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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 <u>47</u> - 039	06326	County Kanawh	na j	District Elk	
Quad Charleston Ea	ast	Pad Name n/a		Field/Pool Name	n/a
Farm name Central V	W Regional	Airport			
Operator (as registered	with the OOG)	Reserve Oil and G	as, Inc.		
Address 929 Charles	ston Road	City Spe	encer	State WV	Zip 25276
Landing Point	t of Curve	Attach an as-drille Northing 500,145/424, Northing	Easti	ng <u>4,795,996</u>	, <u>^ 04.47.437)=81.60172</u> 95
Elevation (ft) 785	GL	Type of Well	BNew □ Existing		ort □Interim &Final
Permit Type Dev	viated 🗆 He	orizontal Horizon	tal 6A 🖪 Vertical	Depth Type	□ Deep ■ Shallow
Type of Operation (Convert 🗆 D	eepen 🖪 Drill 🗆	Plug Back Redrill	ling □ Rewor	k 🖪 Stimulate
Well Type □ Brine Di	sposal CBM	[■ Gas □ Oil □ Sec	ondary Recovery	lution Mining	Storage
Type of Completion	Single 🗆 Mul	tiple Fluids Produc	ced □ Brine ■Gas	□ NGL □ Oi	l DOther
Drilled with □ Cable	■ Rotary				
Drilling Media Surface Production hole Air Mud Type(s) and Addit n/a	r 🗆 Mud 🖪			ole BAir □M	fud
				<u>·</u>	<u></u>
Date permit issued	12/19/2011	_ Date drilling comm	nenced08/09/2013	Date drilli	ng ceased 08/22/2013
Date completion activit	ies began	09/03/2013	Date completion activ		0010010010
Verbal plugging (Y/N)	n/a	Date permission granted	n/a	Granted by	n/a
Please note: Operator i	s required to su	bmit a plugging applica	tion within 5 days of ve		o plug RECEIVED Office of Oil and Gas
Freshwater depth(s) ft		60	Open mine(s) (Y/N) de		
Salt water depth(s) ft		355	Void(s) encountered (Y		NO NO 2013
Coal depth(s) ft	1164 -	1174	Cavern(s) encountered		W. Government of
Is coal being mined in a		NO		En	vironmental Protection
		·			∩∩T 1 Reviewed by:

MV Department of Environmental Protection

TYPE OF TRACER(S) USED _

WERE TRACERS USED - Yes - No

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API 47- 039 - 06326 Farm name Central WV Regional Airport Well number Yeager #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	09/03/2013	3788	4388	40	Formation(s) Devonian Shale
2	09/03/2013	2950	3762	40	Huron, Devonian Shale
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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 (bbls)	Amount of Nitrogen/other (units)
1	09/03/13		n/a	n/a	n/a	none	12	1,001,000 scf
2	09/03/13	n/a	n/a	n/a	n/a	none	24	1,001,000 scf 1,001,000 scf
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Please insert additional pages as applicable.

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API 47- 039 - 06326 Farm	name Central WV Region	al Airport Well num	ber
PRODUCING FORMATION(S) Huron Devonian Shale	<u>DEPTHS</u> 2950 - 3178 TVD 3178 - 4388	MD	
Please insert additional pages as applicable.			
GAS TEST 🗆 Build up 🗆 Drawdown	Open Flow	OIL TEST - Flow - Pu	mp
SHUT-IN PRESSURE Surface 0	psi Bottom Hole	80 psi DURATIO	N OF TEST 12 hrs
OPEN FLOW Gas Oil 103 mcfpd		Water GAS MEA bpd □ Estimate	
LITHOLOGY/ TOP BOTTOM FORMATION DEPTH IN FT NAME TVD TVD	MD MI	IN FT DESCRIBE ROCK TYPE A	AND RECORD QUANTITY AND WATER, BRINE, OIL, GAS, H₂S, ETC)
0	0		
	 		
		See Atta	chment for Formations
Please insert additional pages as applicable.			
Drilling Contractor Kanawha Valley Drilling Address 929 Charleston Road	City Spence	er State W	V Zip 25276
Logging Company Nabors Completion & Pro Address 515 West Greens Road, Suite 1100	duction Services Co. City Housto	n State T	Zip <u>77067</u>
Cementing Company Baker Hughes Address 17015 Aldine Westfield Road	City Housto	n State T	X Zip 77073
Stimulating Company Baker Hughes Address 17015 Aldine Westfield Road	City Housto	n State T	X Zip 77073
Please insert additional pages as applicable.			
Completed by Ryan Fields		Telephone 304-927-50	33
Signature Kyun fules	Title clerk	Da	te <u>/0/11/2013</u>

Formation	TOP (TVD)	BOTTOM (TVD)	TOP (MD)	BOTTOM (MD)	Remarks
KB to GL	12. (1.12)		0	7	60', hole damp,
Rock	0	43	7	50	start soaping
Sand & Shale	43	848	50	855	start souping
Salt Sand	838	1157	845	1164	855', hole wet,
Coal Seam	1157	1167	1164	1174	start soaping
Shale	1167	1178	1174	1185	start souping
Salt Sand	1178	1258	1185	1265	1195', mix
Maxton	1283	1383	1290	1390	10 starch, 2 mill
Sand & Shale	1383	1438	1390	1445	seal, drill w/
Little Lime	1438	1462	1445	1469	mudpump
Pencil Cave Shale	1462	1465	1469	1472	шааратр
Big Lime	1465	1653	1472	1660	2140' - 2150',
injun	1653	1678	1660	1685	crude / gas
Squaw	1678	1692	1685	1699	orduc / gds
Sand & Shale	1692	2109	1699	2116	
Brea	2109	2119	2116	2126	
Shale	2119	2308	2126	2315	
Huron	2308	3178	2315	3185	<u> </u>
Shale	3178	4417	3185	4424	l
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					of Oil and Ga
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