Join Brown		7	, rope	F		
Well Type:	(a) Gas Other	<u> </u>	Oil				
	(b) If Gas:	Shallow		Deep		12	
	(0) 11 040.	Horizontal					
Existing Pa	id? Yes or No	: No					
•							
				ted Thicknesses a	nd Associated	l Pressure(s):	
Marcellus Shale:	7,700' TVD, Anticipa	ated Thickness- 50' fe	et, Associated Pre	ssure- 3,200#			
				8			
Proposed T	otal Vertical	Denth: 7	700' TVD				
•	at Total Verti		Marcellus Sha	e			
	otal Measure	-	16,800' MD				
	nate Fresh Wa	•		55', 85', 128 ', 165', 260', 41	0', 500', 540'		
, ,,	Determine F	-	_	Offset well records	- A		
	nate Saltwater		630', 850', 1290		/		
	nate Coal Sea			'0', 778', 855', 1455'			
				, karst, other):	None anticipa	ted	
				nt to, active mine	? No		
•	proposed wel			cture a new horizontal shal		te Marcellus Shale	
, , , , , , , , , , , , , , , , , , , ,	propulation () or						
*Antero will be a	ir drilling the fresh wa	ater string which make	es it difficult to dete	rmine when freshwater is er	countered, therefore	we have built in a buf	fer for the casing
setting depth wh	nich helps to ensure t	hat all fresh water zo	nes are covered.				
	fracturing/stir						
				to ready the well for product			
water and sand,	, with less than 1 perc	cent special-purpose	eddinves as snown	in the attached "List of Anti	cipated Additives Use	a for Fracturing or Si	umulaung vyen.
				1.00			
8) Total area	a to be disturb	ed, including	roads, stock	cpile area, pits, etc	c, (acres):	9.14 acrès	
•						/	
9) Area to b	e disturbed fo	or well pad on	ly, less acce	ss road (acres):	4.08 acre	s	
					4.0	C. V.	
					1771.8	or Oil a n	TIKI

20)

CASING AND TUBING PROGRAM

20)	CASING AND TUBING PROGRAM					TAV26 Unio		
ТҮРЕ	Size	New or Used	Grade	Weight per ft.	FOOTAGE: For Drilling	INTERVALS: Left in Well	CEMENT: Fill -up (Cu. Ft.)	/
Conductor	20"	New	H-40	94#	40'	40'	CTS, 38 Cu. Ft.	//
Fresh Water	13-3/8"	New	J-55	54.5#	595'	595' *see above	CTS, 827 Cu. Ft.	
Coal	9-5/8"	New	J-55	36#	2470'	2470'	CTS,1006 Cu Ft.	
Intermediate							181	
Production	5-1/2"	New	P-110	20#	16800'	16800'	4227 Cu Ft.	
Tubing	2-3/8"	New	N-80	4.7#		7300'		
Liners								

ТҮРЕ	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield
Conductor	20"	24"	0.438"	1530	Class A	1.18
Fresh Water	13-3/8"	17-1/2"	0.38"/0.33"	2730/1730	Class A	1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	Class A	1.18
Intermediate						
Production	5-1/2"	8-3/4" & 8-1/2"	0.361"	12630	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11200		
Liners						

PACKERS

Kind:	
Sizes:	and any a
Depths Set:	Cifing at Oil 9 a

JUN 28 2012

V V Decated a le

WW - 6B (1/12)

21) Describe centralizer placement for each casing string.	Conductor: no centralizers
Surface Casing: one centralizer 10' above the float shoe, on	e on the insert float collar and one every 4th joint
spaced up the hole to surface.	
Intermediate Casing: one centralizer above float joint, one c	entralizer 5' above float collar and one every 4th collar
to surface.	
Production Casing: one centralizer at shoe joint and one ev	ery 3 joints to top of cement in intermediate casing.
22) Describe all cement additives associated with each cen	nent type.
Conductor: no additives, grout cement.	
Surface: Class A cement with 2% calcium and 1/4 lb flake,	5 gallons of clay treat
Intermediate: Class A cement with 1/4 lb of flake, 5 gallons	
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1%	
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1	
23) Proposed borehole conditioning procedures.	nductor: blowhole clean with air, run casing, 10 bbls fresh water
Surface: blowhole clean with air, trip to conductor shoe, trip	to bottom, blowhole clean with air, trip out, run casing,
circulate pipe capacity + 40 bbls fresh water followed by 25	bbls bentonite mud, 10 bbls fresh water spacer.
Intermediate: blowhole clean with air, trip to surface casing sho	oe, trip to bottom, blowhole clean with air, trip out, run casing
circulate 40 bbls brine water followed by 10 bbls fresh water	

Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

*Note: Attach additional sheets as needed.

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION

					35	00	252
1) Well Operat	tor: Antero Res	sources Appalachia	an Corporation	494488557	033- Harrison	Union	Big Isaac
				Operator ID	County	District	Quadrangle
2) Operator's \	Well Number	: Cleta Unit 2	Н		Well Pad Nan	ne: Corder East	
3 Elevation, c	urrent ground	! : ~1420'	El	evation, proposed	post-construc	ction:	1405'
4) Well Type:	(a) Gas Other		Oil				
	(b) If Gas:	Shallow Horizontal		Deep		Ē.	
5) Existing Pac	d? Yes or No	: No					
/ 1	arget Formati 7,700' TVD, Anticipa			ted Thicknesses ar	nd Associated	Pressure(s):	
7) Proposed T	otal Vertical	Depth:	7,700' TVD				
8) Formation a	at Total Verti	cal Depth:	Marcellus Shale	e			
9) Proposed T	otal Measure	d Depth:	16,800' MD				
10) Approxim	ate Fresh Wa	ter Strata De	pths: 5	5', 85', 128', 165', 260', 410	0', 500', 540'		
11) Method to	Determine F	resh Water I	Depth: c	Offset well records			
12) Approxim	ate Saltwater	Depths:	630', 850', 1290'				
13) Approxim	ate Coal Sear	n Depths:	400', 510', 67	0', 778', 855', 1455'			
14) Approxim	ate Depth to	Possible Voi	d (coal mine,	, karst, other):	None anticipa	ted	
15) Does land	contain coal	seams tributa	ary or adjace	nt to, active mine?	No		
16) Describe p	proposed well	work:	Drill, perforate, frac	cture a new horizontal shall	ow well and comple	te Marcellus Shale	
*Antero will be ai	r drilling the fresh wa	ter string which mak	es it difficult to deter	rmine when freshwater is en	countered, therefore	we have built in a buff	er for the casing
setting depth whi	ch helps to ensure the	nat all fresh water zo	ones are covered.				
	oump Slickwater into	the Marcellus Shale	formation in order to	1: o ready the well for production in the attached "List of Antio			
18) Total area	to be disturb	ed, including	g roads, stock	xpile area, pits, etc	, (acres):	9.14 acres	
19) Area to be	e disturbed fo	r well pad or	nly, less acces	ss road (acres):	4.08 acre	:S	
	ch	OOK #	= 2868	3			
	\$	10,15	= 2868 -0 , 00				

	Property Boundary	A	~	Diversion			, , , ,	
	Road	======		Spring		\bigcirc	-	
	Existing Fence	——×——×—×	—×—	Wet Spot		O		
	Planned Fence		/_	Drain Pipe w/ size in in	nches	—(12)		à
	Stream			Waterway				
	Open Ditch							
	Rock	చ్చే <u>స్త</u> ్విధ్మేస్త్ర		Cross Drain				
		†		Artificial Fil	ter Strip XXXXX		XXXXXXXXXXXXXXXXXXXX	
	North	Ň		Pit: Cut Wi	alls	Eur.		
	Buildings			Pit: Compa	cted Fill Walls	Sylver	Trimet	
	Water Wells	<u>®</u>		Area for La	nd Application	:		
	Drill Sites (New Page)	Construction 4.08 + Ac	cess Road 4.12			Acres)		
Droposed I	Revenetation Tres	atment: Acres Disturbed	9.14		Prevegetati	on nH		
_	-							
L	ime 4	Tons/acre or to co	errect to pH 6.	.5				
F	ertilizer (10-20-2	0 or equivalent) 500	lbs/acre	e (500 lbs mi	nimum)			
N	Mulch 2-3		Tons/acre	Hay or straw	or Wood Fiber	will be used	l where needed)	
							•	
			Seed M	lixtures				
		rea I (Temporary)				Area II	(Permanent)	
S	leed Type	lbs/acre			Seed Type		lbs/acre	
Tall Fescu	ıe	40		Tall Fescue			40	
Perennial	Rye Grass	20		Perennial Ry	e Grass		20	
	·	*	9					
	nasi#		-more de					
Approximation of the						gence lives between the constant of the consta	******	
Attach:								
	s) of road, locatio	n,pit and proposed area	for land applica	tion.				
		olved 7.5' topographic sl						
Filolocopi	led section of may	Sived 7.5 topograpme si	1					
	as dill critical	11/1/		-				
Plan App	roved by:	full		/_				
Commond								
Comment	18.		2000					*
	11.				1 -	-10		
Title:	2114 GHS I	rspec of	4*	Date:	Ju Jun	10		
Field Rev	iewed?	Yes) No				
					1	UN 23	OTTEN	
					J	UII SOM		



Well Site Safety Plan Antero Resources

Well Name: Opie Unit 1, Opie Unit 1H, Cleta Unit 1H, Cleta Unit 2H and Oneacre Unit 1H

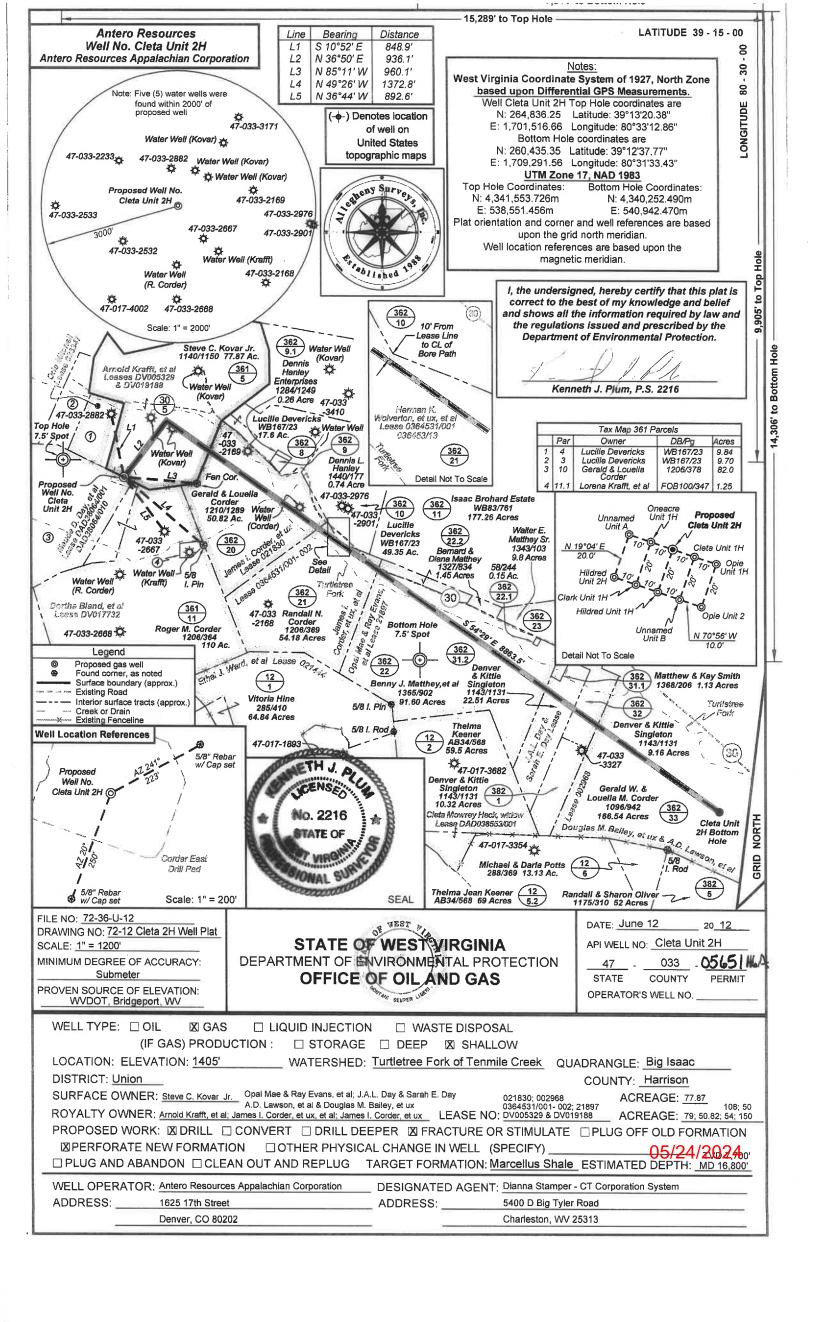
Pad Location: CORDER EAST PAD

Harrison County/Union District

GPS Coordinates: Lat 39°13′20.60″/Long 80°33′12.24″

Driving Directions: From the intersection of I-50 with old route 50 head to downtown Salem for 0.2 miles. Slight right onto County Rd 50/73/Main 51/0ld Route 50 continue to follow County Rd 50/73/Main St 1.2 miles. Continue onto South St for 0.2 miles. Continue onto Patterson Rd for 0.2 miles. Continue onto Co Route 29/Patterson Fork Rd for 0.2 miles. Continue onto Salem Country Club Rd for 0.4 miles. Salem Country Club Rd turns slightly right and becomes Co Route 29/Patterson Fork Rd for 1.5 miles. Slight left onto Co Route 15/Sherwood-Greenbrier Rd for 1.4 mile. Turn left onto Traugh Fork Rd for 1.8 miles. Continue onto Co Route 30/Turtletree Fork Rd for 0.5 miles. Turn right to stay on Co Route 30/Turtletree Fork Rd for 161'. Slight right onto Co Route 3011/Turtletree Fork Rd for 0.6 miles. Lease road will be on the right.

SSP Page 1



Operator's	Well	Number	Cleta	Unit:	2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Pag
	_ /		
<u>ide D. Day, et al Lease DAD38064/001-1</u> Frank Somerville, et al	Consolidated Gas Supply Corporation	1/8	1048/0348
Christine R. Totten, et vir	Clarence W. Mutschelknaus	1/8	1093/0179
Mary Stutler	Clarence W. Mutschelknaus	1/8	1093/0177
Linda Sue Sanders	Clarence W. Mutschelknaus	1/8	1093/0173
Mamie L Johnson, et al	Clarence W. Mutschelknaus	1/8	1093/0169
H. J. Burnside, et al	Clarence W. Mutschelknaus	1/8	1093/0161
Chester E. Burnside, et ux	Clarence W. Mutscheiknaus	1/8	1093/0159
Agnes Jenkins, et al	Clarence W. Mutschelknaus	1/8	1093/0157
Evelyn M. Hall	Clarence W. Mutschelknaus	1/8	1093/0165
Maude Day	Clarence W. Mutschelknaus	1/8	1093/0163
Dominion E&P Inc., DTI, Inc. & DAD, LLC	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	1423/1068
old Krafft, et al Lease DV005329 & DV0	/ 1 <u>9188</u>		
Arnold Krafft	Carl E. Smith, Inc.	1/8	1009/0496
Joseph T. Palmer & Linda S. Palmer, h/w	Consolidated Gas Supply Corporation	1/8	1040/0968
Blanche M. Day	CNG Producing Company	1/8	1104/0711
Flossle B. Cogis, legal guardian for Lessie M. Childs	James F. Scott	1/8	1123/0084
Opal G. Ownes	James F. Scott	1/8	1123/0086
Orle Mitchell & Lorene Mitchell	James F. Scott	1/8	1123/0760
Lessie M. Childers	James F. Scott	1/8	1127/0831
Dominion E&P Inc., DTI, Inc. & DAD, LLC	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	1423/1068

^{**}CONTINUED ON NEXT PAGE**

Operator's Well Number Cleta Unit 2H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
James I Corder, et ux Lease #021830	Oleman as Mr. Manda also allum as a	410	400010077
James I. Corder, et ux	Clarence W. Mutschelknaus	1/8	1080/0677
Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corporation	Merger	0035/1236
Herman K. Wolverton, et ux, et al Lease #0364	53/001/0002		
James I. Corder, et ux	Clarence W. Mutschelknaus	1/8	1082/0656
Clarence W. Mutschelknaus	J. Robert Hornor	1/8	1082/0363
Dominion E&P Inc., DTI, Inc. & DAD, LLC	Antero Resources Appalachian Corporation	*Partial Assignment of Oil and Gas Leases	1423/1068
Onel Man & Day Evens et al Leans #24907			
Opal Mae & Ray Evans, et al Lease #21897 Opal Mae Evans & Ray Evans	Clarence W. Mutschelknaus	1/8	1072/0997
Gore Corporation	Clarence W. Mutschelknaus	1/8	1072/0999
John R. Morris, et al	Clarence W. Mutschelknaus	1/8	1072/1001
Union National Bank as Trustee for Smith-Morris	Clarence W. Mutschelknaus	1/8	1072/1003
Bluestone Energy Partners	Antero Resources Bluestone, LLC, a wholly owned subsidiary of Antero Resources Appalachian Corporation	Merger	0035/1236

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Operator's	Well No.	Cleta	Unit 2H
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

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- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Book/Page Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty <u>J.A.L. Day & Sarah E. Day Lease</u> R. A. Garrett 👫 Flat Rate 0099/0007 J.A.L. Day & Sarah E. Day XTO Energy, Inc. Antero Resources Appalachian Corp. *Partial Assignment 1481/1336 of Oil & Gas Leases Douglas M. Bailey, et ux & A.D. Lawson Lease #002968 South Penn Oil Company ★Flat Rate 0092/0006 A.D. Lawson, et ux Flat Rate
*Partial Assignment 1050/1046 Douglas M. & Mary Eleanor Bailey, h/w Consolidated Gas Supply Corp. Dominion E&P Inc., DTI, Inc. & DAD, LLC Antero Resources Appalachian Corp. 1423/1068 of Oil & Gas Leases

*Partial Assignments to Antero Resources Appalachian Corporation include 100% rights to extract, produce and market the oil and gas from the

Marcellus and any other formations completed with this well.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

> Well Operator: Antero Resources Appalachian Corporation By: Kevin Kilstrom Its: Vice President of Production



June 11, 2012

Antero Resources 1625 17th Street Denver, Colorado 80202 Office 303.357.7310 Fax 303.357.7315

West Virginia Department of Environmental Protection Chief, Office of Oil and Gas Attn: Mr. James Martin 601 57th Street SE Charleston, WV 25304

RE:

Cleta Unit 2H

Quadrangle: Big Isaac

Harrison County/Union District, West Virginia

Mr. Martin:

Antero Resources Appalachian Corporation (Antero) is submitting the following application for a new well work permit for the Cleta Unit 2H horizontal shallow well. As an authorized representative, I certify that Antero has the right to extract, produce or market the oil or gas for all leases through which the Cleat Unit 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plat.

Sincerely,

Tim Rady Landman

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE CERTIFICATION**

Date of Notic	ce Certification: 06/11/2012		API No. 47- 033 - 6 St. 9 H6 A				
			Operator's Well No. Cleta Unit 2H				
			Well Pad N	Name: Corder E	ast Pad		
Notice has l							
Pursuant to th	ne provisions in West Virginia Code	§ 22-6A, the Operator has prov	ided the rec	quired parties w	ith the Notice Forms listed		
	tract of land as follows:						
State:	West Virginia		Easting:	538551.456m			
County:	Harrison		Northing:	4341553.726m			
District:	Union	Public Road Acce		CR 30/1			
Quadrangle: Watershed:	Big Isaac	Generally used fa	rm name:	Corder, Gerald W	/. & Louella M. et al		
watersned;	Turtletree Fork of Tenmile Creek						
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and seed the owners of the surface described equired by subsections (b) and (c), so surface owner notice of entry to surface owner notice of subsection (b), section sixteen of \$22-6A-11(b), the applicant shall thave been completed by the applicant	bed in subdivisions (1), (2) arection sixteen of this article; (ii) arvey pursuant to subsection (as of this article were waived in tender proof of and certify to the	nd (4), subs) that the re a), section writing by	section (b), sec quirement was ten of this artic the surface ow	etion ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West		
	West Virginia Code § 22-6A, the Operator has properly served the require		nis Notice C	Certification			
*PLEASE CHI	ECK ALL THAT APPLY				OOG OFFICE USE ONLY		
1. NO	FICE OF SEISMIC ACTIVITY or	NOTICE NOT REQUIR SEISMIC ACTIVITY WAS			RECEIVED/		
2. NO	TICE OF ENTRY FOR PLAT SURVIDED IN PLAT SURVIDED IN PROPERTY OF THE PROPERTY O	VEY or NO PLAT SURVE	EY WAS C	ONDUCTED	RECEIVED		
■ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIR NOTICE OF ENTRY FOR EWAS CONDUCTED or			RECEIVED/ NOT REQUIRED		
		WRITTEN WAIVER H (PLEASE ATTACH)	BY SURFA	CE OWNER	•		
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED		
■ 5. PUI	BLIC NOTICE				RECEIVED		
■ 6. NO	TICE OF APPLICATION				RECEIVED		

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

- IS SU SHOA

Certification of Notice is hereby given:

THEREFORE, I	Kevin Kilstrom , have	e read an	d understand	the notice requirements within West Virginia C	Code § 22-
6A. I certify tha	at as required under West Virginia Co	de § 22-6	6A, I have se	erved the attached copies of the Notice Forms,	identified
				or by any method of delivery that requires a	
signature confir	mation. I certify under penalty of law	that I hav	e personally	examined and am familiar with the information	submitted
in this Notice (Certification and all attachments, and	l that ba	sed on my i	nquiry of those individuals immediately respo	nsible for
obtaining the in	formation, I believe that the information	n is true	, accurate and	d complete. I am aware that there are significan	t penalties
for submitting fa	alse information, including the possibil	ity of fin	e and impriso	onment.	•
	<u> </u>	-	-		
Well Operator:	Antero Resources Appalachian Corporation	1	Address:	1625 17th Street	
By:	Kevin Kilstrom			Denver, CO 80202	
Its:	Vice President of Production		Facsimile:	(303) 357-7315	
Telephone:	(303) 357-7310		Email:	S	
	S				
	MINIMINA.	ſ			
	NOTARY SHIEL TO	Subsci	ribed and swo	orn before me this // day of / cure	•
	SAC THE CALL		000114		
	NOTARY	F	0019	Notary	Public
	PUBLIC :			xpires Caulitage	
	7.12	My Co	ommission Ex	xpires Chull (Chile	
1	TA T	1			

Oil and Gas Privacy Noticen Expires

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A (1-12) API NO. 47-033 - OSGS1+6A
OPERATOR WELL NO. Cleta Unil 2H
Well Pad Name: Corder East Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

6-14 Notice Time Requirement: notice shall be provided no later than the filing date of permit application. Date of Notice: 06/04/2012 Date Permit Application Filed: 06/04/2012 Notice of: PERMIT FOR ANY ☐ CERTIFICATE OF APPROVAL FOR THE WELL WORK CONSTRUCTION OF AN IMPOUNDMENT OR PIT Delivery method pursuant to West Virginia Code § 22-6A-10(b) ☐ PERSONAL ☐ REGISTERED METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL. RECEIPT OR SIGNATURE CONFIRMATION Pursuant to W. Va. Code § 22-6A-10(b), no later than the filing date of the application, the applicant for a permit for any well work or

for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner.

Notice is hereby provided to:

SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: PLEASE SEE ATTACHMENT	Name: PLEASE SEE ATTACHMENT
Address:	Address:
Name:	
Address:	☐ COAL OPERATOR
	Name:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name: Lucille Devericks	WATER PURVEYOR(s), OWNER(s) OF WATER WELL.
Address: Rural Floute 2 Box 186 Bristol, WV 26426	WATER PURVEYOR(s), OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE
Name:	Name: PLEASE SEE ATTACHMENT, 4 located within 1500 feet
Address:	Address:
· · · · · · · · · · · · · · · · · · ·	
	☐ OPERATOR OF ANY NATURAL GAS STORAGE
SURFACE OWNER(s) (Impoundments/Pits)	FIELD
Name:	Name:
Address:	Address:
	*Please attach additional forms if necessary Office of Ol & Gas

JUN 2 1 2012

API NO. 47-033 - OSUSI HUA OPERATOR WELL NO. Cleta Unit 2H Well Pad Name: Corder East Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall also include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3)the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

JUN 2 1 2012

API NO. 47-033 - SUSI HIGA OPERATOR WELL NO. Cleta Unit 2H Well Pad Name: Corder East Pad

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Office of Oil & Gas

JUN 2 1 2012

WW-6A (1-12) API NO. 47-033 OSUSI HGA
OPERATOR WELL NO. Cleta Unit 2H
Well Pad Name: Corder East Pad

Notice is hereby given by:

 Well Operator:
 Antero Resources Appalachian Corporation
 Address:
 1625 17th Street

 Telephone:
 (303) 357-7310
 Denver, CO 80202

 Email:
 amihalcin@anteroresources.com
 Facsimile:
 (303) 357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED
Office of Oil & Gas

JUN 2 1 2012

API NO. 47-033 - OSL SI HLO A-OPERATOR WELL NO. Lanham Unit 1H
Well Pad Name: Existing Coffman Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: O6/04/2012 Date Permit Application Filed: O6/04/2012

Notice of:

PERMIT FOR ANY CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

PERSONAL REGISTERED METHOD OF DELIVERY THAT REQUIRES A

Pursuant to W. Va. Code § 22-6A-10(b), no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner.

RECEIPT OR SIGNATURE CONFIRMATION

Notice is hereby provided to:

SERVICE

MAIL

■ SURFACE OWNER(s)	COAL OWNER OR LESSEE
Name: PLEASE SEE ATTACHMENT	Name: PLEASE SEE ATTACHMENT
Address:	Address:
Name:	
Address:	☐ COAL OPERATOR
	Name:
SURFACE OWNER(s) (Road and/or Other Disturbance)	Address:
Name: Lucille Devericks	— WATER PURVEYOR(s) OWNER(s) OF WATER WELL.
Address: Rural Route 2 Box 186	WATER PURVEYOR(s), OWNER(s) OF WATER WELL, SPRING OR OTHER WATER SUPPLY SOURCE
Bristol, WV 26426	Name: PLEASE SEE ATTACHMENT, 4 located within 1500 feet
Name:	Address:
Address:	
	☐ OPERATOR OF ANY NATURAL GAS STORAGE
SURFACE OWNER(s) (Impoundments/Pits)	FIELD
Name:	Name:
Address:	Address:
	*Please attach additional forms if necessary

API NO. 47-033 - 06651 H6A
OPERATOR WELL NO. Lanham Unit 1H
Well Pad Name: Existing Coffman Pad

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall also include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

WW-6A (1-12) API NO. 47-033 - O SUST HGA
OPERATOR WELL NO. Lanham Unit 1H
Well Pad Name: Existing Coffman Pad

Notice is hereby given by:

Well Operator: Antero Resources Appalachian Corporation
Telephone: (303) 357-7310
Email: Antero Resources Appalachian Corporation
Address: 1625 17th Street
Denver, CO 80202
Facsimile: (303) 357-7315

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A Notice of Application Attachment:

Surface Owners:

Owner:

Steve C. Kovar, Jr.

Address:

Rural Route 2 Box 190

Bristol, WV 26426

Gerald W. & Louella M. Corder >

Owner: Address:

Rural Route 2 Box 174

Bristol, WV 26426

Coal Owners:

Owner:

Steve C. Kovar, Jr.

Address:

Rural Route 2 Box 190

Bristol, WV 26426

Owner:

Gerald W. & Louella M. Corder

Address:

Rural Route 2 Box 174

Bristol, WV 26426

Owner:

Roger M. Corder

Address: Ru

Rural Route 2 Box 187

Bristol, WV 26426

Owner:

Willis G. Tetrick, Mawell Y Sutton, ✓

Union National Bank, JP Morgan Chase Bank, NA

Attn: Sheldon F.Thompson

Address:

420 Throckmorton #200

Fort Worth, TX 76102

Owner:

Guy Corporation

c/o Tetrick Mineral Properties

Attn: Denise Harris

Address:

92 16th Street, 2nd Floor

Wheeling, WV 26003

Owner:

James M. Sutton

c/o Tetrick Mineral Properties

Attn: Denise Harris

Address:

92 16th Street, 2nd Floor

Wheeling, WV 26003

Owner:

Anker West Virginia Mining Co. 🗸

Wolf Run Mining Company

c/o Corporation Service Company

Address:

99 Edmiston Way

Buckhannon, WV 26201

Owner:

Roger M. Corder

Address:

Rural Route 2 Box 187

Bristol, WV 26426

Attn: Marc Monteleone

Address:

P.O. Box 1386

600 Quarrier Street

Charleston, WV 25325

Owner:

Charleston National Bank

c/o JP Morgan Chase Bank, NA Attn: Sheldon F. Thompson

Address: 420 Throckmorton #200

Fort Worth, TX 76102

Owner:

Consolidation Coal Company

Leatherwood, Inc., CNX Center

Attn: Don Puglio

Address:

1000 Consol Energy Drive

Canonsburg, PA 15317

Owner:

Anker Energy Corporation

Hunter Ridge Coal Company

c/o Corporation Service Company

Address:

2708 Cranberry Square

Morgantown, WV 26508

Owner:

Patriot Mining Company

c/o Corporation Service Company

Address:

2708 Cranberry Square

Morgantown, WV 26508

Owner:

Address:

International Coal Group, Inc.

c/o Corporation Service Company

300 Corporate Center Drive

Scott Depot, WV 25560

WW-6A Attachment CONTINUED:

Water Well Owners:

Owner:

Roger M. Corder

Address:

Rural Route 2 Box 187

Bristol, WV 26426

Owner: Address:

Lorena Krafft et al 895 Sherwood Drive

Elyria, OH 44035

Owner:

Steve C. Kovar (2 water wells)

Address: Rural Route 1 Box 190

Bristol, WV 26426

(Note: On attached water well map, 1 other water well is identified but it is located greater than 1500' from the subject well pad location)

WW-6A4 (1/12) Operator Well No. Cleta Unit 2H

Multiple Wells on Corder East Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time R Date of Notice		vided at least TEN (10) days prior to filing a Date Permit Application Filed: 06/12/2012	permit application.
Delivery metho	od pursuant to West Virginia (Code § 22-6A-16(b)	
☐ HAND	CERTIFIED MAI	IL	
DELIVER		PT REQUESTED	
receipt requeste drilling a horiz of this subsection subsection may	ed or hand delivery, give the sur- ontal well: <i>Provided</i> , That notice on as of the date the notice was probe waived in writing by the sur-	st ten days prior to filing a permit application, face owner notice of its intent to enter upon the given pursuant to subsection (a), section te provided to the surface owner: <i>Provided</i> , how face owner. The notice, if required, shall include mail address of the operator and the operator	ne surface owner's land for the purpose of n of this article satisfies the requirements vever, That the notice requirements of this ude the name, address, telephone number,
Notice is here	eby provided to the SURFA	CE OWNER(s):	
Name: Steve C. K	ovar, Jr.	Name: Gerald W. & Louella M. Corder	Name: Roger M. Corder .
Address: Rural F		Address: Rural Route 2 Box 174 Bristol, WV 26426	Address: Rural Route 2 Box 187 Bristol, WV 26426
Bristol,	WV 26426		
State: County:	ner's land for the purpose of dril West Virginia Harrison Union	ling a horizontal well on the tract of land as for the second of the land as for the land as f	bllows: 538551.4563m 4341553.726m CR 30/1
	Big Isaac	Generally used farm name:	Corder, Gerald W. & Louella M. et al
	Turtletree Fork of Tenmile Creek		
Pursuant to W facsimile num related to horiz	ber and electronic mail address zontal drilling may be obtained	(b), this notice shall include the name, address of the operator and the operator's authorize from the Secretary, at the WV Department of 25304 (304-926-0450) or by visiting www.de	ed representative. Additional information of Environmental Protection headquarters,
Notice is her	eby given by:		
Well Operator:	Antero Resources Appalachian Corpor	Authorized Representative:	Hannah Knopping
Address:	1625 17th Street	Address:	1625 17th Street
	Denver, CO 80202		Denver, CO 80202
Telephone:	303-357-7310	Telephone:	303-357-7310
Email:	hknopping@anteroresources.com	Email:	hknopping@anteroresources.com
Facsimile:	303-357-7315	Facsimile:	303-357-7315
	Privacy Notice:	onal information such as name address and t	elenhone number, as part of our regulatory

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

WW-6A5 (1/12)

Operator Well No. Cleta Unit 2H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Notice	e: 06/12/2012 Date Perm	nit Application			application.
Delivery meth	nod pursuant to West Virginia Co	de § 22-6A-16	(c)		
	TED MAIL N RECEIPT REQUESTED	HAND DELIV	ERY		
return receipt the planned o required to be drilling of a h damages to the	requested or hand delivery, give the peration. The notice required by t provided by subsection (b), section torizontal well; and (3) A proposed e surface affected by oil and gas ope	surface owner his subsection ten of this article surface use a crations to the o	whose land shall includ cle to a surfa and compensa extent the dan	will be used for e: (1) A copy of ce owner whose tion agreement mages are comp	ation, an operator shall, by certified mail r the drilling of a horizontal well notice of of this code section; (2) The information e land will be used in conjunction with the containing an offer of compensation for tensable under article six-b of this chapter. ted in the records of the sheriff at the time
(at the address Name: Steve C. Address: Rural			W. & Louella M Route 2 Box 17		Name: Roger M. Corder Address: Rural Route 2 Box 187 Bristol, WV 26426
		pose of drilling	g a horizontal	well on the trac	well operator has developed a planned ct of land as follows: 538551.456m
County:	Harrison		JTM NAD 83	Northing:	4341553.726m
District:	Union	P	ublic Road A	Access:	CR 30/1
Quadrangle:	Big Isaac		Generally use	d farm name:	Corder, Gerald W. & Louella M. et al
Watershed:	Turtletree Fork of Tenmile Creek				
Pursuant to W to be provide horizontal we surface affect information r	ed by W. Va. Code § 22-6A-10(b) all; and (3) A proposed surface use a ged by oil and gas operations to the elated to horizontal drilling may be located at 601 57th Street, SE,	to a surface cand compensate extent the danger obtained from	owner whose ion agreemer mages are co m the Secret	land will be un at containing an ampensable und ary, at the WV	code section; (2) The information required used in conjunction with the drilling of a offer of compensation for damages to the er article six-b of this chapter. Additional Department of Environmental Protection or by visiting

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

05/24/2024

CERTIFICATION OF AGREEMENT WITH WVDOH to fulfill WV Code 22, Article 6A, Section 20

OIL AND GAS ROAD STATEWIDE BONDING AGREEMENT

THIS AGREEMENT, executed in duplicate, made and entered into this 28 day of February, 2012, by and between the WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS, hereinafter called "DEPARTMENT," and Anter Resources Agreement Corporation, a Delawage company, hereinafter called "COMPANY."

WITNESSETH:

WHEREAS, Company has horizontal gas well drilling operations in certain areas of West Virginia; and

WHEREAS, the Department believes that the frequent and repetitive use of certain sections of highways in the State by Company, its contractors, agents, independent contractors or suppliers of drilling materials or drilling equipment, and employees contributes to increased wear and tear to public roads in the state road system in the State, including local roads ("State Owned Roads"); and,

WHEREAS, the Department and Company have entered into this Agreement to satisfy the requirements of the Department's policy entitled "Oil & Gas Road Policy" dated January 3, 2012, as issued by Paul A. Mattox, Jr., Secretary of Transportation / Commissioner of Highways, and any subsequent related policies, hereinafter called "Policy", a copy of which is made a part of this Bonding Agreement and is identified as Attachment 1.

NOW, THEREFORE, for and in consideration of the mutual agreements hereinafter set forth, the parties agree as follows:

- I. For purposes of this Bonding Agreement, "Project Transportation Usage" of the Company shall be understood to mean use of one or more State Owned Roads for the delivery and removal of drilling materials and drilling equipment at the site or location of one or more of Company's horizontal gas well pad locations. To the extent reasonably practical, prior to commencing use of a State Owned Road for Project Transportation Usage after January 1, 2011, the Company shall submit to the Department a section or sections of current official WVDOH County Highway maps identifying the exact location of the proposed project and the State Owned Roads that the Company will utilize for the Project Transportation Usage.
- II. Company and Department shall within 14 days of the Company's submittal, agree to a list of these sections of State Owned Roads, hereinafter called "Project Roads List", to be utilized for each of Company's projects, identified by route number and milepost; at a time to be mutually agreed to by the parties prior to initial commencement of Project Transportation Usage of a particular State Owned Road on a Project Roads List, the Company and Department will jointly review the condition of the roads and bridges on the Project Roads List. The Department will document the road type and surface condition and general right-of-way width of each section of road on the Project Road List. Either party may supplement this documentation with photographs, video or other evidence of the present condition of the road surface, shoulders, ditches, culverts, bridges or other structures or appurtenances of roads on the Project Road List, as well as approaches to the roads, utility facilities located within or along the right-of-way, or any other condition, including third-party activities, that may affect the duties and responsibilities of the parties under this Agreement. A copy of any such documentation must be made and provided to the other party within ten business days after the joint review of the roads on the Project Roads List.
- III. Department shall issue a Project Agreement or Project Permit, as appropriate, to Company to use State Owned Roads and may include any minor or major improvements required of Company prior to, during or after Project with the assignment of responsibilities of

both parties prior to, during and after the operator has completed well fracturing..

- IV. In the Project Agreement/Project Permit, the Department shall not require the use of State Owned Roads other than the roads proposed by Company unless the Department has safety concerns as to the Company's proposed roads. A failure to agree on roads that may otherwise be lawfully used for a particular Project Transportation Usage shall result in the designation of the State Owned Roads proposed by Company, with milepost determinations as designated by Department. This Agreement shall only cover portions of State Owned Roads designated on the Project Roads List.
- V. For the duration of Company's Project Transportation Usage of the Stated Owned Roads on the Project Roads List, whether by the Company, its contractors (while working on behalf of Company), agents, independent contractors or suppliers of drilling materials or drilling equipment, or employees, the Company agrees to pay for all reasonable maintenance and repair costs incurred by the Department to repair areas of the State Owned Roads included in the Project Roads List that were directly damaged by Company's Project Transportation Usage, as determined to be reasonably necessary and appropriate by the Department. The Department shall keep a record of all labor performed by Department employees and contractors for such maintenance and repairs and shall send an invoice for the same to Company.
- VI. Company shall be responsible for the cost of all maintenance and repairs reasonably necessary to put the existing roadways, bridges and appurtenances on the Project Roads List utilized for the Project Transportation Usage in the condition that existed immediately prior to the Project Transportation Usage. Company shall not be required to pay for maintenance or repairs to put any areas of such roadways, bridges and appurtenances on the Project Roads List in a condition better than the condition that existed immediately prior to the Project Transportation Usage. Company shall also not be required to pay for maintenance or repairs to any areas of these roadways, bridges or appurtenances on the Project Roads List that are not actually utilized for the Project Transportation Usage or for damage not caused by Project Transportation Usage.
- Company shall notify the Department in writing of Company's final completion of Project Transportation Usage for particular roadways, bridges and appurtenances on the Within fourteen days after its receipt of written notification of the Project Roads List. completion of the Project Transportation Usage for all roads on a Project Roads List, the Department will review the condition of the roadways, bridges and appurtenances on the Project Roads List actually utilized for the Project Transportation Usage and advise Company of any final repairs reasonably necessary to leave these roads, bridges and appurtenances in a condition reasonably deemed by Department to be equal to their condition prior to commencement of Project Transportation Usage; and, upon completion of all such final repairs by or on behalf of Company and acceptance by Department, the Company shall be released from all further liability for maintenance or repairs to roads, bridges, or appurtenances on said Project Roads List. Any maintenance or repair work under the Project Agreement/Project Permit for roads, bridges or appurtenances on the Project Roads List may be performed by a contractor directly chosen by the Company as approved by the Department, the Department's workforce, or a private contractor hired by the Department through the public bid process in accordance with state law, all of which work shall be subject to the standards and specifications of the Department.
- VIII. In order to ensure performance of Company's performance and payment obligations under this Bonding Agreement, the Company shall post a corporate surety bond, hereinafter called "Master Bond", with the Department named as the beneficiary, which form of bond shall be subject to the consent of the Department, not to be unreasonably withheld. The amount and form of the bond shall be in accordance with the Policy as set forth above. However, the amount of the Master Bond does not limit the amount of claims that may be made by the Department against the Company under this Bonding Agreement. The Company shall provide the Master Bond to the Department within one (1) month after the execution of this Bonding Agreement. The Master Bond shall secure the good faith performance of all payment obligations of Company under the terms of this Bonding Agreement respecting the roads, bridges and appurtenances on the Project Roads List for each Project Transportation Usage undertaken by the Company, and shall remain in effect until termination of this Agreement. Company shall not be obligated to provide any other bonds, sureties, or other guarantees of performance to the Department for Company's use of State Owned Roads, except as required in this Agreement.

- IX. Company shall maintain Commercial General Liability Insurance in the amount of two million dollars, with a minimum coverage of one million dollars per occurrence, for personal injury or death to persons, or for property damage, resulting from Company's Project Transportation Usage and shall present evidence of such insurance to Department upon request.
- X. Company's usage of State Owned Roads under the Project Agreement/Project Permit shall comply with all applicable Federal, State and local laws and regulations including, but not limited to, to the extent applicable, the National Environmental Policy Act, Section 404 of the Clean Water Act, Section 106 of the National Historic Preservation Act, Rare, Threatened and Endangered Species Act, Section 401 Water Quality Certification, and hazardous waste requirements. Further, upon reasonable written request of Department, Company shall furnish Department with acceptable documentation of such compliance which is in the possession of the Company.
- XI. Company shall defend, indemnify and hold Department harmless from and against any and all losses, damage, and liability, and from all claims for damages on account of or by reason of bodily injury, including death, which may be sustained, or claimed to be sustained, by any person or persons, including employees of Department, and from and against any and all claims, losses or liabilities for damages to property, arising out of the negligent or willful acts or omissions of Company, its agents, independent contractors and suppliers of drilling materials or drilling equipment, employees and contractors, in the performance of all Project Transportation Usage activities undertaken pursuant to this Agreement (collectively, "claims"). The Company shall not be responsible to indemnify, defend or hold harmless Department for any claims caused by the negligent or willful acts or omissions of the Department or its agents, employees and contractors or third parties not performing work at the direction of Company or delivering drilling equipment or drilling materials, including water, for use by or for company.
- XII. If a provision of this Agreement is or becomes illegal, invalid or unenforceable in any jurisdiction, that shall not affect the validity or enforceability of any other provision of this Agreement; or the validity or enforceability in other jurisdictions of that or any other provision of this Agreement.
- XIII. Department shall give Company a minimum of thirty days written notice of default under the terms of this Bonding Agreement and the opportunity to cure this default during such thirty-day period. If a default is not cured to the satisfaction of Department, or provision acceptable to Department is not made for a cure, Department may then elect to terminate this Bonding Agreement in whole or in part, and may in addition exercise its rights under the Master Bond or seek any other lawful relief available. Company may terminate this Bonding Agreement upon thirty days written notice to Department for any reason. In the event Company terminates this Agreement for any reason, it shall be liable for the repair and maintenance costs set forth above for prior Project Transportation Usage.
- XIV. Nothing herein shall be construed to mean that Company shall have any jurisdiction or control over any public roads in the state road system.
- XV. Company, its contractors, agents, employees and suppliers shall at all times be subject to applicable provisions of state and federal law, including without limitation laws requiring operation of vehicles in accordance with legal size and weight restrictions and posted weight limits. Oversize/overweight permits for vehicle or loads not otherwise conforming with law must be obtained in accordance with law; Department agrees to work in good faith with Company to review and grant (where authorized by law) such permits in a timely manner upon request by Company.
- XVI. This Bonding Agreement shall be construed and enforced in accordance with the laws of the State of West Virginia, as they may be amended.
- **XVII.** This Bonding Agreement shall be binding upon the successors and assigns of each party hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Bonding Agreement to be executed by their duly authorized officers effective as of the date first above written.

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS

Doren Dar

Witness

By:

State Highway Engineer

AUTHOR RESOLVERS APPALACHAN Composition

Bv:

Title: VP Accounting and ADMINIST DATE

(To be executed in duplicate)

APPROVED AS TO FORM THIS DAY OF May 20/2

ATTORNEY LEGAL DIVISION
WEST VIRGINIA DEPARTMENT
OF HIGHWAYS

Form WW-9 Additives Attachment

SURFACE INTERVAL

- 1. Fresh Water
- 2. Soap -Foamer AC
- 3. Air

INTERMEDIATE INTERVAL

STIFF FOAM RECIPE:

- 1) 1 ppb Soda Ash / Sodium Carbonate-Alkalinity Control Agent
- 2) 1 ppb Conqor 404 (11.76 ppg) / Corrosion Inhibitor
- 3) 4 ppb KLA-Gard (9.17 ppg) / Amine Acid Complex-Shale Stabilizer
- 4) 1ppb Mil Pac R / Sodium Carboxymethylcellulose-Filtration Control Agent
- 5) 12 ppb KCL / Potassium Chloride-inorganic Salt
- 6) Fresh Water 80 bbls
- 7) Air

PRODUCTION INTERVAL

- 1. Alpha 1655
 - Salt Inhibitor
- 2. Mil-Carb
 - Calcium Carbonate
- 3. Cottonseed Hulls
 - Cellulose-Cottonseed Pellets LCM
- 4. Mil-Seal
 - Vegetable, Cotton & Cellulose-Based Fiber Blend LCM
- 5. Clay-Trol
 - Amine Acid Complex Shale Stabilizer
- 6. Xan-Plex
 - Viscosifier For Water Based Muds
- 7. Mil-Pac (All Grades)
- Sodium Carboxymethylcellulose Filtration Control Agent 8. New Drill
- Anionic Polyacrylamide Copolymer Emulsion Shale Stabilizer
- 9. Caustic Soda
 Sodium Hydroxide Alkalinity Control
- 10. Mil-Lime
 - Calcium Hydroxide Lime
- 11. LD-9
- Polyether Polyol Drilling Fluid Defoamer
- 12. Mil Mica
 - Hydro-Biotite Mica LCM

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene - Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite – LCM

25. Mil Bar

Barite – Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate – Alkalinity Control Agent

28. Clay Trol

Amine Acid complex – Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt - Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

31. Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant



		Well Table		
Prop. Well Universed Unit A WAYMOUT IN SERECTS WAYMOUT IS TO WITH THE LOW MODE: WITHOUT LOW WORLD LOW WO	Prog. Well Uncarned Unit A Prog. Well Onescro Unit 114 WHAT HANDER IN A PROG. WHAT IS THE WAY WELL IS A SECURITY IS A SECURITY IN A SEC	PPQD, Well Clete Unit 2H w/w.hudst in the secure w/w.hudst in this was Lit wast, with the secure Lit wast, with the Lit wast with the Lit	Prop. Wed Cleia Unit 1H www.wozer te zesezus www.wozer te zesezus LATWOZE SETEZUSE LATWOZE SETEZUSE LATWOZE SETEZUSE LOW WADE SETEZUSE	Prop. Well Opie Unit 1H WHAN NACET I SAGRE 11 WHAN NACET I FINISES SE LAT NACET SETSTEE LAT NACET SETSTEE LAT NACET SETSTEE LAT NACET SETSTEE LON NACET SETS
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ect Com	m Res
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Tom Wince - Construction 304-869-3405 Off. 304-483-0933 Cell

Eli Wegoner, Environmental Engineer 304-822-3842, ext 311 Off. 304-476-9770 Cell

John Kawcak, Engineer 817-368-1553

Dusty Woods 817-771-1436

Anthony Smith, Field Engineer 304-869-3405 Off. 304-673-6196 Cell Aaron Kunzler, (405-227-8344

626 from occupied dwelling or barn greater than 2800 SF used for poulity or dairy measured from the center of the pad.
 100 from edge of disturbance to wetlands, perennial streams, natural or artificial lal pond or reservoir.
 300 from edge of disturbance to a naturally reproducing trout stream.

* 250' from an existing well or developed spring used for human or domestic animals

and Fracture Pit constru

Well Lox All Pad

Surveyor & Engineer

Bill Yetzer, PS, EI, - Allegheny Surveys Inc. 304-848-5035 Off. 304-619-4937 Cell

Kirk Wilson, PE - L&W Enterprises, Inc 304-257-4818 Off. 304-868-0365 Cell

DO SITE CONSTRUCTION ACTIVITIES TAKE PLACE IN FLOODPLAIN: NO PERMIT NEEDED FROM COUNTY FLOODPLAIN COORDINATOR: NO HECAAS STUDY COMPLETED: ON IN	FLOODPLAI	FLOODPLAIN CONDITIONS	
N/A	DO SITE CONSTRUCTION ACTIVITIES TAK	B PLACE IN FLOODPLAIN:	NO
05/WA4/20	PERMIT NEEDED FROM COUNTY FLOODE!	AIN COORDINA TOR:	ON
840 <mark>09</mark> 078 S40 09 078 SODELAIN: N/A	HBC-RAS STUDY COMPLETED:	0	N/A
840 <mark>2</mark> 4/20	FLOODPLAIN SHOWN ON DRAWINGS:	5/	N/A
1/20	FIRM MAP NUMBER(S) FOR SITE:	5400 <mark>520</mark> 075B	
20	ACREAGES OF CONSTRUCTION IN FLOOD	4/2	¥
		2(

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

Know what's below.

Call before you dig.

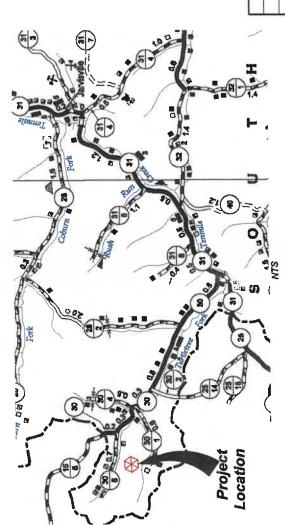
ANTERO RESOURCES APPALACHIAN CORPORATION **EROSION & SEDIMENT CONTROL PLANS** SITE DESIGN, CONSTRUCTION PLAN, & CORDER EAST PAD





	SITE LOCATIONS NAD 83	
	LATTUDE	TONGLINDE
Contor of Pad (UTM Moture)	N=4341550.8 m	E=538550.6 m
Center of Pad	39.2223892	-80.5534011
Beain Access Road	39.2234341	-80.5565749

UNION DISTRICT HARRISON COUNTY, WY TENMILE CREEK WATERSHED



West Virginie State Plane Coordinate System Wark Zone, Wark Zone, Wark Sesad on NAVD88 Established By Survey Grade GPS & OPUS Post-Processing	AFFECTED TAX PARCELS: 361/3, 361/4, 361/5, 361/10, & 361/71 UNION DISTRICT (HARRISON COUNTY)
West Virginie State Plane Coordinate System Worth Zone, NAD27 Elevations Based on NAVD88 Established By Survey Grade GPS & OPUS F	AFFECTED TAX PARCELS: 361/3, 361/4, UNION DISTRICT (HARRISON COUNTY)
一次	-

Allegheny Surveys, Inc. 172 Thompson Drive Bridgeport, WV 26330 (304) 848-5035

Road A = 1.22 Acres, 200 ft of RD A)

Road A = 1.23 Acres, 350 ft of RD A) (Affected area from P.

TM 361 - Pcl. 5 Steve C. Kovar, 1140/1150

EPANI: KIRK@CII PAX: 304-257-2224 PANAII: KIRK@CII

L&W ENTERPRISES, INC.

(Affected area from Propo (Affected area from Propo (Affected area from Propo

TM 361 - Pol. 10 Gerald W. Corder, et ux 1206/378

Access Road A = 1.65 Acres, 388 If of RD A)

Drill Pad = 1.79 Acres) (Affected area from Propose (Affected area from Propose TM 361 - Pol. 11 Roger M. Corder

N N

(Affected area from Proposed Drill Pad ≈ 0.81 Acros) (Affected area from Proposed Topsoil Stonage Pad = 0.35 Acres)

LOD Area (ac)	
Road A (938 ft)	4.12
Drill Pad	4.08
Topsoil Pad	0.94
Total Affected Area	9.14
Total Wooded Acres Disturbed	8.74
Total Linear Feet of Access Road	938 Feet

THIS DOCUMENT PRITABLED FOR ANTERO RESOURCE APPALACHIAN COR

*NOTE: No Streams or Wetlands Were Impacted by this Design

DRAWING INDEX	
1 COVER SHEET/LOCATION MAP	CATION MAP
2 SCHEDULE OF QUANTITIES	IANTITIES
3 CONSTRUCTION, EF	3 CONSTRUCTION, EROSION, & SEDIMENT CO
4 EXISTING CONDITIONS	SNOT
5 PLAN SHEET INDEX	*

UNION DISTRICT HARRISON COUNTY, WV

CORDER EAST PAD

COVER SHEET/LOCATION MAP

NATROL NOTES

8 DRILL PAD BASELINE PROFILE & CROSS SECTIONS 6-7 SITE PLANS

9 ACCESS ROAD A CROSS SECTIONS

Date: 6/5/12	Scale: N/A	Designed By: CKW/CKM	File No. Antero 250-11	
11 RECLAMATION PLAN	REVISIONS			
11 RECL	DATE			

The Junio

SCHEDULE OF QUANTITIES





EWFIF: KIKK@CILI'INK'NEL LYX: 304-521-7554 LH: 304-521-4818









Topsoil Storage Pad Capacity Report

UNION DISTRICT HARRISON COUNTY, WV CORDER EAST PAD

SCHEDULE OF QUANTITIES

Date: 6/5/12

Scale: N/A
Designed By: CKW/CKM
File No. Autero 250-11

P. P. C. D. R. D. C. B. T. B.

	٥	Corder East Pad Quantities	ad Quantitie	S		
Description	Cut (CY)	FILL (CY)	Spoil (CY)	Borrow (CY)	Max. Slope	Spoil (CY) Borrow (CY) Max. Slope Length Of Slope
Road A	960'9	7,115	e/u	1,019	8.31%	300 ft
Drill Pad	20,528	19,625	903	n/a	n/a	n/a
Topsoil Pad	179	1,181	e/u	1,002	n/a	n/a
Totals	26,803	27,921	903	2,021	n/a	n/a
	Total Spr	Total Spoil (CY) =	-1,118	(Excess Spoil Capacity)	Capacity)	

The earthwork quantities provided are an estimate for consideration. The quantities shown may be greater or less than actually excavated. The engineer is not responsible for variances from the estimated quantities and does not certify to their accuracy.

EARTHWORK & CAPACITY REPORTS

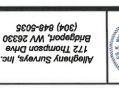
Drill Pad Earthwork Report

REVISIONS DATE

05/24/2024

Well site Ivalibel. Colder test for	Init	Ouantity	Unit Price	Total
	1110	Coaline		
	AC	9.14		\$
D. Tarbor Domonal	AC	8.74		
	5	3,400		ŧ0.
	5	150		\$
	5	650		\$
Excavation (Cut Only)				\$
A. Drill Pad	Շ	20,528		s,
B. Access Road A	CY	960'9		•
C. Tousoil Storage Pad	ζ	179		\$
D. Topspil	Շ	3,600		•
F Diversion Ditch	ζ	0		S
E Diversion Ditch Lining Repudlex TRM	λS	0		\$
G Roadside Ditch	Ħ	550		· ·
H. Ditch Lining (Access Road)	Y.			*
1. Recyclex TRM	λS	0		\$
2 lute Mattine	SY	300		· •
3 Seed and Mulch	SY	0		\$
A" DVC Consortion Dips	5	1,175		\$
24" HDDI Canned Pine (12 Total 24" Deep Sumbs)	<u>u</u>	30		٠ \$
V 3A" UDBI Countrand Grate	EACH	17		45
				S
Crone				4
A A" Ric Ren (folets/Outlets and level Spreaders)	Tons	'n		- \$
A. 4 Northern Charles and Care	Tons	m		٠,
HS SIGNE (Diren Cherks)				
Appropriate Surfacing				٠ \$
A Drill Pad 40 Mil HDPL Liner	SF	82,500		· •
Drill Dad 10 cy Felt	SF	82,500		\$.
	Tons	1,100		\$
	Tons	3,500		· \$
D. DIIII Fad J. Crean Agricultural J. C. Communication Com	Tons	240		-
	Tone	960		, S
F. Access Road A 4 Illinus Apprehence (U.) G. Access Road A Geotextile Fabric (US 200)	SY	2,300		\$
5. Road Cuiverts (1 Total)	2	mt.		
A. 15" CMP (1)		201		
6. Lime, Fertilizer, Seeding, and Hydro-Mulch with Tack (HYC-2 or Equal)	SY	17,000		•
Site Seecing	AC	8		٠.
	ΔĈ	c		· ·
KPCBMBTOD		,		

CONSTRUCTION, EROSION AND SEDIMENT NOTES

















THIS DOCUMENT PREPARED FOR ANTERO RESOURCES APPALACHIAN CORP DUSTRUCTION, EROSION AND SEDIMENT NOTES

UNION DISTRICT WY

CORDER EAST PAD

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_	DATE	REVISIONS	Date
		Carried Control	Scale
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-			THE PER

CONSTRUCTION SPECIFICATIONS:

- 2. THE CONSTRUCTION DOCUMENTS SHOW THE DISTINGA NO NEW GOLDES AND BERKI, ETT. THAT ALL CUT AND FILL ESTILAITES AVE BASED UPON. THE PROMETRY SOFT THE CONDITIONS.
 FROM THE DOCUMENT SOFT THE CAUMITTES AVE ONLY ESTILAITES AND MAY CHANGE BASED ON ACTUAL HELD CONDITIONS. O THE SCOPE OF WORK AND SHALL CON THE IMPOUNDMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE COM-GENERALLY WITH THE GRADES, BERNS, DEPTHS AND DIMENSIONS SHOWN.
- WAND SAMPLES AS REQUIRED BY THE THE GRADES, BERNS, DEPTHS, AND DAMENSTONS MAY CHANGE BASED ON ACTUAL PRELD CONDITIONS. THE ENGINEER RESER GRADES, BERNS, DEPTHS AND DIMENSTONS AS NECESSARY TO MEET FIELD CONDITIONS. THE CONTRACTOR SYLL PROVIDE THE ENGINEER ALL REASONABLE FACULTIES AND PROVIDE INFORMATION ENCINES INFORMATION OF MATERIAL VORMANISHES.
- THE CONTRICTOR SWILL HING ON SITE AT ALL TIMES WHEN CONSTRUCTION IS IN PROPRIESS A COMPETENT SUPERINTENDENT THOROUGHLY FAMBLAN. WITH THE CONSTRUCTION OF EARTH BEENIS AND EMBANMANIENTS, THE COMPACTION OF SOLIS AND PLACEMENTS OF LINERS.
- N THE DRAWINGS IN ACCORDANCE WITH WV DEF LL EXCAVATIONS TO PREVENT FLOODING AND 1°2 8.1°50.0K/ SUPER SIL TENCE SWILL EE INSTALLED PROOR TO CLEMENIO AND ORTIGISMO AS SHOWN! EESE TAMMOLEDER PROJECTION SAMMAL, ON WHITS AS SURFACE WATER SWILL BE DIVENTED AWAY FROM SOFTEMING OF THE SUBSIANCE OR COMPACTED MATTERIALS.
 - THER MATERIAL THAT IS NOT TO BE REUSED FO BRIS SHALL BE BURBED OK-SITE WITHOUT THE RUCHED, CLEADWG AND GRUEBAG SYALI REJAONE ALI BRUSK, TREES, ROOTS, STUMPS, REPROSS SOINS OF ANY C LANDONNERS AND ENABLESTING WHITTEN PERMISSION, ANY DEBUSK DIFFLE STREES WILL BE SEEDED AND CALL BROWN DE TREES WHITTEN PERMISSION, ANY DEBUS SOINAL STREES WILL BE SEEDED AND CALL BROWN DEPART.
 - TOP SOLL SYLLI BE STREWED AND STOCKPLED WITH APPROPRIATE STABLIATION AND SET FERKE TO PREVENT EPOSION. THE TOP SOIL SYALL BE REUSED DURHA THE RESLAMITON PROCESS OR ON THE FALCE OF THE MIPCURAMENT PROR TO SEEDING.

 - R. TOE CLTS OF IT MANKEN WIDE SYLL BE EXCANATED ON ALL RECEIVING SLOPES TO PROVIDE A BASE FOR THE IMPOINDAMENT BESIA. ADDITIONAL. TERROCING SYLL BE CONSTRUCTED FOR EACH ADDITIONAL FEET OF SLOPE AND SYLL BE A MINIMAN OF TEN (10) FEET WIDE.
- TO, PRORETO PACINE ANY FILL THE DEPOSED SUBGRADE GAMLI BE COMPACTED AND PROOF FOLLED TO PRODUCE A STRUKE AND IMPREDIATE STRUKE AND IMPREDIATE STRUKE AND IMPREDIATE STRUKE AND IMPREDIATE STRUKE, BROSE, OR OTHER DELIFIEROUS ANTIFER.
- DIVECTOR DEPARTMENT OF THE SET ATTAIN DARK DIVECTOR DARK OF THE SET ATTAIN DARK OF THE SET

ALL TEST RESULTS GWILL RE SUBMITTED TO THE BIGINEERS FALLING TO CONDUCT DENSITY TESTS SWILL RE CAUSE FOR NOWACCEPTANCE OF THE MICHAL RESONATIONS FOR NOWACCEPTANCE OF THE MICHAL RESONATION OF HIS ABBIT.

SATEMOTORY MATERIALS FOR USE AS FILL FOR PUD MEDS INCLIDE MATERIALS CLASSIFED IN ASI. CL GROUNS, THE MOSTINGE CONTINUE CONTINUE TO STATE DITAIN THAN USE AND THE ON USATISMACTION MATERIALS INCLUDE MATERIALS LASSIFED IN MATERIA SATEMO ASIRA AS INCLUDED CHANDIN MOSTA MAY EXCESS SAME OF THE OPPORTUNE OF THE BIGINEERS SOLIS SPALL HATE A MAIN SMALL HAVE A PLASTATI MEDCLESS THAT IT.

FILL SHALL BE PLACED IN LIFTS AT A MAXIMUM UNCOMPACTED DEPTH OF 12-INCHES WITH SOIL FREE FROM AGGREGATES EX

- - DD BY THE CONTRACTOR TO BE CLEAR OF ALL
 CAT DD WHTH A SINGLE TOOTH MAPER, THEN THE
 LANY BE USED. AS IS OF MAST BE REHOVED BY
 ACED WITH APPROPRIATE FILL AT THE
- SHARP ROCKS IN ORDER TO RECEIVE THE LINES
- T SURVEY OF THE IMPOUNDMENT TO BUSURE THE BUGINEER WHO WILL MAKE CTIVE WORK 16. PRIOR TO THE LIMER NETALLATION THE CONTRACTOR SAULL CONTRICT THE SUSPRIOR TO DOLANGE ME. CONFORMATION WITH THE BROWNERS DOMINIOR THE SURFECTION SAULT PROMISE THE INSCRIPTION DETENDED, SOULMY TONS ON MY WORKINGH THE DAMININGS AND IDEECT THE CONTRACTOR TO DO CORPSE. 14. THE INSIDE OF THE IMPOUNDMENT SYALL BE BOTH SMOOTH DRUM ROLLED AND PREE OF PROT
- ICE WITH MANUFACTURERS INSTRUCTIONS. THE SKHLLED WITH SELECT FILL AS SHOWN ON THE
- 16. LIMEN SWALL BE POLYTEK IMPERIODOS TEXTURED HOPE CEOMEMBRINNE, RMMI, INSTILLED IN LOCOTOM, TO OP THE LIMEN SWALL BE THROUGH DOWN WITH TA ANCHOR TRENCH AT THE TOP OF THE BERUM AND EM DAWNING COMES TRENCH AT THE TOP OF THE BERUM AND EM DAWNING COMES COMES COMES TO SHE DESTINATED THROUGH THROU
- нютовычню восиментам мунд ветимем вут не сомплистов мир якомера по те вмамеря ос те Ресцоимо детитек; 4 атт. 4 тек Немым ило венемиех, та не тектет точности. 3, тое кем ило вмечетим темси сометистом, 4, дм. гнегото ос от мол я Оченитом, 6, рессуляемый техт.
- PROR TO ASBURIT CERTIFICATION. THE CONTRICTOR SHALL PROVIDE THE ENCHEND WITH A COMPLETE BINDER THAT INCLUDES ALL PHOTO ASBURIT COMPLETIVENT COMPLETIVENT OF THE COMPLE

ALL DISTURBED AGEIS NOT PAYED OR BLILT UPON SHILL BE SEEDED, SLOPE MATTED AND FERTILIZED. PERFORM PERMINENT TOP SOILING, SEEDING. PERTILIZING, AND MATTEN BAS SOOM AFTER PHISSI GRADING AS POSSIBLE. SEEDING SHILL COMPLY WITH THE FOLL DHING.

M LOH - WOOD TEBET OR CHAPPED STRAW AT RATE OF 2 TONS PER ACRE. HTDROAKLICH (EMST COMST EROSKON COMTROL MAMISHICTIKEER'S RECOMMEND PATE OR 2000 LBAC WHICHENEN IS GREATER.

SEED - 46 LBS. PER ACRE TALL FESCUE AND 20 LBS. PER ACRE PERENMAL RYE GRASS. TO BE SEEDED BY MAND OF

ALL TEMPORARY ENCION AND SEQUENT CANTROL MEASURES SHALL BE REMOVED WITHIN SO DAYS AFTER FINAL SITE STRELLDATION OR AFTER. TEMPORARY MESSURES ARE NO LONGER NEEDEL, UNICES OTHERWISE AUTHONORDE BY THE CAGNEER. TRAPPED SEQUENT AND THE DISTURBED AND ARES AREADED TO PREVENT FAITHER ENCIONA AM SEQUENTIATOR. STRBILDATION MENSIONES SYALL BE APPLIED TO ENTITIES STRUCTURES SUCH AS BAPOUNDMENTS, DIVES AND DIVERSIONS BARESURET YATER INSTALLATION. SEDARAT BASINS AND TRAPS, FERBAETER DUES, SEDAREIT BARRERS AND OTHER MELSJARES HTENDED TO TRAP SEDAREIT SWALL BE O'M A FREST STEP RI ANY LAND DISTLIRBANG ACTIVITY AND SWALL BE MADE FLANCTONAL BEFORE LIPSLOPE LIAND DISTLIRBANGE THUES PLACE.

05/24/2024

SENERAL NOTES

- PEGLECT DESCREPTION. THE RIPPOSE OF THIS PROJECT IS TO GRADE AND INSTITUT EROSON AND SEDIMENT CONTRICT, MELISTIESS, IN PREPARATION POR THE CONSTITUTION OF A 648 WELL PAD INCH BIG ISJAC, INSTITUTIONALLY WHAT THE CONSTITUTION INCLUDES ONE ACCESS ROAD, WITH THE PROJECT IS SHA AGRES.
 - EXSTING STE CANDITIONS. THE EXCENS STE IS UPLAND HARDHOODS WITH MICHEALTE TO STEEP TO-POGEN-PHY WITH BY, TO SIN SLOPES, NO BROASING NOTED ON STEE, UN AUGURANGE HARDHOOF AREA.
- <u>SORS</u>: NO SOR. STUDIES OR INVESTIGATIONS WERE DONE WITH FOR THIS PROJECT.

EROBON AND SEDMENT CONTROL MEISURES SHALL BE MANTANED DALL'N RELOCATED MIEN NECESSARY AND SHALL BE DESCRED AFTER ENFENY DANSE STAND OF GARS. SHALL BE DESCRED AND MOLDED, NESSEEDED AND MOLDED, AS INCESSARY TO GETAN LAND SHALL BE DANSE.

ALL DRAIN RLETS SYALL BE PROTECTED FROM ALL TATRON, INEFFECTIVE PROTECTION DENCES SYALL BE REPLACED AND THE MLET CLEAVIED. FLUSH. NOT NALVOCEPTIALE EMENNS OF CLEAVING.

тье соиткусток із кезуолживе етистолтню аде тередо сокрамуєть птелем мику це ву окадальсьят то тье сомятилетном вте тне соктикусторе вужец ветежующих вете предвужения и мужение, окада предвужения вужения вужения сомятиленного муже тектурант надвя траду по диму восумиться тье соктаются вуже сещь все запати и предвужения.

ALI MITERALS INSED FOR FILL OR BLOX FILL SKILL BE FYGE OF WOOD, ROOTS, ROCKS, BOALDERS OR ANY OTHER NOW-COMPLES OIL TYPE MATERALS, UNSATISSACTORY MATERALS ALSO INCLIDE LIAN MADE FILS AND REFUSE DEBOIS DEROITED FROM ANY SOURCE.

TED METAL, OR HIDPL STORM PIPE SHALL BE IN CONFORMANCE WITH THESE DRAWINGS.

WORK ON THE PROJECT SHALL CONFORM TO THE LATEST EXTRONS OF THE WEST VERSIME DEFURTIEST OF ENVIRONMENTAL PROTECTION EROSOON. IN THE PROST OF CONFLICT BETWEEN THE DESIGN, OFFERSONS OF TAME, THE LOUGHEY WAS CONFLICT BETWEEN THE OFFERS.

- CONTAL EDITION AND ACCOUNTS. WITH THE THE STATE OF A STATE OF THE CONTROL OF THE
- EDISION AND SEDMENT CONTRICK MENSINES. UNLESS OTHERWISE INDICATED. ALL YEGETHING AND STRUCTURAL MESSAGES CONTRICK
 PROPERS SHALL CONTRICK THE DOMININATION FOR MENSION FOR SECRETARIAN SHALL SHAL

- - HANGEMENT STRATECES. CONSTRUCTION WILL BE SECUENCED SO THAT GROUND OPERATIONS WILL BERN AND END AS SOOM AS POSSBUE. THE ASSEMBLENGED WE WAS SERVED THE STRATEGY OF WALLE GROSOM HAD SERVED INEIGHTES, AFTER ASSEMBLENGED SECUENCE SERVED FOR THE STRATEGY OF T
 - SECUENCE OF EVENTS. A A PRE-CONSTRUCTION CONFEDENCE WILL BE HELD ON SITE WITH CONTRACTOR TO REVIEW THE CONSTRUCTION DRAWINGS AND PROVIDE RECUESTED GHILDANES.
- C. CONSTRUCT ALL PROPOSED SEDMENT CONTROL DEVICES AS SOON AS CLEARING AND GR. SEDMENT BASINS SYALL RE SEEDED AND MALCHED MAKEDATELY. B. CONSTRUCT THE CONST
- D, CLEHA AND GALIR, TRENONE TUPSCUL AND PLACE AT AN AREA DETENJANDED IN THE PIELD WHERE ERCONOM WALL NOT TAKE PLACE. TOPSCUL STOODPLE TO BE SEENED AND MALCHED. SLI FRENCE SAVIL SE CONSTRUCTED AROUND TUPSCUL STOODPLEN.
- E BRUDNO OPERATOUS AS RECURED. CUT SLOPES AND FLL SLOPES SULLI BE TOYSOLID F NEDED. DITON LINES SYALL BE CLEMED. AL POTCHES MLL HAVE ALLESS FORSES, LIMINO PROTECTION OF GREATER BASED ON DITCH SLOPE WITH THE FOLLOWING DETERMINITION, OT DIS A BOASS HAMD, 3 TO PK. JUTTE MATTING, AND OF GREATER THAN THE PASS OF DITCH SLOPE WITH THE FOLLOWING DETERMINITION, OT DIS A
- E, CLIVECTINLET AND CHTET PROTECTION SHALL BE CONSTRUCTED MANEJUNTEX LIPON PLACEMENT OF INLETS AND CILVERTS. INSTILLATION OF MATERIAR MAD PARE NO FOCUR ONCE DITHERS AND CHRONES OF CONSTRUCTED.
- Q WENT RAUL GRADE IS ACHEMED. TO BE PLACED ON ALL DISTURBED AREAS NOT LINED. SEED ALL DISTURBED AREAS AS REQUIRED. A SOIL SACULD BETTEN AND ALL DISTURBED AREAS AS REQUIRED. A SOLL DISTURBED AND ALL DISTURBED AN
 - H. LIME, FERTILIZER, AND SEED WILL BE APPLIED BY HAND OR USING A HYDRY. ACCORDANCE WITH HANUFACTURERS SPECIFICATIONS.
- I, WHEN SITE IS STABLIZED, ALL BROSKON AND SEDSMENT CONTROL ACCORDANCE WITH STATE STANDARDS.

FEMANSHT OR TEAPORARY SOIL STABLEATION SHILL SE APPLED TO DENUED AREAS WITHIN SEVEN DAYS AFTER PAUL, GRADE IS RELICIED OM ANY PROTICON OF THE SITTE TEAPORDERY SOIL STRUELDATION SHILL SE APPLED WITHIN SEVEN DAYS TO DENUED AREAS THAT MAY NOT BE AT FIRML GRADE BATHAIN FORMAN DORMAT (MASSTARES) FOR LONGER THAN 21 DAYS, PERAMMENT STABLEATTON SHULL BE APPLED TO AREAS THAT MET TO BE LEE DORMANT FOR ALOSE THAN ONE TEAR.

SON AND SEDMENT CONTROL MESSINES SHULL SE MUNTAND CONTROLOGS, Y, RE CONTED WHEN AND AS NECESSARY AND SHALL SE THE INSTRY MANULL SEEDE DAILS SHALL SE CHECKED REGILARY AND SHALL SE WITERED, FERTILIZED, RESERVED AND MALCHED AS NECESSARY STANA NEWSE STAND OF SHALS.

ALL DISTINESED AREAS NOT EAVED OR BLILT UPON AGE TO BE FERTILLED, SEEDED, HYTHOGOSEEDED MITH STRAW AND COTTEM PRODUCT WITH TAKEN AGENTO DE MACKEED DY THE COMTRACTOR INACOCRIDANSE WITH THE CLARREIT WEST VIOLAND ENCOURD AND SEDIMENT CRATTICAL BEST MANAGED. PRICTICE MANIAL.

ALL DRAWINETS SHALL BE PROTECTED FROM SLITATION, INDEPENDENT OF DEPARTMENTELY REPLACED AND THE MAET CLEMED, FLORINIO IS NOT AN ACCEPTABLE METHOD OF CLEMING.

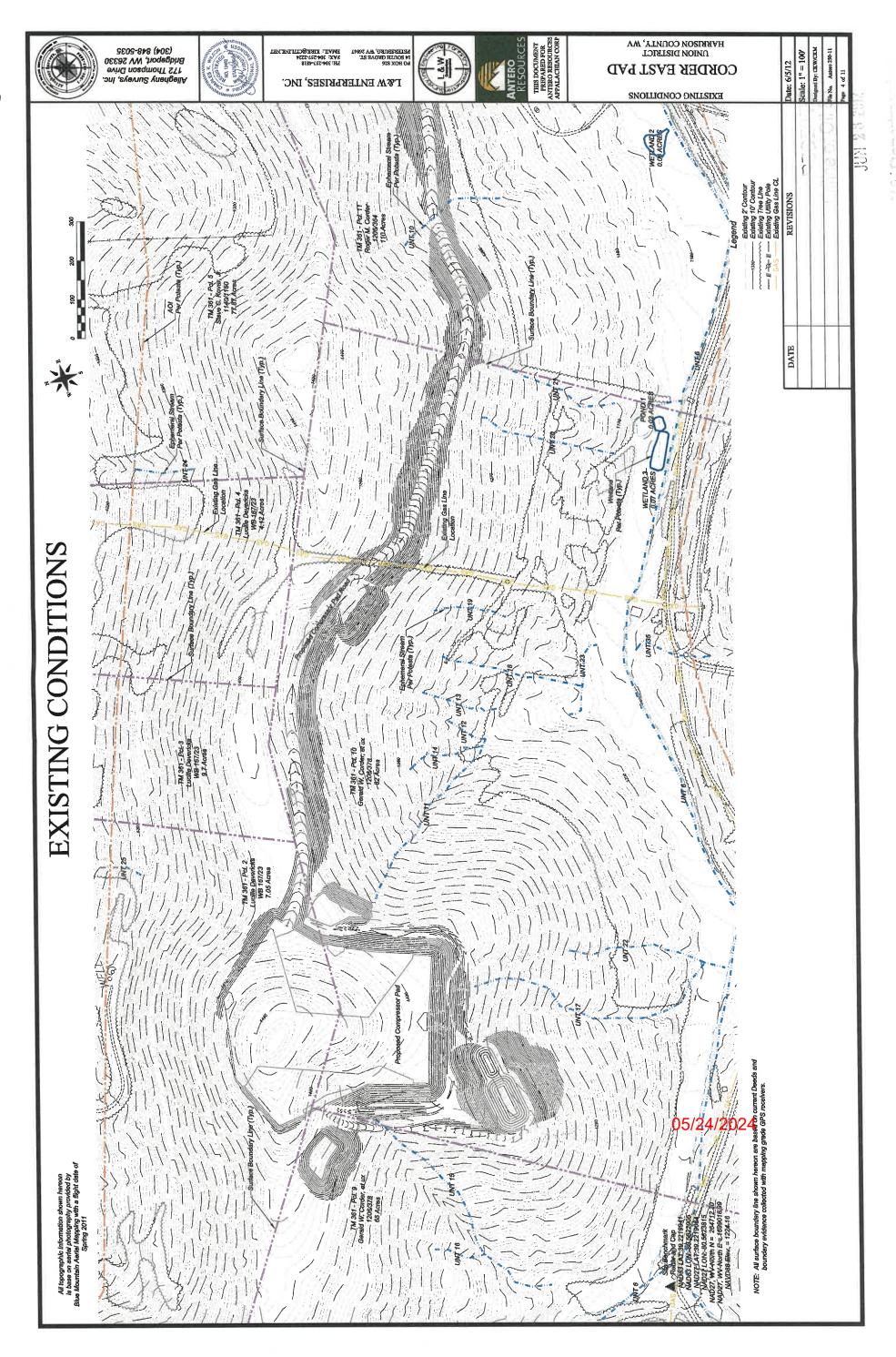
AL EROXINA CHITROL DEVICES AS SHOWN OF AS REQUISED. ARE TO BE CONSTRUCTED TO THE CLARBAT STANDARDS AND SPECHFOATIONS OF THE WEST VIRONIAL EROSION AND SEDIMENT CONTROL BEST LANAGEMENT PROFICE MANUL AND ARE TO BE IN PLACE PROR TO ALL CONSTRUCTION.

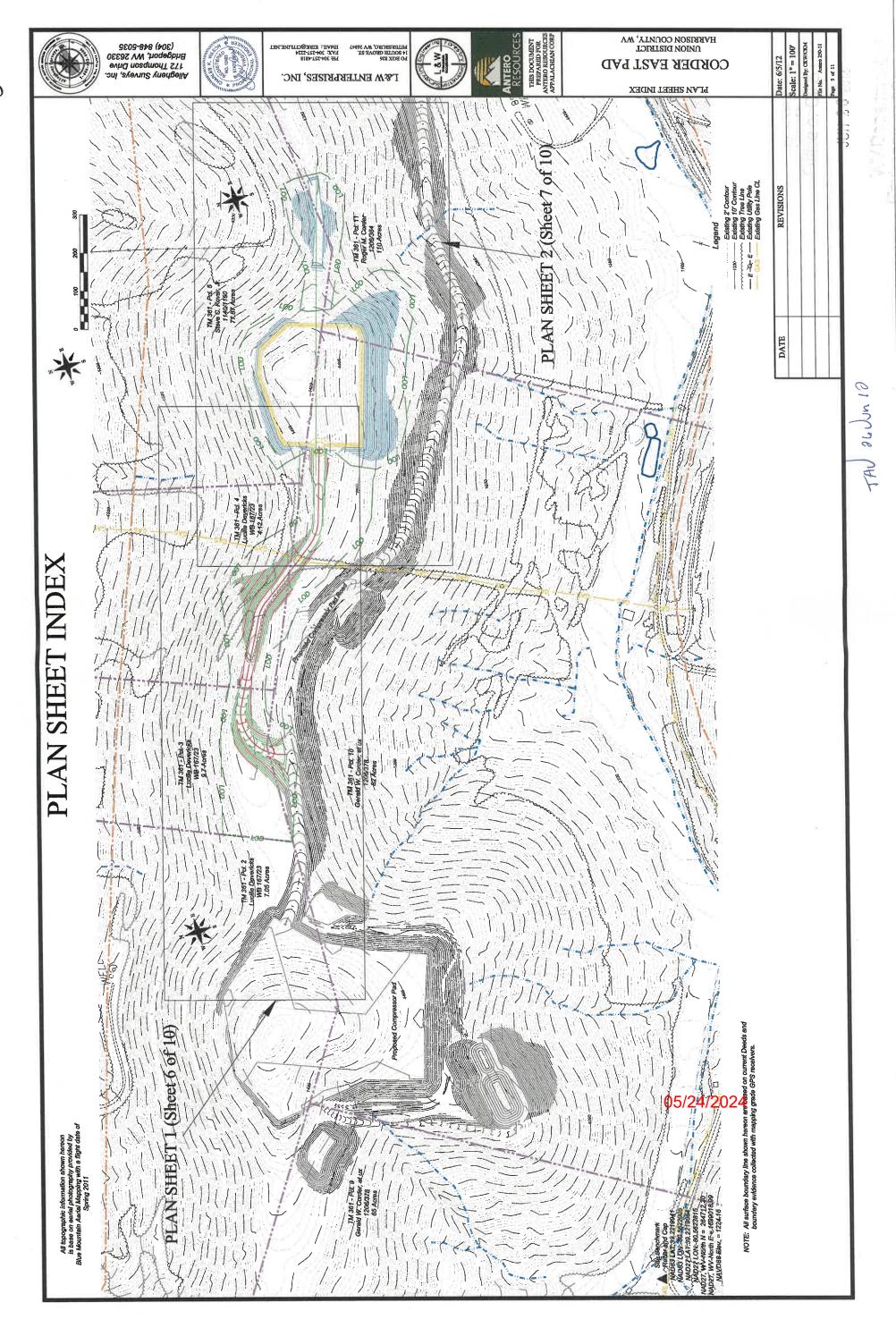
THE CONTRACTOR SHALL ARRANGE FOR A FRE-CONSTRUCTION CON HOURS PROR TO BEGINNING WORK

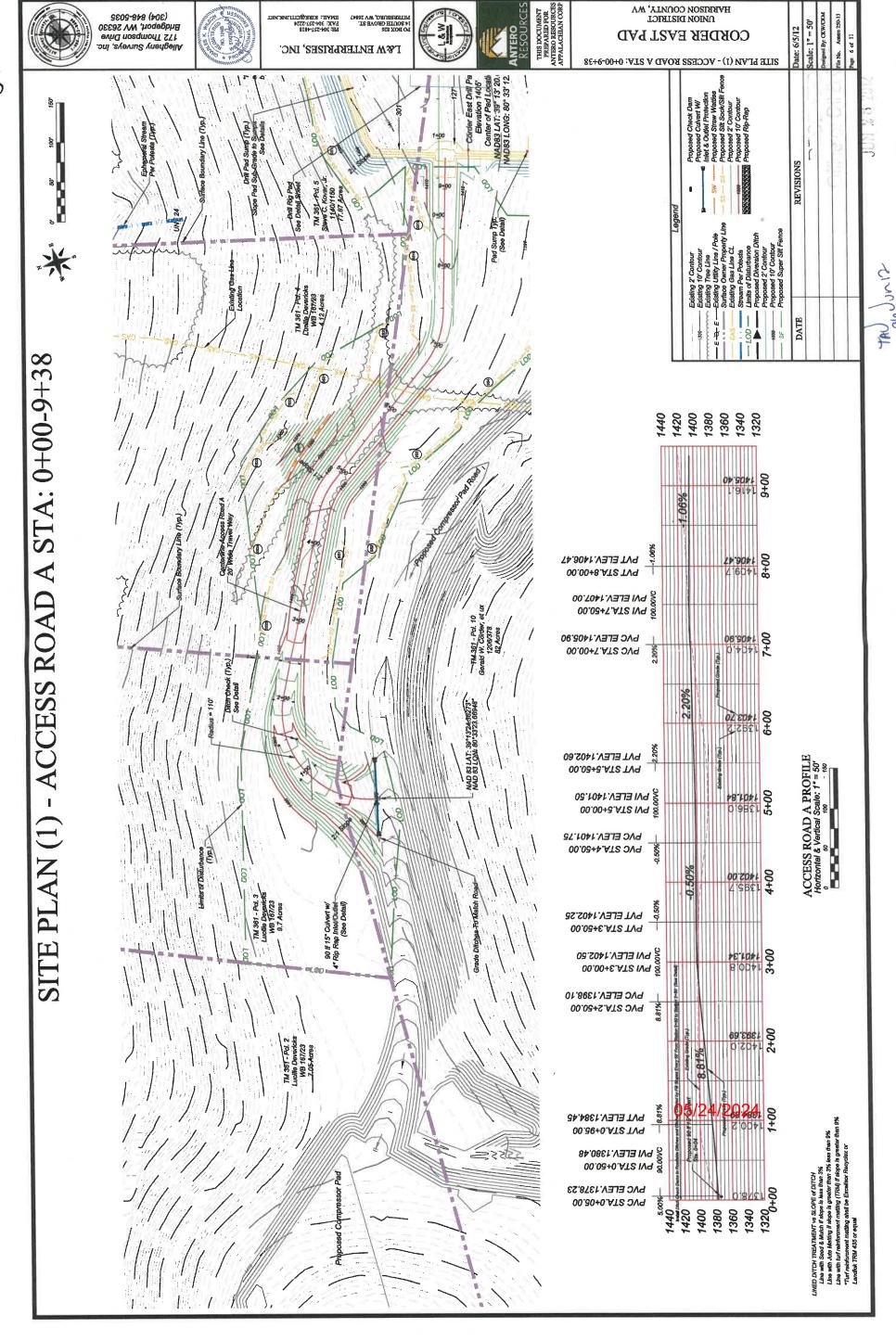
L. FINAL SEEDING MUST OCCUR WITHIN 7 DAYS OF FINAL GRADING

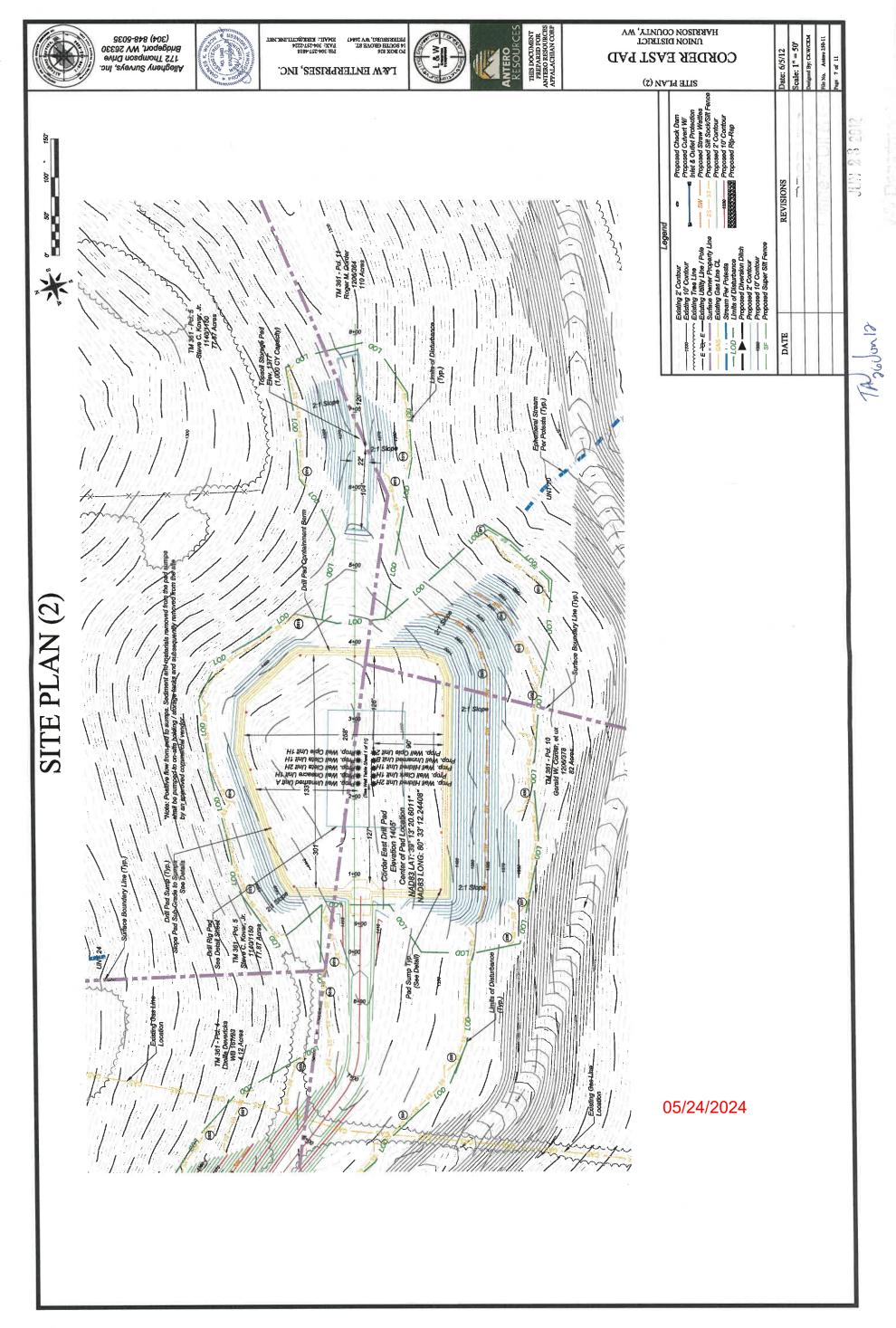
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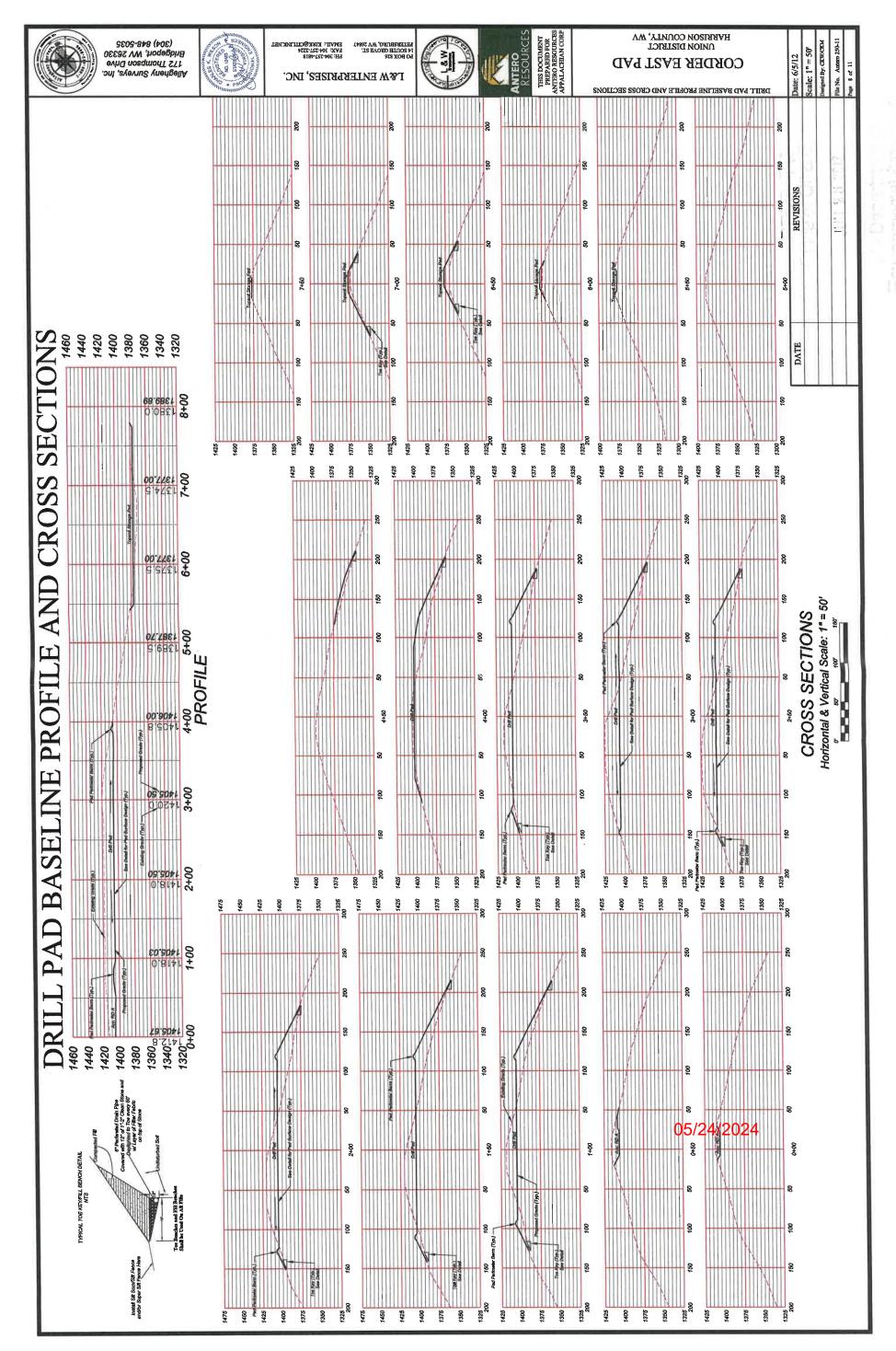
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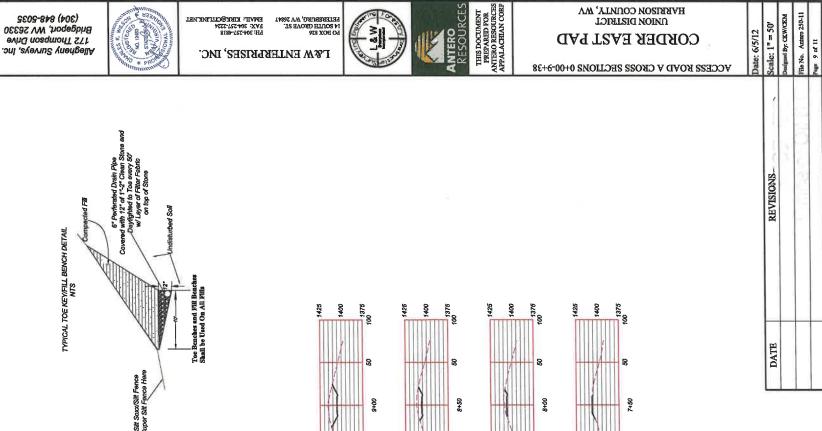






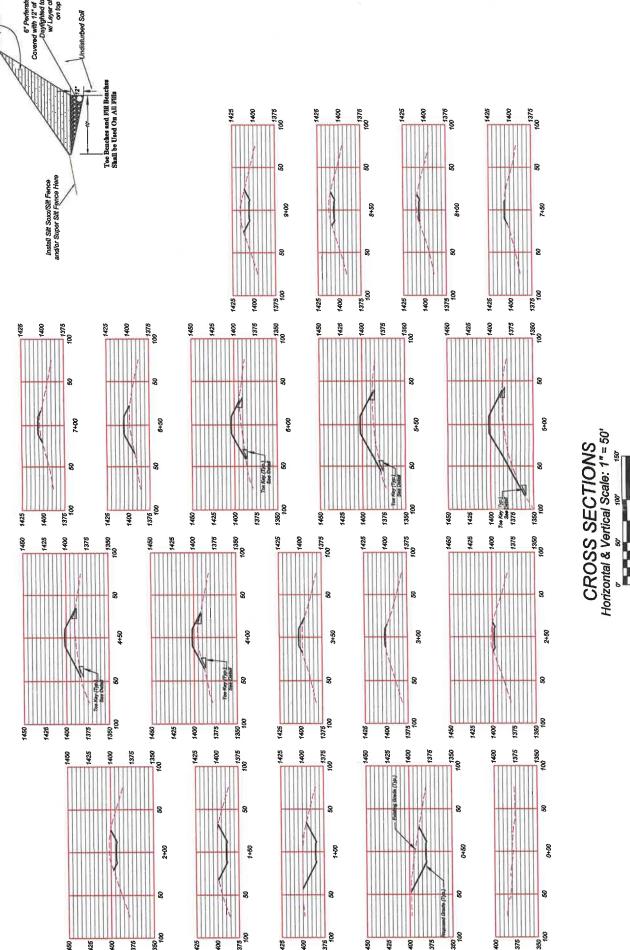


ACCESS ROAD A CROSS SECTIONS 0+00-9+38



UNION DISTRICT

JUN 23



05/24/2024

