

west virginia department of environmental protection

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

June 09, 2016

WELL WORK PERMIT

Vertical Well

This permit, API Well Number: 47-9502363, issued to ANTERO RESOURCES CORPORATION, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

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

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

James Martin

n #1V

Operator's Well No: Jackman #1V

Farm Name: Donald E. Moore

API Well Number: 47-9502363

Permit Type: Vertical Well Date Issued: 06/09/2016

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, 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 within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)

JUN 0 6 2016

STATE OF WEST VIRGINIA WV Department of DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF COLUMNIC GAS OTECTION WELL WORK PERMIT APPLICATION

1) Well Operato	r: Anter	o Resour	rces Corporation	494507062	095 - Tyler	McElroy	Shirley 7.5'	
				Operator ID	County	District	Quadrangle	
2) Operator's W	ell Numl	oer: Jackn	nan #1V		3) Elevation:	1042'		
4) Well Type: (a) Oil	or Ga	as X					
(b) If Gas:	Produ	iction X / Und	lerground Sto	rage			
			/ S					
5) Proposed Tar 6) Proposed Tor 7) Approximate 8) Approximate	fresh wa	iter strata	depths: 341', 407'	Formation at F	Proposed Tar Proposed Tota	get Depth: 6	3900' cellus	
9) Approximate	coal sea	m depths	s: 421', 615', 729'				24/1	1
10) Approximate	e void de	onthe (co	al, Karst, other):	None Identified			DM H - 6/2/16	6
							- 4/2//4	
11) Does land c	ontain co	oal seam	s tributary to acti	ve mine? N	0		-	
			nd fracturing method			I sheets if ne	eded)	
			hallow well and com					4
			r string which make casing setting dep					4
						TOOL WOLD ZO	nico dio covorci	4.
13) TYPE SI	PECIFIC	ATIONS	SING AND TUE	FOOTAGE	<u>am</u> Intervals	CEME	NT	
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu		
Conductor	20"	J-55	106.5#	40'	40'	38 Cu. Ft		
Fresh Water	13-3/8"	H-40	48#	460'	460' *see #12			
Coal	9-5/8"	J-55	36#	2510'	2510'	1022 Cu. F	t CTS	
Intermediate								
Production	5-1/2"	P-110	20#	6900'	6900'	1488 C	u Ft.	
Tubing	2-7/8"	L-80	6.5#	6500'				
Liners								
	N/A S: N/A hs Set	N/A					=	

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) 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
Loren E. Bagley, et al	Sancho Oil & Gas Corporation	1/8	0361/0752
Sancho Oil & Gas Corporation	Antero Resources Corporation	Assignment & Bill of Sale	0436/0316

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 he reby a cknowledges 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 ac quired from the appropriate authority before the affected activity is initiated.

Well Operator:

By: Its:

Antero Resources Corporation

Kevin Kilstrom, Senior Vice President of Production

Environmental Protection

WW-2B1	
(5-12)	

Well	No.	Jackman 1V	_	

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name Pace Analytical Sampling Contractor GHD Pty Ltd Well Operator Antero Resources Corporation Address 1615 Wynkoop Street Denver, CO 80212 Telephone 303-357-7310

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

No water sources were identified within 1,000' of this well site and ten within 2000', however please be advised that Antero Resources Corporation will attempt sampling of the water source identified on the surface owner's property listed below. RECEIVED Office of Oil and Gas

Gary Nichols - 206 Whitetail Ln. Alma, WV 26320 (2 water sources) James D. Spencer - 62 Whitetail Ln. Alma, WV 26320 Louis L. & Mary A. Blattner - 665 Fairmont Pike Wheeling, WV 26003

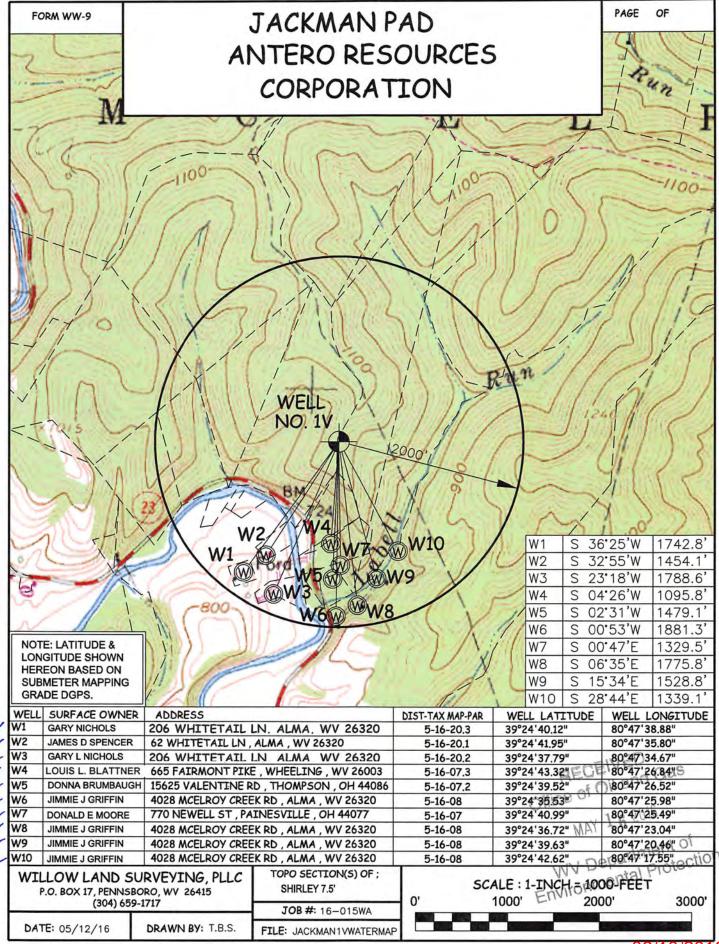
Donna Brumbaugh - 15625 Valentine Rd. Thompson, OH 44086

Jimmie J Griffin - 4028 McElroy Creek Rd. Alma, WV 26320 (4 water sources)

Donald E. Moore - 770 Newell St. Painesville, OH 44077

MAY 1 6 2016

WV Department of Environmental Protection 06/10/2016



WW-2	2A
(Rev.	6-14)

1). Date: May 13, 2016

2.) Operator's Well Number

Jackman #1V

State

County

095

Permit

3.) API Well No .:

: 47-

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

4)	Surface Ow	vner(s) to be served:	(a) Coal Ope	erator
	(a) Name	Donald E. Moore	Name	NO DECLARATIONS ON RECORD
	Address	770 Newell St.	Address	WITH COUNTY
		Painesville, OH 44077		4-7-1-3-10-6
	(b) Name	Robert J. Kocher	(b) Coal O	wner(s) with Declaration
	Address	845 Middle Island Rd.	Name	NO DECLARATIONS ON RECORD
		Middlebourne, WV 26149	Address	WITH COUNTY
	(c) Name	*PLEASE SEE ATTACHMENT	Name	
	Address		Address	
6) [nspector	Derek Haught	(c) Coal Le	essee with Declaration
13	Address	601 57th Street, SE	Name	NO DECLARATIONS ON RECORD
		Charleston, WV 25304	Address	WITH COUNTY
1-	Telephone	304-477-4148		
		TO THE PERSONS NAM	ED ABOVE T	AKE NOTICE THAT:
	Included is the	he lease or leases or other continuing co	ontract or contra	acts by which I hold the right to extract oil and gas
OR				The State of the s
_	Included is the	he information required by Chapter 22.	Article 6. Section	n 8(d) of the Code of West Virginia (see page 2)
_				inia Code I have served copies of this notice and
200				ugh on the above named parties by:
app	lication, a loc			ugh on the above named parties by:
		Personal Service (Affidavit attach		
	X	Certified Mail (Postmarked postal	receipt attache	d)
		Publication (Notice of Publication	attached)	
	I have re	ead and understand Chapter 22-6 and 3	S CSR 4, and	I agree to the terms and conditions of any permit
issu	ed under this	s application.	THE STATE OF COMME	
			ally examined	and am familiar with the information submitted on
this	application f	orm and all attachments, and that base	ed on my inquir	ry of those individuals immediately responsible for
		ormation, I believe that the information is		
2022				se information, including the possibility of fine and
imp	risonment.	are are eignineant penalties to	or outsimany rai	be information, including the possibility of line and
	. roommironta	Well Operator	Antero Resou	urces Corporation
	KARA	QUACKENBUSH By: T	Kevin Kilstror	n U. Waltus
- 1		ARY PUBLIC Ite. 7		President of Production
	STATE	OF GULUKADU	1615 Wynkod	
-1	NOTARY	10 20 144020231	Denver, CO 8	
	MY COMMISSIO			
			303-357-731	U
٠		Email:	- A A A A	241
Sub	scribed and	sworn before me this day of	Man	. 2010-00-10-10
1	JRANA XI	WILLIAM AM MANASA	0	mederate and and Gas
1.4.	Commissis	Eveiros Till 31 3017		Notary Publication of Oil and Gas
	Commission and Gas Privacy	The same of the sa		MAY 1 6 2016
on al	u Gas Frivacy	NOUSE		MAY 1 6 2016
The (Office of Oil and	d Gas processes your personal information, su	ich as name, addr	ess and phone number, as a part of our regulatory duties.

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov

WW-2A Notice of Application Attachment (JACKMAN PAD):

List of Surface Owner(s) with Proposed Disturbance associated with Jackman Well Pad:

ROAD AND/OR OTHER DISTURBANCE – These owners were only notified if their tract is overlying the oil and gas leasehold being developed by the proposed well work as outlined in WV Code 22-6-9(c)(2).

TM 16 PCL 7.2

Owner: Donna Brumbaugh

(ON LEASE)

Address: 15625 Valentine Rd.

Thompson, OH 44086

TM 6 PCL 7.3

Owner: Louis L. & Mary A. Blattner

(ON LEASE)

Address: 665 Fairmont Pike

Wheeling, WV 26003

TM 16 PCL 7 & 7.4

Owner: Donald E. Moore

(ON LEASE)

Address: 770 Newell St.

Painesville, OH 44077

TM 16 PCL 7.5

Owner: Robert J. Kocher

(ON LEASE)

Address: 845 Middle Island Rd.

Middlebourne, WV 26149

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Office of Oil and Gas

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WV Department of Environmental Protection

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ww.RECEIVED Office)of Oil and Gas

Page of API Number 47 - 095 Operator's Well No. Jackman #1V

JUN 0,6 2016

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION WV Department of OFFICE OF OIL AND GAS Environmental Protection FLUIDS/CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Antero Resource	ces Corporation	OP Code	494507062
Watershed (HUC 10) McElroy	/ Creek Qu	adrangle Shirley 7.5'	
Elevation 1042	County_Tyler	Distric	McElroy DA
Do you anticipate using more t	than 5,000 bbls of water to complete the p	proposed well work?	Yes No X
	ings? YesNo X		256
If so, please describe	anticipated pit waste: No pit will be used at this	site (Drilling and Flowback Fluid	ds will be stored in tanks. Cuttings will be tanked and hauled
Will a synthetic liner	be used in the pit? Yes No X	If so, what ml	? N/A
	ethod For Treated Pit Wastes:		
Und Reus	d Application lerground Injection (UIC Permit Number se (at API Number Future permitted well location Site Disposal (Supply form WW-9 for di er (Explain	ns when applicable. API# will sposal location) (Meac North	be provided on Form WR-34
Vill closed loop system be use	d? Yes		
rilling medium anticipated fo	- Ali - 110 15 C 1	Surface - Air/Freshwater, Intermediat	
S	r this well? Air, freshwater, oil based, etc	C. Dust/Stiff Foam, Production - Water F	E-seed Mud
	r this well? Air, freshwater, oil based, etce? Synthetic, petroleum, etc. N/A	C. Dust/Stiff Foam, Production - Water E	z - Zased Mud
-If oil based, what type	e? Synthetic, petroleum, etc. N/A	C. Dust/Stiff Foam, Production - Water E	z: Assed Mud.
-If oil based, what type dditives to be used in drilling	e? Synthetic, petroleum, etc. N/A medium? Please See Attachment	C. Dust/Stiff Foam, Production - Weter 5	ased Mud
-If oil based, what type dditives to be used in drilling brill cuttings disposal method?	e? Synthetic, petroleum, etc. N/A medium? Please See Attachment Leave in pit, landfill, removed offsite, e	C. Dust/Stiff Foam, Production - Water 6	ved offsite and taken to landfill
-If oil based, what type dditives to be used in drilling rill cuttings disposal method? -If left in pit and plan	e? Synthetic, petroleum, etc. N/A medium? Please See Attachment Leave in pit, landfill, removed offsite, etc solidify what medium will be used? (c	tc. Stored in tanks, removement, lime, sawdust	ved offsite and taken to landfill
-If oil based, what type Additives to be used in drilling Orill cuttings disposal method? -If left in pit and plan to -Landfill or offsite name	e? Synthetic, petroleum, etc. N/A medium? Please See Attachment Leave in pit, landfill, removed offsite, etc solidify what medium will be used? (cone/permit number? Meadowfill Landfill (Permit a	tc. Stored in tanks, removement, lime, sawdust	ved offsite and taken to landfill N/A n Landfill (Permit # SWF-1025/WV0109410)
-If oil based, what type Additives to be used in drilling Orill cuttings disposal method? -If left in pit and plant -Landfill or offsite name of the certify that I understant August 1, 2005, by the Office rovisions of the permit are entaw or regulation can lead to entaw or regulation can lead to entaw or regulation form and all attact btaining the information, I be enalties for submitting false in	e? Synthetic, petroleum, etc. N/A medium? Please See Attachment Leave in pit, landfill, removed offsite, etc solidify what medium will be used? (come/permit number? Meadowfill Landfill (Permit and and agree to the terms and conditions of Oil and Gas of the West Virginia Deforceable by law. Violations of any termit	tc. Stored in tanks, removement, lime, sawdust, sww-1032-98), Northwester of the GENERAL Vepartment of Environment or condition of the ed and am familiar veringuiry of those incurate, and complete.	ved offsite and taken to landfill) N/A In Landfill (Permit # SWF-1025/WV0109410) VATER POLLUTION PERMIT issued mental Protection. I understand that the general permit and/or other applicable with the information submitted on this dividuals immediately responsible for I am aware that there are significant
-If oil based, what type Additives to be used in drilling Drill cuttings disposal method? -If left in pit and plant -Landfill or offsite name of August 1, 2005, by the Office provisions of the permit are entaw or regulation can lead to entaw or regulation form and all attact btaining the information, I be enalties for submitting false in Company Official Signature	medium? Please See Attachment Leave in pit, landfill, removed offsite, et to solidify what medium will be used? (come/permit number? Meadowfill Landfill (Permit and and agree to the terms and conditionate of Oil and Gas of the West Virginia Deforceable by law. Violations of any termiforcement action. y of law that I have personally examine thements thereto and that, based on my elieve that the information is true, accuration, including the possibility of firm	tc. Stored in tanks, removement, lime, sawdust, sww-1032-98), Northwester of the GENERAL Vepartment of Environment or condition of the ed and am familiar veringuiry of those incurate, and complete.	ved offsite and taken to landfill) N/A In Landfill (Permit # SWF-1025/WV0109410) VATER POLLUTION PERMIT issued mental Protection. I understand that the general permit and/or other applicable with the information submitted on this dividuals immediately responsible for I am aware that there are significant
-If oil based, what type additives to be used in drilling orill cuttings disposal method? -If left in pit and plant and plant standfill or offsite name. I certify that I understant August 1, 2005, by the Office revisions of the permit are entered or regulation can lead to entered in J certify under penalty pplication form and all attact braining the information, I be enalties for submitting false in company Official Signature company Official (Typed Name)	medium? Please See Attachment Leave in pit, landfill, removed offsite, et to solidify what medium will be used? (come/permit number? Meadowfill Landfill (Permit and and agree to the terms and conditions of Oil and Gas of the West Virginia Deforceable by law. Violations of any termit forcement action. y of law that I have personally examine thements thereto and that, based on my elieve that the information is true, accurately contained the possibility of firmit and contained the possibility of firmit and Cole Kilstrom	tc. Stored in tanks, removement, lime, sawdust, sww-1032-98), Northwester of the GENERAL Vepartment of Environment or condition of the ed and am familiar veringuiry of those incurate, and complete.	ved offsite and taken to landfill) N/A In Landfill (Permit # SWF-1025/WV0109410) VATER POLLUTION PERMIT issued mental Protection. I understand that the general permit and/or other applicable with the information submitted on this dividuals immediately responsible for I am aware that there are significant
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REGEIVED Office of Oil and Gas

JUN 0 6 2016

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Form WW-9 WV Department of Operator's Well No. Jackman #1V Environmental Protection 2) + Access Rd. (2.79) + Topsoil/Excess (0.57) + Existing Additional Area (4.67) = 11.65 acres Proposed Revegetation Treatment: Acres Disturbed 11.65 acres Prevegetation pH Tons/acre or to correct to pH 6.5 Fertilizer (10-20-20 or equivalent) 500 lbs/acre (500 lbs minimum) Mulch 2-3 Hay or straw or Wood Fiber (will be used where needed) Tons/acre Seed Mixtures Area I Area II Seed Type lbs/acre lbs/acre Annual Ryegrass 40 Crownvetch 10-15 Tall Fescue 30 *or type of grass seed requested by surface owner Attach: Drawing(s) of road, location,pit and proposed area for land application. Photocopied section of involved 7.5' topographic sheet. Comments: Field Reviewed?

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

PRODUCTION INTERVAL

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

OFFICE OF OIL AND GAS

MAY & V . Exc

13. Escaid 110

Drilling Fluild Solvent - Aliphatic Hydrocarbon

14. Ligco

Highly Oxidized Leonardite - Filteration Control Agent

15. Super Sweep

Polypropylene – Hole Cleaning Agent

16. Sulfatrol K

Drilling Fluid Additive - Sulfonated Asphalt Residuum

17. Sodium Chloride, Anhydrous

Inorganic Salt

18. D-D

Drilling Detergent - Surfactant

19. Terra-Rate

Organic Surfactant Blend

20. W.O. Defoam

Alcohol-Based Defoamer

21. Perma-Lose HT

Fluid Loss Reducer For Water-Based Muds

22. Xan-Plex D

Polysaccharide Polymer - Drilling Fluid Viscosifier

23. Walnut Shells

Ground Cellulosic Material - Ground Walnut Shells - LCM

24. Mil-Graphite

Natural Graphite - LCM

25. Mil Bar

Barite - Weighting Agent

26. X-Cide 102

Biocide

27. Soda Ash

Sodium Carbonate - Alkalinity Control Agent

28. Clay Trol

Amine Acid complex - Shale Stabilizer

29. Sulfatrol

Sulfonated Asphalt - Shale Control Additive

30. Xanvis

Viscosifier For Water-Based Muds

Milstarch

Starch - Fluid Loss Reducer For Water Based Muds

32. Mil-Lube

Drilling Fluid Lubricant

OFFICE OF OIL AND GAS

MAY 2 0 2016



June 1, 2016

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

West Virginia Department of Environmental Protection Office of Oil and Gas Attn: Mr. Josh Westbrook 601 57th Street Charleston, WV 25304

RE: Jackman Unit 1V (API # 47-095-02363) Sent via Email

Mr. Westbrook:

After submitting the original application for the Jackman Unit 1V vertical well permit, we were notified by one of the surface owners that the surface tract where the well is located was mistakenly mislabeled due to inaccurate information at the county courthouse.

Therefore, we have updated the plat and design to show the correct owner for Tax Map 16 Parcel 7 (changed from Donald E. Moore to Robert J. Kocher). Please note that this update should not affect the notifications originally submitted as Mr. Kocher was notified as a surface owner on 5/13/2016.

The mylar plat is being overnighted via FedEx to your office. Please find enclosed the updated plat and design.

If you have any questions please feel free to contact me at (303) 357-7323.

Sincerely,

Ashlie Steele

Enclosures

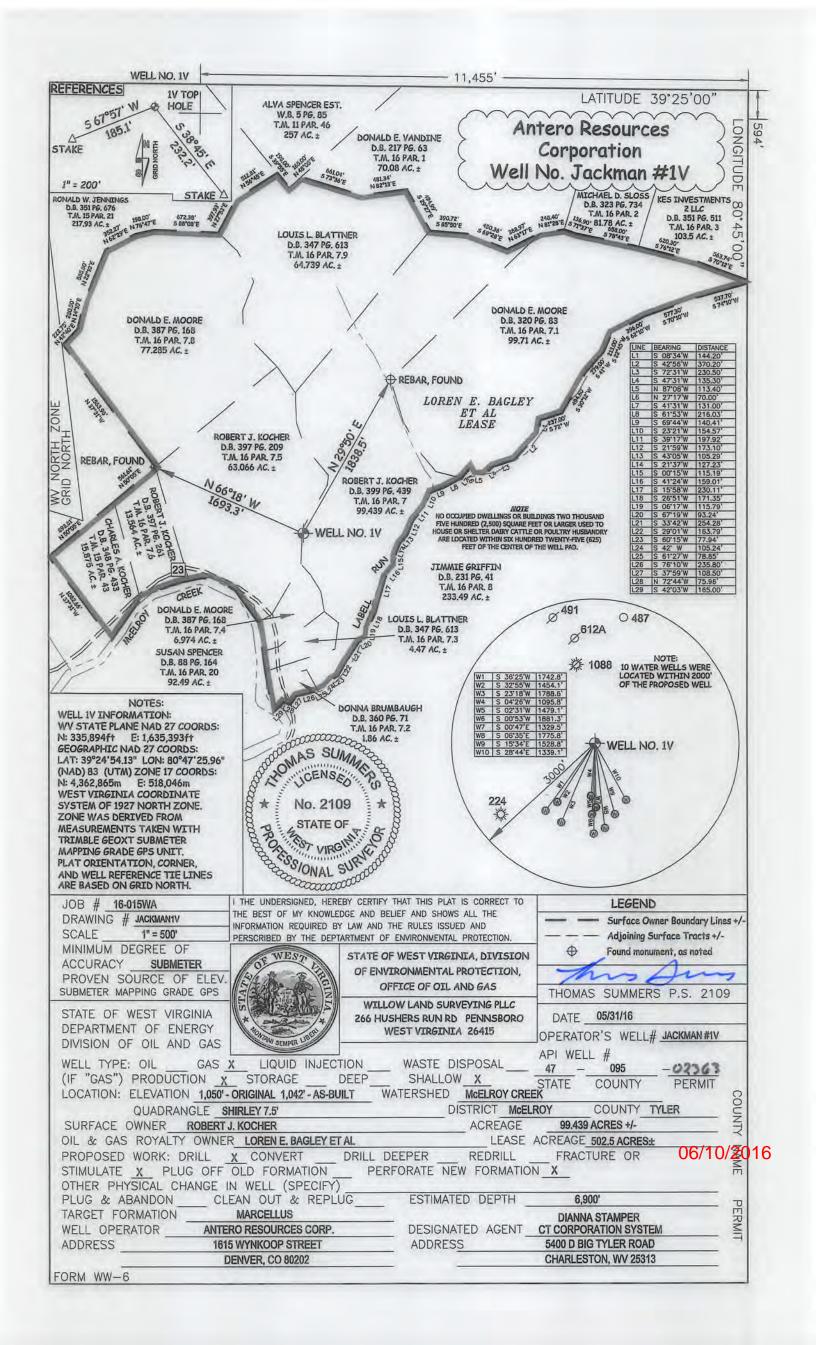
Permitting Supervisor

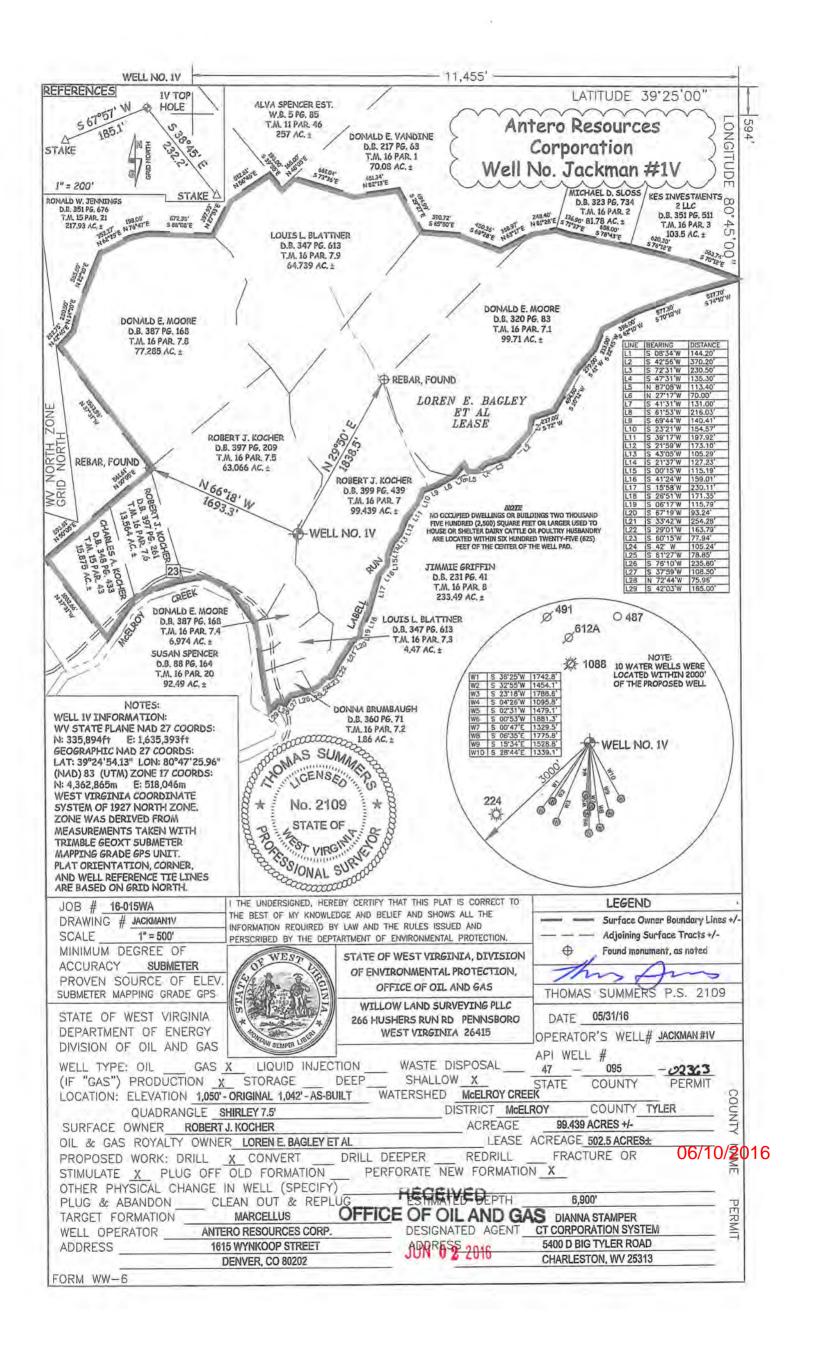
Antero Resources Corporation

OFFICE OF OIL AND GAS

OFFICE OF OIL AND GAS

JUN 02 2016





n Well Pad

-Built ources Corporation er County roy District : 39.415093° de -80.790363°

RECEIVED Office of Oil and Gas

JUN 0 6 2016

WV Department of Environmental Protection

Pertinent Site Information

Jackman Well Pad Emergency Number: 304-758-4275 McElroy District, Tyler County, WV Watershed: Middle Island Creek Antero Resources Emergency Number: 800-878-1373

4709502363

: Site As-Built

id Creek Watershed



			ct - Tyler Cou			
Owner	TM - Parcel	Well Pad	Access Road	Topsoil/Excess	Existing Add. Area	Total Disturbe
Donna Brumbaugh	16-7.2	0.00	0.44	0.00	0.18	0.62
Robert J Kocher	16-7	1.71	1.73	0.27	2.07	5.78
Mary Ann Blattner	16-7.3	0.00	0.50	0.00	0.08	0.58
Donald E Moore	16-7.4	0.00	0.06	0.00	0.19	0.25
Robert J Kocher	16-7.5	1.91	0.06	0.30	2.15	4.42

Access Road					
Surface Owner	TM - Parcel	Road Length	Type		
Donna Brumbaugh	16-7.2	325.16	Existing Access Road		
Robert J Kocher	16-7	1,490.94	Existing Access Road		
Mary Ann Blattner	16-7.3	58.40	Existing Access Road		

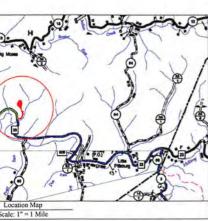
Disturbed Area	
Well Pad Construction	3.62 Ac
Access Road Construction	2.79 Ac
Topsoil / Excess Material	0.57 Ac
Existing Additional Area	4.67 Ac
Total Disturbed Area	11.65 Ac
Additional Informat	ion
Total Linear Feet of Access Road	1.874.50





Jackman Drill Pad McElroy District Tyler County, WV

1	Site Loc	ations (NAD 83)	_
1	Ditte Edec	mons (made ob)	
	Structure	Latitude (DD)	Long
1	Site Entrance	39.410435	-80
1	Center of Well Pad	39.415093	-80



Well Location Restrictions

Sheet	Description
1	Cover Sheet
V1	Schedule of Quantities and Volumes
N1-N3	Site Notes
2	Overall Plan View
3	Overall Plan View (Aerial)
4-5	Plan View
6-7	Rehabilitation Plan View
8	Cross Sections - Well Pad
9	Cross Sections - Well Pad Access Ro
GI	Grading Plan
SI	Site Reclamation

Erosion and Sediment Control Details Access Road Details Pad Details Midstream Production Details



WEST VIRGINIA COUNTY MAP WEST VIRGINIA COUNTY MAP WOOD WITCH WASTER WOOD WITCH WASTER WOOD AT PROJECT LOCATION FOOLOGISH WOOD TO THE TO

Site Enfrance
WV-N NAD 83 N: 34226-07
WV-N NAD 83 E: 160376222
WV-N NAD 83 E: 160376222
WV-N NAD 27 N: 334190-72
WV-N NAD 27 E: 1635204-10
Lat. NAD 83: 93-910934
Lat. NAD 27: 93-910354
Lat. NAD 27: 93-910354
Lat. NAD 27: 93-91034
Lat. NAD 27: 93-910354
Lat.

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Weil Pad WV-N NAD 83 N: 335/20.09 WV-N NAD 85 N: 335/20.09 WV-N NAD 27 N: 355/88-74 WV-N NAD 27 N: 355/88-74 WV-N NAD 27 N: 355/88-74 Lat. NAD 83: 39-415/903 Lat. NAD 83: 36-979/365 Lat. NAD 27: 39-415/12 LON NAD 27: 39-415/12 LON NAD 27: 405/905/86 LTM 17 NAD 43 N: 436/286-25 LTM 17 NAD 43 N: 436/286-24 Pad Elev.: 104/2.00

1

S Jackman IV

Well Table

Jackman IV W.-N.AD E3 N: 33592-40 W.-N. NAD E3 N: 33592-40 W.-N. NAD 27 E: 163594-04 W.-N. NAD 27 E: 163594-04 W.-N. NAD 27 E: 163594-29 Lat. NAD 23: 39-415118 Lon. NAD 23: 39-415118 Lon. NAD 27: 39-345037 Lon. NAD 27: 36

Project Contacts

Antero Resources

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Robert Wirks - Project Coordinator 304-842-4100 Off. 304-627-7405 Cell

Shawn Bennett - Construction Coordinator 304-842-4100 Off. 304-641-0071 Cell Survey and Engineer

Kenneth Kelly 304-338-6985 Off.

John P. See 304-442-0220 Off.

Zackary Summerfield 304-338-6987 Off.

Geotechnical Engineer

American Geotech, Inc. Kanti Patel 304-340-4277 Off

Environmental:

Wetland Delineations as provided by GAI Consultants dated March 14, 2016

Topographic Information:

The topographic information shown herein is based on aerial photography by Kelly Surveying PLLC, Dailey, WV

MISS UTILITY OF
WEST VIRGINIA
1-800-245-4848
West Virginis State Law
Saction XIV: Chapter 24-6 requires
Inal you call two business days
you dig in the state of Virginia
IT'S THE LAW



Floodplain Conditions	
Do site construction activities take place in a	
Permit needed from county floodplain coords	nator: NO
Flood Hazard Zone	X
HEC-RAS Study completed:	N/A
Floodplain shown on drawings:	N/A
FIRM Map Number(s) for site:	54095C0175C
Acreages of construction in floodplain:	N/A

Jackm

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Exhibit A



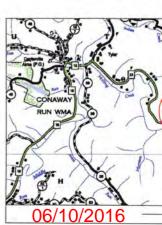


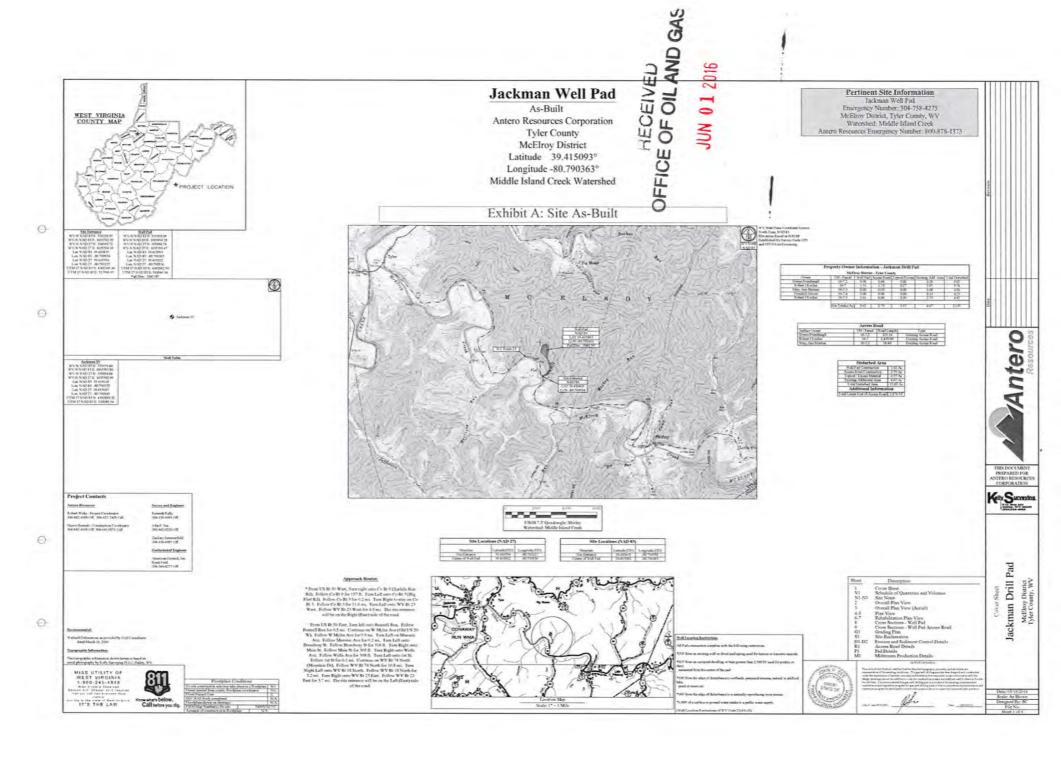
	Site Loca	Site Locations (NAD 27)	
	Structure	Latitude (DD)	Longitude
	Site Entrance	39.410354	-80.791
-	Center of Well Pad	39.415012	-80.790

Approach Routes:

* From US Rt 50 West, Turn right onto Co Rt 9 (Tarkiln Run Rd). Follow Co Rt 9 for 157 ft. Turn Left onto Co Rt 3 (Big Flint Rd). Follow Co Rt 3 for 0.2 mt. Turn Right to stay on Co Rt 3. Follow Co Rt 3 for 1.6 mt. Turn Left onto WV Rt 23 West. Follow WV Rt 23 West for 4.9 mt. The site entrance will be on the Right (East) side of the road.

From US Rt 50 East, Turn left onto Bunnell Run. Follow Bunnell Run for 0.5 mi. Continue on W Myles Ave (Old US 50 W). Follow W Myles Ave for 0.9 mi. Turn Left on Masonic Ave. Follow Masonic Ave for 0.2 mi. Turn Left onto Broadway St. Follow Frodoway St for 318 ft. Turn Right onto Main St. Follow Main St for 305 ft. Turn Right onto Wells Ave. Follow Wells Ave for 308 ft. Turn Left onto 1st St. Follow Usl St for 0.1 mi. Continue on WV Rt 74 North (Mountain Dr). Follow WV Rt 174 North for 10.8 mi. Turn Slight Left onto WV Rt 18 North. Follow WV Rt 18 North for 5.2 mi. Turn Right onto WV Rt 123 East Follow WV Rt 23 East for 3.7 mi. The site entrance will be on the Left (East) side of the road.





Schedule of Quantities & Volumes

Jackman Drill Pad Antero Resources Corporation Exhibit A: Site As Built

Earthwork

Volum	nes	
Existing Surface	*Cut (CY)	"Fill (CY)
Grading Plan	863,83	1,876,58
Access Road Slip Repair	1,846.32	1,846,32
Well Pad Slip Repair	2,618.19	2,618.19

Access Road Face Drains	220 LF
#57 Stone	60,00 tons
4" Perforated Pipe	220 LF
Site Drain Materials 50% Coverage	550 SF
Solid Outlet Pipe	40 LF
Nonwoven Geotextile	220 SY

Access Road Toe Key Drains	110 LF
R-5 Stone	552,44 tons

Well Pad Face Drains	400 LF
#57 Stone	110,00 tons
4" Perforated Pipe	400 LF
Site Drain Materials 50% Coverage	1000 SF
Solid Outlet Pipe	320 LF
Nonwoven Geotextile	400 SY

Well Pad Toe Key Drains	100 LF
R-5 Stone	287,99 tons

Well Pad Gallery Drains and Outlets	240 LF
R-5 Stone	200,00 tons

| Access Road Surfacing | 12" Min. 8% Ratio | 4,506 SY | 2" Stone Surfacing 3/4" or 1-1/2" | 475.57 Tons 6" Stone Surfacing #1 & #2 | 1,426.71 Tons 10 oz Filter Fabric | 4,506 SY |

9,724 SY
1,026.34 Tons
3,079.02 Tons
9,724 SY

Erosion and Sediment Control

Super Silt Fence		129	2
SSF#1	78	SSF#16	81
SSF#2	39	.55F#17	58
55F#3	43	55F#18	70
SSF#4	75	SSF#19	56
SSF#5	54	SSF#20	59
55F#5	55	.55F#21	31
5SF#7	48	SSF#22	36
99748	41	SSF#23	40
SSF#9	30	SSF#24	23
SSF#10	28	SSF#25	35
SSF#11	40	SSF#26	35
SSF#12	39	5SF#27	12
SSF#13	30	SSF#28	40
SSF#14	25	5SF#29	35
SSF#15	30	SSF#30	26

12° Filte	5ock	395
FS12#1	395	

12" We	thes	1423	3
W12F1	117	W12#3	98
WIZEZ	102	W1264.	106

Seeding and Mulching	0.29 Acres
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PREPARED FOR ANTERO RESIDENCES

Kety Surveying

Schedule of Dumnities, & Villames
Jackman Drill Pad
MeEtroy District

Hate Mr 19/2000 Scale: As Shewe Designed Box XW

NOTE:

THE ACTUAL CROSS SECTIONS TO BE CONSTRUCTED WILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER, BE DERIVED FROM APPLICATION OF THE TYPICAL CROSS SECTIONS SHOWN ON THE DESIGN DRAWINGS, EXISTING GROUND SURFACE AND ESTIMATED TOP OF ROCK LINES INDICATED ON THE DESIGN DRAWINGS CROSS SECTIONS AND/OR PLAN VIEW DRAWINGS ARE APPROXIMATE. THE ACTUAL SUBSURFACE CONDITIONS ENCOUNTERED ON THE SITE MAY DIFFER FROM THE TYPICAL CROSS SECTIONS, THESE DIFFERENCES MAY BE SIGNIFICANT. AND IF SO, THE DESIGN CROSS SECTIONS MAY NOT REPRESENT THE ACTUAL WORK NECESSARY TO COMPLETE THE WORK TO BE PERFORMED UNDER THE SCOPE OF THE PROJECT.

PERMITS:

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3. MATERIAL TESTING AND INSTALLATION GOVERNING CRITERIA:

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4. DESIGNER, SIGNING ENGINEER AND SIGNING SURVEYOR:

5. PROJECT PLAN SET, WELL SITE PLAN, CONSTRUCTION DRAWINGS PLAN OR ANY REFERENCE THEREOF:

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b. CONTRACTOR:

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9. CONTRACTOR SUPERINTENDENT, SUPERVISOR OR FOREMAN:

8. CONTRACTOR SUPERINTENDENT, SUPERVISOR OR FOREMAN:
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13. SCOPE OF WORK:

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14 PROJECT PLAN SET VOLUMES AND DISCREPANCY NOTIFICATION PRIOR TO BIDDING OR INSTALLATION:

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Jackman Drill Pad

Antero Resources Corporation

Exhibit A: Site As-Built

15. PROJECT, CONSTRUCTION SEQUENCE: THE PROJECT PLAN SET DÉRICIS À GENERAL CONSTRUCTION SÉQUENCE OR TIMELINE FOR INSTALLATION/ CONSTRUCTION

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NTERIO RESOURCE:



Pad District mtv, WV Drill McElroy I Jackman

Scale As Shows Designal By, Dr.

PROCEDURES (DESIGN STANDARDS):

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- A PLE AND CUT SCORES SHALL BE 2H-TV OF FLATTER.

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- C. METRE UPLAND BRAINACE IN CUT SLOPE AREAS LINE ANTICOPACID TO CREATE 4
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- d. HAW'S SHALL BE DESIGNED AS PER MANUFACTURER'S STANDARDS WITH AN EXCEPT CARACTY FOR TRAPPED SERMANT. BEINGS SHALL BE INSTALLED AS FOR MANUFACTURERS RECOMMENDANCY (OF CONTROL FOR SET TRANSIES AND SOCIE, ETC.) OWER SECOND ERRORM AND SERMANT PROFERED CONTROL STANDARDS, IT NOW WILL THE DESIGN RECOMMENDED FOR SERVIN MAD CONTRAMENT, MALL SET USED WHERE WILL THE DESIGN RECOMMENDED FOR SERVIN MAD CONTRAMENT, MALL SET USED WHERE APPLICABLE

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- C. DESKING SHALL WISPERDRATE BAPS TO ALLOW FOR THE EXECUTION OF THE FOLLOWING

2. EROSION AND SEDIMENT CONTROL STANDARD OPERATING PROCEDURES (CONSTRUCTION):

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PROCEDURES (CONSTRUCTION):

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- CONTROLS SMALL BE RISTALLED AND MANIANCED SICH THAT SEDMENT LABOY WATER GRESS NOT LEASE THE SITE WITHOUT PASSING THROUGH WATERUS TRAFFINES (CONTROL TO SEMENA SEDMENT SICH THAT SEMENTED DOSS NOT LEASE THE CONSTRUCTION SITE. SHE CONTRACTOR IS RESPONSIBLE FOR ADONG EAS CONTROLS MADE CONTROL TO ACTIVITY OF PROFILESS SERVED CONDITIONS (OWNER) SHEDED MATERS. CONCENTRATED FLOW, ETC.) WHERE SEDMENT LADEN WATERS ARE CHEATED THAT MAT-LEAKEN THE CONTROLLOROUS SITE.
- d. ALL EPOSON AND SEDMENT PREVENTION AND CONTROL BUP'S SIMIL BE WANTAMED AND REPARTO AS MEDIED TO ENSURE CONTRACED PERFORMANCE OF THEM INTERIOR FUNCTION MEDIED REPARS SHALL BE MOSE AS SOON AS PRACTICABLE.
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- e. A STABULZED CONSTRUCTION ENTRANCE(S) AS SHOWN IN THE DETAILS OF THE PROJECT PLAN SET AT THE LOCATION(S) AS SHOWN ON THE PROJECT PLAN SET WILL BE INSTALLED TO PREVENT ANY SOL OF SEMINATE PROBLEMS CORRESPONDED THE PROGRAMS, (SEE CENERAL NOTES
- f. THE CONTRACTOR SHALL PROVIDE STABILITED AREAS FOR EMPLOYEE PARKING AND STORAGE OF CONCENCTION MATERIALS. ERRORD CONTROL BANKS SHALL BE UNLITED AS MICESSARY TO PREVENT SETMENT LACEN PUNCH FROM LEAVING OR SEDMENT BEING TRANSPORTED FROM VEHILLE PARKING AIREAS.
- G. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES WHICH INVOLVES SOTENIAL CONTAMINATE OF STATE THE PROPERTY AND REPORTS WHICH THE COMMUNITY IN A MANUER MICH PREVENTE CONTAMINATION OF SOILS, SURFACE WITER AND DROUGH WINDS. TAPPS, ONE PARTS, OF STHER APPROPRIATE MEASURES SHALL BE USED AS
- A ALL POLLUTANTS OF SHEW THAN SESMENT SHALL SE STORED, HANDLED AND DISPOSE IN A MARKET THAT DOES NOT CRUSE CONTAMINATION OF STORM MATER OR SOLE
- AT STREAM DRUSSINGS, OF BUFFER AREAS SHOULD BE MAINTAINED. WETHIN THE BUFFERS, ELEARING, MERTATION DISTARBANCES, EVERAMINON, AND COUPRINT SHAFFER SHOULD BE MAINTAIDE. ANTWERS SHOT AS STATIONS, CORE, SHIPMING CLARED BUFFER, DESIGNATIONS RANNARIZE FROM TREMONES, MEDING THE SECTIONS, STREAMS AND MAINTAINING COMPARTS FROM TREMONED AND OTHER BUFFERS.

2 CLEARING

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4. CLEARING AND GRUBBING OPTION:

I. CLEARING AND GRUBBING OPTION:

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5. EROSION AND SEDIMENT CONTROL MEASURES:

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9. SILT FENCE OR SUPER SILT FENCE:

SILT FENCE OR SUPER SILT FENCE:

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12. ROCK CHECK DAMS:

2. ROCK CHECK DAMS.

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13. OUTLET PROTECTION:

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Jackman Drill Pad

Antero Resources Corporation Exhibit A: Site As-Built

14. REMOVED SEDIMENT:

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15. INSPECTION:

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- THE CONTROL DETECTIONS SHALL BE REPARED AS SOON AS POSSELE EMPERION. THEODORY REPARES WITH TRICKIN-LIP EFFAMENT REPARES MALL BE REPROPORTED AS CONTROL SECURIOR TO STOM THE TRACKINGTO OF STRIKEN LADD WITH FROM THE STATE CONTROL THE TRICKING WITH T
- THE CONTRACTOR SHALL ANTICIPATE EAS REQUIREMENTS AND HAVE SETTICATED AN EXPINAL ON SET LOSS AND/ONE SETTICATED SHALL ON SET LOSS AND EXPORTS. PROVIDED AND EXPORT DURING WITCH PROVIDED AND EXPORT DURING WITCH AND EXPORTS AN

16. CONSTRUCTION GENERAL PRACTICE AND CONSIDERATIONS:

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CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMAZE PRODON. MICHOLD RODON CONTING BLANDETS MIST BE INSTALLED ON MIL. SLOPES SHALL MINISTREED FROM STREETE BLOOM CONTROLLED AND PRESENTED BY SHOT MICHOLD STREET, BROWNING THE SUPPRINCE OF SUPPRINCE SIDES BY THE USE OF STRENGTH OWNERS. ALL UNERSON/CONFEYENCE CHAMBLES, DOTH THE FOREITH AND FEWARENT, SHALL HE STIBLIZED WITH APPRICATE LIMBS (FLEXALLY, LUTE, OR OF 949, LTC.) AND FOOD DECKE TO PRESENT EROSON OF THE SHAMEL.

17. SITE STABILIZATION:

IS SITE STABILIZATION:

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WA A DELY MANNEY PIOU GREATER THAN 7 DAYS AFTER EARTHWORK ACTIVITIES

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TR. GENERAL NOTES:

NOTIFICAL NOTES:

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- 2. THE ABOVE NOTES ARE A MINIMUM TO ADDRESS CONTROL OF EROSION AND SEDMENTATION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL ADDITION CONTROL MEASURES IN ACCORDANCE WITH THE BMPS AS NECESSARY TO STADI THE CONSTRUCTION AREA AND ELMINATE ALL SEDIMENT FROM LEAVING OR BEING DISCHARGED OFFSITE (SEE MATERIAL INSTALLATION AND GOVERNING CRITERIA)
- B. "NO COURSE EMPERE MECHANISMS THAT HE EMPERE HAS SERVED AND SERVED." CONTROL
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STERO RESIDENCES COMPOSATION



Pad McElroy District Lylar County, WV Drill Jackman

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2. PROJECT CONDITION:

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D. UTUTIES:
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d. CONSIDERATION IN CONTRACTOR SHALL COORDINATE THE WORK WITH THE GEOFEDINGS. DESCRIPTION OF WELL SURVEYING THAT REPRESENTATION BY MOTIFICIAL THE ACCRETATION OF SCHELLED WORK OF ADMINISTRACE OF SCHELLED WILL COORDINATE WORK WITH OTHER TRACES IMMOST WICE WILL THE CHARGETOR OF THE SITE.

3. DEFINITIONS:

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d. SATISFACTORY MATERIALS: MATERIALS ARE SATISFACTORY AS FILL MATERIAL WHEN THE CAN. WITH THE STANDARD PROCEDURE OF THE MEETING CONTROL OF THE CONTROL OF MEET THE DENSITY REQUIREMENT, SATISFACTORY MATERIAL SHALL BE ABLE TO COMPACT TO SS FREENT OF THE STANDARD PROCTOR FOR ASIA ID 668 SHALL SE WITHIN 1974 REPORTING STANDARD OF CONTINUE WASHINGTON OF ASIA ASIA ID 668 SHALL SE WITHIN 1974 REPORTING FOR ASIA ID 668 SHALL SE WITHIN 1974 REPORTING FOR ASIA ID 668 SHE THE CORRECTION OF THE STANDARD OF THE S

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A. TOPSOL:
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CANABLE OF SUPPORTINE A SOOD GROWN OF CRASS.

I. SOE WEARING CAPACITY

SOIL UNDERWEATH ALL FOOTINGS AND STRUCTURES SHALL HAVE A MINIAUM DEARING CARACITY OF JODG POLINDE SET SOLIARE FOOT, AS DETERMINED BY THE GEOTECHNICAL ENGINEERING OF AS REFERENCE OF THE SECURIES OF THE SECURITIES OF THE SECURITIE

4. TEST RORINGS

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PLANNE TOPOGLE.

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B. STABLITY OF EXCHANDING MAINTAIN SIDES AND SLOPES OF EXCAVATIONS IN A MAINER SUCH THAT THE EXCLUNITION REQUIRES SATELY OF FREGHERIA, CAR OF PART 1930 SUBPORT P PROTECTION OF ROPE, AND COMPLANCE WITH REQUIREMENTS OF ALL JURISDICTIONAL ACRESES.

f. PREPARATION OF GROUND SURFACE FOR FILL

REPARATION OF GROUND SUMMATERS FROM THE AVEN STOPS, HEAVY EXCENT OF GALES, AND ALL RECENTION BOTH ARE ROOFED, GROUND HEAVY STOPS, HEAVY EXCENTIVE MATERIAL WINDS THE RELEASED VESTIANCE MATERS, RESERVE, AND OTHER UNCENTRACTORY MATERIAL WINDS THE FACE, SHARE STOPPED OF OTHER REPORTED. IN YOU CASE WILL UNCANSTRACTORY MATERIAL REMAIN FOR RECENT BOTH THE STATEMENT OF THE PROCESS WERE ALL ASSAIL THE METALS STATEMENT OF THE DECEMBER OF MATERIAL REMAIN FOR RECENT STATEMENT OF THE DECEMBER OF THE SERVER WINDS OF THE METALS OF THE STATEMENT OF THE SERVER WINDS OF THE METALS OF THE STATEMENT OF THE SERVER WINDS OF THE STATEMENT OF THE DECEMBER STATEMENT OF THE DECEMBER STATEMENT OF THE DECEMBER STATEMENT OF THE STATEMENT OF

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Jackman Drill Pad

Antero Resources Comoration

Exhibit A: Site As-Built

FINISHED COLOR

NORMED GRACE:

ALL REAR DORDED BY THE PROJECT PLAN SET, INCLUDING EXCANAGED AND FALED SECTIONS 7.

AND ADMICTOR TRANSPROK AREAS SHALL SE UNIFORMEY MADDIN-CRANCED. THE PROSPECT SHAPE SHALL SEE SHADON COMPACTED. AND FREE FROM REVIELDAM SHAPE COMPACTED AND FREE PROSPECT SHAPE SHAPE SHADON SHADON SHADON SHAPE SHADON OF THE PROJECT SHAPE S

PROTECTION SITE PRESERVATION

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E. TESTING:
THE CONTRACTOR SHALL DUE THE CAMER OF HE REPRESENTATIVE AT (EAST AS HOURS MOTION PROP TO ORDINAIS ANY NEW SOLL EXCAUSION AND/OR BARROW AREAS TO BE USED. NOTE PROOF TO CHINDING ART HER SIZE EXCENDED AND/OR BROWN AND STORE THE EMBARMAN/PILL CONSTRUCTION. SAMPLIST IS ROUBLED TO GIVE THE DISCOVERAGE ADDITION THE TO CRITICAL SIZE SAMPLIST FOR MISSING DENSITY RETIRES (COMMAND TO MONITOR THE PLANDEMST. IN EXCURITE, THE CONTRACTOR SHALL SIZERY IN MIZESSAMY COMPANIES AND CHEFTON TO CRITICAL THE SIZE SAMPLIST SEEST SHALL BE MADE BY THE CONTROLLED HOUSE OF THE SEPRESHITATIVE.

h: TESTING FREQUENCY

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6 PARTICLE SIZE USED IN FILL AREAS:

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CONSTRUCTION OF FRESH WATER IMPOUNDMENTS:

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JU O DISTRIBUTION OF THE PROPERTIES FOR THE PROPERTY AND THE PROPERTY OF THE SUPER THE PROPERTY OF THE SUPER THE SUPER THE SUPER THE SUPER SUPE

b. CONSTRUCTION OF THE WELL DRILL FIND OR FACILITY PAD

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48 MOVES AND BELOW: 6 TO 12 MOVES (IN ANY DIMENSION).

48 WORSE AND SELDIFF, & TO 12 HOUSE (M. ANY DIMEDION).

IN THE DEPTH DEEPH 48 WORSE (M. ANY DIMEDION), THE ENTIRE LIFT SHALL NOT BE CONSIDERED TO MAY 12 MOVE MESSAL OF THE COMMANDED THEORYSES OF THE LINES SENSO. CONSIDERED TO MAY 12 MOVE MESSAL OF THE COMMANDED THEORY OF THE LIFE SHALL SE MOST DIMEDIAL SENSO. THE LINES SENSO SENSOR THE LIFE SHALL SENSOR THE LIFE SHALL SENSOR THE SHALL SENSOR THE LIFE SHALL SENSOR SENSOR THE LIFE SHALL SENSOR THE SHALL SENSOR THE SHALL SENSOR THE SHALL SH

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PROOF ROLLING:

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ANY WEAS WHICH DEFLECT, BUT OF PUMP UNDER THE LOADED COME TRICK SHALL BE UNDERSOIT AND REPLACED WITH COMPA-TILL MATERIAL OR OF SMALLER WATERIAL REPRED UNTIL A RELATELY CONTILIONS SURVIVED S ADDREVED.

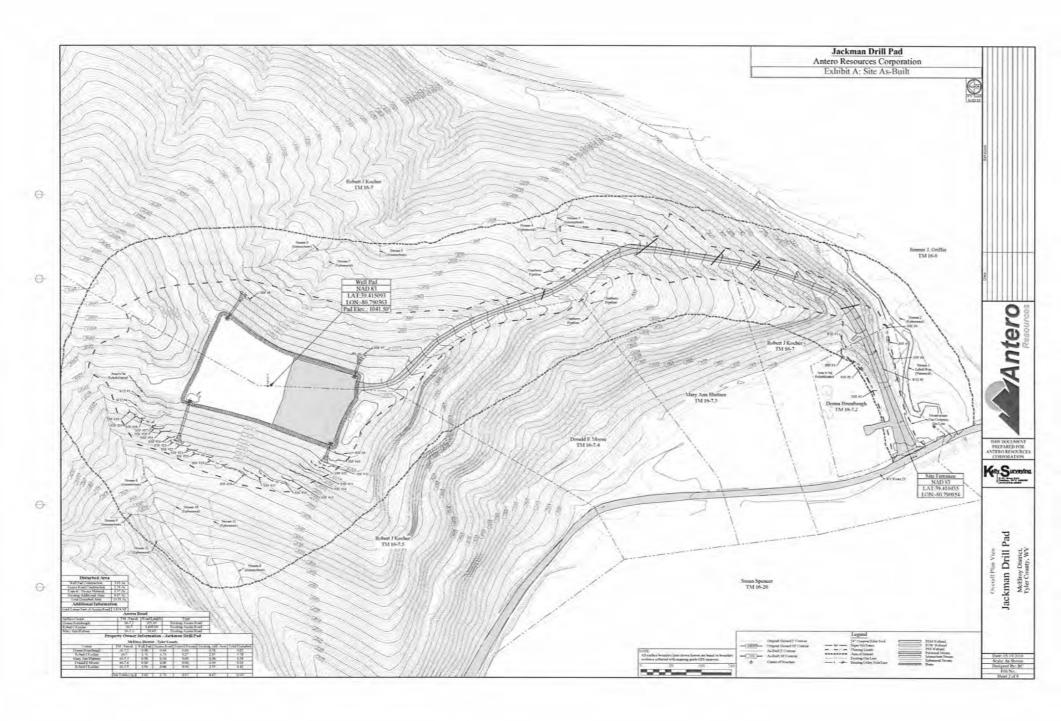
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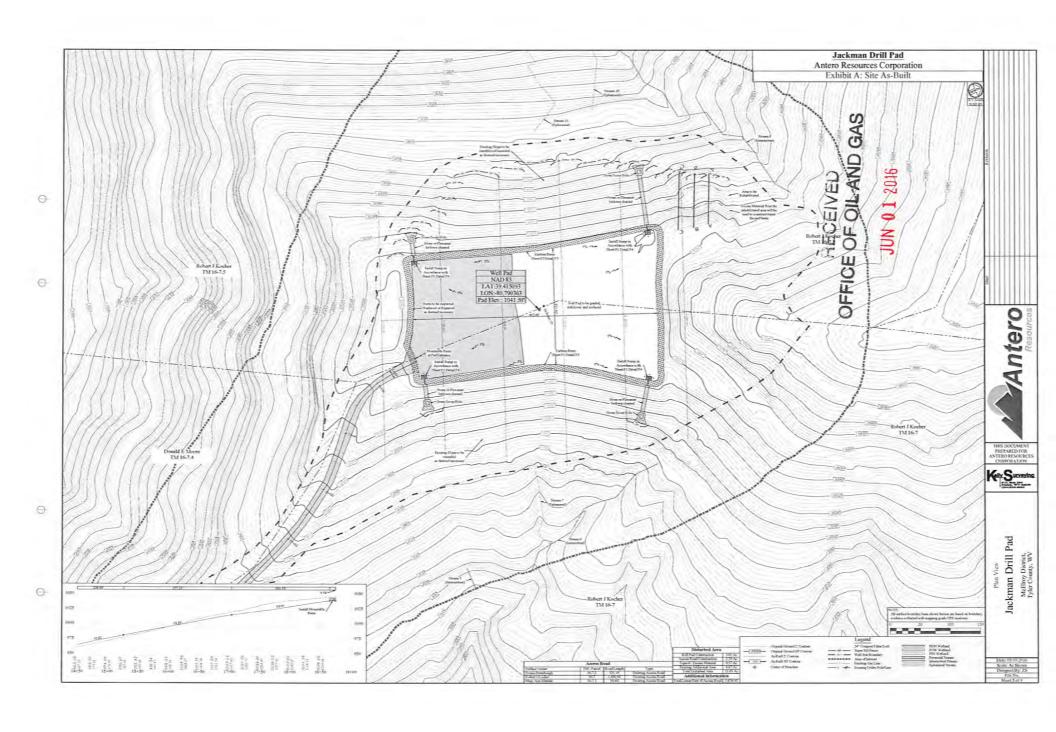
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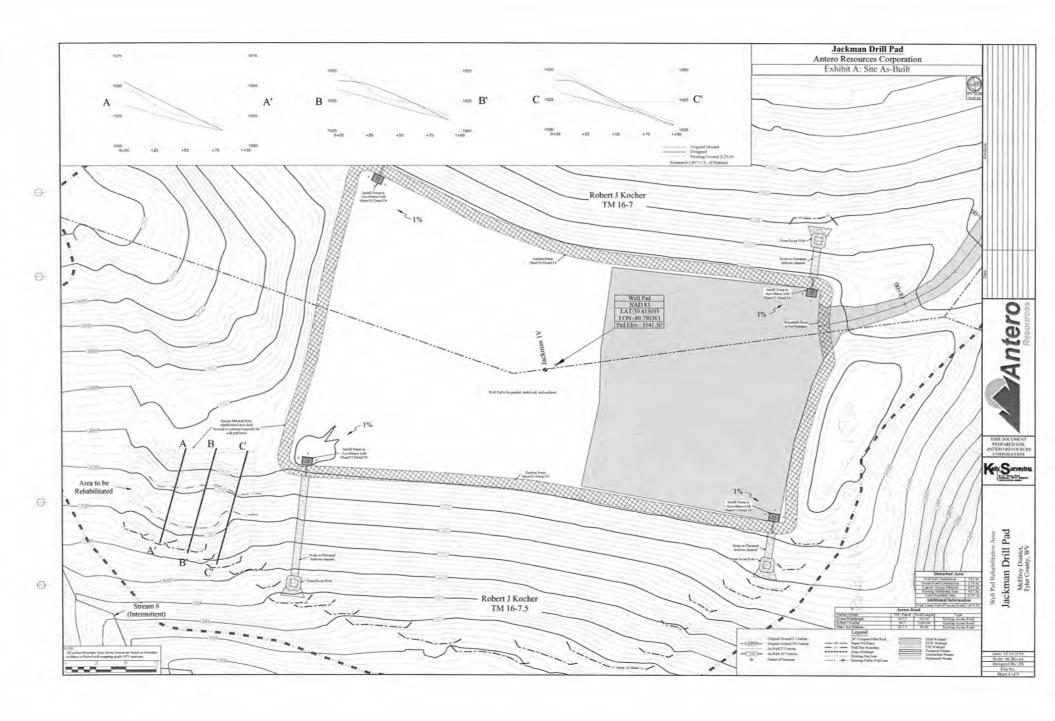
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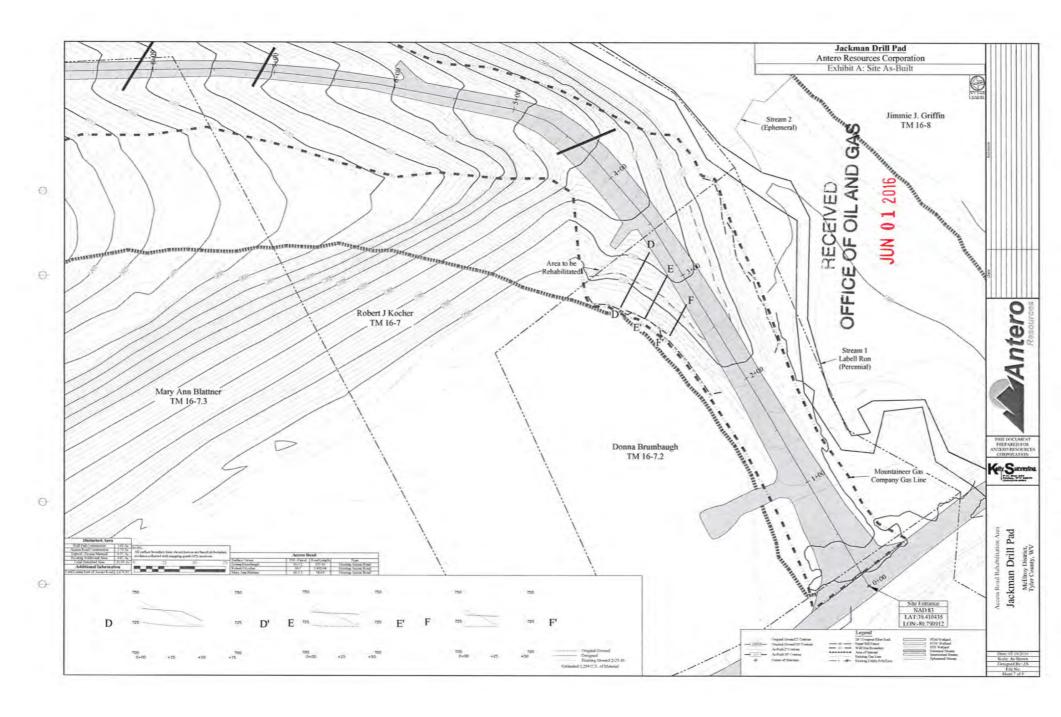


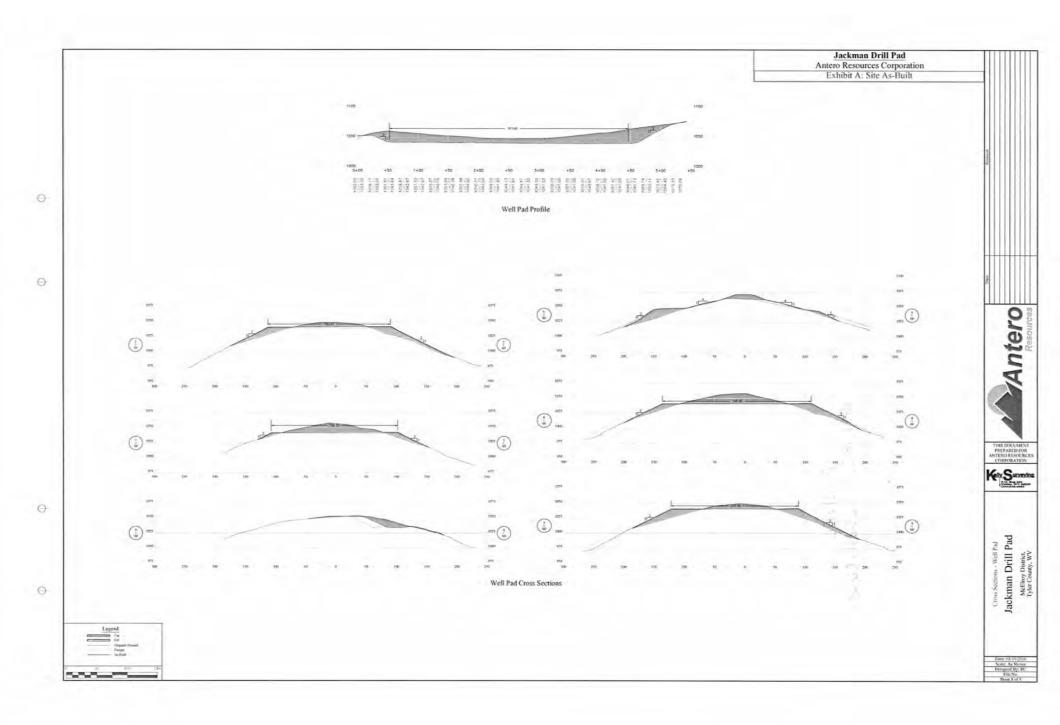
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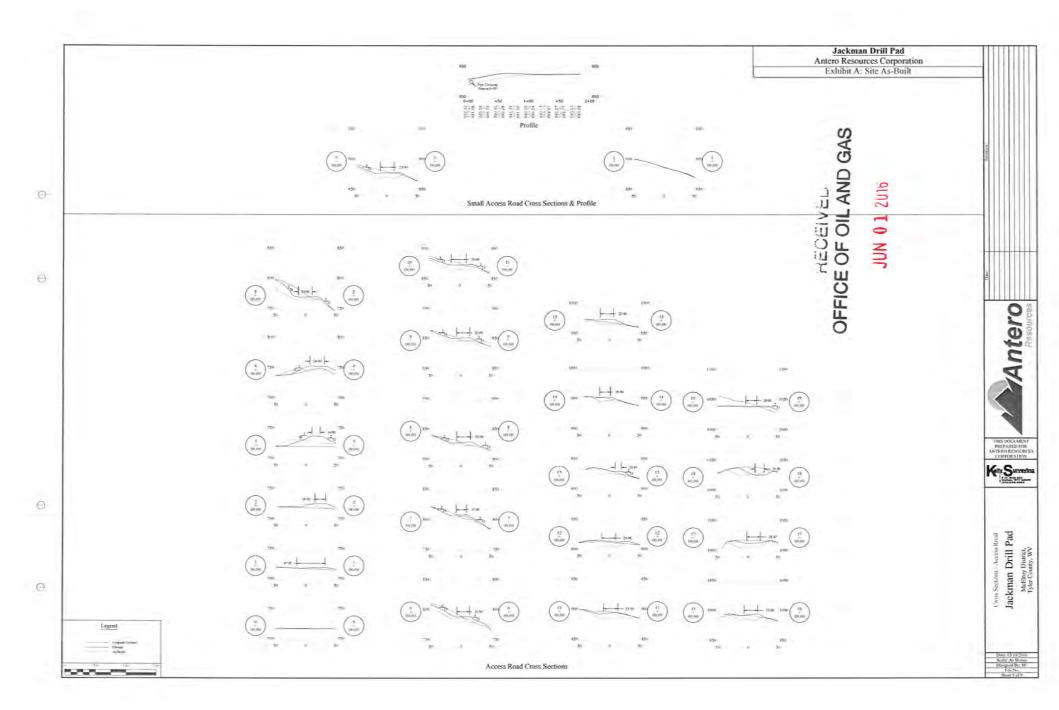


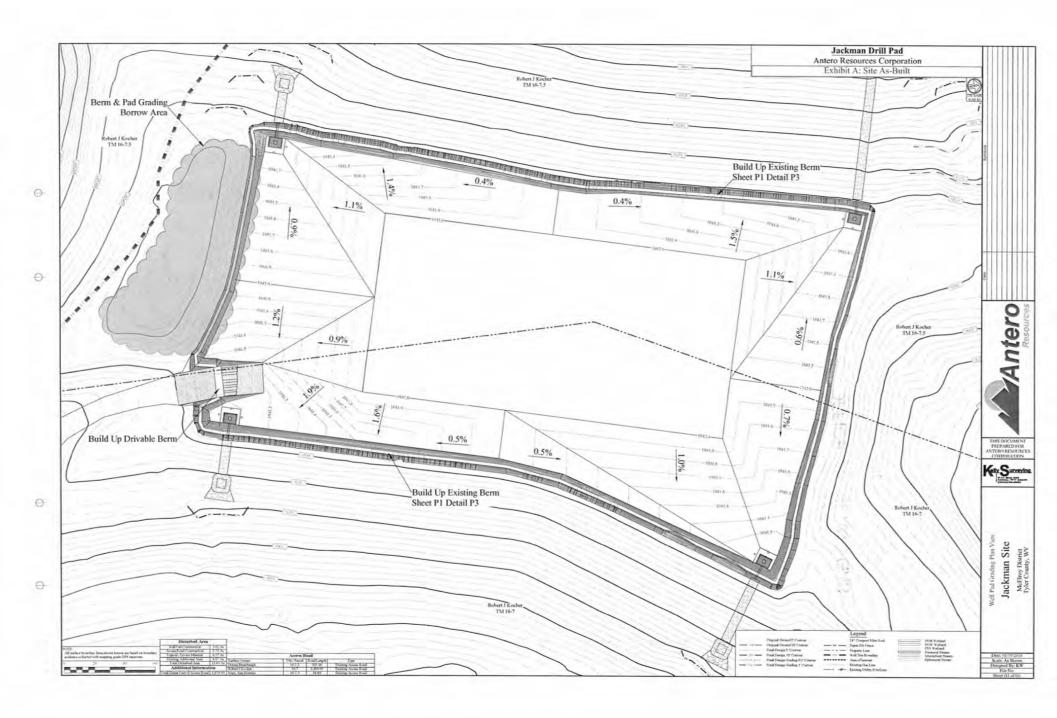


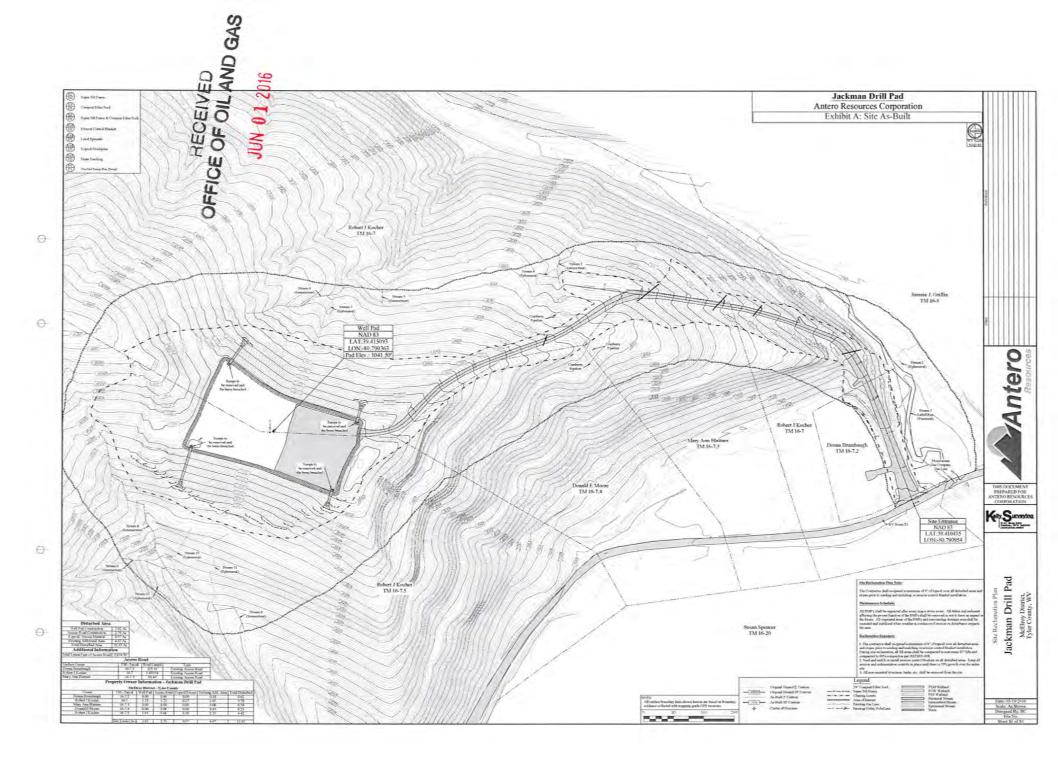


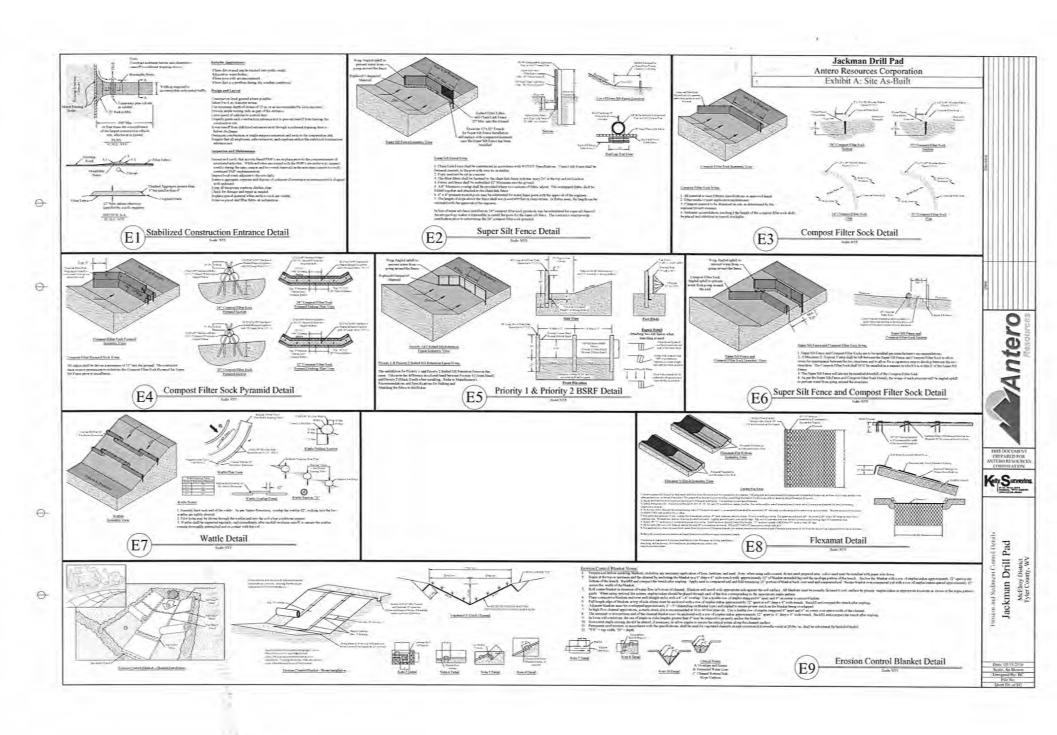


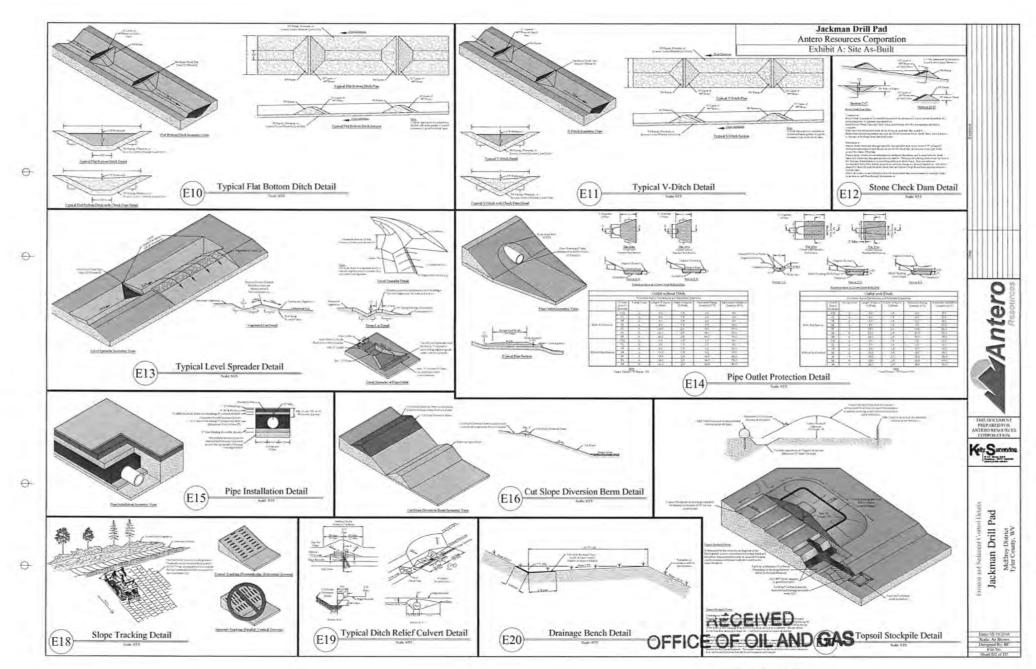




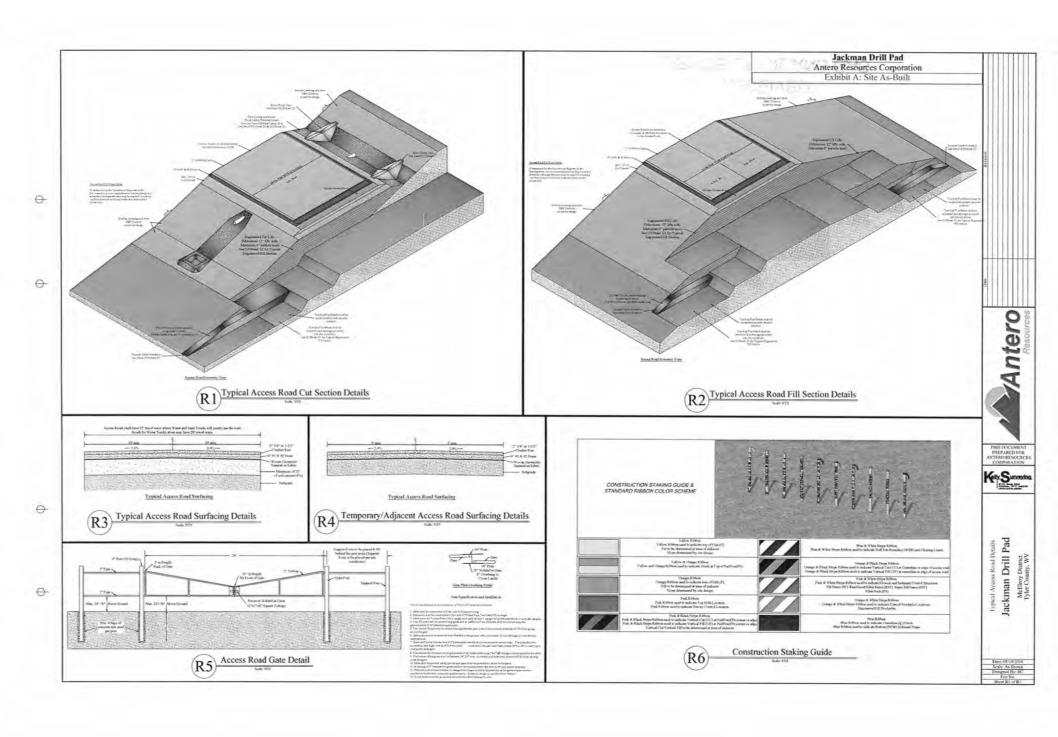








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