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

· · · · · · · · · · · · · · · · · · ·	06343	County Kanaw	ha	District U	Jnion	
Quad Pocatalico		Pad Name n/a		Field/Poo	l Name	n/a
Farm name Fisher, How						eston #1
Operator (as registered wi	th the OOG) Re	serve Oil and (Gas, Inc.			
Address 929 Charlesto		City Sp		State	WV	Zip 25276
Top Landing Point of Bottom	hole North Curve North	ing 512,591 42,5 1	ed plat, profile view, and <u>052) 38.4055542 East</u> East	ing <u>1,765,</u> ing		38 089) <u>~81.7096 760</u>
Elevation (ft) 976	GL	Type of Well	■New □ Existing	Туре	of Report	: Interim Final
Permit Type Deviate Type of Operation Con	vert Deeper	n 🖪 Drill 🛭	□ Plug Back □ Redri	ling [th Type Rework	□ Deep ■ Shallow ■ Stimulate
Well Type Brine Dispo	sal □ CBM 🖺 (Gas □ Oil □ Se	condary Recovery 🗆 Sc	lution Mi	ning 🗆 S	torage 🗆 Other
Type of Completion Sind Drilled with Cable Drilling Media Surface heroduction hole Air Mud Type(s) and Additive n/a	B Rotary ole B Air □ N □ Mud B Fres			□ NGL		□ Other
						RECEIVED
Date completion activities	began4/	Pate drilling comm	_ Date completion activ	rities ceas	te drilling	4/15/2013 3 2 3 3
Verbal plugging (Y/N)	Date p	ermission grante	d	_ Grante	d by	WV Department of
Please note: Operator is re	quired to submit a	a plugging applic	ation within 5 days of ve	rbal perm	En ission to p	vironmental Protectica olug
Freshwater depth(s) ft	70		Open mine(s) (Y/N) de	nths		NO
Salt water depth(s) ft			Void(s) encountered (NO
Coal depth(s) ft	634-640, 785-	790	Cavern(s) encountered			NO
Is coal being mined in area		NO	Office	of Oil a T 1 5 20	nd Ga	

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WV Department of Environmental Protection

TYPE OF TRACER(S) USED _

WERE TRACERS USED - Yes - No

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API	47-	039	_	06343

Farm name_____Fisher, Howard

Well number Creston #1

PERFORATION RECORD

Stage No.	Perforation date	Perforated from	Perforated to	Number of	•
NO.		MD ft.	MD ft.	Perforations	Formation(s)
1	4/15/2013	3810	4500	45	Devonian Shale
2	4/15/2013	2904	3788	40	Greys Dx Shale / Devonian Shale
	-1.				

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	4/15/204	55331 sof 39750 sof	2548	1850	2079	0	12	1,001,969 scf
2	4/15/204	39750 so≝	2015	1840	1510	0	24	998,834 scf
				-				
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							- Offici	PEORIVED of Olland Gas
								0V <u>85</u> 2013
				1		 		ADDER BY MANY ME
							Englisher.	Pepartment of Compartment of
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Please insert additional pages as applicable.

Office of Oil and Gas

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API 47- 039	_ 06343	Fai	m name Fisher, Ho	ward		Well number_	Creston #1
PRODUCING F	ORMATIO	<u>N(S)</u>	<u>DEPTHS</u> 3810-4500	TT 170		MD	
Devonian Shale Greys Dx Shale	/ Devonian S	hale	2904-3788	_TVD			
Croyo Dx Citato	, , , , , , , , , , , , , , , , , , , ,						·
						·· ········	
Please insert add	ditional page	es as applicabl	e.				
GAS TEST	-		•			Flow Pump	
SHUT-IN PRES	SSURE S	urface 0	psi Botto	m Hole 60	psi	DURATION O	F TEST 12 hrs
OPEN FLOW	Gas 1335 r	Oil ncfpd	NGL bpd	_ bpd _	Water bpd	GAS MEASU	
LITHOLOGY/ FORMATION	TOP DEPTH IN I NAME TVI			BOTTOM DEPTH IN MD	FT DESCRIBE		RECORD QUANTITYAND ER, BRINE, OIL, GAS, H2S, ETC)
C A41	0		0	<u> </u>			
See Att	achiel						
						See Attachmo	ent for Formations
Please insert ad	l Iditional pag	es as applicab	e.		1		
Drilling Contra	ctor Kanawi	na Valley Drillin	g			State WV_	Zip 25276
Address 929 Ch			City			State	Zip
Logging Comp. Address 515 We	any Nabors est Greens Ro	Completion & Fad, Suite 1100	Production Services City			State _TX	Zip_77067
Cementing Cor	npany Unive	ersal Well Servi	ces, Inc.				
Address Rt 5 Ha	all Road		City	Buckhann	on .	State	Zip <u>26201</u>
Stimulating Co	y	iversal Well Se	rvices, Inc.	Buckhann	on	StateWV	Zip 26201
Please insert ad		es as applicab					
Completed by	, Ryan Fields				_ Telephon	e 304-927-5033	
Signature	mus	1 11	Title C	lerk	_ •	Date	10/11/2013

Formation	TOP (TVD)	BOTTOM (TVD)	TOP (MD)	BOTTOM (MD)	Remarks
KB to GL			0	7	70', 1/4" stream
Dirt, Clay	0	5	7	12	start soaping
Rock w/ Sand	5	23	12	30	
Sand	23	73	30	80	1640', 2 1/2"
Sand/Shale/Red Rock	73	133	80	140	stream
Sand w/ Shale	133	627	140	634	
Coal	627	633	634	640	1701', change
Sand & Shale	633	778	640	785	to fluid
Coal	778	783	785	790	
Sand & Shale	783	1063	790	1070	2475', Gas
Salt Sand	1063	1813	1070	1820	check, n/s
Little Lime	1813	1855	1820	1862	
Shale	1855	1857	1862		3775, Gas
Big Lime	1857	2015	1864	2022	check, show
njun	2015	2048	2022	2055	
White Sand	2048	2223	2055		4085', Gas
Dark Shale	2223	2482	2230	2489	check, show
White Sand	2482	2505	2489	2512	
Greys Dx Shale	2505	3253	2512		T.D. 6 1/2" Hole
Devonian Shale	3253	4669	3260		at 4676',
					4/2/2013 20:00
					1,2,2013 20.00
					
	-				
					
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