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

API 47 - 017 - 06497 County Doddrid	lge District G	rant
Quad West Union 7.5' & Smithburgh 7.5' Pad Name Melod	dy Pad Field/Pool	Name
Farm name Brown, Melody et al		ber Deano Unit 1H
Operator (as registered with the OOG) Antero Resources	Corporation	
	nver State	CO Zip 80202
	ed plat, profile view, and deviation	
Top hole Northing 4.356,592m	Easting 520,753	
Landing Point of Curve Northing 4,356,536.46m		
Bottom Hole Northing 4,354,289m	Easting 521,876	111
Elevation (ft) 1,135' GL Type of Well	■New □ Existing Type	of Report Alnterim Final
Permit Type 🛘 Deviated 🖶 Horizontal 🗂 Horizon	ntal 6A Deption Depti	n Type 🛘 🗈 Deep 🖪 Shallow
Type of Operation Convert Deepen Drill	Plug Back	Rework Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil □ Sec	condary Recovery	ing 🗆 Storage 🗆 Other
Type of Completion	ced Drine Gas DNGL	o Oil o Other
Diffice with a capit a roung		
Drilling Media Surface hole BAir DMud DFresh Wa	iter Intermediate hole 🛢 Air	r 🗆 Mud 🗆 Fresh Water 🗅 Brine
Production hole DAir BMud DFresh Water DBring	e	
Mud Type(s) and Additive(s) Air- Foam & 4% KCL		
Mud- Polymer		
Date permit issued06/25/2014 Date drilling com		11/00
Date completion activities began WOC	Date completion activities cease	· ·
Verbal plugging (Y/N)N/A Date permission grante	d N/A Granted	l by N/A
Please note: Operator is required to submit a plugging applic	ation within 5 days of verbal perm	ission to plug
Freshwater depth(s) ft46'	Open mine(s) (Y/N) depths	No
Salt water depth(s) ft 865'; 1,509'	Void(s) encountered (Y/N) depti	ns None
Coal depth(s) ft1,821	Cavern(s) encountered (Y/N) dep	oths None
Is coal being mined in area (Y/N) No		Davisuad bu

Surface- 1 above guide shoe, 1 above insert float, 1 every 4th joint to surface Intermediate- 1 above float joint, 1 above float collar, 1 every 4th joint to surface Production- 1 above float joint, 1 below float collar, 1 every 3rd joint to top of cement

WAS WELL COMPLETED AS SHOT HOLE

WAS WELL COMPLETED OPEN HOLE?

WERE TRACERS USED □ Yes ■ No

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API 47- 017	_ 06497	Farm name	Brown, Meloc	dy et al	Well r	number_Deano	Unit 1H
CASING STRINGS	Hole Size	Casing Size		w or Grade sed wt/ft			d cement circulate (Y/N) Provide details below*
Conductor	24"	20"	40' N	New 94#	; H-40	N/A	Yes
Surface	17 1/2"	13 3/8"	550' 1	Vew 48#	t; H-40	N/A	Yes
Coal	:						
Intermediate 1	12 1/4"	9 5/8"	2,522'	Vew 36#	t; J-55	N/A	Yes
Intermediate 2	:						
Intermediate 3	i						
Production	8 3/4" & 8 1/2"	5 1/2*	15,398'	New 23#	; P-110	N/A	Yes
Tubing							
Packer type and d	epth set	N/A					
Comment Details 300, 300, 100, 150,		nent surface casing (655 sacks) per stage, respectively).	жы чиооосозын иг ро	woong reterito to surisc	o. Coment was 500	meesiui siisi serri ellei	uho in Rioni in seliere (200,
CEMENT	Class/Type		Slurry	Yield	Volume	Cement	WOC
DATA Conductor	of Cement	of Sacks	wt (ppg)	(fl³/sks)	<u>(U, 1)</u>	Top (MD)	(hrs)
	Class A	200 sx	15.6	1.18	38	0'	8 Hrs.
Surface Coal	Class A	2,005 sx*	15.6	1.18	382	0,	8 Hrs.
Intermediate 1	Class A	921 sx	15.6	1.18	790	0'	8 Hrs.
Intermediate 2	Oldoo, A	02100	10.0	0		+	01113.
Intermediate 3	:						j
Production	Class H	1,010 ax (Lead); 1,348 sx (1	(ail) 14.5 (Lead); 15.2 (Tail)	1.58 (Lead); 1.66 (Tail)	3,064	-500' into Intermediate Ca	esing 8 Hrs.
Tubing							
•	tion penetrated	TVD (BHL); 6,968' TVD (Deepe		ggers TD (ft) 15. g back to (ft) N/			
Kick off depth	(ft) 6,236°						
Check all wire	line logs run **	•		deviated/directi gamma ray		luction FINAL	s will be submitted with . Completion Report sonic
Well cored	Yes A No	Conventional	Sidewall	w	ere cuttings o	collected 🗆 Yes	s n No
DESCRIBE T	HE CENTRAL	IZER PLACEMENT	USED FOR EA	CH CASING S	TRING		

DETAILS N/A-WOC

DETAILS NA-WOC

TYPE OF TRACER(S) USED N/A-WOC

□ Yes ■ No

🗆 Yes 📱 No

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API 4	47- 017 - 06497	Farm na	_{me} Brown, Melo	dy et al	Well number_Deano Unit 1H
			PERFORATI	ION RECORD	
Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					MPLETION* WR-35 once completed
				-	
		404-4-4-1			
		A-0.0-1			

Please insert additional pages as applicable.

Complete a separate record for each stimulation stage.

STIMULATION INFORMATION PER STAGE

Stage Stimulations Ave Pump Ave Treatment Max Breakdown Amount of Amount of Amount of No. Date Rate (BPM) Pressure (PSI) Pressure (PSI) ISIP (PSI) Proppant (lbs) Water (bbls) Nitrogen/other (units)

WELL IS WAITING ON COMPLETION Information will be updated on FINAL WR-35 once completed Office of Oil and Gas WV Department of Environmental Protection

Please insert additional pages as applicable.

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API 47- 017	06497		² arm name	Brown, I	Melody et	al	Well nu	ımber_[Deano Unit 1H
PRODUCING F	ORMATIC	N(S)	DEP	THS					
Marcellus			6,818	3' (top)	TVD	7,257' (top)	MD		
	1								
			_		_		_		
Please insert add	litional page	es as applica	ble.		-		-		
GAS TEST		Y TO THE		nen Flow		OIL TEST =	Flow = 1	Dumn	
									Man
SHUT-IN PRES	SSURE S	Surface	psi				DURATI	ON OF	TESThrs
OPEN FLOW		nefpd		NGL	bpd _	Water bpd	GAS MI	EASUF ated	RED BY Orifice Pilot
LITHOLOGY/	TOP	вотт	OM	TOP	воттом				
FORMATION	DEPTH IN I	T DEPTH	N FT DE	PTH IN FT	DEPTH IN				ECORD QUANTITYAND
	NAME TVI	D TVI		MD	MD	TYPE OF FI	LUID (FRESI	HWATE	R, BRINE, OIL, GAS, H ₂ S, ETC)
	0		*DI I	TACIE	CEE	EXHIB	T 2		
1		ī		LASIL	SEE.	LAILID	113		
						11/15			
0									
Please insert add	itional page	es as applica	ble.						
Drilling Contrac	tor Precisio	n Drilling Cor	mpany, LP						
Address 2640 Re	each Road			City	Williamspo	rt	State	PA	Zip 17701
Logging Compa				<u> </u>			Ct		7:
Address				City	-		_ State _		
Cementing Com	pany Nabo	rs Completion	& Produc	tion Service	es, Co.				WED.
Address 1650 Ha					Jane Lew		State	WV	Zin 253 18 V Cod Gas
									was of Oll and
Stimulating Con							200	0	ZIMESTRIVED Gas filce of Oil and Gas Zip OCT 19 2015
Address				City			_ State		- Zip nCT 19 Love
Please insert add	litional page	es as applica	ble.						ment C
Completed by	Megan Darli	ing				Telephone	303-357-7	7230	WV Department C WV Department C Professor Department Department C Professor Department De
completed by						rerephone	Are explication of	44.6	WY - state
Signature	10-	1.1)	1.	Title P	ermitting Age	nt	Т	Date 10	16/2015 nmelila

API -	47-017-06497 Farm Nam	e <u>Brown, Melody et al</u> Well N	lumber Deano Unit 1H		
		EXHIBIT 3			
	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)	
LITHOLOGY/ FORMATION	From Surface	From Surface	From Surface	From Surface	
resh Water	46'	N/A	46'	N/A	
silt	0	81	0	81	
Sandstone	est. 81	281	est. 81	281	
siltstone (trace coal)	est. 281	401	est. 281	401	
Silty Sandstone	est. 401	581	est. 401	581	
Sandy siltstone	est. 581	761	est. 581	761	
-imestone	est. 761	781	est. 761	781	
Sandy siltstone	est. 781	861	est. 781	861	
imey Siltstone	est. 861	961	est. 861	961	
Sandy shale	est. 961	1,281	est. 961	1,281	
Sandstone	est. 1281	1,401	est. 1281	1,401	
Sandy shale	est. 1401	1,561	est. 1401	1,561	
Silty Sandstone (trace coal)	est. 1561	1,761	est. 1561	1,761	
Sandstone	est. 1761	1,821	est. 1761	1,821	
Coal	est. 1821	2,001	est. 1821	2,001	
imey Siltstone	est. 2001	2,069	est. 2001	2,069	
Big Lime	2,069	NA	2,069	NA	
Big Injun**	NA	NA	NA	NA	
Santz Sand**	NA	NA	NA	NA	
ifty Foot Sandstone**	NA	NA NA	NA	NA	
Gordon**	NA	NA	NA	NAED	
ifth Sandstone**	NA	NA	NA	SECENY and GO	,
Bayard**	NA	NA	NA	HICE OF NA 9-2015	
Warren**	NA	NA	NA NA	FICE O' NA JOIS	
Speechley**	NA	NA NA	NA O	CTNA 9 CO	£
Baltown**	NA	NA NA	NA	FUNDONA EUNIONA NA NA NA NA NA NA NA NA NA	OI
Bradford**	NA	NA	NA	NAartimo	100h
Benson**	NA	NA	NA	IN DIRPORTED VIA	,
Alexander**	NA	NA	NA	AA COUNTRY OF THE PERSON OF TH	
Elk**	NA	NA	NA	EUNILO. NA	
Rhinestreet**	NA	NA	NA	NA	
Sycamore	6,438	6,616	6,449	6,762	
Middlesex	6,616	6,754	6,762	7,025	
Burkett	6,754	6,782	7,025	7,085	
Tully	6,782	6,836	7,085	7,222	
Marcellus	6,836	NA NA	7,222	NA	

^{*}Please note Antero determines shallow formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

^{**}Depths for these formations are recorded with the cement bond log for each individual well. This information will be provided, along with the cement bond log, in the final report for this well.

