

west virginia department of environmental protection

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

Harold D. Ward, Cabinet Secretary www.dep.wv.gov

Tuesday, September 20, 2022 WELL WORK PERMIT Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET DENVER, CO 80202

Re: Permit approval for NOMAD UNIT 2H 47-095-02823-00-00

This well work permit 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 any additional specific 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 permitted well work, 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.

Per 35 CSR 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) 926-0450

Martin ames A Chief

Operator's Well Number: NOMAD UNIT 2H Farm Name: DENNIS & CLISTA HEINTZM U.S. WELL NUMBER: 47-095-02823-00-00 Horizontal 6A New Drill Date Issued: 9/20/2022

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. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. 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 one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. 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.
- 4. 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.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
- 11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

APINO. 4-7-09502823

WW-6B (04/15)

OPERATOR WELL NO. Nomad Unit 2H Well Pad Name: Heintzman Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator	. Antero Res	sources C	orporat	494507062	095 - Tyler	Ellsworth	Porter Falls 7.5'
A to see when each				Operator ID	County	District	Quadrangle
2) Operator's We	ell Number: N	omad Uni	t 2H	Well P	ad Name: Heint	zman Pad	
3) Farm Name/S	urface Owner:	Dennis & C	lista Heint	zman Public Ro	bad Access: Elk	Fork Rd	
4) Elevation, cur	rent ground:	1215'	Ele	evation, propose	d post-construct	ion: ~1193	1
5) Well Type	(a) Gas X		Oil	Un	derground Stora	ge	
	Other						
	V. A. L. C.		X	Deep			
() Eviating Dade	Secondari 12		X				
 Existing Pad: Proposed Targ) Antici	insted Thickness		ressure(s).	
		1 1	· · · · · · · · · · · · · · · · · · ·	ss- 55 feet, Asso	and the second		
8) Proposed Tota	al Vertical Dep	th: 7100	TVD				
9) Formation at	Total Vertical	Depth: M	arcellus				
10) Proposed To	tal Measured I	Depth: 20	6600' M	D			
11) Proposed Ho	orizontal Leg L	ength: 16	6182.1'				
12) Approximate	e Fresh Water S	Strata Dep	ths:	420', 475'			
13) Method to D	etermine Fresh	Water De	pths: 4	7-095-00269 Offset wel	I records. Depths have	been adjusted ac	cording to surface elevation
14) Approximate							
15) Approximate	e Coal Seam D	epths: 58	5				
16) Approximate	e Depth to Poss	sible Void	(coal mi	ne, karst, other):	None Anticipa	ated	
17) Does Propos directly overlyin				ns Yes	No	, <u>X</u>	
(a) If Yes, prov	ide Mine Info:	Name:	_				
		Depth:					
		Seam:	-				
		Owner:					
					5	Edwa MG	4 - C
						que d	F
					8	176/22	
					0,		Page 1 of 3 09/23/202

OPERATOR WELL NO. Nomad Unit 2H

Well Pad Name: Heintzman Pad

API NO. 47- 095 -____

WW-6B (04/15)

18)

CASING AND TUBING PROGRAM

ТҮРЕ	Size (in)	<u>New</u> <u>or</u> Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	<u>CEMENT:</u> <u>Fill-up</u> (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	90	90	CTS, 86 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	525	525	CTS, 313 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	26600	26600	5785 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

ТҮРЕ	Size (in)	<u>Wellbore</u> Diameter (in)	<u>Wall</u> <u>Thickness</u> <u>(in)</u>	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	<u>Cement</u> <u>Type</u>	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-H/POZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

Stephen MG G126/22 Page 2 of 3 09/23/2022

API NO. 47- 095 OPERATOR WELL NO. Nomad Unit 2H Well Pad Name: Heintzman Pad

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill a new horizontal shallow well into the Marcellus Shale.

*Antero will be air drilling the fresh water string which makes it difficult to determine when fresh water is encountered. Therefore, we have built in a buffer for the casing setting depth which helps to ensure that all fresh water zones are covered.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 56.03 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.82 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers

Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.

Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface. Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A cement. Surface: Class A cement with 2-3% calcium chloride and 1/4 lb of flake Intermediate: Class A cement with 1/4 lb of flake, 5 gallons of clay treat Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51

Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.

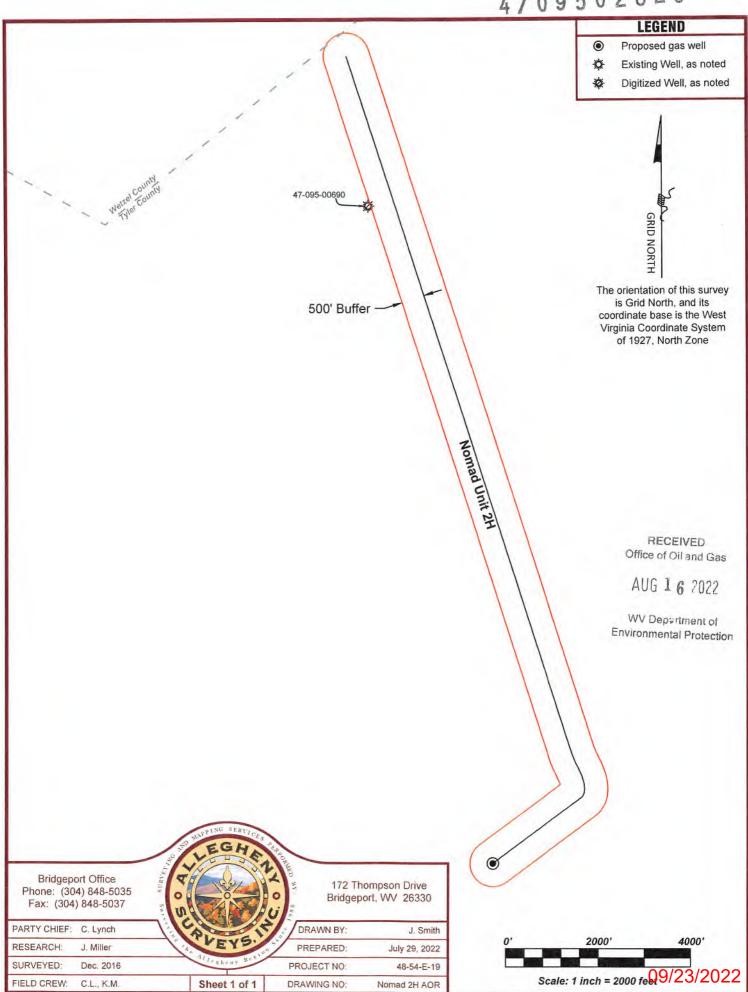
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.

Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 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.

Page 3 of 3 Stephen 09/23/2022 8 126 122



UWI (APINum)	Well Name	Well Number	Operator	Historical Operator	TD	Perforated Interval (shallowest, deepest)		Perforated Formation(s)	Producible Formation(s) not perf'd
47095006900000	KIMBLE WILMA	2	EQT PRODUCTION CO	CARTER-JONES LUMBER	3,622	2633 - 2641	Berea		Weir, Benson, Alexander

WV Department of Environmental Protection

AUG 1 6 2022

RECEIVED Office of Oil and Gas 4709502823

WW-9 (4/16)

Operator's Well No. Nomac Unit 2H

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resources Corporation	OP Code 494507062
Watershed (HUC 10) Outlet Middle Island Creek	Quadrangle Porter Falls 7.5'
Do you anticipate using more than 5,000 bbls of wa Will a pit be used? Yes No	ter to complete the proposed well work? Yes No
If so, please describe anticipated pit waste:	No pit will be used at this site (Drilling and Flowback Fluids will be stored in tanks. Cutlings will be tanked and hauled off site.)
Will a synthetic liner be used in the pit? Y	res No V If so, what ml.? N/A
Proposed Disposal Method For Treated Pit	Wastes:
Reuse (at API Number Off Site Disposal (Supp Other (Explain	UIC Permit Number *UIC Permit # will be provided on Form WR-34) Future permitted well locations when applicable. API# will be provided on Form WR-34) ly form WW-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98) Northwestern Landfill Permit #SWF-1025/ WV0109410 Wetzel Co Landfill Permit #SWF-1021
Will closed loop system be used? If so, describe:	Yes, fluids stored in tanks, cuttings removed offsite and taken to landfill.
Drilling medium anticipated for this well (vertical a	
-If oil based, what type? Synthetic, petrole	eum, etc. Synthetic
Additives to be used in drilling medium? Please S	ee Attachment
Drill cuttings disposal method? Leave in pit, landfi	ll, removed offsite, etc. Drill cuttings stored in tanks, removed offsite and taken to landfill.
	lium will be used? (cement, lime, sawdust) N/A
-Landfill or offsite name/permit number?	Meadowfill Landfill (Permit #SWF-1032-98), Northwestern Landfill (Permit # SWF-1025/WV0109410) Wetzel Co Landfill (Permit #SWF-1021)
	of Oil and Gas of any load of drill cuttings or associated waste rejected at any be provided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of provisions of the permit are enforceable by law. W law or regulation can lead to enforcement action. I certify under penalty of law that I have application form and all attachments thereto and	
Company Official (Typed Name) Gretchen Kohler	

Company Official Title Director of Environmental & Regulatory Compliance

Subscribed and sworn before m	e this 12 day of Aug	. 20 22
Qia	undalair	Notary Public DIANE BLAIR NOTARY PUBLIC
My commission expires	27 Apr 2024	STATE OF COLDRADO NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024 Stepten May 23/202 8/24/22

Operator's Well No. Nomad Unit 2H

Antero Resources Corporation

Proposed Revegetation Treatmen	t: Acres Disturbed 56.03 a	cres Prevegetation p	н			
Lime 2-4	Tons/acre or to correct to pH	I 6.5				
Fertilizer type Hay or st	raw or Wood Fiber (will be used	l where needed) bs/acre				
Fertilizer amount 500	II					
Mulch 2-3	Tons/	s/acre				
Access Ro	ad "D" (16.60 acres) + Well Pad (7.82 acr	es) + Excess/Topsoil Material Stockpiles (31.61 ac	res) = 56.03 Acres			
	See	d Mixtures				
Temp	orary	Perm	anent			
Seed Type	lbs/acre	Seed Type	lbs/acre			
Annual Ryegrass	40	Crownvetch	10-15			
Field Bromegrass	40	Tall Fescue 30				
See attached Table IV-3 for additional see	ed type (Heintzman Pad Design)	See attached Table IV-4A for additional seed type (Heintzman Pad De				
*or type of grass seed reque	ested by surface owner	*or type of grass seed requ	lested by surface owner			

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions $(L \times W \times D)$ of the pit, and dimensions $(L \times W)$, and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

n Approved by:	Stephen mig	 		
nments:		 		
Air	-	CI:	127	
: UII GA	s Tuppertur	 Date:	26/22	
d Reviewed?	() Yes) No		

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	Dra-
6.	Xan-Plex	RECEIVED Office of Oil and Gas
	Viscosifier For Water Based Muds	
7.	Mil-Pac (All Grades)	AUG 1 6 2022
•	Sodium Carboxymethylcellulose – Filtration Control Agent	-
8.	New Drill	WV Department of Environmental Protection
0	Anionic Polyacrylamide Copolymer Emulsion – Shale Stabilizer	Protection
9.	Caustic Soda	
10	Sodium Hydroxide – Alkalinity Control	
10.	. Mil-Lime	
11	Calcium Hydroxide – Lime	
11.	LD-9	
10	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 Deced Muda
Viscosifier For Water-Based Muds
31. Milstarch Starch – Fluid Loss Reducer For Water Based Muds
32. Mil-Lube
Drilling Fluid Lubricant

RECEIVED Office of Oil and Gas

AUG 1 6 2022

WV Department of Environmental Protection

1



911 Address 2176 Elk Fork Road Middlebourne, WV 26149

Well Site Safety Plan

Antero Resources

Well Name: Heintzman Unit 5H, Leap Unit 1H-2H, Mamba Unit 1H-2H, Nomad Unit 1H-2H

Pad Location: HEINTZMAN PAD

Tyler County/Ellsworth District

GPS Coordinates:

Entrance - Lat 39.539881'/ Long -80.887809' (NAD83) Pad Center - Lat 39.543135'/ Long -80.855725 (NAD83)

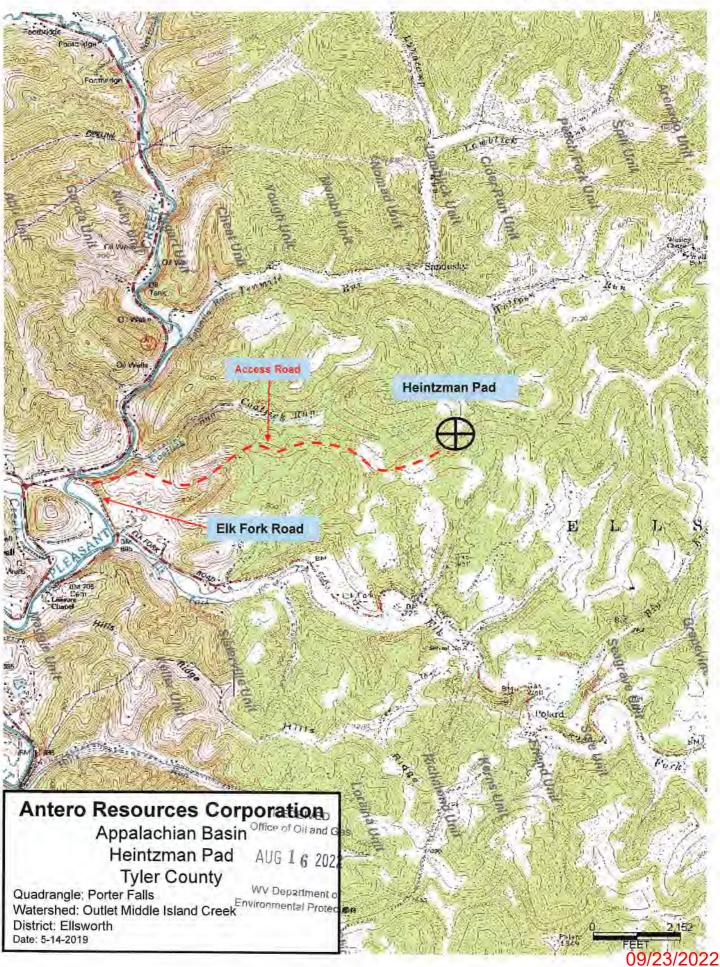
Driving Directions:

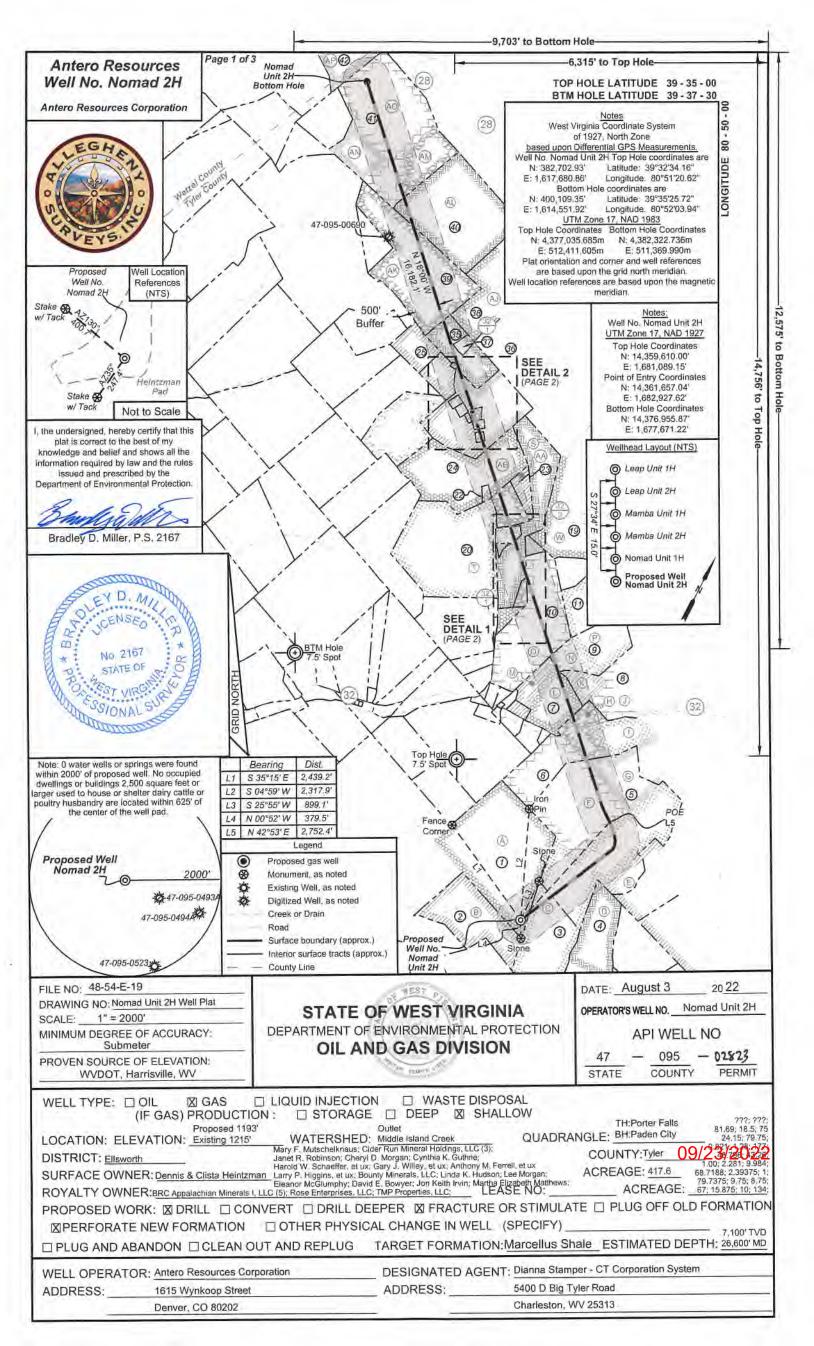
From the U.S Post Office in Middlebourne, head east on Dodd St toward Fair St for 364 ft. Turn left onto WV-18 N/Main Street for 4.2 miles. Turn right onto WV-180 N for 0.5 miles, lease road will be on your right.

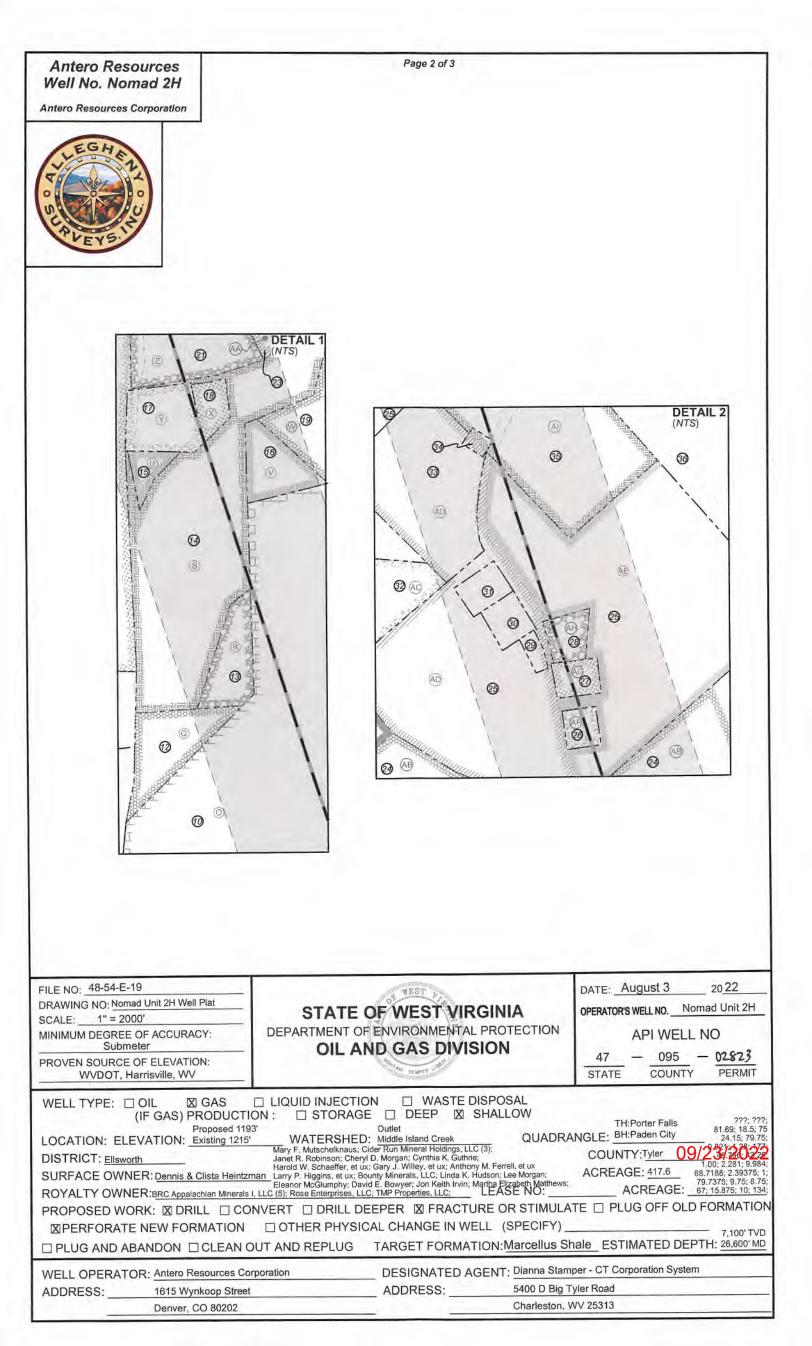
Alternate Route:

From the U.S Post Office in Sistersville , head southeast on Wells Street toward Elizabeth Street for 72 ft. Turn left at the 1st cross street onto Elizabeth Street. Elizabeth Street turns right & becomes WV-2 S/Chelsea Street for 1 mile. Continue straight onto WV-18S for 6.9 miles. Turn left onto WV-180 N for 0.5 miles, lease road will be on your right.

EMERGENCY (24 HOUR) CONTACT 1-800-878-1373







Antero Resources Well No. Nomad 2H

Antero Resources Corporation

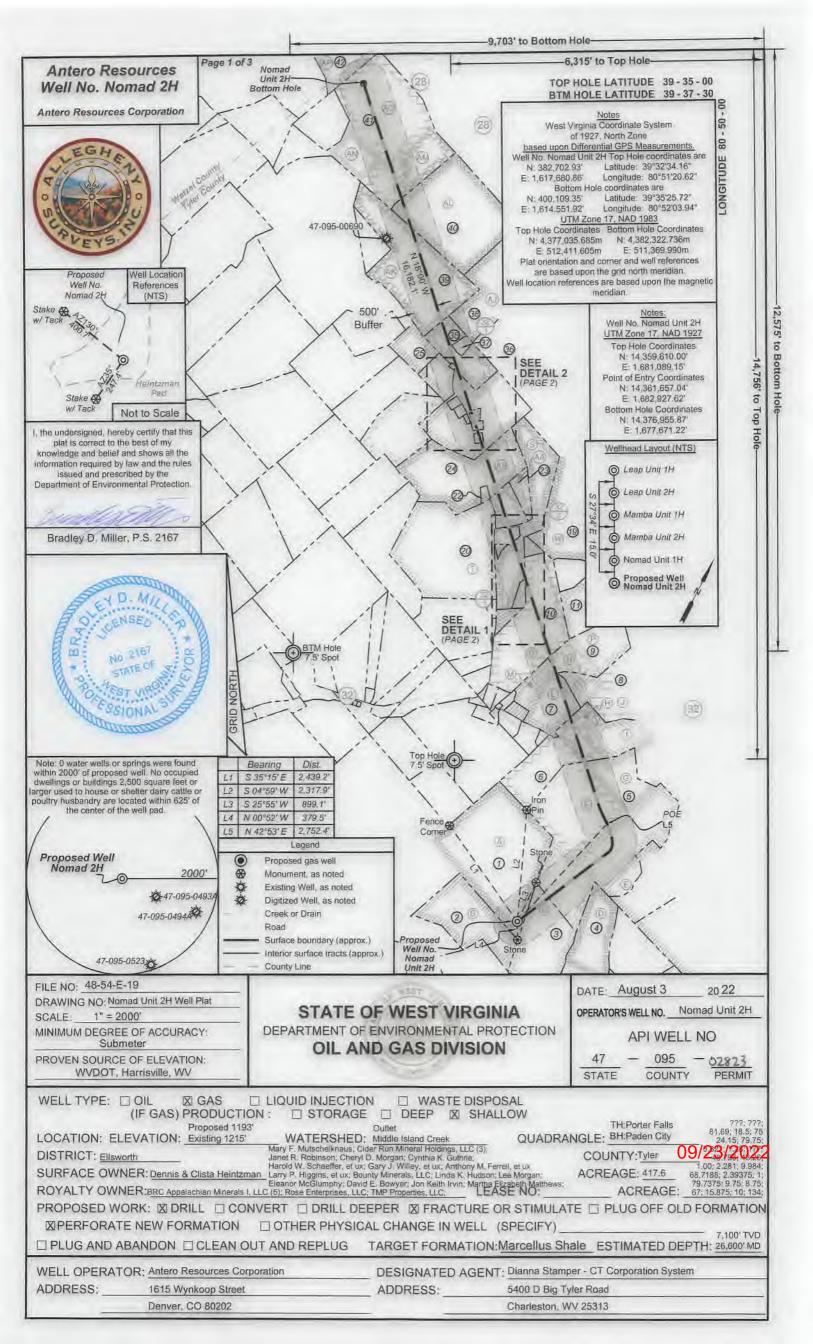


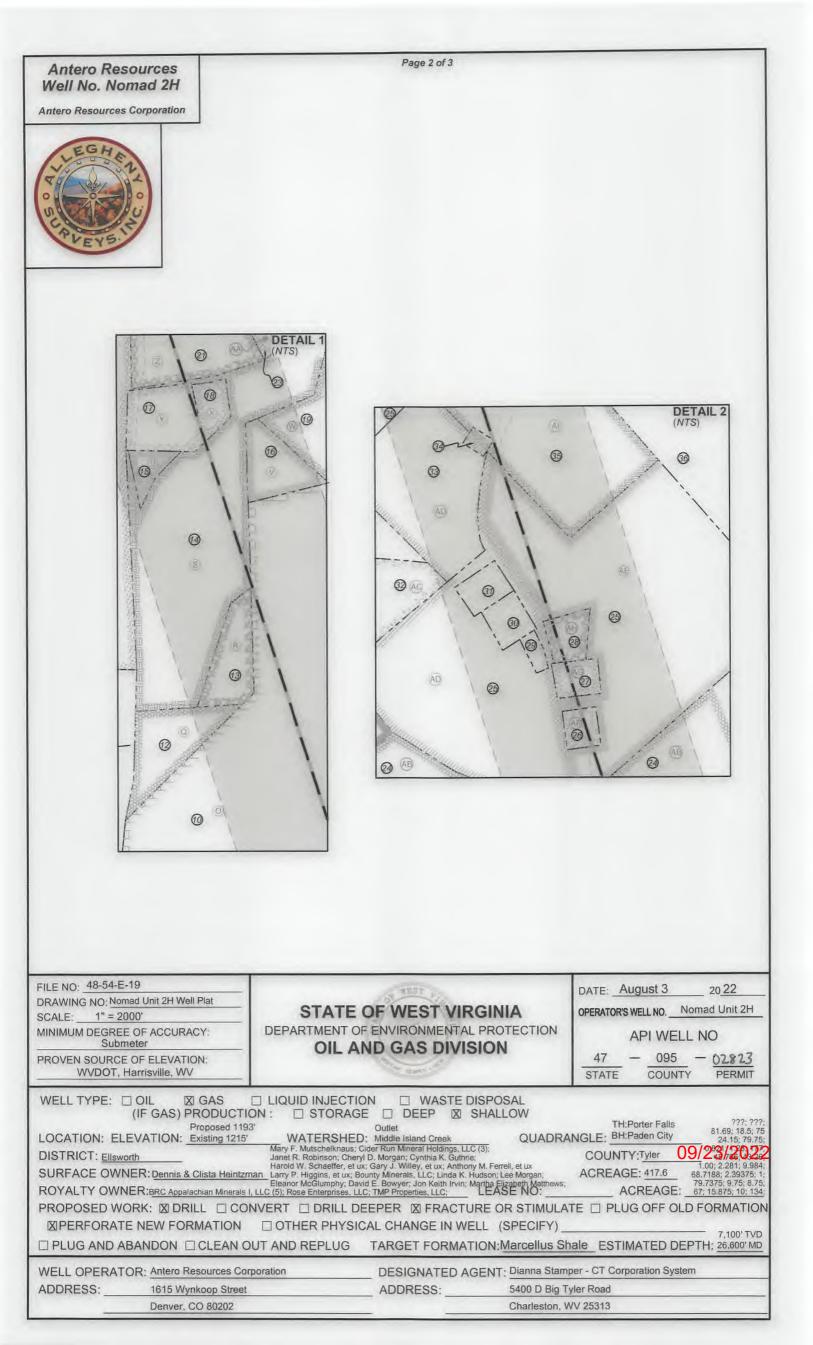
	Lea	ses	
A.	BRC Appalachian Minerals I, LLC	V	Gary Willey, et ux
В	Dennis R. & Clista A. Heintzman	W	Gary Willey, et ux
C	Rose Enterprises, LLC	X	Bounty Minerals, LLC
D	B&C Oil & Gas Company	Y	Linda K. Hudson
E	BRC Appalachian Minerals I, LLC	Z	Harold W. Schaeffer, et ux
F	TMP Properties, LLC	AA	Harold W. Schaeffer, et ux
G	BRC Appalachian Minerals I, LLC	AB	Lee Morgan
H	BRC Appalachian Minerals I, LLC	AC	BRC Appalachian Minerals I, LLC
1	BRC Appalachian Minerals I, LLC	AD	MAP2012-OK
J	Gregory A. Dittmer, et ux	AE	Cheryl D. Morgan
K	Eleanor McGlumphy	AF	Anthony M. Ferrell, et ux
L	BRC Appalachian Minerals I, LLC	AG	Janet R. Robinson
M	BRC Appalachian Minerals I, LLC	AH	Larry P. Higgins, et ux
N	David E. Bowyer	AI	Cynthia K. Guthrie
0	Jon Keith Irvin	AJ	Will E. Morris Heirs Trust
P	Cheryl Ann Sullivan	AK	Mary F. Mutschelknaus
Q	Martha Elizabeth Matthews	AL	Cider Run Minerals Holdings, LLC
R	Martha Elizabeth Matthews	AM	Cider Run Minerals Holdings, LLC
S	Gary Willey, et ux	AN	Cider Run Minerals Holdings, LLC
Т	Christina L. Ebert	AO	Cider Run Minerals Holdings, LLC
U	Sandra V. Smith	AP	Ronald L. Van Camp, et al

Page 3 of 3

ID	TM/Par	Owner	Bk/Pg	Acres	ID	TM/Par	Owner	Bk/Pg	Acres
1	6-36	Dennis & Clista Heintzman	297/640	417.60	22	3-34.1	Gary J. Jr. & Tammie S. Willey	515/823	1.20
2	6-49	Dennis & Clista A. Heintzman	297/637	45.00	23	3-49	Harold W & Sandra L Schaeffer	341/730	6.60
3	10-4	Stefan L. & Alberta B. Smolski	356/467	56.08	24	3-34	Charlotte Terry, et al	WB76/367	57.19
4	10-5	Brian E. & Barbara J. Courtney	344/626	30.00	25	3-28	Rhoda & Lawrence Morgan Est	317/413	61.33
5	6-30.1	Larry M. & Amy B. Adams	369/344	150.33	26	3-28.4	Keith L. Beckett	OR62/522	0.82
6	6-30	Larry G. Rice	333/682	64.61	27	3-28.1	Janet R. Robinson	575/382	1.28
7	6-21	Larry G. Rice	333/682	30.15	28	3-28.3	Christopher G. Higgins	426/253	1.00
8	3-44	Gregory & Patricia Dittmer	351/128	30.25	29	3-28.2	Roberta Robinson, et al	204/403	0.40
9	6-13	Timothy L. & Connie J. McHenry	322/717	28.00	30	3-28.7	Thomas & Sally Ash	308/008	1.09
10	6-11	Jeffrey A. & Joann E. Seckman	343/153-A	68.72	31	3-28.6	Thomas & Sally Ash	308/69	1.06
11	6-12	Timothy L. & Connie J. McHenry	WB28/100	28.00	32	3-27	Herbert & Phyllis Glendenning	349/827	33.25
12	6-11.4	Jeffrey A. & Joann E. Seckman	343/153-A	2.05	33	3-28.5	Lori D. Staley	330/53	10.00
13	6-11.2	Jeffrey A. & Joann E. Seckman	343/153-A	2.39	34	3-20.1	Tonya Shuler & Beth Simpkins	OR5/371	0.29
14	3-36	Gary J. & Tammie S. Willey	290/503	43.26	35	3-20	Tonya Shuler & Beth Simpkins	OR5/371	21.70
15	6-10	Linda K. Hudson	WB32/447	0.83	36	3-21	JCW Inc.	316/165	39.38
16	6-11.1	Gary & Tammie S. Willey	342/548	2.28	37	3-20.2	Tonya Shuler & Beth Simpkins	OR5/371	2.16
17	6-9	Linda K. Hudson	WB32/447	2.28	38	3-14	Carl G. Rucker	230/639	63.40
18	3-36.1	Stacy L. Dennis	487/59	1.00	39	3-10	Steven D. & Brenda M. Higgins	313/623	79.75
19	3-38	Gary K. & Tammie S. Willey	290/503	66.52	40	3-4	Daniel A. Witschey	541/326	81.69
20	6-8	Matthew T. Ebert	361/219	98.50	41	1-11	Daniel A. Witschey	541/326	122.8
21	3-35	Harold W. & Sandra L. Schaeffer	341/730	9.98	42	17-13	MB Investments	334/56	40.26

FILE NO: 48-54-E-19 DRAWING NO: Nomad Unit 2H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION	DATE: <u>August 3</u> 20 <u>22</u> OPERATOR'S WELL NO. <u>Nomad Unit 2H</u> API WELL NO <u>47</u> - <u>095</u> - <u>02823</u> STATE COUNTY PERMIT
ROYALTY OWNER: BRC Appalachian Minerals PROPOSED WORK: DRILL CO DRIPERFORATE NEW FORMATION	Outlet WATERSHED: Middle Island Creek QUADR/ Mary F. Mutschelknaus; Cider Run Mineral Holdings, LLC (3): Janet R. Robinson; Cheryl D. Morgan; Cynthia K. Guthrie; Harold W. Schaeffer, et ux; Gary J. Willey, et ux; Anthony M. Ferrell, et ux nan Larry P. Higgins, et ux; Bounty Minerals, LLC; Linda K. Hudson; Lee Morgan: Eleanor McGlumphy: David E. Bowyer; Jon Keith Invin; Martha Elizabeth Matthews:	TE D PLUG OFF OLD FORMATION
WELL OPERATOR: Antero Resources Co ADDRESS: 1615 Wynkoop Street Denver, CO 80202		Tyler Road





Antero Resources Page 3 of 3 Well No. Nomad 2H

Antero Resources Corporation



	Lea	ses	
A	BRC Appalachian Minerals I, LLC	V	Gary Willey, et ux
В	Dennis R. & Clista A. Heintzman	W	Gary Willey, et ux
С	Rose Enterprises, LLC	X	Bounty Minerals, LLC
D	B&C Oil & Gas Company	Y	Linda K. Hudson
E	BRC Appalachian Minerals I, LLC	Z	Harold W. Schaeffer, et ux
F	TMP Properties, LLC	AA	Harold W. Schaeffer, et ux
G	BRC Appalachian Minerals I, LLC	AB	Lee Morgan
н	BRC Appalachian Minerals I, LLC	AC	BRC Appalachian Minerals I, LLC
1	BRC Appalachian Minerals I, LLC	AD	MAP2012-OK
J	Gregory A. Dittmer, et ux	AE	Cheryl D. Morgan
К	Eleanor McGlumphy	AF	Anthony M. Ferrell, et ux
L	BRC Appalachian Minerals I, LLC	AG	Janet R. Robinson
M	BRC Appalachian Minerals I, LLC	AH	Larry P. Higgins, et ux
N	David E. Bowyer	AI	Cynthia K. Guthrie
0	Jon Keith Irvin	AJ	Will E. Morris Heirs Trust
P	Cheryl Ann Sullivan	AK	Mary F. Mutschelknaus
Q	Martha Elizabeth Matthews	AL	Cider Run Minerals Holdings, LLC
R	Martha Elizabeth Matthews	AM	Cider Run Minerals Holdings, LLC
S	Gary Willey, et ux	AN	Cider Run Minerals Holdings, LLC
T	Christina L. Ebert	AO	Cider Run Minerals Holdings, LLC
U	Sandra V. Smith	AP	Ronald L. Van Camp, et al

ID	TM/Par	Owner	Bk/Pg	Acres	ID	TM/Par	Owner	Bk/Pg	Acres
1	6-36	Dennis & Clista Heintzman	297/640	417.60	22	3-34.1	Gary J. Jr. & Tammie S. Willey	515/823	1.20
2	6-49	Dennis & Clista A. Heintzman	297/637	45.00	23	3-49	Harold W & Sandra L Schaeffer	341/730	6,60
3	10-4	Stefan L. & Alberta B. Smolski	356/467	56.08	24	3-34	Charlotte Terry, et al	WB76/367	57.19
4	10-5	Brian E. & Barbara J. Courtney	344/626	30.00	25	3-28	Rhoda & Lawrence Morgan Est	317/413	61.33
5	6-30,1	Larry M. & Amy B. Adams	369/344	150.33	26	3-28.4	Keith L. Beckett	OR62/522	0.82
6	6-30	Larry G. Rice	333/682	64.61	27	3-28.1	Janet R. Robinson	575/382	1.28
7	6-21	Larry G. Rice	333/682	30.15	28	3-28.3	Christopher G. Higgins	426/253	1.00
8	3-44	Gregory & Patricia Dittmer	351/128	30.25	29	3-28.2	Roberta Robinson, et al	204/403	0.40
9	6-13	Timothy L. & Connie J. McHenry	322/717	28.00	30	3-28.7	Thomas & Sally Ash	308/008	1.09
10	6-11	Jeffrey A. & Joann E. Seckman	343/153-A	68.72	31	3-28.6	Thomas & Sally Ash	308/69	1.06
11	6-12	Timothy L. & Connie J. McHenry	WB28/100	28.00	32	3-27	Herbert & Phyllis Glendenning	349/827	33.25
12	6-11.4	Jeffrey A. & Joann E. Seckman	343/153-A	2.05	33	3-28.5	Lori D. Staley	330/53	10.00
13	6-11.2	Jeffrey A. & Joann E. Seckman	343/153-A	2.39	34	3-20.1	Tonya Shuler & Beth Simpkins	OR5/371	0.29
14	3-36	Gary J. & Tammie S. Willey	290/503	43.26	35	3-20	Tonya Shuler & Beth Simpkins	OR5/371	21.70
15	6-10	Linda K. Hudson	WB32/447	0.83	36	3-21	JGW Inc.	316/165	39.38
16	6-11.1	Gary & Tammie S. Willey	342/548	2.28	37	3-20.2	Tonya Shuler & Beth Simpkins	OR5/371	2.16
17	6-9	Linda K. Hudson	WB32/447	2.28	38	3-14	Carl G. Rucker	230/639	63,40
18	3-36.1	Stacy L. Dennis	487/59	1.00	39	3-10	Steven D. & Brenda M. Higgins	313/623	79.75
19	3-38	Gary K. & Tammie S. Willey	290/503	66.52	40	3-4	Daniel A. Witschey	541/326	81.69
20	6-8	Matthew T_Ebert	361/219	98.50	41	1-11	Daniel A. Witschey	541/326	122.8
21	3-35	Harold W. & Sandra L. Schaeffer	341/730	9.98	42	17-13	MB Investments	334/56	40.26

FILE NO: 48-54-E-19 DRAWING NO: Nomad Unit 2H Well Plat SCALE: 1" = 2000' MINIMUM DEGREE OF ACCURACY: Submeter PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV	STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTEC OIL AND GAS DIVISION	TION DATE: <u>August 3</u> 2022 OPERATOR'S WELL NO. <u>Nomad Unit 2H</u> API WELL NO <u>47</u> - <u>095</u> - <u>02823</u> STATE COUNTY PERMIT
(IF GAS) PRODUCTION Proposed 119 LOCATION: ELEVATION: Existing 1215 DISTRICT: Ellsworth SURFACE OWNER: Dennis & Clista Heinizm ROYALTY OWNER: BRC Appalachian Minerals PROPOSED WORK: IN DRILL I CO IN PERFORATE NEW FORMATION	3" Outlet WATERSHED: Middle Island Creek Q Mary F. Mutschelknaus; Cider Run Mineral Holdings, LLC (3); Janet R. Robinson; Cheryl D. Morgan; Cynthia K. Guthrie; Harold W. Schaeffer, et ux; Gary J. Willey, et ux; Anthony M. Ferreil, et u nan Larry P. Higgins, et ux; Bounty Minerals, LLC; Linda K. Hudson; Lee Mor Eleaner McGlumphy, David F. Bowyer, Jon Keith Furth, Martha Elizabeth	TH:Porter Falls 722: 722: UADRANGLE: BH:Paden City 81.69: 18.5: 75 COUNTY:Tyler 09/23/2022 x 1.00: 2.281: 9.984: gan: ACREAGE: 417.6 68.7188: 2.39375: 1. Matthews: ACREAGE: 50: 1.5: 75: 8.75: 10: 79: 735: 9.75: 8.75: 10: 134: FIMULATE PLUG OFF OLD FORMATION CIFY) 7.100' TVD
WELL OPERATOR: Antero Resources Con ADDRESS: 1615 Wynkoop Street Denver, CO 80202	ADDRESS: 5400	na Stamper - CT Corporation System 0 D Big Tyler Road rleston, WV 25313

Operator's Well Number Nomad 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/Page
A: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
C: Rose Enterprises, LLC Lease			
Rose Enterprises, LLC	Antero Resources Corporation	1/8+	0599/0765
F: TMP Properties, LLC Lease		4.10	0070/0107
TMP Properties, LLC	Antero Resources Corporation	1/8+	0070/0197
G: BRC Appalachian Minerals I LLC Lease		4.40	0369/0300
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	•
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
H: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
L: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
K: Eleanor McGlumphy Lease			
Eleanor McGlumphy, widow	Stone Energy Corporation	1/8	0434/0289
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001

Operator's Well Number Nomad 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
David E. Bowyer	Antero Resources Corporation	1/8+	0191/0093
M: BRC Appalachian Minerals I LLC Lease			
BRC Appalachian Minerals I LLC	BRC Working Interest Company LLC	1/8	0369/0300
BRC Working Interest Company LLC	Chesapeake Appalachia LLC	Assignment	0369/0784
Chesapeake Appalachia LLC	Statoil USA Onshore Properties Inc	Assignment	0378/0764
Statoil USA Onshore Properties Inc	SWN Exchange Titleholder LLC	Assignment	0470/0668
SWN Exchange Titleholder LLC	EQT Production Company	Assignment	0539/0239
EQT Production Company	Antero Resources Corporation	Assignment	0663/0001
O: Jon Keith Irvin Lease			
Jon Keith Irvin	Antero Resources Corporation	1/8+	0044/0556
R: Martha Elizabeth Matthews Lease			
Martha Elizabeth Matthews	Antero Resources Corporation	1/8+	0096/0023
S: Gary Willey, et ux Lease			
Gary Willey, et ux	EQT Production Company	1/8	0592/0405
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
X: Bounty Minerals, LLC Lease			
Bounty Minerals, LLC	Antero Resources Corporation	1/8+	0177/0037
<u>Y: Linda K. Hudson Lease</u> Linda K. Hudson	Antero Resources Corporation	1/8+	0661/0783
	Ancio resources corporation	2,0.	0001,0700
Z: Harold W. Schaeffer, et ux Lease		4/0	0.400/0720
Harold W. Schaeffer, et ux	Stone Energy Corporation	1/8	0409/0728
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
AB: Lee Morgan Lease			
Lee Morgan	Antero Resources Corporation	1/8+	0106/0557
AE: Cheryl D. Morgan Lease			
Cheryl D. Morgan	Stone Energy Corporation	1/8	0404/0711
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
AF: Anthony M. Ferrell, et ux Lease			
Anthony M. Ferrell, et ux	Stone Energy Corporation	1/8	0410/0574
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
			09/23/2022

Operator's Well Number Nomad 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
AG: Janet R. Robinson Lease Janet R. Robinson	Stone Energy Corporation	1/8	0404/0731
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
EQT Production company	Antero Resources corporation	Assgument	•••••
AH: Larry P. Higgins, et ux Lease			
Larry P. Higgins, et ux	Stone Energy Corporation	1/8	0409/0758
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
AE: Cheryl D. Morgan Lease			
Cheryl D. Morgan	Stone Energy Corporation	1/8	0404/0711
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
Al: Cynthia K. Guthrie Lease			
Cynthia K. Guthrie	Stone Energy Corporation	1/8	0400/0245
Stone Energy Corporation	EQT Production Company	Assignment	0556/0132
EQT Production Company	Antero Resources Corporation	Assignment	0662/0686
		· · · · · · · · · · · · · · · · · · ·	•
AK: Mary F. Mutschelknaus Lease			
Mary F. Mutscheiknaus	Antero Resources Corporation	1/8+	0076/0257
AL: Cider Run Minerals Holdings, LLC Lease			
Cider Run Minerals Holdings, LLC	Antero Resources Corporation	1/8+	0177/0165
AO: Cider Run Minerals Holdings, LLC Lease			
Cider Run Minerals Holdings, LLC	Antero Resources Corporation	1/8+	0177/0165
<u>AM: Cider Run Minerals Holdings, LLC Lease</u> Cider Run Minerals Holdings, LLC	Antoro Posourcos Cornoration	1/8+	0177/0165
CIGEL VON MILIELAIS HOIGINES, ELC	Antero Resources Corporation	1/07	41//0103

WW-6A1 (5/13) Operator's Well No. Nomad 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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- (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:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
AO: Cider Run Minerals Holding	s, LLC Lease			
	Cider Run Minerals Holdings, LLC	Antero Resources Corporation	1/8+	0177/0165

*Partial Assignments to Antero Resources 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 Respurces Corporation
By:	Tim Rady Lun Ved
Its:	Senior VP of Land

<u>به ر</u>

RECEIVED Office of Oil and Gas

AUG 16 2022

WV Department of Environmental Protection



Antero Resources 1615 Wynkoop Street Denver, CO 80202 Office 303.357.7310 Fax 303.357.7315

August 11, 2022

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

RE: Nomad Unit 1H & 2H Quadrangle: Porter Falls 7.5' Tyler County/Ellsworth District, West Virginia

Mr. Martin:

Antero Resources Corporation (Antero) is submitting the following application for a new well work permit for the Nomad Unit 1H & 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 Nomad Unit 1H & 2H horizontal lateral will drill through including any and all roads crossed under as identified on the attached survey plats.

Sincerely,

Max Green VP Land

> RECEIVED Office of Oil and Gas

AUG 1 6 2022

WV Department of Environmental Protection

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE CERTIFICATION</u>

Date of Notice Certification: 08/11/2022

API No. 47- 095	-
Operator's Well No	Nomad Unit 2H
Well Pad Name: H	leintzman Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State:	West Virginia	UTM NAD 83	Easting:	512411.61m
County:	Tyler	UTWINAD 65	Northing:	4377035.68m
District:	Ellsworth	Public Road Ac	cess:	Elk Fork Rd
Quadrangle:	Porter Falls 7.5'	Generally used f	farm name:	Dennis & Clista Heintzman
Watershed:	Outlet Middle Island Creek			

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY	OOG OFFICE USE ONLY
□ 1. NOTICE OF SEISMIC ACTIVITY or ■ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED	RECEIVED/ NOT REQUIRED
\square 2. NOTICE OF ENTRY FOR PLAT SURVEY or \blacksquare NO PLAT SURVEY WAS CONDUCTED	
3. NOTICE OF INTENT TO DRILL or DINOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or	RECEIVED/ NOT REQUIRED
U WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)	RECEIVED Office of Oil and Gas
■ 4. NOTICE OF PLANNED OPERATION	RECEIVERIG 1 6 2022
■ 5. PUBLIC NOTICE	RECEIVED
■ 6. NOTICE OF APPLICATION	Environmental Protection 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.

WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I Robert Odenthal

NOTARY ID 19994011871 MY COMMISSION EXPIRES 27-Apr-2024

, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:	Robert Odenthal VP of Drilling Robert S. Odenthal Facsimile:		1615 Wynkoop Street		
By:				Denver, CO 80202 303-357-7315 mstanton@anteroresources.com	
Its:					
Telephone:					
	DIANEABLABL NOTARY PUBLIC STATE OF COLORADO	Subscribed a	and swo	orn before me this 12 day of <u>Aug 2022</u> . Notary Public	

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.

My Commission Expires

Apr

RECEIVED Office of Oil and Gas

AUG 1 6 2022

WV Department of Environmental Protection

OPERATOR WELL NO. Nomad Unit 2H Well Pad Name: Heintzman Pad

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS <u>NOTICE OF APPLICATION</u>

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

Date of Notice: 06/23/2022 Date Permit Application Filed: 08/12/2022

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11.78	otice	011

1	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. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

☑ SURFA	ACE OWNER(s)	COAL OWNER OR LESSEE	
Name:	Dennis R. & Clista A. heintzman	Name: NO DECLARATIONS ON RECORD WITH COUNTY	
Address:	980 Sand Gap Road	Address:	RECEIVED
	Pennsboro WV 26415-3051		 Office of Oil and Gas
Name:	Stefan L. & Alberta B. Smolski	COAL OPERATOR	ALLC 1 & 1000
Address:	510 Pittsburgh Avenue	Name: NO DECLARATIONS ON RECORD WITH COUNTY	AUG 1 6 2022
	Fairmont WV 26554-4162	Address:	
SURFA	ACE OWNER(s) (Road and/or Other Distu	ce)	WV Department of
Name:		□ SURFACE OWNER OF WATER WELL	Environmental Protection
Address:		AND/OR WATER PURVEYOR(s)	
		Name: NO WATER WELLS WITHIN 2000'	
Name:		Address:	
Address:			Zarana a Ca
	A second of the second second second	OPERATOR OF ANY NATURAL GAS ST	ORAGE FIELD
SURFA	ACE OWNER(s) (Impoundments or Pits)	Name:	
Name:		Address:	
Address:			
		*Please attach additional forms if necessary	

APINO. 4. 2. 0.9502823

OPERATOR WELL NO. Normad Unit 2H Well Pad Name: Heintzman 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 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.

Pursuant to W. Va. Code R. § 35-8-5,7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief'a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

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 the safety and protection of affected persons and property. 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 2 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 We measured asof 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, 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



4709502823

API NO. 47-095 -

OPERATOR WELL NO. Nomad Unit 2H Well Pad Name: Heintzman Pad

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.

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. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

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. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until RECEIVED authorized to do so by the secretary or a court of competent jurisdiction. Office of Oil and Gas

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file while 1 6 2022 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 step the of 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.



4709502823

API NO. 47-095 -

OPERATOR WELL NO. Nomad Unit 2H Well Pad Name: Heintzman Pad

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.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-

<u>Permits/Pages/default.aspx</u> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

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 and Gas

AUG 1 6 2022

WV Department of Environmental Protection

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API NO. 47- 095	-	-	-	19823	0.0	dies:	S

OPERATOR WELL NO. Nomad Unit 2H Well Pad Name: Heintzman Pad

Notice is hereby given by:

Telephone:	(303) 357-7310	Robert S. Odenthal
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Addres	S: 1615 Wynkoop Street	
	Denver, CO 80202	
Facsim	le: 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.

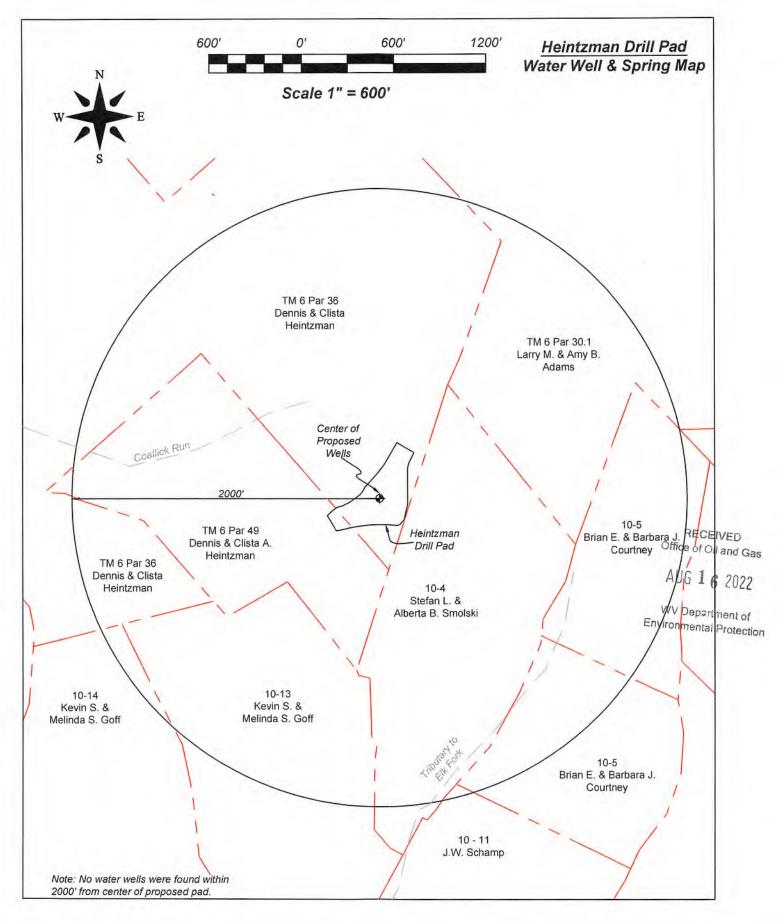
	DIANE BLAIR
	NOTARY PUBLIC
	STATE OF COLORADO
	NOTARY ID 19994011871
MY	COMMISSION EXPIRES 27-Apr-2024

Subscribed and sworn before		tug. 2022.
Wigner B	slair	Notary Public
My Commission Expires	27 Apr 2	024

RECEIVED Office of Oil and Gas

AUG 1 6 2022

WV Department of Environmental Protection



09/23/2022

STATE OF WEST VIRGINIA 4709502823 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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: 06/23/2022 Date Permit Application Filed: 08/12/2022

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND	CERTIFIED MAIL
DELIVERY	RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided*, *however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name:	Dennis R. & Clista A. Heintzman	Name:	Stefan L. & Alberta B. Smolski
Address:	980 Sand Gap Road	Address:	510 Pittsburgh Avenue
	Pennsboro WV 26415-3051		Fairmont, WV 26554-4162

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	CITAL MARKED 02	Easting:	512411.61m	
County:	Tyler	UTM NAD 83	Northing:	4377035.68m	
District:	Ellsworth	Public Road Acc	ess:	Elk Fork Rd	
Quadrangle:	Porter Falls 7.5'	Generally used fa	arm name:	Dennis Heintzman et al	
Watershed:	Outlet Middle Island Creek				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. 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.

Notice is hereby given by:

Well Operator:	Antero Resources Corporation	Authorized Representative:	Mallory Stanton
Address:	1615 Wynkoop St.	Address:	1615 Wynkoop St.
	Denver, CO 80202		Denver, CO 80202
Telephone:	303-357-7310	Telephone:	303-357-7310
Email:	mstanton@anteroresources.com	Email:	mstanton@anteroresources.com
Facsimile:	303-357-7315	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-6A5 (1/12)

Operator Well No. Nomad Unit 2H

STATE OF WEST VIRGINIA 4709502823 DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

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

 Date of Notice:
 08/12/2022

 Date Permit Application Filed:
 08/12/2022

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL	HAND
RETURN RECEIPT REQUESTED	DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)

(at the address listed in the records of the sheriff at the time of notice):

Name:	Dennis R. & Clista A. Heintzman	Name:	Stefan L. & Alberta B. Smolski
Address:	980 Sand Gap Road	Address:	510 Pittsburgh Avenue
and the second s	Pennsboro WV 26415-3051		Fairmont, WV 26554-4162

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	West Virginia	TITLA MAD 02	Easting:	512411.61m	
County:	Tyler	UTM NAD 83	Northing:	4377035.68m	
District:	Ellsworth	Public Road Acc	cess:	Elk Fork Rd	
Quadrangle:	Porter Falls 7.5	Generally used f	farm name:	Dennis & Clista Heintzman	
Watershed:	Outlet Middle Island Creek				

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1)A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. 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 <u>www.dep.wv.gov/oil-and-gas/pages/default.aspx</u>.

Well Operator:	Antero Resources Corporation	Address:	1615 Wynkoop Street	
Telephone:	(303) 357-7310		Denver, CO 80202	
Email:	mstanton@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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

D. Alan Reed, P.E. State Highway Engineer Jimmy Wriston, P. E. Secretary of Transportation Commissioner of Highways

July 18, 2022

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Heintzman Pad, Tyler County Nomad Unit 2H Well Site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0767 which has been issued to Antero Resources for access to the State Road for a well site located off Tyler County Route 11/6 SLS MP 0.33.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018. This letter is valid for permitting purposes for one year from the date of this letter.

Very Truly Yours,

Dary L. Cl

Gary K. Clayton, P.E. Regional Maintenance Engineer Central Office O&G Coordinator

RECEIVED Office of Oil and Gas

AUG 1 6 2022

WV Department of Environmental Protection

Cc: Diane Blair Antero Resources CH, OM, D-6 File Subdivision 3.3.e A listing of the anticipated additives that may be used in the water used for fracturing or stimulating the well. (A listing of the additives that were actually used in the fracturing or stimulating of the well shall be submitted as part of the completion report required by W. Va. Code 22-6-22.)

FRACTURING/STIMULATING INTERVAL

	Additive	Chemical Abstract Service Number (CAS #)
	Fresh Water	7732-18-5
2.	2 Phosphobutane 1,2,4 tricarboxylic acid	37971-36-1
	Ammonium Persulfate	7727-54-0
	Anionic copolymer	Proprietary
	Anionic polymer	Proprietary
	BTEX Free Hydrotreated Heavy Naphtha	64742-48-9
	Cellulase enzyme	(Proprietary)
8.	Demulsifier Base	(Proprietary)
	Ethoxylated alcohol blend	Mixture
	Ethoxylated Nonylphenol	68412-54-4
	Ethoxylated oleylamine	26635-93-8
	Ethylene Glycol	107-21-1
	Glycol Ethers	111-76-2
	Guar gum	9000-30-0
	Hydrogen Chloride	7647-01-0
	Hydrotreated light distillates, non-aromatic, BTEX free	64742-47-8
	Isopropyl alcohol	67-63-0
	Liquid, 2,2-dibromo-3- nitrilopropionamide	10222-01-2
	Microparticle	Proprietary
	Petroleum Distillates (BTEX Below Detect)	64742-47-8
	Polyacrylamide	57-55-6
	Propargyl Alcohol	107-19-7
	Propylene Glycol	57-55-6
	Quartz	14808-60-7
	Sillica crystalline quartz	7631-86-9
	Sodium Chloride	7647-14-5
	Sodium Hydroxide	1310-73-2
	Sugar	57-50-1
	Surfactant	68439-51-0
	Suspending agent (solid)	14808-60-7
	Tar bases, quinolone derivs, benzyl chloride-quarternized	72480-70-7
	Solvent Naptha, petroleum, heavy aliph	64742-96-7
	Soybean Oil, Me ester	67784-80-9
	Copolymer of Maleic and Acrylic Acid	52255-49-9
35.	DETA Phosphonate	15827-60-8 Office of Oil
	Hexamythylene Triamine Penta	15827-60-8 Office of Oil and (34690-00-1
37.	Phosphino Carboxylic acid polymer	71050-62-9 AUG 1 6 202
	Hexamethylene diamine penta	23605-74-5
	2-Propenoic acid, polymer with 2 propenamide	9003-06-9 WV Dopartment
	Hexamethylene diamine penta (methylene phosphonic ac	
	Diethylene Glycol	111-46-6
42.	Methenamine	100-97-0
43.	Polyethylene polyamine	68603-67-8
	Coco amine	61791-14-8
45.	2-Propyn-1-olcompound with methyloxirane	38172-91-7

LOCATION COORDINATES

LOCATION COORDINATES: HEINTZUAN (REFL) ACCESS ROAD 74 ENTRANCE LATITUDE 38.5388681 LONGITUDE: -00.087669 (KAD 63) LATITUDE: 38.538864 LONGITUDE: -00.867982 (NAD 67) N 4376696 59 E 5.03840 55 (UTN 20NE 17 METERS)

CENTROID OF PAD LATTUDE: 39.543105 LONGTUDE: -B0.855716 (NAD 83) LATTUDE: 39.543027 LONGTUDE: -B0.855880 (NAD 27) N.4377060.34 E 512387.71 (UTK ZONZ 17 METERS)

GENERAL DESCRIPTION THE ACCESS ROAD(S), AND WELL PAD ARE BEING CONSTRUCTED TO AID IN THE DEVELOPMENT OF MARCELLUS SHALE GAS WELLS.

FLOODPLAIN NOTES. The proposed site is located within frema flood zone "x" pre frema flood map kumber foodscould.

MISS UITLUTY STATEMENT: ANTRO BESUMES CONFORMENT WILL NOTIFY MISS UITLITY OF WEST VIEGENA FOR THE LOCATING OF UTLITES PROBA TO THE PRODUCT DESIDE. TICKIT 1607050488 IM ADDITION. MISS UTLITY WILL BE CONTACTED BY THE CONTACTORS PROBA TO THE PROBAT.

ANTERS RESOLUCES CORPORTION WILL OFTAIN AN ENCROACHIVENT PERMIT (FORM NN-109) FROM THE WEST VIEDNIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS, FRIOR TO COMMENCEMENT OF CONTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES: ENVIRONMENTAL NOTES: ENTREM AND VETLAND DELIVERATIONS VERE PERFORMED IN 2018 & 2010, BY ALLETAR ECOLOGY FO REVIEW INTEL STRE FOR WATCH AND VETLANDET HILL ARE MORT LIKELY WITHIN THE REGULATORY FURVIEW OF THE U.S. ADAPT CORES OF LURREDS (U.S.C.) AND YETLAN HAD VETLAND DELIVERATION NOTE WAY AND PERFORMED BY ALATIVE ECOLOGY AND SUMMERSEES THE RESULTS OF THE FIELD DELIVERATION NOTE WAY WITHIN AND VETLAND DELIVERATION SUMMERSEES THE RESULTS OF THE FIELD DELIVERATION AND WETLAND DOES NOT, IN ANY WAY, HERRESENT A JUNEDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WITHIN AND THAT RECOLDENTIATION AUDITORY ADDRESS THE RESULTS OF THE FIELD DELIVERATION HILD WAY METHES AND THAT WE ANY ANY, HERRESENT A JUNEDICTIONAL DETERMINATION OF THE LANDWARD LIMITS OF WITHIN AND CONTAINED THAT THE DEVILOPING STREAM AND WETLAND DELIVERATION HOLE WAY CONTRIBUNTION OF THE DELIVERATION SUMME ON THIS EXHIBIT PRORE TO BULARING CONSTRUCTION ON THE FEDERAL AND/OR STATE DEDULATION ADDRESS FORD TO ANY FROMESE THE APPROPRIETS TO VARIES TO WATCH FEDERAL AND/OR STATE DEDULATION ADDRESS FORD TO ANY FROMESE TO VARIES TO VARIES OF THE U.S. INCLUMENT WETLAND THE DEVILOPING AND ADDRESSINGE.

GEOTECHINICAL NOTES: a subsurace investigation of the proposed site was performed by pennsylvania soil & rock, nc on march 19 - max 22, 2019, and revised persultation 19, 2020. The revoket performed by pennsylvania soil & rock, rs. dated may 24, 2019, and revised may 27, 2021, replaced by results of the subsurace diversitations. The inventional mark events and the communications converse inscitles of the subsurace of diversitation of these penns. And resultations converse inscitles of the subsurace of diversitations of the inventional the subsurations converse inscitles of the subsurace of diversitations of the subsurace of an and the subsurations converse inscitles of the subsurace of diversitations of the subsurations converse inscitles of the subsurace of the subsurations of the subsurations converse inscitles of the subsurace of the subsurations of the subsurations converse inscitles of the subsurations of the subsura

PROJECT CONTACTS:	CHARLES & COMPTON, III - UTILITY COORDINATOR (304) 719-6449
OPERATOR ANTRO RESOURCES CORPORATION 535 WHITE DAKS BLVD. BRIDGEPORT. WV 24530	MARK HUTRON - LAND AGENT CELL (304) 689-8315
PHONE: (304) 842-4100 PAX: (304) 842-4102	ENGINEER/SURVEYOR:
ELI WAGONER - ENVIRONMENTAL ENGINEER & REGULATORY MANAGER	CYRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER OFFICE- (888) 682-4185 CELL (540) 686-6747
OFFICE: (304) 042-4050 CELL; (304) 476-9770 DIANA HOFF- SVF OFERATIONS DFFICE: (303) 357-8904	ENVIRONMENTAL: ALISTAR ECOLOGY, LLC RYAR L. WARD - ENVIRONMENTAL SCIENTIST (006) 213-2680 CELL (204) 802.7477
AARON KUNZLER - CONSTRUCTION MANAGER CELL: (304) 842-4191 ROBERT WIRKS - DESIGN MANAGER	GEOTECHNICAL: PENNSYLVANIA SOIL & ROCK, INC. CHRISTOPHER W. SAMIOS - PROJECT ENGINEER
OFFICE: (304) 642-4100 CELL (304) 627-7405 RESTRICTIONS NOTES:	(412) 372-4000 CELL (412) 589-0552
RESTRICTIONS NOTES. THERE ARE NO PERENNIAL STREAMS, LAKES, P THE WELL PAD AND LOD, THERE ARE WEILAND, REMAIN UNDISTURBED. 	ONDS, OR RESERVOIRS WITHIN 100 FEET OF S ADJACENT TO STOCKPILES WHICH WILL
2. THERE ARE NO NATURALLY PRODUCING THOUT	
3. THERE ARE NO GROUNDWATER INTAKE OR PUR FEET OF THE WELL PAD AND LOD.	
FEET OF THE WELL(S) BEING DRILLED. 5. THERE ARE NO OCCUPIED DWELLING STRUCTUR	
THE WELL PAD. 8. THERE ARE NO AGRICULTURAL BUILDINGS LARG FEET OF THE CENTER OF THE WELL PAD.	IER THAN 2.500 SQUARE FEET WITHIN 625
REPRODUCTI	
THESE PLANS VERE CREATED TO HE PAPER BALF SCALE DRAWINGS ARE	PLOYTED ON 22'X34" (ANTI D) ON (1"X17" (ANTE B) PAPER

THESE PLANS WHEN CREATED FOR COLOR VILCETING AND ANY MOUNTIONS IN GRAY SCALE OR COLOR MAY RESULT IN A LOSS OF ANYTON AND VILCEN NOT DE VISIT FOR FOREFRICTION FURTHER





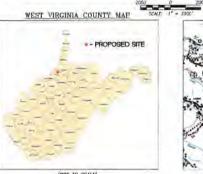
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MISS Utility of West Virginia 1-800-245-4848

West Virginia State Law

(Section XIV: Chapter 24-C) Requires that you call two business days before you dig in the state of West Virginia.

IT'S THE LAW!!



(NOT TO SCALE)

DESIGN CERTIFICATION: THE DRAWINGS, CONSTRUCTION NOTES, AND REFUERCES DIAGRAMS ATTACHED HERETO HAVE BEEN PREPARED IN ACCORDANCE WITH THE WEST VIERDIAL CODE OF STATE BULES, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS CES 35-6.



SHEET INDEX:

COVER S NOTES LEGEND

osed Well Pad Elevation

1.193.0

 NOTES
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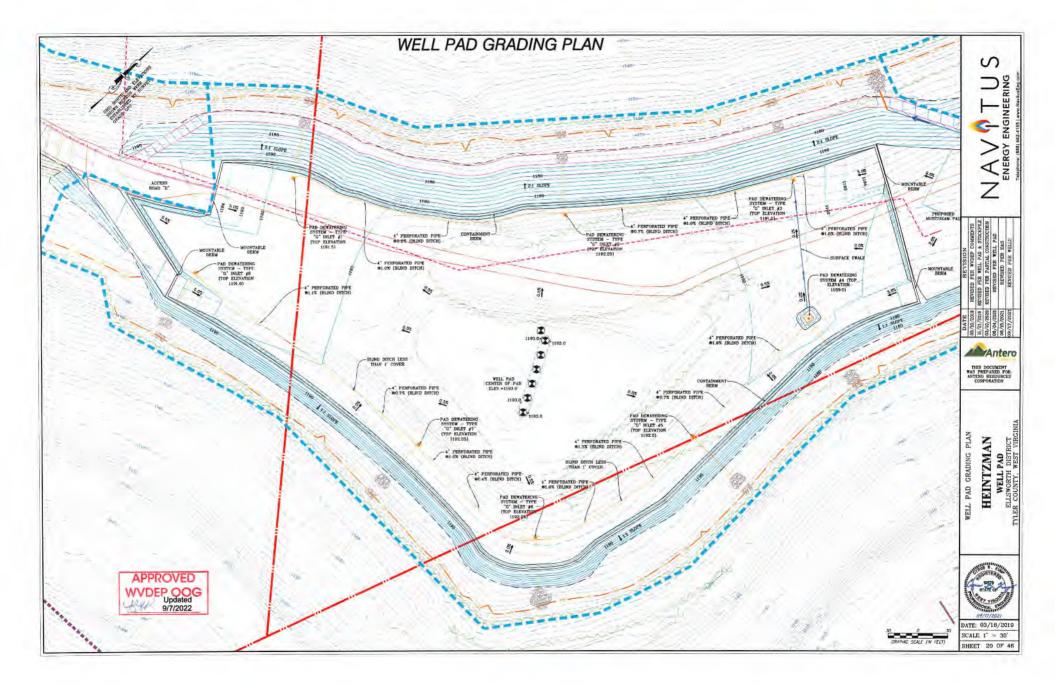
WELL PAD

19578

DATE: 03/18/2019 SCALE AS SHOWN SHEET 1 OF 46

STIS

YLER.



LOCATION COORDINATES: HEINTMAN (REIL) ACCESS ROAD * ENTRANCE LATTUDE 30 SAMPA LONGTUDE * ALBSTBO9 (NAD 83) LATTUDE 30 SAMPA LONGTUDE * ALBSTBO9 (NAD 83) V 4375600 LONGTUDE * SOMPA 65 (UTA ZONE 17 METERS)

CENTEGED OF PAD LATTUDE: 39.543105 LONGITUDE: -80.855716 (NAD 83) LATTUDE: 39.543027 LONGITUDE: -80.855800 (NAD 27) N.4377008.24 E 518397 71 UUTW ZONE 17 METERS)

GENERAL DESCRIPTION. THE ACCESS ROADS), AND WELL PAD ARE BEING CONSTRUCTED TO AD IN THE DEVELOPMENT OF MARTELIUS SHALE GAS WELLS.

FLOODPLAIN NOTES: THE PROPOSED STELS IS LOCATED WITHEN FRMA FLOOD ZONE 'X' FER FEMA FLOOD WAP NUMBER $_{\rm SAUGECOMPAC}$

MISS. UTILITY STATEMENT: ANTERS RESOLUTES CORPORATION WILL NOTEY MISS UTILITY OF WEST VIRIDITA FOR THE LOCATING OF ANTERS PRIME TO THIS FRANCT DEALON. TICKET 190720938G. DX ADDITION, MISS UTILITY WILL RE CONTACTED BY THE CONTACTOR PROOR OT HER START OF CONFRUCTION FOR THE PROMECT.

ENTRANCE PERMIT:

ALTA ADDITACE JEDENALT WATERO RESOURCES CORPORATION VIL OBTAIN AN EXCROACIVENT PERMIT (PORM WW-100) FBOM THE VEST VINCHA DEPARTMENT OF TRANSPORTATION DIVISION OF MIGHWAYS, PHOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

ENVIRONMENTAL NOTES: THEAM AND STLAND DELIMITATIONS VIEW PERPONNED IN 2018 & 2019, BY ALSTAR ECOLOGY TO REVER US, ADMY CORPT OF RUNKEESS (DEALE) AND/OR THE WET WIGHT HE REQUILATORY PLAYERS OF THE US, ADMY CORPT OF RUNKEESS (DEALE) AND/OR THE WET WIGHT ST. BERNETTON INTER MATTER PERPARED BY ALSTAR REDUCTION AND SIMURATEST THE RESULTS OF THE ADDINAL DELIMINATION OF THE MATTER DOES NOT, IN ANY MAY, REFRESSION A MINIBAL PLAYERS THE RESULTS OF THE ADDINE DELIMENT. THE MAP DOES NOT, IN ANY MAY, REFRESSION A MINIBAL PLAYERS THE RESULTS OF THE ADDINED LIMITS OF MATERS AND DELIMENTATION SHORE MAY DE ADDINED SHORE THE ADDINED DATE DOES NOT, IN ANY MAY, REFRESSION A MINIBAL DELIMINATION OF THE LANDMAED LIMITS OF PARTES AND DECIMARING HIM OF ACCULATE STEELE STEELE CONFIDANTION OF THE DELIMINATION SHORE SHALL OFFAN THE APPORTS TO ADDING TO ADDING TO MAY WATTER PEDERUL AND/OR STARE BELILLATION ADDING PROBABILIST OF ADDING TO ADDING TO MATTERS OF THE PEDERUL AND/OR STARE BELILLATION ADDING PROBABILIST OF DAY PHOTOSED IMPACTS TO MATERS OF THE PEDERUL AND/OR STARE BELILLATION ADDING PROBABILIST OF DAY PHOTOSED IMPACTS TO MATERS OF THE PEDERUL AND/OR STARE BELILATION ADDING PROBABILIST OF DAY PHOTOSED IMPACTS TO MATERS OF THE PEDERUL AND/OR STARE BELILATION ADDING THE DECOMPOSED IMPACTS TO MATERS OF THE PEDERUL AND/OR STARE BELILATION ADDING PROBABILIST OF DAY PHOTOSED IMPACTS TO MATERS OF THE PEDERUL AND/OR STARE BELILATION ADDING PROBABILIST OF DAYS PHOTOSED IMPACTS TO MATERS OF THE PEDERUL AND/OR STARE BELILATION ADDING PROBABILIST OF DAYS PHONOTONE TO ADDING THE DE ADDING THE DAYS PHONOTONE DIA STARDARD OF THE DAYS PHONOTONE DIA PEDERUL AND/OR STARE BELILATION ADDING NOT THE STARDARD OF THE ADDING THE DAYS PHONOTONE DIA STARDARD OF THE DAYS PHONOTONE DIA PEDERUL AND/OR STARE BELILATION ADDING NOT THE REDUCTION ADDING DIA STARDARD OF THE DAYS PHONOTONE DIA STARDARD OF THE DAYS OF THE PEDERUL AND/OR STARE BELING AND FINANCE CONSTRUCTION ADDING DIA DIA STARDARD OF THE DAYS OF THE DAYS OF THE DAYS OF THE DAY

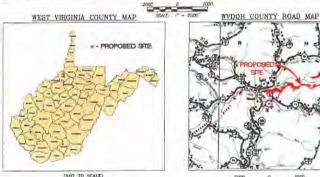
CEOTECHNICAL NOTES: A SUBSUPACE INVESTIGATION OF THE PROPOSED SITE HAS PERFORMED BY FENNSYLVANA SOL & ROCK, DEC. ON MARCH 19 - MAY 22, 2019, AND REVISED FEMULIARY 19, 2020, THE REPORT PREPARED IN PENNSYLVANA SOL, & ROCK, DC ATED MAY 24, 2014, AND REVISED MAY 27, 2021, REFLECTS THE RESULTS OF THE SUBSURACE INVESTIGATION. THE INFORMATION AND RECOMMENDINGS CONTAINED THES REPORT WERE USED IN THE PREPARATION OF THESE MANS FLACES HERE INTERNATIONS CONTAINED SUBSTRICTION REPORT BY FENSION MAY AND A NOCE, FOR ADDITIONAL INFORMATION, AS VEDED.

OPERATOR: ANTERO RESOURCES CORPORATION 535 WHETE OAKS BLAD. BRIDGEPORT, WY 28326	MARK HUTSON - LAND AGENT CELL: (304) 889-8315	WES
PHONE: (304) 842-4109 FAX: (304) 842-4102	ENGINEER/SURVEYOR, NAVITUS ENGINEERING, INC. CTRUS S. KUMP, PE - PROJECT MANAGER/ENGINEER	
ELI WAGONER - ENVIRONMENTAL ENGINEER & RECULATORY MANAGER OFFICE: (304) 842-4068 CELL: (304) 475-9770	OFFICE: (888) 862-4185 CELL (540) 680-6747	
DIANA HDFF- SVP DPERATORS OFFICE: (303) 357-6904	ENVIRONMENTAL ALISTAR ECOLOGY, LLC RYAN L WARD - ENVIRONMENTAL SCIENTIST (868) 213-2868 CELL (304) 692-7477	
AARON KUNZLER - CONSTRUCTION MANAGER CELL. (304) 842-4181 ROBERT WIRKS - DESIGN MANAGER	GEOTECHNICAL: PENNSYLVANIA SOL & ROCK, INC.	d
OFFICE: (304) 842-4400 CELL: (304) 627-7405	(412) 372-4000 CHIL: (413) 588-0862	AP
RESTRICTIONS NOTES: 1. THERE ARE NO PERENNIAL STREAMS, LAKES, P THE WELL PAD AND LOD. THERE ARE WETLAND	ONDS. OF RESERVOIRS WITHIN 100 FEET OF S ADJACENT TO STOCKERLYS WHICH WILL	AR-
REMAIN UNDISTUREED. 2. THERE ARE NO NATURALLY PRODUCING TROUT		15th
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4 THERE ARS ND APPARENT EXISTING WATER WE FEET OF THE WELL'S) BEING DREAED 5. THERE ARE NO OCCUPIED DWELLING STRUCTUR		6
THE WELL, PAD. 5 THERE ARE NO AGRICULTURAL BUILDINGS LARG FEET OF THE CENTER OF THE WELL PAD.		-

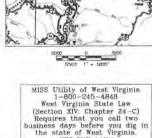
THERE PLANS WERE CREATED TO BE PLOTTED ON STARS (ANSI D) DATER. MALE SCALE DIAMERICS ARE IN 11 TO 7 (ANSI D) PAPER

THESE PLANS WERE CHEATED FOR COLOR PLOTTING AND ANY INDUCTIONS IN GRAV SCALE OR COLOR MAY RESULT IN A LOSS OF IMATION AND SHOULD NOT BY MARD FOR CONSTRUCTION PURPOSES

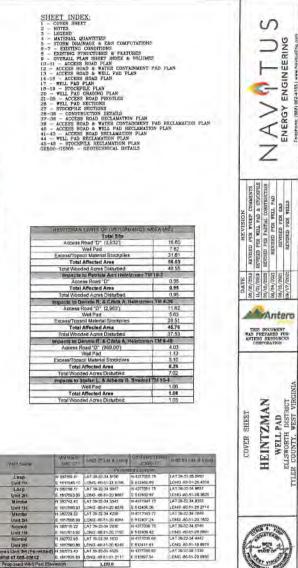




DESIGN CERTIFICATION: THE DRAWINGS, CONSTRUCTION NOTES, AND REFERENCE DIAGRAMS ATTACHED HERETO HAVE BEEN PREAMED IN ACCORDANCE WITH THE WEST VINCINIA CODE OF STATE RULES, INVESION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL ANT CAR CRS 35-F



IT'S THE LAW!





@11/1/22

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