WR-35 Rev. 8/23/13

State of West Virginia

Department of Environmental Protection - Office of Oil and Gas

Well Operator's Report of Well Work

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(3)

API 47 - 043 _ 03	County LIN	NCOLN	District DUVAL		
Quad GRIFFITHSVILLE			Field/Pool Name GRIF	FITHSVILLE	
Farm name MCCLURE, A	NDY J. & REBECCA		Well Number 110		
Operator (as registered with	the OOG) H.G. ENERG	SY LLC			
Address 5260 DuPONT F	ROAD City	PARKERSBURG	State WV	_Zip 26101	_
As Drilled location NAD Top h Landing Point of Co	ole Northing 4,231,36		and deviation survey Easting 416,422 M Easting		= 1
Bottom F		13 M	Easting 416,409 M		3
Elevation (ft) 1013' Permit Type Deviated		Well ■New □ Existing orizontal 6A ■ Vertica			allow
Type of Operation □ Conve	ert 🗆 Deepen 🗂 Drill	□ Plug Back □ Re	edrilling Rework S	Stimulate	
Well Type □ Brine Disposa	d □ CBM □ Gas □ Oil	■ Secondary Recovery	□ Solution Mining □ Storage	e 🗆 Other	
Type of Completion ■ Sing Drilled with □ Cable ■	Rotary	Produced Brine DG	Injection well		,
Drilling Media Surface hole Production hole ■ Air □ Mud Type(s) and Additive(s) N/A	Mud □ Fresh Water	Brine	Office of Oil 8	& Gas	Brine
6/17	7/2013	. 10/21/	14 Date drilling cease	ed 10/24/1	1
Date permit issued 6/17			Date drilling cease activities ceased 11		4
Date completion activities be Verbal plugging (Y/N)		granted	The second secon	7814	_
Please note: Operator is requ	uired to submit a plugging	application within 5 days of	of verbal permission to plug		
Freshwater depth(s) ft	430'	Open mine(s) (Y/N	N) depths	N	
Salt water depth(s) ft	1100		ed (Y/N) depths	N	
Coal depth(s) ft	F001 F001		ered (Y/N) depths	N	
Is coal being mined in area (Y/N)N			TILLE	
				Reviewed by:	

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API 47- 043	_ 03458	Farm n	ame_M	CCLURE, A	ANDY J.	& REBE	ECCA We	II number_1	10	
CASING STRINGS	Hole Size	Casing Size	De		lew or Used	Grade wt/ft		Basket Depth(s)		nent circulate (Y/ N) ide details below*
Conductor	12 1/4"	11 5/8"		1	Used	1	LS			Sand In
Surface	8 3/4"	7"	6	75'	New		LS	84'		Y
Coal	1							_		!
Intermediate 1										
Intermediate 2										
Intermediate 3										
Production	6 1/4"	4 1/2"	27	'50'	New		J-55			Y
Tubing										
Packer type and de	pth set									
Cement Details CEMENT	Class/Type	Numbo		Slurry		'ield	Volume		ement	woc
DATA Conductor	of Cement	of Sacl	rs T	wt (ppg)	<u>(ft</u>	³ /sks)	(ft. ³ .)	Top	(MD)	(hrs)
Surface	Dec Neet	470		45.0				ufoco		
Coal	Reg Neat	170		15.6		.18	200	30	ırface	8
Intermediate 1										-
Intermediate 2										<u> </u>
Intermediate 3										
Production	50:50 Pozmix	135/12) <u>-</u>	13.2/14.2	16	4/4 07	221/15	_	76'	8
Tubing	50.50 P02IIIX	135/12	25	13.2/14.2	1.0	1.64/1.27 221/1		159 76		
Drillers TD (ft) Deepest format Plug back prod	tion penetrated _	Berea				D (ft) 278 to (ft) N/				
Kick off depth	(ft) <u>650'</u>				_					i
Check all wirel	ine logs run	■ caliper ■ neutron		•	≜ deviate ≜ gamma	ed/directi a ray		induction temperature	e □soni	ic
Well cored □	Yes 🖪 No	Conventi	onal	Sidewall		w	ere cutting	s collected	■ Yes	□ No
	TE CENTRALIZ m bottom on 4 1/2°, Centraliz		ENT U	SED FOR E	ACH CA	ASING S	TRING _			
				7814					Receiv	red
WAS WELL C	COMPLETED A	S SHOT HOLI	E`	Yes ∄ No	DE	ETAILS				il & Gas
									EC 08	
WAS WELL C	COMPLETED O	PEN HOLE?	□ Ye	s 🖪 No	DETA	AILS _				
WERE TRACE	ERS USED III	Yes ■ No	TVI	PF OF TRAC	TER(S) I	ISED				

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API 47- 043 - 03458	Farm name MCCLURE, ANDY J. & REBECCA Well number 110	

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	11/7/14	2585'	2598'	78	Berea
					
					-
	<u></u>				
			<u> </u>		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
1	11/7/14	5.1	1673	1845	891		40	12 bbls HCL
<u></u>								
				Be	ccived			

Please insert additional pages as applicable.

Office of Oil & Gas

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Rev. 8/23/13	00.450		MCCLUB	E ANDV	/ 1 2 5		٠		110		
API 47- 043	_ 03458	Farm i	name_MCCLUR	E, AND I	J. Q. I	LBLO	<u>∽^</u> Well n	um ber_			
PRODUCING F	ORMATION	S) _	<u>DEPTHS</u>								:
			2486'- 2503'	TVD	2582'-	2600'	MD				
Berea			2400-2505	_ 1 V D			NID				
·				_							İ
				_							
				_							
Please insert ad	ditional pages a	s applicable.									1
GAS TEST	□ Build up □	Drawdown	□ Open Flow		OIL T	EST 🗆	Flow C	Pump			
SHUT-IN PRES	SSURE Surf	ace	_psi Botto	m Hole		psi	DURAT	ION OI	F TES	т	hrs
OPEN FLOW		Oil	NGL		Wate	г	GAS M	1EASUI	RED B	Y	:
	mcf	pd	bpd	bpd		bpd	Estin	nated	□ Orif	fice c	Pilot
LITHOLOGY/	TOP	BOTTOM		BOTTO						~ ~~~	
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT				ROCK TY				
0 - 4/05 -1-	NAME TVD	TVD 588	MD_	MD 588		YPE OF F	LUID (FRE	SHWAIE	K, DKII	NE, UIL,	GAS, H₂S, ETC)
Sand/Shale	588	593	588	593						-	
Pittsburgh Coal	593	1770	593	1820							:
Sand/Shale Big Lime	1770	1976	1820	2044							
Big Injun	1976	2074	2044	2148							i !
Shale	2074	2466	2148	2562							
Coffee Shale	2466	2486	2562	2582				_			1
Berea	2486	2503	2582	2600							
Shale	2503	2680	2600	2781							
TD	2680		2781				Drilled dire	ectional N	4°Eac	distance o	of 546'
									Fieo	eivec	
											Gas
		<u> </u>	-							3 G	das
Please insert ad	ditional nages a	s applicable						- 01	0	8 2014	
Drilling Contra	ctor Decker Dri	ling	<u> </u>	Vincent			04-4-	ОН	7:-	45784	
Address 11565	State Route 6/6		City	Vincent			State		_ Zip		-
Logging Comp	any Weatherfor	d International									
Address 777 No	rth River Avenue		City	Weston			State	wv_	Zip	26452	!
		l Camilana									
Cementing Cor	npany Universa	Services		Allen	•		State	ΚY	7:-	41601	
Address 5252 R	1 1420		City	Aleit			State		_ Zip	11001	
Stimulating Co	mpany Produc	ers Service Co	rp.		_						
Address 109 So	uth Graham Stree	t	City	Zanesville	3		State	ОН	_ Zip	43701	
	ditional pages a										
Completed by	Roger Heldman	า			T	elephon	e <u>304-420</u>)-1107			: : :
Signature	In so	Edm	Title _O	perations M		•		Date 12	2/1/14		<u></u>
Submittal of Hy	vdraulic Fractur	ing Chemical	Disclosure Info	rmation	Atta	ch copy	of FRAC	FOCUS	Regist	ry	
~~~	,								J	•	

Prepared for: HG Energy LLC Dustin Hendershot 304-481-7342	PRODUCERS SERVICE CORP.			Prepared Produ Dave (109 S. Zanes 740-45
INVOICE #: 17396	-			
WELL NAME: Fowler				
COUNTY/STATE: Lincoln WV		4		
TOWNSHIP/FIELD: Yawkey				
DATE of SERVICE: 11/7/2014				
CUSTOMER PO#:				
Description	Notes	Amount	Units	Uni
ACID PUMP CHARGE 1000-2000 PSI		1	EA	\$ 1
MILEAGE CHARGE PER UNIT ONE WAY		67	MI	\$
IC ACID 15%		500	GAL	\$
PRO HIB II		0.333	GAL	\$
PRO CLA FIRM LP		0.66	GAL	\$
PRO NE-1		0.66		\$
PRO PEN		1		\$
DATA VAN ADDITIONAL HRS AFTER 4 ACID PUMP		5	STAGE	\$
				TOTA

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