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

API <u>47</u> - 087	04760	County ROANE		District SMITHE	FIELD	
Quad LOONEYVILLE			Н, А.В.	Field/Pool Name	CLOVER	
Farm name CHADWEL	L. RONALE			Well Number 1	22	
Operator (as registered v	with the OOG)	H.G. ENERGY LLC				
Address 5260 DuPON	MIN INCOOD) IT ROAD	City PAF	RKERSBURG	State WV		6101
Address OZOO Dai OI		City <u>****</u>		State		
As Drilled location N	AD 83/UTM	Attach an as-drille Northing 4,284,289 M	d plat, profile view,	and deviation survey Easting 474,949 M	<i>'</i>	
Landing Point	of Curve	Northing	E	asting		
Botto	om Hole	Northing 4,284,321 M	E	asting 475,184 M		
Elevation (ft) 1,148	GL	Type of Well	New DExisting	Type of Rep	ort □Interim	B Final
Permit Type Devi	ated 🗆 H	orizontal 🗆 Horizon	tal 6A 🛮 🗆 Vertica	l Depth Type	e 🗆 Deep	Shallow
Type of Operation □ C	onvert 🗆 🗅	eepen 🖺 Drill 🗆	Plug Back □ Re	drilling 🗆 Rewor	rk 🗆 Stimulat	е
Well Type Brine Dis	posal 🗆 CBM	ſ □ Gas □ Oil 🖪 Sec	ondary Recovery	Solution Mining	Storage 🗆 Ot	her
Type of Completion Drilled with Cable Drilling Media Surface Production hole Air	■ Rotary	⊡ Mud ■Fresh Wa	ter Intermedia			
Mud Type(s) and Addit	ive(s)					
Date permit issued	2/13/15	Date drilling comm	nenced7/28/1	5 Date drill	-	7/31/15
Date completion activiti		8/11/15	Date completion a	ectivities ceased	8/13/15	<u>-</u>
Verbal plugging (Y/N)		Date permission granted	I	Granted by	- নিদি	EIVED
Please note: Operator is	required to su	bmit a plugging applica	ation within 5 days o	of verbal permission	Office of	Oil and Gas
					AUG	2 0 2015
Freshwater depth(s) ft		None	Open mine(s) (Y/N	l) depths	None	
Salt water depth(s) ft	4	860'	Void(s) encountered	ed (Y/N) depths	WV NB a	partment of
Coal depth(s) ft		one	Cavern(s) encounte		Environ	ptal Protection
Is coal being mined in a	rea (Y/N)	N				

Rev. 8/23/13									
API 47-087	_ 04760	Farm na	ame_CHADWE	LL, RONAL	D & BREND	Well nun	nber_122		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Bask Depth		oid cement circulate (Y/N) Provide details below*	
Conductor	12 1/4"	11 5/8"	30'	Used	LS			Sand In	
urface	8 3/4"	7*	550'	New	LS		64'	Y	
Coal									
ntermediate I									
ntermediate 2								<u> </u>	
ntermediate 3									
roduction	6 1/4"	4 1/2"	2607'	New	J-55			Υ Υ	
ubing				-					
acker type and de	pth set			<u> </u>	<u> </u>				
CEMENT DATA	Class/Type of Cement	Numbe of Sack			/ield	Volume	Cement Top (MD)	WOC (hrs)	
onductor									
urface	Reg Neat	130	15.6	3 1	1.18	154	Surface	8	
oal									
termediate I									
termediate 2									
termediate 3									
oduction	50:50 Pozmi	x 110/12	5 13.2/1	4.2 1.6	4/1.27	180/186	246'	8	
bing									
rillers TD (ft) eepest format ug back proc	ion penetrated	Big Injun		Loggers T Plug back	D (ft) 2636' to (ft) N/A				
ick off depth	(ft) 650°								
heck all wirel	ine logs run	a caliper	-		ed/directional a ray	induc ≜ tempe		osonic	
ell cored 🗆	Yes 🖪 No	Convention	onal Side	wall	Were	cuttings coll	lected Y	es 🗆 No	
						_			
		ZER PLACEME	ENT USED FO	R EACH CA	ASING STRI	NG			
	,								
								RECEIVED	
AS WELL C	OMPLETED A	S SHOT HOLE	□ Yes ■	No DE	TAILS	·	Off	ce of Oil and G	
AS WELL CO	OMPLETED (PEN HOLE?	□ Yes ■ No	o DETA	AILS			AUG 2 0 2015	
	no Hone		mon es c	n 4 Opp (2) =	ICED			V Department	
ERE TRACE	KS USED 🛚	Yes 🖪 No	TYPE OF TI	RACER(S) U	12FD		Envir	onmental Prote	

API 47- 087 - 04760 Farm name CHADWELL, RONALD & BRENDA Well number 122

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	8/11/15	2462'	2468'	24	Big Injun
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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 (bbis)	Amount of Nitrogen/other (units)
1	8/13/15		250	N/A	0	2,500	164	
			-					
-	 			1		1		
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							PEC	=IV/FD
							nLO	EIVED Dil and Gas
						1 (phice of q	JII allu Gas
								2 0 2015
	·		-				AUG	Z () Z () ()

Please insert additional pages as applicable.

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Signature

WV Department of Attach copy of FRACFOCUS Registry Protection 09/04/2015

Prepared for: H G Energy	PRODUCERS SERVICE CORP.			Prepared by: Producers Serv. Brian Pierce 109 S. Graham Zanesville, OH 740-454-6253	St.
INVOICE #: 18843					, i
WELL NAME: A.B. Smith #122					
STATE & COUNTY: Roane Co. WV					
TOWNSHIP/FIELD: Clover					
DATE of SERVICE: 8/13/2015					
CUSTOMER PO# Description	Notes	Amount	Units	Unit Cost	Total Cost
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA	4	
BLENDER CHARGE 0-10 BPM		1	EA	I	
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @ 150 Miles	100	MI	13	
IC ACID 15%		250	GAL	13	
PRO HIB II		0.5		44	
ACID DELIVERY		2	HR	4	
PRO CLA LOK (KCL SUBSTITUTE)		15		1	
PRO NE-21		150	LB	+;	
PRO GEL 4		50			
BUFFER I BUFFER II		50		1	
PRO CLA LOK (KCL SUBSTITUTE)		15		1	
AP BREAKER		15	LB	T\$	
BXL-A		10		1 \$	
BXL-10C		10		1 1	
SAND 20/40 OTTAWA		25		9	
SAND DELIVERY / TON MILES		100		1 4	
BIO CLEAR 750		1		3	
DATA VAN		1	STAGE	4	
					1 2
	1				

Customer Approval:

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Office of Oil and Gas

AUG 2 0 2015

WV Department of Environmental Protection 09/04/2015