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

API 47 - 039 - 06361 County Kanaw	haUn	ion
Quad Pocatalico Pad Name n/a	Field/Pool ?	_{Name} n/a
Farm name Pressure Products Co. Inc.	Well Numb	Pressure Products #1
Operator (as registered with the OOG) Reserve Oil and C	Gas, Inc.	
Address 929 Charleston Road City Sp	encer State _	VV Zip 25276
As Drilled location NAD 83/UTM Attach an as-drill Top hole Northing 4249976N (38. Landing Point of Curve Northing Bottom Hole Northing	Easting	
Elevation (ft) 910 GL Type of Well	■New □ Existing Type o	f Report □Interim ■Final
Permit Type Deviated Horizontal Horizon	ntal 6A B Vertical Depth	Type Deep Shallow
Type of Operation □ Convert □ Deepen ■ Drill t	□ Plug Back □ Redrilling □ F	Rework Stimulate
Well Type □ Brine Disposal □ CBM ■ Gas □ Oil □ Se	condary Recovery	ng 🗆 Storage 🗆 Other
Type of Completion □ Single □ Multiple Fluids Produ Drilled with □ Cable 图 Rotary	uced 🗆 Brine 🛮 🖽 Gas 🗆 NGL	□ Oil □ Other
Drilling Media Surface hole BAir DMud DFresh Water DMud BFresh Water DBrin Mud Type(s) and Additive(s)		□ Mud B Fresh Water □ Brine
Date permit issued08/08/2013 Date drilling com	menced 10/14/2013 Date	drilling ceased 10/24/2013
Date completion activities began 10/29/13	_ Date completion activities ceased	
	•	byn/a
Please note: Operator is required to submit a plugging applic	cation within 5 days of verbal permis	ssion to plug
Freshwater depth(s) ft70	Open mine(s) (Y/N) depths	NO
Salt water depth(s) ft1276, 1480	Void(s) encountered (Y/N) depth	s NO
Coal depth(s) ft None	Cavern(s) encountered (Y/N) dept	hs NO
Is coal being mined in area (Y/N)NO		Reviewed by:

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API 47-039	_ 06361		Farm nan	ne_Pr	essure F	Products	Co. Inc.	·w	ell nu	mber_Pres	ssure F	Products #1
CASING STRINGS	Hole Size	Casi Size	•	De	:pth	New or Used	Grade wt/ft		Bas Dep	kct th(s)		ent circulate (Y/N) de details below*
Conductor	17 1/2	13	3/8		0,	New		48.0		n/a		mented by hand to GL
Surface	12 1/4	9	5/8	33	36'	New		26.0	1	at 84'		es, 5 bbls to pit
Coal				• • • • • • • • • • • • • • • • • • • •								
Intermediate 1	8 3/4		7	2026	6.80'	New	<u> </u>	17.0	1	at 295'	VE	es, 5 bbls to pit
Intermediate 2									t		,,,	10, 0 0013 to pk
Intermediate 3									<u> </u>			
Production	6 1/2	4	1/2	4558	B.35'	New	<u> </u>	11.6	500 44	10,20,30,40,50		
Tubing	32	•	.,,_	-1000	-	11011	ļ		10,2	1020,00,10,00		
Packer type and d	epth set				L		1					
Comment Details												-
CEMENT DATA	Class/Type of Cement		Number of Sacks		Slurry wt (ppg)		rield ³ /sks)	Volum (ft.²)	c	Cemen Top (M)		WOC (hrs)
Conductor	Type 1 / Calc	um	7/1		n/a		n/a	n/a		GL		7 hrs
Surface	Type 1		120		15.2		1.29	n/a		GL		14 hrs
Coal												
Intermediate 1	Unifillite/Type	e 1	150/75		12.7/15.6	3 1.8	4/1.18	276/88	.5	GL		18 hrs
Intermediate 2												
Intermediate 3												
Production	Stronglite 25	50	160	60 12.3			2.34	374.4		4614		14 hrs
Tubing												
Plug back pro	tion penetrated cedure (ft)					Loggers T Plug back						
Check all wire	line logs run		caliper neutron		nsity sistivity	□ deviat ■ gamm	ed/directi a ray		indu temp	ction perature	Bsonic	;
Well cored	Yes A No	- (Convention	nal	□ Sidewa	ıll	W	ere cutting	gs col	llected =	Yes □	No
DESCRIBE TI 13 3/8": no centralizora u 9 5/8": 1 contralizor u	sed	IZER P	LACEME	NT US	SED FOR	EACH CA	ASING S	TRING _				
	ed at joints: 10, 20, 30											
4 1/2": 6 at joints: 10	, 20, 30, 40, 50, & 60											
WAS WELL C	COMPLETED	AS SHC	OT HOLE	AY	∕es □ N	% DI	ETAILS	······································				
WAS WELL O	COMPLETED	OPEN H	HOLE?	□ Yes	i ≜ No	DET.	AILS _			<u> </u>		
WERE TRACI	ERS USED	Yes	No No	TYP	E OF TRA	ACER(S)	USED					

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API	47- 039 -	06361	Farm name Pressure Products Co. Inc.	Well number	Pressure Products #1
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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/29/13	3908	4476	40	Devonian Shale
2	10/29/13	2946	3830	40	Huron, Devonian Shale

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_	10/29/13	50.4	2223	2000	2638	0	450 gal	
2	10/29/13	50.8	2359	2122	1935	0	1150 gal	1,001,163 scf
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Please insert additional pages as applicable.

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API 47- 039	_ 06361		_ Farm	name_P	ressure	Products Co	o. Inc	.	Well	number	Press	ure Produc	:ts #1	
PRODUCING														
	FURWATI	OM(2)		DEPTH										
Huron				2893-37	93	_TVD	290	0-3800	MD					
Devonian Shale	}		_	3793-46	07		380	0-4614						
			-					· · · · · · · · · · · · · · · · · · ·						
Please insert ac	iditional pag	ges as ap	– plicable.											
GAS TEST	□ Build up	o Dra	wdown	■ Oper	n Flow		OIL	TEST of	i wolf	⊃ Pump				
SHUT-IN PRE	SSURE	Surface _.	0	psi	Botto	m Hole 156	5	psi	DURA'	TION C	F TES	T 10	hrs	
OPEN FLOW		mcfpd	Oil	bpd _	NGL	_ bpd _	Wa	ter bpd	GAS N	MEASU mated	RED I	3Y fice □	Pilot	
.ITHOLOGY/	ТОР	E	воттом	т	OP	воттом	ı							
ORMATION	DEPTH IN	FT DE	PTH IN FT	DEPTE	I IN FT	DEPTH IN	FT	DESCRIBE I	OCK TY	PE AND	RECOR	D QUANTI	TYAND	
	NAME TV	'D	TVD	M	ID	MD		TYPE OF FL	UID (FRE	SHWAT	ER, BRI	NE, OIL, G	AS, H ₂ S, E	TC)
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	<u> </u>			<u> </u>					See	Attachme	ent for F	ormations		
Please insert ad	ditional pag	es as ap	plicable.											
Orilling Contra	ctor Kanaw	ha Valley	Drilling											
Address 929 Ch	arleston Road	<u> </u>			City	Spencer			_ State	WV	Zip	25276		
anaina Cama	Nahors													
ogging Compa Address 515 We	est Greens Ro	ad. Suite	1100		City	Houston			State	TX	7in	77067		
· · · · · · · · · · · · · · · · · · ·					City				_ State		Z.ip			
Cementing Con	npany Unive	ersal Wel	i Services,	, Inc.										
Address Rt 5 Ha	il Road				City	Buckhanno	n		State	wv	Zip	26201		
'		iversal W	ell Service	es Inc										
Stimulating Con Address Rt 5 Ha	pu,		0 00. 11.0		City	Buckhanno	- •П		State	wv	7in	26201		
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signature	rjan	1/10	el D		Title <u>cl</u>	er K		·		Date	12/	<u> 51/20</u>	2/3	
Submittal of Hy	/ /draulic Fra	cturing (Chemical 1	Disclosu	re Infor	mation	Att	ach copy of	FRACE	OCUS	Regist	ry		

Formation	TOP (TVD)	BOTTOM (TVD)	TOP (MD)	BOTTOM (MD)	Remarks
KB to GL			0	7	70' Hole Damp
Dirt (Clay)	0	5	7	12	
Red Rock	5	18	12	25	1276' Hole Wet
Rock	18	38	25	45	Start Soaping
Red Rock	38	53	45	60	
Sandstone	53	68	60	75	1480' 2 1/2"
Red Rock	68	98	75	105	Stream Water
Sandstone	98	113	105	120	
Red Rock & Sandstone	113	208	120	215	1637' Switch
Sand / Shale	208	913	215	920	To Fluid
Dark Grey Shale	913	950	920	957	
Sand / Shale	950	1090	957	1097	4614' TD 6 1/2"
White / Grey Shale	1090	1176	1097	1183	
Sand / Shale	1176	1216	1183	1223	2/10th thru 2"
Salt Sand	1216	1505	1223	1512	at TD
Maxton	1505	1738	1512	1745	
Little Lime	1738	1761	1745	1768	Dusted to TD
Big Lime	1761	1941	1768	1948	
Injun	1941	1965	1948	1972	
Squaw	1965	1982	1972	1989	
White Sand	1982	2098	1989	2105	
Shale	2098	2409	2105	2416	
Brea Shale	2409	2422	2416	2429	
Sand / Shale	2422	2893	2429	2900	
Huron Shale	2893	3793	2900	3800	
Devonian Shale	3793	4607	3800	4614	
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