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

API 47- 087 - 04/58	County ROANE	_ District SMITHFIELD	<u> </u>
Quad LOONEYVILLE 7.5'		Field/Pool Name CLC	VER
Farm name ATKINSON, DELORES		Well Number 115	
Operator (as registered with the OOG)	I.G. ENERGY LLC		
Address 5260 DuPONT ROAD	City PARKERSBURG	State WV	_{Zip}
Landing Point of Curve No	rthing	and deviation survey Easting 475,577 M Easting 475,725 M	
Elevation (ft) 1,111' GL	Type of Well ■New □ Existing	Type of Report D	Interim &Final
Permit Type 🚪 Deviated 🛭 Hori	zontal 🗆 Horizonta! 6A 🗅 Vertica	al Depth Type 🛘	Deep Shallow
Type of Operation Convert Dee	pen 🖪 Drill 🗆 Plug Back 🗆 R	edrilling 🗆 Rework 🗆	Stimulate
Well Type ☐ Brine Disposal ☐ CBM	□ Gas □ Oil ■ Secondary Recovery	Solution Mining C Store	ge 🗆 Other
		·	-
Type of Completion 📱 Single 🗆 Multip	le Fluids Produced □ Brine □G	ias DNGL BOil D	Other
Drilled with □ Cable ■ Rotary			
Drilling Media Surface hole ■ Air		ate hole BAir DMud I	Fresh Water Brine
Production hole 🛮 Air 🗆 Mud 🗆 F	resh Water Brine		
Mud Type(s) and Additive(s) N/A			
Date permit issued 2/27/15	Date drilling commenced 6/4/1	5 Date drilling cea	_{sed} 6/8/15
Date completion activities began			
Verbal plugging (Y/N) N Dat		· · · · · · · · · · · · · · · · · · ·	
24			Office of Oil & C
Please note: Operator is required to subn	it a plugging application within 5 days	of verbal permission to plug	
Freshwater depth(s) ftN	Open mine(s) (Y/I	N) depths	None
Salt water depth(s) ft 1780',	10.401	ed (Y/N) depths	None
Coal depth(s) ft None		ered (Y/N) depths	None
Is coal being mined in area (Y/N)	N		

WAS WELL COMPLETED OPEN HOLE?

WERE TRACERS USED ☐ Yes ☐ No

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Did cement circulate (Y/N)

* Provide details below*

Sand In

Intermediate I								
ntermediate 1								<u>.</u>
Intermediate 2	<u> </u>							-
								
Production	6 1/4"	4 1/2"	2488.65'	New	•	J-55		Υ
Tubing								
Packer type and d	epth set							
Comment Details	Grouled w/ Est. 25	sks to surface on 7° sur	face cement Job. Circul	ated Est. 30 sks	to surface o	on 4 1/2" cement job.		
CEMENT DATA Conductor	Class/Type of Cement	Number of Sacks			ield ³/sks)	Volume (ft ²)	Cement Top (MD)	WOC (hrs)
Surface	Ph. A1 ·	100			10	450		 _
Coal	Reg Neat	130	15.6	1.	.18	153	Surface	8
Intermediate 1								
ntermediate 2								-
ntermediate 3	-							
Production	50:50 Pozmi	x 100/125	12 244 6	1 1 1	(4.07	464406	42'	8
ubing	SU:SU POZMI	100/125	13.2/14.2	2 1.64	/1.27	164/186	42	
Plug back proc	tion penetrated cedure NA	Big Injun		Loggers TI Plug back t				
Cick off depth								
Check all wirel	ine logs run	acaliper	B density	■ deviate				
		neutron	☐ resistivity	🖪 gamma	гау	🖺 temp	erature osor	nic
Vell cored □	Yes 🖪 No	Convention	nal Sidewa	.11	W	ere cuttings col	lected Yes	□ No
	HE CENTRALI om bottom on 4 1/2°, Centra	ZER PLACEME	NT USED FOR	EACH CA	SING ST	TRING		
								Received
VAS WELL C	OMPLETED A	S SHOT HOLE	□Yes 🛭 N	lo DE	ΓA]LS		Offic	e of Oil &

TYPE OF TRACER(S) USED _

□ Yes 🖺 No

DETAILS _

AUG 0 3 2015

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/24/15	2306'	2316'	40	Big Injun
	-				
			-		
					
	-				
\vdash					
	-				
 					
$ldsymbol{ldsymbol{\sqcup}}$					
L			·		

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	6/30/15	5	578	1671	545	2,500	148	
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								of Oil & Gas
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							Office	OT CIT & Clas
							ΔΙ	G 0 3 2015
			····	<u>[</u> _				

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13					Page <u>4</u> of <u>4</u>
	_ 04758	Farm	name_ATKIN	SON, DELC	ORES Well number 115
PRODUCING	FORMATIO	<u>N(S)</u>	<u>DEPTHS</u>		
Big Injun			2108'- 2134'	TVD	2288'- 2322' MD
Please insert ac	lditional pages	s as applicable.			
GAS TEST	🗆 Build up	□ Drawdown	□ Open Flow	C	OIL TEST Flow Pump
SHUT-IN PRE	SSURE Su	rface	_psi Botte	om Hole	psi DURATION OF TEST hrs
OPEN FLOW		Oil cfpdl	NGL opd	_ bpd	Water GAS MEASURED BY bpd □ Estimated □ Orifice □ Pilot
LITHOLOGY/	ТОР	воттом	ТОР	ВОТТОМ	
FORMATION	DEPTH IN FT		DEPTH IN FT		T DESCRIBE ROCK TYPE AND RECORD QUANTITYAND
	NAME TVD	TVD	MD	MD MD	TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
Sand/Shale	0	1740	0	1835	TITE OF FLOID (FRESHWATER, BRINE, OIL, GAS, H2S, ETC)
Sand	1740	1786	1843	1876	
Shale	1786	1796	1876	1888	
Sand	1796	1806	1888	1900	
Shale	1806	1818	1900	1918	<u> </u>
Sand	1818	1934	1918	2064	
Little Lime	1934	1958	2064	2093	
Pencil Cave	1958	1966	2093	2104	
Big Lime	1966	2089	2104	2262	
Keener	2089	2108	2262	2288	
Big Injun	2108	2134	2288	2322	Drilled directional S 53° E a distance of 672'
Shale	2134	2294	2322	2525	
TD	2294		2525		
Diagon import a de	ditional massas				
Please insert add	. •	• •			
Orilling Contrac		illing			
Address <u>11565 S</u>			City	Vincent	State OH Zip 45784
ogging Compa	ny Weatherfor	rd International			
Address 777 Nor	th River Avenue		City	Weston	State WV Zip 26452
·	Hairana	ol Soniese	_ ,		
Cementing Com	pany Oniversa	a Services		Buckhannon	0 100/ - 26201
Address Tien No			City	Bucknannon	State WV Zip 26201 Received
timulating Con	npany Produc	cers Service Corp).		Office of Oil & C
ddress 109 Sou	th Graham Stree	t	City	Zanesville	State OH Zip 43701
lease insert add					State OH Zip Office of Oil & Go AUG 0 3 2015
Completed by	Roge r He ldmar	n <i>j</i>			Telephone 304-420-1107
Completed by _ignature	K.	illion-	- Title Or	erations Mana	ger Date 7/28/15

87.04758

81-0 7100					
Prepared for: H G Energy	A.			Prepared by: Producers Serv Daniel L Graha	
Dontin Handambat					
Dustin Hendershot	PRODUCERS			109 S. Graham	St.
304-481-7342	SERVICE CORP.			Zanesville, OH	43702
				740-454-6253	1
INVOICE #: 18537					
WELL NAME: Megraw 115					
COUNTY/STATE: Roane/WV					1
TOWNSHIP/FIELD: Clover Field	1				
DATE of SERVICE: 6/30/2015					
CUSTOMER PO#:					
Description	Notes	Amount	Units	Unit Cost	Total Cost
					1124000251
FLUID PUMP CHARGE 0-3000 PSI MIN CHARG	SE 4 HRS	1	EA		
BLENDER CHARGE 0-10 BPM		1	EA		
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @150Miles		MI		
IC ACID 15%		250	GAL		
PRO HIB II		0.5	GAL		
ACID DELIVERY		2	HR		
PRO CLA LOK (KCL SUBSTITUTE) PRO NE-21		15	GAL	L	
PRO GEL 4		5	GAL	-	
BUFFER I		150 50	LB	-	
BUFFERII		50	LB LB		
BIO CLEAR 750		1	LB	-	
AP BREAKER		15	LB	-	
BXL-A		10	GAL	-	
BXL-10C		10	GAL	-	
SAND 20/40 OTTAWA		25	CWT	-	
SAND DELIVERY / TON MILES		100	TMILE	-	
DATA VAN		100	STAGE		
JATA VAIV			STAGE		
7					
				-	
				T	
Customer Approval:				Receive ffice of OII AUG 0 3 201	la.
			0	fice of ou	ed
				Alle a	Gas
				706 0 3 201	5