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

API 47 - 087 - 04752 County ROAN	NE District SMITH	#FIELD				
	FERRELL, C.B. Field/Pool Name CLOVER					
Farm name MAY, TIMOTHY D. Well Number 202						
Operator (as registered with the OOG) H.G. ENERGY L	LC					
Address 5260 DuPONT ROAD City P.	ARKERSBURG State WV	Zip 26101				
Top hole Northing 4,285,441 M Landing Point of Curve Northing Bottom Hole Northing Type of Well	Easting Easting Easting Type of Rep	port □Interim ĒFinal				
Permit Type Deviated Horizontal Horizontal	ontal 6A	e 🗆 Deep 🛎 Shallow				
Type of Operation Convert Deepen Drill	□ Plug Back □ Redrilling □ Rewo	rk 🗆 Stimulate				
Well Type □ Brine Disposal □ CBM □ Gas ♠ Oil □ S	econdary Recovery 🛭 Solution Mining	□ Storage □ Other				
Drilling Media Surface hele Stair D Mud Street W						
Drilling Media Surface hole Air Mud AFresh Website Air Mud Fresh Water Bride Bride Mud Type(s) and Additive(s)		Mud B Fresh Water □ Brine				
Production hole Air Mud Fresh Water Bri Mud Type(s) and Additive(s) N!/A	ine					
Production hole Air Mud Fresh Water Bri Mud Type(s) and Additive(s) N/A Date permit issued 1/7/15 Date drilling cor	nmenced1/23/15 Date drill	ing ceased 1/28/15				
Production hole Air Mud Fresh Water Bri Mud Type(s) and Additive(s) N/A Date permit issued 1/7/15 Date drilling cor Date completion activities began 3/23/15	nmenced1/23/15 Date drillDate completion activities ceased	ing ceased1/28/15 3/26/15				
Production hole Air Mud Fresh Water Bri Mud Type(s) and Additive(s) N/A Date permit issued 1/7/15 Date drilling cor Date completion activities began 3/23/15 Verbal plugging (Y/N) N Date permission grant Please note: Operator is required to submit a plugging appl Freshwater depth(s) ft None Salt water depth(s) ft 1700' Coal depth(s) ft None	nmenced1/23/15 Date drill Date completion activities ceased ted Granted by	ing ceased1/28/15 3/26/15				
Production hole Air Mud Fresh Water Bri Mud Type(s) and Additive(s) N/A Date permit issued 1/7/15 Date drilling cor Date completion activities began 3/23/15 Verbal plugging (Y/N) N Date permission grant Please note: Operator is required to submit a plugging appl Freshwater depth(s) ft None Salt water depth(s) ft 1700'	nmenced 1/23/15 Date drill Date completion activities ceased Granted by ication within 5 days of verbal permission Open mine(s) (Y/N) depths Void(s) encountered (Y/N) depths Cavern(s) encountered (Y/N) depths	ing ceased				
Production hole Air Mud Fresh Water Bri Mud Type(s) and Additive(s) N/A Date permit issued 1/7/15 Date drilling cor Date completion activities began 3/23/15 Verbal plugging (Y/N) N Date permission grant Please note: Operator is required to submit a plugging appl Freshwater depth(s) ft None Salt water depth(s) ft 1700' Coal depth(s) ft None	nmenced1/23/15 Date drill Date completion activities ceased ted Granted by ication within 5 days of verbal permission Open mine(s) (Y/N) depths Void(s) encountered (Y/N) depths.	ing ceased1/28/15				

Intermediate 2
Intermediate 3
Production

Tubing

50:50 Pozmix

90/125

13.2/14.2

1.64/1.27

148/186

50'

8

Drillers TD (ft) 2330' Deepest formation penetrated Big Injun		Loggers TD (ft) 2335'					
			Plug back to (ft) NA				
Plug back procedure N/A							
M							
Kick off depth (ft) NA	·va						
Check all wireline logs run	🖺 caliper	■ density	□ deviated/directional	induction			
🖺 neutron		■ resistivity	🛮 gamma ray	■ temperature □sonic			
Well cored □ Yes ■ No	Convention	nal Sidewa	all Were cu	uttings collected Yes No			
DESCRIBE THE CENTRALIZ 20 Controlizers every 88 from bottom on 4 1/2*, Controliz		NT USED FOR	EACH CASING STRIN	G			
			· · · · · · · · · · · · · · · · · · ·				
WAS WELL COMPLETED AS	SHOT HOLE	□Yes 🖺 Ì	No DETAILS	Received_			
WAS WELL COMPLETED OF	EN HOLE?	□ Yes 🖺 No	DETAILS	JUL - 9 2015			
18		. 					
WERE TRACERS USED DY	es 🖺 No	TYPE OF TR	ACER(S) USED	Office of Oil and Gas			

WV-Dept. of Environmental Protection-

WR-	35
Rev.	8/23/13

Page 3 of 4

API 47- 087 - 04752

Farm name MAY, TIMOTHY D.

_Well number__202

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	3/23/15	2146'	2156'	40	Big Injun
					
1				-	

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage	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	3/26/15	5	620	1250	709	2,500	147	
					1122			
			******				3000	ived
						9	しいこう	
					•		JUL -	9 2015
3.			·				<u> </u>	j

Please insert additional pages as applicable.

Office of Oil and Gas
WV Dept. of Environmental Protection

WR-35 Rev. 8/23/13									Page 4 of	4
	04752	Farm	name MAY, T	IMOTHY E).	Well	numbe	_{r_} 202		
PRODUCING	FORMATION	N(S)	<u>DEPTHS</u>							
Big Injun										
Dig mjun			2138'- 2162'	TVD -		MD)			
										
				 .						
Please insert ac	lditional pages	as applicable.								
GAS TEST	🗆 Build up	□ Drawdown	□ Open Flow	(OIL TEST []	Flow 1	⊃ Pump) ·		
SHUT-IN PRE	SSURE Su	rface	psi Botto	om Hole	psi	DURA	TION (OF TEST	hrs	
PEN FLOW		Oil	NGL		Water	GAS I	MEAST	JRED BY		
	m	cfpd	bpd	_ bpd	bpd	□ Estir	mated	□ Orifice	□ Pilot	
LITHOLOGY/	TOP	DOTTOM	TOD	DOTTO) (
FORMATION	DEPTH IN FT	BOTTOM DEPTH IN ET		BOTTOM		nock mr	DC 437D	DECODD 011		
Oldvinion	NAME TVD	TVD	DEPTH IN FT MD	MD						
Sand/Shale	0	1662	0	T ML	1 Y PE OF FI	ANA) CILU.	SHWAI	EK, BRINE, OI	L, GAS, H ₂ S, ETC)	_
Sand	1662	1798	1							_
Shale	1798	1816	1							_
Sand	1816	1835		····						_
Shale	1835	1842								
Sand	1842	1970					· · · · · · · · · · · · · · · · · · ·	يتعمى والمعلوب والمواقع	ived	_
Little Lime	1970	1986					É	1000	o Walter Control	_
Pencil Cave	1986	1993					***************************************	··	.,,,,,,,	
Big Lime	1993	2116			-			JUI -	9 2015	
Keener	2116	2138				7444		00.	<u> </u>	_
Big Injun	2138	2162								_
Shale	2162	2330						Office of C	on and Cas	on
, TD	2330						: 'V [papti of Enviro	onmental Protecti	<u> </u>
Please insert ad	ditional pages	as applicable.								
Orilling Contra	_{ctor} Decker Dr	illing								
Address 11565 S	State Route 676		City	Vincent		State	ОН	Zip 45784	\$	
	187					_				
ogging Compa	any weatherfo	rd International							_	
Address 777 No	rtn River Avenue		City	Weston		_ State		Zip _26452		
Cementing Con	nnany Universa	al Services								
Address Hall Rd			City	Buckhannon		_ State	WV	Zip 26201	1	
						_ 5.0.0				
		cers Service Cor	rp.							
Address 109 Sou		*****	City	Zanesville		_ State	OH	Zip <u>43701</u>		
lease insert ad	uitionat pages	as applicable.								
ompleted by	Roger Heldma	ņ			Telephone	304-420-	1107			
gnature	In the	ldr-	Title O	perations Mana	iger		Date 4/	13/15		
7									_	
ubmittal of Hy	draulic Fraction	ring Chemical T	Dicalogues Infor	mation .	Attach com	יום א מכוי		D ! - +		

repared for:

S G Energy

Justin Hendershot

STOMER PO#:

04-481-7342



Prepared by:

Producers Service Corp

Daniel L Graham

109 S. Graham St.

Zanesville, OH 43702

740-454-6253

TANJOYOFE # A CONTRACTOR	
INVOICE #: 1.7988	
WELL NAME: C B Ferrell #202	
COUNTY/STATE: Roane/WV	
OWNSHIP/FIELD: Clover Field/Roane Co Wv	
14/TE of SERVICE: 3/26/2015	

्र ार्ग्मिश	Notes	Amount	Units	Unit Cost	Total Cost					
JID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA	\$						
ENDER CHARGE 0-10 BPM		1	EA	\$						
LEAGE CHARGE PER UNIT ONE WAY	2 Units @40Miles	40	MI	\$						
ACID 15%		250	GAL	\$						
O HIB II	·	0.5	GAL	\$						
OID DELIVERY		2	HR	\$						
RO CLA LOK (KCL SUBSTITUTE)		15	GAL	\$						
RO NE-21		5	GAL	\$						
RO GEL 4		150	LB	\$						

ACI NO HACI NO DA RO CL RO GEL FFER I 50 50 (1) CLEAR 750 BPEAKER 15 10 GAL 19C 10 GAL) 20/40 OTTAWA 25 CWT DELIVERY / TON MILES 100 TMILE 1 STAGE FLOW METER

		. –	1.3. A. A.	
stomer Approval:			•	

Received

Office of Oil and Gas WV Dept. of Environmental Protection