

#### 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

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Wednesday, April 1, 2020 WELL WORK PLUGGING PERMIT Horizontal 6A Plugging

ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET

DENVER, CO 80202

Permit approval for OXFD13BHS Re:

47-017-06457-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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.

James A. Martin

Chief

Operator's Well Number: OXFD13BHS

Farm Name: MORRIS, I.L.

U.S. WELL NUMBER: 47-017-06457-00-00

Horizontal 6A Plugging Date Issued: 4/1/2020

Promoting a healthy environment.

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

#### **CONDITIONS**

- 1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 2. 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.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4B Rev. 2/01

1)Date	, 20
2)Operator's	
Well No. OXFD13 BHS	
3) APT Well No. 47-017	- 06457

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

Location: E	evation 1152.4'	Watershed South F	ork Hughes River
D	strict Southwest	County Doddridge	Quadrangle Oxford 7.5'
Well Operator	Antero Resources Corporation	7)Designated Age	nt CT Corporation System - Dianna Stamper
	1615 Wynkoop Street	Addre	ss 5400 D Big Tyler Road
	Denver, CO 80202		Charleston, WV 25313
Oil and Gas	Inspector to be notified Flack		actor Antero will plug well
Address 60	1 57th Street SE	Address_	
Ch	arleston, WV 25304	_	
	The work order for the man: Attached Work Order	ner of plugging th	RECEIVED Office of Oil and Consists well is as follows: 2 4 202  WW Department Environmental Protes
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#### OXFD 13BHS Doddridge County, WV API #47-017-06457

47-017-06457P

1615 Wynkoop St. Denver, CO 80202 Office: 303.357.7310 Fax: 303.357.7315

Objective: Plug and Abandon Marcellus Wellbore.

#### Well Design:

20" Conductor @ 60'

13-3/8" Surface Casing @ 1,062' (17-1/2" hole)

9-5/8" Intermediate Casing @ 2,817' (12-1/4" hole)

5-1/2" Production Casing @ 12,385' (8-1/2" hole)

#### Procedure:

69-

- 1. Check and record all casing/annular surface pressures into Wellview
- 2. Notify WVDEP prior to commencing work.
  - Daniel Flack is Doddridge County WVDEP inspector
  - b. 304.545.0109
  - c. Daniel.a.flack@wv.gov
- 3. Move in and rig up flat tank and frac tank (No pits will be utilized).
- 4. MIRU service unit.
- 5. If zero pressure, ND frac valve and NU BOP's on tubing head.
- Lubricate out BPV in wellhead hanger through BOP's. Verify zero pressure in 5 ½" casing.
   52τ Δ 2 1 6 P Q 6400'.
- 7. Pick up 2-3/8" tubing open ended and trip in hole with singles to 6,000 6400.
- MIRU cement services. Mix and pump a 200' cement plug (Class A cement + 2% CaCl<sub>2</sub>, zero excess, yield =1.15 ft<sup>3</sup>/sk, WR = 5.2 gal/sk)
  - a. 5 1/2", 20# volume = 0.1245 ft<sup>3</sup>/ft
  - 200' plug = 25 ft<sup>3</sup> cement.
  - c. Displace to balance plug with fresh water treated with 6% gel
  - Slowly pull out of cement plug and lay down 300' of 2-3/8" tubing
  - e. Reverse circulate tubing clear of cement with fresh water treated 6% gel
  - f. Wait on cement 8hrs.
  - g. RIH w/ tubing and tag TOC at approximately 5,800' 6200', 9 mm

Office of Oil and Gas

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WV Department of Environmental Protection

- Load remaining 5 ½" casing with fresh water treated with 6% gel (130 bbls).
- TOOH laying down tubing in singles.
- 11. Rig up 5 ½" casing cutter and RIH to 2,400' correlate with CBL run on 2/12/20. Free pipe is estimated at 2,250'. Plan on cutting casing at approximately 2,200' in the middle of a casing joint.
- 12. Rig up casing jacks if needed and pull 5 1/2" casing free above 2,200'.

MAY PUMP CEMENT THROUGH 51/2" CASING AS TRIPPING

13. If 5 ½" casing pulls free, determine if cement plugs can be pumped down 5 ½" casing after the cut and while laying down the casing. If so, pump the following plugs from surface down casing.

If pumping plug down 5 ½" casing, mix & pump a 200' cement plug using Class A cement + 2% CaCl<sub>2</sub>, (20% excess included yield =1.15 ft<sup>3</sup>/sk, WR = 5.2 gal/sk). Plug should cover 200' above cut casing.

- a. Trip out of hole and wait on cement
- b. Tag TOC 200' above 5 1/2" casing cut at approximately 2,000'.
- C. ADD CEMENT IF NEEDED,

DAR 3+17-20

15. If cement plug is required 100' above casing cut and 100' below casing cut, 2-3/8" tubing will need to be run back in the well after 5 1/2" casing is laid down. This plug will be inside of 9-5/8" casing. Determine the total length of 5 1/2" casing laid down.

Volume inside of 9-5/8". 36# casing = 0.4340 ft<sup>3</sup>/ft

- 200' plug = 87 ft<sup>3</sup> cement
- c. Displace to balance plug with fresh water treated with 6% gel

d. Slowly pull out of cement plug and lay down 300' of 2-3/8" tubing

e. Reverse circulate tubing clear of cement with fresh water treated 6% gel

f. Wait on cement 8hrs.

- g. RIH w/ tubing and tag TOC at approximately 2.100' 2501 1000
- 16. Pump a 200' elevation balance plug from 1,250' to 4,050' using 87 ft3 of Class A cement + 2% CaCl2, zero excess, yield =1.15 ft<sup>3</sup>/sk, WR = 5.2 gal/sk).
  - Volume inside of 9-5/8", 36# casing = 0.4340 ft<sup>3</sup>/ft

b. 200' plug = 87 ft3 cement

- c. Displace to balance plug with fresh water treated with 6% gel
- d. Slowly pull out of cement plug and lay down 300' of 2-3/8" tubing
- e. Reverse circulate tubing clear of cement with fresh water treated 6% gel
- f. Wait on cement 8hrs.
- ADD CEMENT IF NEEDED, g. RIH w/ tubing and tag TOC at approximately 1.050 / 1000 /

330

- 17. Mix and pump the final cement plug to fill up 9-5/8" casing from 300' to surface.
- 13. 131 ft<sup>3</sup> Class A cement + 2% CaCl2, zero excess, yield =1.15 ft<sup>3</sup>/sk, WR = 5.2 gal/sk)

Volume inside of 9-5/8", 36# casing = 0.4340 ft<sup>3</sup>/ft

b. 306 plug = 131 2 cement

- c. Slowly pull out of cement plug while laying down 300' of 2-3/8" tubing
- d. Clean up tubing if possible
- e. Wait on cement 8hrs.
- f. Observe top of cement at surface.
- 19. Cut off casing at 3' below ground level.
- 20. Weld marker plate with API No.: 47-017-06457

WU STATE CODE. MONUMENT PER SET

Office of Oil and Gas

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WV Department of Environmental Protection

WR-35 Rev. 8/23/13

Page 1 of 5 03/18/2016

# State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API	47-017-06457H6A	County <u>Doddridge</u>		District	Southwest
Quad	New Milton 7.5'	Pad Name OXFD13H	S	Field/Pool Name	Oxford
Farm Nan	ne <u>I. L. MORRIS</u>			Well Number OX	FD13BHS
Operator	(as registered with the C	OG) CNX Gas Compan	y LLC		
Address	P.O. Box 1248	City <u>Jan</u>	e Lew	State WV Zi	p 2 <u>6378</u>
As Drilled	d location NAD 83/ Top Hol Landing Point of Curv Bottom Hol (ft) 1180' GL	Northing <u>4,335,</u> e Northing <u>4,335,</u> e Northing <u>4,339,</u>	692. m Eastin	g <u>521,793. m</u> g <u>521,579. m</u>	= -\p\
		••	•	•	[4
-	•	Horizontal Horizonta		Depth Type	•
Type of C	peration   Convert	□ Deepen ■ Drill	□ Plug Back □ R	Redrilling □ Rev	vork Stimulate
Well Type	e 🗆 Brine Disposal 🗆	CBM ■ Gas ■ Oil	☐ Secondary Recove	ry 🗆 Solution Mi	ning Storage Other
Type of C	Completion D Single	□ Multiple F	luids Produced 📮 B	rine Gas 🗆 No	GL Oil Other
Drilled wi	ith □ Cable ■ Rotar	ту			
Production Mud Type	n hole □ Air ■ Mu e(s) and Additive(s)	Air □ Mud ■ Fresh V nd □ Fresh Water □ E	Brine	mediate hole <b>B</b> Ai	r □ Mud ■ Fresh Water □ Brine
Mineral C	oil Based Mud, Bacteric	ide, Polymers and Weigh	ting Agents.		
Date comp Verbal plu	agging (Y/N) N	Date drilling con N/A (Completion has not beg Date permission to submit a plugging app	m.) Date comp	oletion activities cea	Granted by N/A
Freshwate	r depth(s) ft	290	Open mine(s) (Y/	N) depths	N
Salt water	depth(s) ft	2175, 2510	Void(s) encounte	red (Y/N) depths	N
Coal depti	n(s) ft	294, 1650	Cavern(s) encoun	tered (Y/N) depths	Na PECSIVED
Is coal bei	ng mined in area (Y/N)			· •	CHICO OF OII and Gas
					MAR 2 1 - 2016

`WR-35' Rev. 8/23/13

Page 2 of 5 03/18/2016

API <u>47-017-06457H6A</u> Farm name <u>I. L. MORRIS</u>

#### Well number OXFD13BHS

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement Circulate (Y/N) * Provide details to the right *
Conductor	26"	20"	88.5'	N	J-55 94# / 88.5'	N/A	N (grout)
Surface	17 1/2"	13 3/8"	1085.9	N	J-55 54.5# / 1085.9'	N/A	Y
Coal	•	•	•	•	•	•	•
Intermediate 1	12 1/4"	9 5/8"	2848.7'	N	J-55 36# / 2848.7°	N/A	Y
Intermediate 2	•	•	•	•	-	•	-
Intermediate 3	•	•		•	•	•	•
Production	8 3/4" & 8 1/2"	5 1/2"	12391'	N	P-110 20# / 12391"	N/A	Y
Tubing	N/A (Tubing	has not been	run.)	-	•	•	•
Packer Type ar	nd Depth Set	None				**************************************	

Comment Details CEMENT Class/Type WOC Number Slurry Yield Volume Cement **DATA** of Cement of Sacks (R3) wt (ppg) (ft 3/sks) Top (MD) (hrs) Conductor Class A 675 15.60 1.22 820 'n 24 Class A 820 15.66 1.20 984 o 8 Surface Coal Intermediate 1 Class A 980 15.60 1.18 1156.4 œ 8 Intermediate 2 Intermediate 3 • **Production** Class A (Lead) / Class A (Tail) 958 / 1242 14.20 / 14.80 1.24 / 1.23 1187.92 / 1527.66 8 N/A (Tubing has not **Tubing** been run.) Drillers TD (ft) 6175 Loggers TD (ft) 7047' Deepest formation penetrated: Marcellus Plug back to (ft) N/A Plug back procedure: N/A Kick Off Depth (ft) 6175' □ caliper □ density ■ deviated/directional □ induction Check all wireline logs run □ gamma ray □ temperature □ sonic neutron □ resistivity Were Cuttings Collected ☐ Yes ☐ No Well Cored ☐ Yes ☐ No □ Conventional □ Sidewall DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING Conductor - No centralizers used. Fresh Water - Bow spring centralizers on first joint then every fourth joint to 100 feet from surface. Coal -Bow spring centralizers on first joint then every fourth joint to 100 feet from surface. Intermediate - Bow spring centralizers one on the first two joints and every fourth joint until inside surface casing, Production - Rigid bow spring centralizer on first joint then every 2 casing joints (free floating) through the lateral and the curve. (Note: cementing the 5 1/2" casing completely in open hole lateral and curve.) WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ■ No DETAILS N/A (Well has not been completed.) DETAILS N/A (Well has not been completed.) WAS WELL COMPLETED OPEN HOLE □ Yes ■ No N/A (Well has not been completed.) 2(1)6 **WERE TRACERS USE** □ Yes ■ No TYPES OF TRACER(S) USED

Environmental Protection

`WR-35 Rev. 8/23/13

Page 3 of 5 03/18/2016

Farm name <u>I. L. MORRIS</u> API 47-017-06457H6A

Well number OXFD13BHS

#### **PERFORATION RECORD**

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number Of Perforations	Formation(s)
			Well		
			has not been		
			completed.		
			Formations		
			have not been		
			perforated.		
			No richards		

Please insert additional pages as applicable.

Please insert additional pages as applicable.

#### STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage. **Amount of** Stage **Stimulations** Avg Pump Avg Treatment Max Breakdown **Amount of Amount of** Nitrogen / **Date** Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs) Water (bbls) other (gals) No. Rate (BPM) Well has not been completed. No stimulation has occurred. Office of Oil and Gas WV Department of Environmental Protection

WR-35

Page 4 of 5

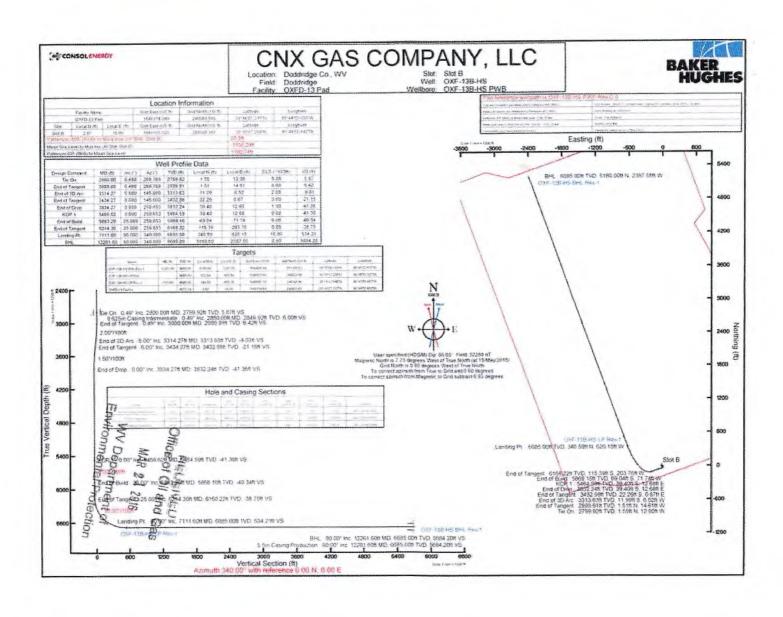
ev. 8/23/13						03/18/2016
PI <u>47-017-06457H</u>	<u>6A</u> Farm nan	e <u>I. L. MORRI</u>	ì	Well numl	ber <u>OXFD13BHS</u>	
RODUCING FORMA	TION(S)	DEPTHS				
'A (Well has not been			TVD		MD	
No producing form					<del></del>	
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AS TEST 🗆 Build 1	ıp 🗆 Drawdown	□ Open Flow	OIL TE	ST □ Flow	□ Pump	
UT-IN PRESSURE	•	•			JRATION OF TEST	N/A hrs
EN FLOW Gas	Oil mcfpd N/A	NGL	W	ater VA bpd	GAS MEASURED BY	
LITHOLOGY / FORMATION	TOP DEPTH IN FT TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	TYPE	AND RECORD QUANTITY OF FLUID RINE,GAS,H2S, ETC)
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ging Company						
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nenting Company <u>A</u>						
	logy Drive, Suite 29		• —	nsburg	State <u>PA</u>	Zip <u>15317</u>
nulating Company <u>N</u>	VA (Formations hav	e not been perforat			State N/A	Zin N/A
iress <u>N/A</u>	3* . 1.4		City N/A		State N/A	Zip <u>N/A</u>
ase insert additional p					Office of O	SIVED 984-90'
mpleted by <u>CNX/Ga</u>	4 4 4 11			npletions npletions Manage	Telephone 30	4-884-20400/8 han 3//8//C
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bmittal of Hydraulic I	Fracturing Chemical	Disclosure Informa	ation		Environmental	CFOCUS Registry  Ment of 30 <sup>th</sup> 40  Notection

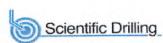
WR-35 Rev. 8/23/13 Page 5 of 5 03/18/2016

API 47-017-06457H6A Farm name I. L. MORRIS

Well number OXFD13BHS

LITHOLOGY / FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	DEPTH IN FT	DESCRIBE ROCK TYPE AND RECORD QUANT TYPE OF FLUID
	TVD	TVD	MD	MD	(FRESHWATER, BRINE, GAS, H2S, ETC)
FILL	0	50			
SAND/SHALE	50	100			
HALE	100	150			
AND/SHALE	150	250			
REDROCK/COAL	250	300			
HALE/REDROCK	300	350			
HALE	350	400		- market	
AND/SHALE	400	450			
HALE	450	500			
EDROCK/SHALE	500	600			
HALE/SAND	600	650			Name of the second seco
AND	650	750			
HALE	750	850			production of the contract of
AND	850	950		-	
HALE/REDROCK	950	1000			
EDROCK	1000	1050			
HALE	1050	1100			
AND	1100	1200			
HALE	1200	1300			
AND	1300	1500			
HALE	1500	1600			
AND/COAL	1600	2000			
ITTLE LIME	2000	2041			Light Gray
IG LIME	2050	2142			Light Gray/Brown
IG INJUN	2184	2250			Light Gray
VEIR SAND	2309	2510			Gray
ORDON SAND	2794	2802			Med Gray
ENSON SAND	5054	5097			Med/Dark Gray
LEXANDER SAND	5302	5405			Med/Dark Gray
HINESTREET SHALE	5576	6668			Dark Gray
MIDDLESEX SHALE	6669	6795			Dark Gray
URKET SHALE	6795	6841			Black
ULLY LIMESTONE	6841	6862			Ein
AMILTON SHALE	6862	6894			Light Gray Office of Oli and Gas
MARCELLUS SHALE	6894	6951			and Gan
NONDAGA LIMESTONE	6951	7000			
IUNTERSVILLE CHERT	7000	7047			Light Brown Light/Med 6/4/ Department of Environmental Protection
D PILOT	7047	, , , ,			Environment
	7047				illental Prote





#### Scientific Drilling

Northeast District

Company: Field: Well: County: State: Rig: MWD CNX Marcellus OXF-13B-HS Doddridge County WV Patterson-UT1 805 A Stone / N Bare

Date: North Ref: March 16, 2016 Grid

Declination: VS Azi: RKB-GL: -7.73 250 65 28.5

MD	fnel	Azim	TVD	VS	N/S EMV	DLS	Chit	CisA	Course
WARRENGERRAREN	deg	deg	A STATE OF THE PARTY OF THE PAR			deg/100H	A CANAL WATER	760	THE PARTY OF THE P

VES GYRO SURVEYS: 100 FT. - 2800 FT.

SDI SURVEYS: 2997 FT - 6138 FT

BHI SURVEYS: LAST SURVEY IS A PROJECTION TO BOTTOM HOLE LOCATION, 6214 FT

Measured Depth		ation		True Vertical Depth	Vertical Section	+N/-5	+E/-W	Dogleg Severity	Closure Distance	Clasure Direction	Course Lengt
t	deg		deg	ft	ft	ft	ft	*/100ft	ft	deg	1 Invalid
	0	a						Invalid			
	28.5	0	E-41-01-11-61				0				9 2
	100	0.95				-0.41	-0.43				
	200	0.64				-1.33					
	300	0.39				-1.86					
	400	0.44				-2.24					
	500	0.56									
	600	0.59				-2.72					
	790	0.64				-2.63					
	900	0.54				-2.25					
	900	0.41	319.14			-1.72	-7.22				
	1000	0.3	326.56	999.96		-1.23	-7.6				
	1100	0.21	335.11	1099.95	7.65	-0.84	-7.83				
	1200	0.27	337.85	1199.95	7.68	-0.46	-7.99	0.06			
	1300	0.68	348.75	1299.95	7.6	0.34	-8.19	0.42			
	1400	0.54	0.43	1399.94	7.36	1.39	-8.3	0.19			
_	1500	0.56	8.17	1499.94	6.97	2.35	-8.23	0.08	8.56	285.9	3
m	1600	0.31	32.65	1599.94	6.53	3.06	-8.01	0.31	8.58	290.5	9
7	1700	0.4	166.92	1699.94	6.35	2.95	-7.79	0.66	8.33	290.7	4
3.2	1800	0.15	165.54	1799.93	6.41	2.48	-7.68	0.25	8.07	287.9	1
5 5	1900	0.36	237.34	1899.93	6.72	2.19	.7.91	0.34	8.21	285.4	5
3 - 5	2000	0.14	262.4	1999.93	7.15	2	-8.3	G.24	8.53	283.5	5
30 8 6-	2100	0.26	271.25	2099.93	7.48	1.99	-8.64	0.12	8.87	282.96	5
Office of C  MAR 2  WV Departitionmental	2200	0.25	262.94	2199.93	7.9	1.97	9.09	0.04	9.3	282.2	1
Ta 20 00 00 00 00 00 00 00 00 00 00 00 00	2300	0.29				1.89	-9.55	0.04	9.74	281.23	2
2 2 2	2400	0.41				1.78	-10.19	0.12	10.31	279.9	3
# = SE	2500	0.31				1.67				278.B	3
7 6 7 a c	2600	0.38				1.63	-11.37	0.07	11.49	278.15	5
Office of Oil and  MAR 2 1 2016  WV Department of the original protection original p	2700	0.44									
Office of Oil and Gas  MAR 2 I 2016  WV Department of Environmental Protects	2800	0.49				1.55					
Gas	2907	1.16				1.66					

3000	1.29	207.04	2999.89	14.66	0.84	-15.85	1.51	15.87	273.02	93
3094	1.96	181.8	3093.65	16.02	-2.74	-16.38	1.05	16.48	263.95	94
3188	2.4	156.24	3187.79	16.47	-5.16	-15.64	1.12	16.47	251.73	94
3281	3.73	152.04	3280.65	15.88	-9.61	-13.44	1.45	16.53	234.42	93
3375	5.67	149.73	3374.33	14.57	-16.33	-9.66	2.08	18.97	210.62	94
3468	5.1	136.5	3466.92	12.04	-23.3	-4.5	1.47	23.73	190.93	93
3562	4.25	134.9	3560.61	8.84	-28.79	0.84	0.92	28.8	178.33	94
3656	3.52	151.59	3654.39	6.89	-33.78	4.68	1.42	34.11	172.11	94
3750	2.69	152.6	3748.26	6.15	-38.28	7.07	0.89	38.93	169.54	94
3844	2.08	151.26	3842.17	5.57	41.74	8.91	0.66	42.68	167.96	94
3937	1.49	141.42	3935.13	4.91	-44.15	10.47	0.71	45.38	166.66	93
4031	1.54	108.94	4029.1	3.53	-45.52	12.42	0.9	47.19	164.74	94
4124	2,42	82.57	4122.04	0.54	45.67	15.54	1.34	48.25	151.2	93
4218	3.4	73.09	4215.92	-4.08	-44.51	20.17	1.16	48.96	155.67	94
4311	3.33	63.51	4308.76	-9.52	-42.6	25.23	0.61	49.51	149.37	93
4405	3.79	64.2	4402.58	-15.31	-40.03	30.47	0.49	50.31	142.73	94
4499	2.83	74.73	4496.42	-20.72	-38.07	35.5	1.2	52.06	137	94
4592	2.9	74.36	4589.31	-25.36	-36.83	39.99	0.08	54.37	132.54	93
4685	2.32	66.1	4683.21	-29.64	-35.42	44.02	0.73	56.5	128.82	94
4779	1.88	43.86	4776.15	-32.88	-33.55	46.8	0.99	57.5 <del>9</del>	125.64	93
4873	1.27	227.23	4870.14	-33.3	-33.15	47.11	3.35	57.6	125.14	94
4967	5.73	239.67	4963.94	-27.73	-36.23	42.29	4.78	55. <del>69</del>	130.58	94
5061	9.59	255,44	5057.09	-15.32	-40.57	30.66	4.64	50.85	142.92	94
5154	8.92	251.56	5148.88	-0.39	-44.79	16.32	0.98	47.67	159.98	93
5248	8.85	250.23	5241.75	14.13	-49.55	2.6	0.23	49.61	177	94
5341	7.64	244.29	5333.79	27.44	-54.65	-9.71	1.6	95.5	190.07	93
5435	10.04	243.83	5426.67	41.78	-60.97	-22.69	2.55	65.06	200.41	94
5529	13.87	244.52	5518.61	61.14	-69.44	-40.22	4.08	80.24	210.08	94
5622	12.36	235.16	5609.19	81.83	-79.92	-58.46	2.8	99.02	216.18	93
5716	11.05	230.7	5701.24	100.03	-91.38	-73.7	1.69	117.39	218.89	94
5810	11.54	233.56	5793.41	117.51	-102.68	-88.24	0.78	135.38	220.67	94
5904	16.22	249.73	5884.68	139.65	-112.82	-108.13	6.42	156.27	223.78	94
5997	19.76	252.06	5973.12	168.35	-122.16	-135.27	3.68	182.27	227.92	93
6091	20.86	255.06	6061.28	200.92	-131.37	-166.56	1.62	212.14	231.74	94
6138	22.09	256.23	6105.01	218.05	-135.63	-183.23	2.76	227.97	233.49	47
6214	24.89	258.01	6174.71	248.13	-142.36	-212.76	3.81	255.99	236.21	76

WR-35 Rev. 8/23/13

• . •

### **FRAC FOCUS REGISTRY**

API 47-017-06457H6A

Farm Name LL. MORRIS

Well Number OXFD13BHS

Frac Focus Registry – Not Available – Formations have not been perforated or stimulated

FIEUEIVED
Office of Oil and Gas
MAR 2 1 2016
WV Department of
Environmental Protection

AC DOLLED Well i	s located on topo m	nap _14,440 fee	t south of Latitud	de: 39°12'30"	×
AS DRILLED (Well )		######################################	SUPPLACE ONNERS  L. DICE) MORROSS  GRIST L. & SCHOOLS  GRIST CHIN & BEST ELBART  L. DICE MORROSS  GRIST L. & TERESA A. M.  RESON L. & TERESA A. M.  RESON L. & TERESA A. M.  RESON L. & TERESA A. M.  ROSERT K. SWIGER  HORSET K. SWIGER  MORROSS L. SWIGER  MO	DIST-TM/PAR   7-10/2   SECT (SURV)   7-15/5.1   IDDOR RANTO   7-15/1.1   IDDOR RANTO   7-15/1.5   SOME (SURV)   7-15/1.5   ILLER (SURV)   7-15/1.5   ILLER (SURV)   7-15/1.5   ILLER (SURV)   7-15/1.4   ILLER (SURV)   7-15/1.4	is located on topo
8 00010 80700 HBE (00000 (981) LTM 17-0A/033 N-4337098 71 E-521031.40 MOZZ NY MORTH N-251176.380 E-1643780.740 LM/108.08004-4003 LAT-39.182872 LON:-80.756492	© ©	properties  Take any notions  Proposed will be governed any power and power	Total street of section 200 in properties in	PRISE LINES PORT LINES PORT LINES PORT LINES PORT LINES PORT LINES PORT LINES	map 11,218 feet west of Lon
LEGEND  + - 1070 MP PONT  - 10500PS  - 10500PS  - 30FARE ONNERS	AS DRALED OC	Precedency time applicat to recommend to recommend to the recommend	weer flags (VC from subscarge) and william	MADZ7, WY, MOREH N:246448.991 E:1645524.821 LAT:39.16961 LON:60.750106 SURFACE HOLE (OXAON (SR))	Longitude: 80' 42
- MACROL THACT COMMONT - LUDGE BOUNDARY - PROCE LINGS - WELL STEERING - PROCEDURE - PROCED	® C		©. ©.	UTM 17-NADB3 N:4335536.00 C:521793.00 NADZ7, W. MORTH N:246006.000 E:1546194.000 JAT.00 BURN-MOB3 JAT.39.108-72 LON:-80.747725	30"
GAS WELLS - PERME MUS - PRIME	DESCORE LESSOR	0.0		988X HOL IDORON (94) LTM 17-MADES N-4335536.00 E:521793.00 HADZ, W. NORTH N:246006.000 E:1546194.000 LAT-39,168-772	
FILE #: OXFD13BHS-AS DRILLED  DRAWING #: OXFD13BHS-AS DRILLED  SCALE: 1" = 2000'  MINIMUM DEGREE  OF ACCURACY: 1/2500	PLAT IS CORRECT TO BELIEF AND SHOWS A LAW AND THE REGUL- THE DEPARTMENT OF Signed:	LL THE INFORMATION ISSUED AND ENVIRONMENTAL	PRESCRIBED BY	SONAL SURIN	THUMAN THUMAN
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'	R.P.E.:	L.L.S.:	P.S. No. 2000	PLAGE SEAT HER	E
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25304	of what he	DATE OPERAT	one wer lan . ove	1/2025	FD.
Well Type: Oil Waste Disposal		Deep Shallow	STATE CO.	ost radoff	
WATERSHED: SOUTH FORK HUGHES RIV			EVATION:	1,180"	
COUNTY/DISTRICT: DODORIDGE	/ SOUTHWEST				
SURFACE OWNER: IL MORRIS			ACREAGE:_		-
Off. & GAS ROYALTY OWNER: SW. STOUT				1427±, 236±, 417±, &	
	ONVERT DRILL D				
· Control of the cont	D FORMATION D			LUG & ABANDON	
	& REPLUG   OTHER				_
TARGET FORMATION:					
WELL OPERATOR CNX GAS COMPA Address P.O. BOX 1248	NY, LLC.	DESIGNATED A Address P.O. B	GENT ANTHONY 0X 1248	KENDZIORA	
	Zip Code 26378	City JANE LI	W State WV	Zip Code _26378	

WW-4A Revised 6-07

1) Date:				
2) Operator's Well Number DXFD13 BHS	•			
3) API Well No.: 47 -	017	Jan 1	06457	

## STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

(a) Name	vner(s) to be served:	5) (a) Coal Operator
	I.L. Morris	
Address	PO Box 397	V · Address
0.00 A	Glennville, WV 26351	The state of the s
(b) Name		(b) Coal Owner(s) with Declaration
Address		Name
		Address
(c) Name		Name
Address		Address
6) Inspector	Daniel Flack	(c) Coal Lessee with Declaration
Address	601 57th Street SE	Name
	Charleston, WV 26149	Address
Telephone		
	lying documents for a permit to plug and at a, with respect to the well at the location de	iginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and bandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmenta escribed on the attached Application and depicted on the attached Form WW-6. Copies of this Notice
Protection the Appli	cation, and the plat have been mailed by cumstances) on or before the day of mailing	
Protection the Appli	Well Op By: Its:	perator Antero Resources Corporation  Diana Hoff Senior VP of Operations
Protection the Appli	Well Op By:	perator Antero Resources Corporation  Diana Hoff Senior VP of Operations
Protection the Appli	Well Op By: Its: Address	perator Antero Resources Corporation Diana Hoff Senior VP of Operations 1615 Wynkoop Street Denver, CO 80202
Protection the Appli	Well Op By: Its:	perator Antero Resources Corporation Diana Hoff Senior VP of Operations 1615 Wynkoop Street Denver, CO 80202
Protection the Appli certain cir	Well Op By: Its: Address	Antero Resources Corporation  Diana Hoff Senior VP of Operations  1615 Wynkoop Street Denver, CO 80202  303-357-7310  May of May 2020  Megan Griffith
Protection the Appli	Well Op By: Its: Address Telepho	Antero Resources Corporation  Diana Hoff Senior VP of Operations  1615 Wynkoop Street  Denver, CO 80202  303-357-7310

Oil and Gas Privacy Notice

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 FECEIVED information, please contact DEP's Chief Privacy Officer at <a href="mailto:depprivacyoffier@wv.gov">depprivacyoffier@wv.gov</a>.

MY COMMISSION EXPIRES MARCH 13, 2022

MY COMMISSION EXPIRES MARC

WW-9 (4/16)

API Number 47 - 017 - 06457 Operator's Well No. OXFD13 BHS

## 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) South Fork Hughes River	Quadrangle Oxford 7.5'	
Do you anticipate using more than 5,000 bbls of water to comp Will a pit be used? Yes No	plete the proposed well work? Yes No	
If so, please describe anticipated pit waste: No pit will be	a used at this site (Drilling and Flowback Fluids will be stored in tanks, Cuttings will be tanked and houled off alls.)	
Will a synthetic liner be used in the pit? Yes	No If so, what ml.? N/A	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
	nit Number "UIC Permit # will be provided on Form WR-34	
	ted well locations when applicable. AP# will be provided on Form WR-34  W-9 for disposal location) (Meadowfill Landfill Permit #SWF-1032-98)  Northwestern Landfill Permit #SWF-1025/  WV0109410	
Will closed loop system be used? If so, describe: Yes, fluids s	stored in tanks, cuttings removed offsite and taken to landfill.	
Drilling medium anticipated for this well (vertical and horizon	ntal)? Air, freshwater, oil based, etc.	
-If oil based, what type? Synthetic, petroleum, etc.	Office of Oil and	o d Gas
Additives to be used in drilling medium?	MAR 2 4 20	non
Drill cuttings disposal method? Leave in pit, landfill, removed	d Offsite, etc.	
-If left in pit and plan to solidify what medium will be	e used? (cement, lime, sawdust)  WW Department Environmental Pro	nt of otection
-Landfill or offsite name/permit number?		
	Gas of any load of drill cuttings or associated waste rejected at any of within 24 hours of rejection and the permittee shall also disclose	
on August 1, 2005, by the Office of Oil and Gas of the West V provisions of the permit are enforceable by law. Violations of law or regulation can lead to enforcement action.  I certify under penalty of law that I have personally application form and all attachments thereto and that, base	conditions of the GENERAL WATER POLLUTION PERMIT issued Virginia Department of Environmental Protection. I understand that the of any term or condition of the general permit and/or other applicable by examined and am familiar with the information submitted on this ed on my inquiry of those individuals immediately responsible for true, accurate, and complete. I am aware that there are significant bility of fine or imprisonment.	
Company Official Title Sr. Environmental & Regulatory Manage	19	
Sompany official time		
Subscribed and sworp before me this day of  My mmission expires 3.13.2022	Notary Public  MEGAN GRIFFITH NOTARY PUBLIC	
No. Assembly property of the second s	STATE OF COLORADO NOTARY ID 20184011666	

Field Reviewed?

Operator's Well No. OXFD13 BHS

Antero Resources Co	rporation				
Proposed Revegetation Treatme	nt: Acres Disturbed	16.34 acres	Prevegetation pH	I	
Lime 2-4	Tons/acre or to con	rrect to pH 6.5	)		
Fertilizer type					
Fertilizer amount 500		lbs/acre			
Mulch 2-3		Tons/acre			
		Seed Mix	tures		
Тетр	oorary		Perma	nent	
Seed Type	lbs/acre		Seed Type	lbs/acre	
Annual Ryegrass	40		Crownvetch	10-15	
Field Bromegrass	40		Tall Fescue	30	
Please reference Table IV-3 on page 7 of	the OXFD13 BHS Plugging	Plan F	Please reference Table IV-4A on page 7 o	f the OXFD13 BHS Plugging Plan	
*or type of grass seed requ	ested by surface o	wner *	*or type of grass seed requested by surface owner		
Photocopied section of involved	area.		ons (L x W x D) of the pit, and	Office MAR	RECEIVED of Oil and
Plan Approved by:	/			WV De Environme	partment c ental Protec
Zimiiens.					
ritle: Dil FGcs In	spector	I	Date: 3-17-2020		

) No

) Yes



### West Virginia Department of Environmental Protection Office of Oil and Gas

### **WELL LOCATION FORM: GPS**

\\ \			
<sub>API:</sub> 47-017-06457	<u>well no.</u> : O	XFD13BHS	
FARM NAME: Morris, I L			
RESPONSIBLE PARTY NAME: Anter	o Resources C	Corporation	
COUNTY: Doddridge	district: Sou	ıthwest	
QUADRANGLE: New Milton			
SURFACE OWNER: I L MORRIS			
ROYALTY OWNER: N/A			
UTM GPS NORTHING: 4335536.15	5 m	(1152,45)	
UTM GPS EASTING: 521793.06 m	GPS ELEVATI	<sub>ON:</sub> 351.3 m	
preparing a new well location plat for a pluggi above well. The Office of Oil and Gas will not the following requirements:  1. Datum: NAD 1983, Zone: 17 North	accept GPS coordinate  1, Coordinate Units: me	s that do not meet	
height above mean sea level (MSL)  2. Accuracy to Datum – 3.05 meters	) — meters.	D.F.	oen <i>t</i> ed
3. Data Collection Method:		Office of	CEIVED f Oil and Gas
Survey grade GPS × : Post Processed D	ifferential	MAD	<b>2 4</b> 2020
Real-Time Differ	<u> </u>		
Mapping Grade GPS X : Post Processed	d Differential	WV De Environm	epartment of ental Protection
Real-Time Di	fferential X		
4. Letter size copy of the topograph. I the undersigned, hereby certify this data is cobelief and shows all the information required by prescribed by the Office of Oil and Gas.	errect to the best of my k	mowledge and	
	litting agent	3.9.20	
Signature	Title	Date	

PERMITTED BOTTOM HOLE LOCATION (BHL) There are no water wells or developed springs within 250 of proposed well.

Proposed well is greater than 100' from perennial stream, we -AZ:340'00'14" UTM 17-NAD83 N:4339040.88 1702271 E:520296.73 pond, reservoir or lake. NAD27, W NORTH N:257590.000 There are no native trout streams within 300' of proposed well. Proposed well is greater than 1000' from surface/groundwater E:1641476.000 intake or public water supply.

It is not the purpose or intention of this plat to represent surveye locations of the surface or mineral parcets depicted hereon. The 1701847 LON:-80.765114 location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless BEARING S 57'18'59" W N 37'50'08" W WELL OXFD13BHS The center of pad is less than 625' from a dwelling.
Coordinates of As-Drilled locations are based on survey by Kelly
Surveying, and drill logs provided by Anlero Resources, BMI take N 47'48'36" E 1702563 \* 1704352 702259 99 1701767 1704664 N 48'06'19" W 1704287 topo PERMITED AS DRUTED 1706125 1706122 1700733 1706040 BOTTOM HOLE LOCATION (BHL) UTM 17-NAD83 N:4337098.71 E:521031.46 map AS DRILLED APPROX. POINT OF ENTRY (POE) 170435 1704320 APPROX. POINT OF ENTRY (POE) 1706124 NAD27, WV NORTH N:251176,360 UTM 17-NAD83 N:4335691.67 1,840 E:1643780.740 E:521579.16 NAD27, W NORTH N:246529.000 E:1645501.000 E:521586.82 LAT/LON DATUM-NAD27 LAT:39.182786 LON:-80.756667 NAD27, WV NORTH N:246448.991 E:1645524.821 1704354 1706242 1704319 1704357 <u>LAT/LON\_DATUM-NAD27</u> LAT:39.169875 LAT/LON DATUM-NAD27 LAT:39.170094 702262 LON:-80.750369 LEGEND west  $\mathbf{H}$ - TOPO MAP POINT 1702261 1705741 1704356 1705730 - WELL 9 9 ALL ARE POINTS UNLESS OTHERWISE NOTED: 0 Longit 1704730 1705732 PERMITIED 1705072 - LESSORS - SURFACE OWNERS tude: WATER SOURCE PERMITTED MINERAL TRACT 1705740 1702267 SURFACE HOLE LOCATION (SHL) BOUNDARY UTM 17-NAD83 N:4335536.00 E:521793.00 - LEASE BOUNDARY 80 - PARCEL LINES 1702266 (G) 1705073 (A) AS DRILLED 1705077 NAD27, W NORTH N:246006.438 WELL REFERENCE 42 45 1705735 --PROPOSED HORIZONTAL WELL (D)= 1705729 E:1646194.212 LAT/LON DATUM-NAD27 LAT:39.168686 1702264 30 - AS DRILLED APPROXIMATE POINT OF ENTRY LON:-80.747899 - ROAD 1705709 AS DRILLED STREAM CENTER LINE 1700761 SURFACE HOLE LOCATION (SHL) GAS WELLS 705735WELL 1705158 UTM 17-NAD83 N:4335536.15 E:521793.06 - EXISTING WELLS OXFD13BHS PLUGGED WELLS EXISTING 1702265 DWELLINGS N:246006.906 E:1646194.409 1705159 A Blue Mountain Inc. 1705160 LON:-80.74.

LON:-1703625 10125 MASON DIXON HIGHWAY BURTON, WV 26562 PHONE: (304) 662-6486 1702198 I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS FILE #: OXFD13BHS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY DRAWING #: OXFD13BHS LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY 1" = 2000' THE DEPARTMENT OF ENVIRONMENTAL PROTECTION. STATE OF PLACE SEAL HERE MINIMUM DEGREE Signed: OF ACCURACY: 1/2500 PROVEN SOURCE U.S.G.S. MONUMENT THOMAS 1498.81' L.L.S.: P.S. No. 2000 R.P.E.: (+) DENOTES LOCATION OF WELL ON FEBRUARY 05, 2018 DATE: UNITED STATES TOPOGRAPHIC MAPS WVDEP OXFD13BHS OPERATOR'S WELL#: OFFICE OF OIL & GAS 601 57TH STREET 47 17 06457 CHARLESTON, WV 25304 STATE COUNTY PERMIT Well Type: Oil Waste Disposal X Production Deep X Shallow Storage X Gas Liquid Injection 1,152.4 SOUTH FORK HUGHES RIVER ELEVATION: WATERSHED: QUADRANGLE: NEW MILTON, WV 7.5' (SHL) & OXFORD, WV 7.5' (BHL) DODDRIDGE / SOUTHWEST COUNTY/DISTRICT: I. L. (IKE) MORRIS 6603.75± SURFACE OWNER: ACREAGE: ACREAGE: 1427±, 236±, 417±, & 340± OIL & GAS ROYALTY OWNER: S. W. STOUT ET AL & SUSAN V. DRENNAN, ET VIR, ET AL DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): ESTIMATED DEPTH: TVD: 6,764'± TMD: 12,414'± TARGET FORMATION: MARCELLUS DESIGNATED AGENT DIANNA STAMPER-CT CORPORATION SYSTEM WELL OPERATOR ANTERO RESOURCES CORPORATION 1615 WYNKOOP STREET 5400 D BIG TYLER ROAD CHARLESTON DENVER Zip Code 80202 City State Zip Code 25313 State

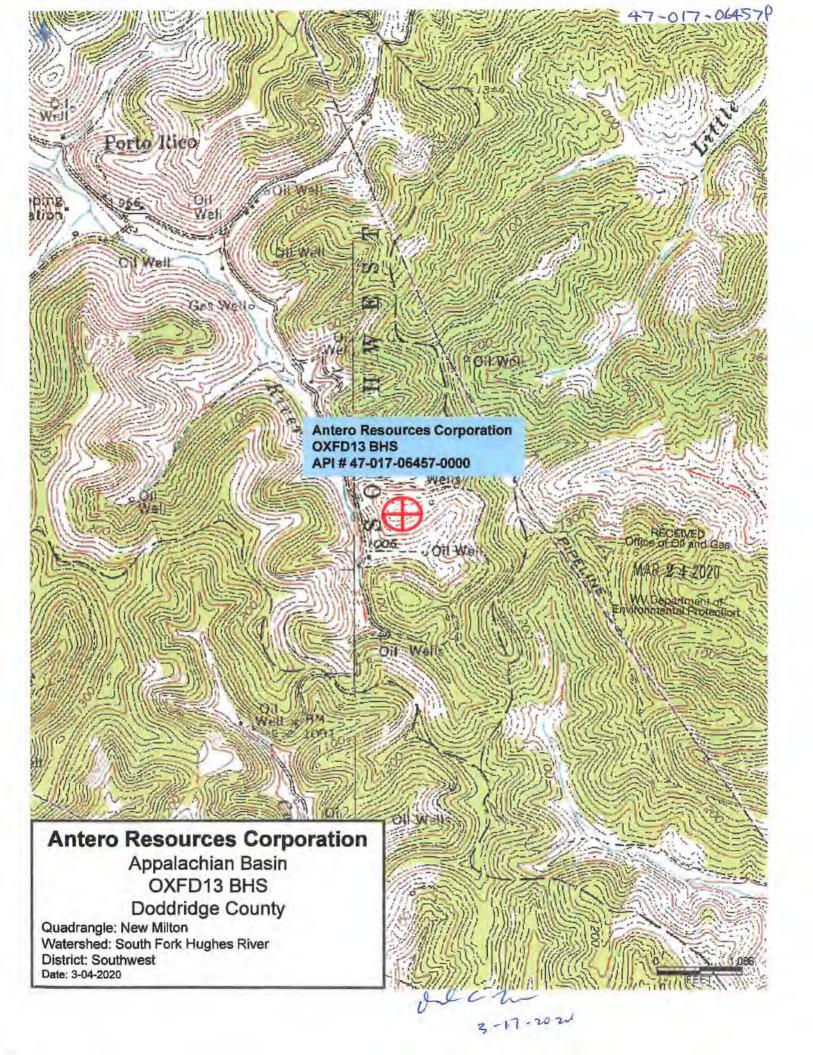
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located

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## OXFD13BHS PAGE 2 OF 2

	SURFACE OWNER	DIST-TM/PAR
Α	I. L. (IKE) MORRIS	7-10/2
В	JERRY L. & SHARON LEGGETT (SURV)	7-15/3.1
С	TYLER GARRETT BUNTING C/O LENORA BUNTING	7-15/1
D	JEFFREY LYNN & LINEY ELAINE MCKINNEY (SURV)	7-15/1.1
E	LINEY MCKINNEY	7-15/1.6
F	MARIE E. HYDE & RICHARD A. BAKER (SURV)	7-15/1.5
G	KEVIN L. & TERESA A. MULLEN (SURV)	7-15/1.3
Н	KEVIN L. & TERESA A. MULLEN (SURV)	
J	ROBERT K. SWIGER	7-15/1.4
K	WILLIAM L. JONES TRUST C/O ROBERT K. SWIGER (TRUSTEE)	7-11/8
L	ROBERT K. SWIGER	7-11/7
М	MAY REVOCABLE TRUST-EXEMPTION TRUST 1/2 INT. SUSAN V. DRENNAN 1/2 INT.	7-11/5

PARCEL	LESSOR
1,3,4, 5,7&8	S.W. STOUT ET AL
9	SUSAN V. DRENNAN, ET AL

PERMITTED
SURFACE HOLE LOCATION (SHL)
UTM 17-NADB3
N:4335536.00
E:521793.00
NAD27, WV NORTH
N:246006.438
E:1646194.212
LAT/LON DATUM-NAD27
LAT:39.168686
LON:-80.747899

APPROX. POINT OF ENTRY (POE)

UTM 17—NAD83
N:4335691.67
E:521579.16
NAD27, WV NORTH
N:246529.000
E:1645501.000
LAT/LON DATUM-NAD27
LAT:39.170094
LON:—80.750369

PERMITTED

PERMITTED
BOTTOM HOLE LOCATION (BHL)
UTM. 17—NAD8.3
N:43.390.40.88
E:520296.73
NAD27, WV NORTH
N:257590.000
E:1641476.000
LAT/LON DATUM-NAD27
LAT:39.2003.06
LON:-80.765114

AS DRILED
SURFACE HOLE LOCATION (SHL)

UTM 17—NAD83
N:4335536.15
E:521793.06
NAD27. WY NORTH
N:246006.906
E:1646194.409
LAT/LON DATUM—NAD27
LAT:39.168687
LON:—80.747899

AS DRILED
APPROX. POINT OF BITITY (POE)

UTM 17—NAD83
N:4335667.42
E:521586.82
NAD27. WY NORTH
N:246448.991
E:1645524.821
LAT/ION DATUM—NAD27
LAT;39.169875
LON:-80.750281

AS DRILLED
BOTTOM HOLE LOCATION (BH.)

UTM 17-NAD83
N:4337098.71
E:521031.46
NAD27. WY NORTH
N:251176.360
E:1643780.740
LAT/LON DATUM-NAD27
LAT:39.182786
LON:-80.756667

FEBRUARY 05, 2018

