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

. Rurnt House		D	istrict DeKalb		
Quad Burnt House	Pad Name		ield/Pool Name _F		rage
Farm name Kim & Lisa Ullom		v	Vell Number 13	129	
Operator (as registered with the O		ssion, Inc.			
Address 445 W. Main St	City Clark	ksburg	State WV	Zip	26301
As Drilled location NAD 83/UT Top hole Landing Point of Curve	Northing 4317581.8937 Northing		deviation survey ag 507792.4661 g		
Bottom Hole	Northing		g		
Elevation (ft) 1078.98 G	Type of Well	New □ Existing	Type of Repor	t Interim	≜ Final
Permit Type Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviated Deviate	Horizontal Horizontal	al 6A 📱 Vertical	Depth Type	□ Deep	■ Shallow
Type of Operation □ Convert	□ Deepen	Plug Back Redrilli	ng 🗆 Rework	■ Stimula	ite
Well Type □ Brine Disposal □ C	CRM ■ Gas □ Oil □ Seco	ondary Recovery	ution Mining	Storage □ C	Other
Type of Completion □ Single ■	Multiple Fluids Produc	ced □ Brine ■Gas	□ NGL □ Oil	□ Other _	
Drilled with Cable Rotary					
Diffied with 13 Cable 18 Rotal	y				
Drilling Media Surface hole ■ Production hole ■ Air □ Mud Mud Type(s) and Additive(s)	Air □ Mud ■Fresh Water □ Brine	*	le ■ Air □ Mu		
Drilling Media Surface hole ■ Production hole ■ Air □ Mud Mud Type(s) and Additive(s) Date permit issued 4-18-201	Air	nenced10-7-2013	Date drilling	g ceased	10-16-2013
Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) Date permit issued 4-18-201 Date completion activities began	Air □ Mud ■Fresh Water □ Brine Brine 3 Date drilling community	nenced10-7-2013 Date completion activi	Date drilling	g ceased 11-4-2013	10-16-2013
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Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) Date permit issued 4-18-201 Date completion activities began	Air	nenced10-7-2013 Date completion activi	Date drilling ties ceased Granted by	g ceased 11-4-201;	10-16-2013
Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) Date permit issued 4-18-201 Date completion activities began Verbal plugging (Y/N) Please note: Operator is required	Air	nenced10-7-2013 Date completion activi	Date drilling ties ceased Granted by bal permission to	g ceased	10-16-2013
Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) Date permit issued 4-18-201 Date completion activities began Verbal plugging (Y/N)	Air	nenced 10-7-2013 Date completion activition within 5 days of vertice Open mine(s) (Y/N) dep	Date drilling ties ceased Granted by rbal permission to RE othsOffice (ceased	10-16-2013 3
Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) Date permit issued 4-18-201 Date completion activities began Verbal plugging (Y/N) Please note: Operator is required Freshwater depth(s) ft	Air	nenced 10-7-2013 Date completion activition within 5 days of vertices to the completion within 5 days of vertices to the complete to the comp	Date drilling ties ceased Granted by rbal permission to RE othsOffice (ceased	10-16-2013 3
Drilling Media Surface hole Production hole Air Mud Mud Type(s) and Additive(s) Date permit issued 4-18-201 Date completion activities began Verbal plugging (Y/N) Please note: Operator is required Freshwater depth(s) ft Salt water depth(s) ft	Air	Date completion activition within 5 days of vertice Open mine(s) (Y/N) dep Void(s) encountered (Y Cavern(s) encountered (S)	Date drilling ties ceased Granted by rbal permission to RE othsOffice (plug CEIVED Nor	10-16-2013 3

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Rev. 8/23/13									
API 47- 021	- 05754	Farm nan		Well number					
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ement circulate (Y/N) vide details below*
Conductor	16"	13 3/8"	38'	N	A-500/ 48 lb				
Surface	12 1/4"	9 5/8"	862'	N	J55	/ 36 lb			Υ
Coal									
Intermediate 1	8 3/4"	7"	2435'	N	J55	/ 20 lb			Υ
Intermediate 2									
Intermediate 3									
Production	6 1/4"	4 1/2 "	5118'	N	M-65	/ 10.5 lb	·		N
Tubing									-
Packer type and d	epth set		·					_	
Comment Details top @ approximatel		d 22 bbls of cement to s	surface : Intermedia	te Job circulated	30 bbls to su	urface: Product	lion cement not	planned to circ	zulate to surface; cement
CEMENT	Class/Type	Number	Slurry	, ·	Yield	Volume		Cement	WOC
DATA	of Cement	of Sacks	wt (pp		³ /sks)	(ft ³)		p (MD)	(hrs)
Conductor									
Surface	Class A	300	15.6		1.20	360		CTS	8
Coal									
Intermediate 1	Class A	350	15.4		1.23	430		CTS	8
Intermediate 2		140	15.9		1.15	161		CTS	
Intermediate 3									
Production	Poz	260	13.5		1.53	399		1850	192
Tubing									
Drillers TD (ft) 5145 Deepest formation penetrated Siltstone immediately below the Alexander Plug back procedure									
Kick off depth	(ft)								
Check all wireline logs run Caliper									
Well cored	Yes 🗆 No	□ Convention	nal 🗆 Sidev	vall	W	ere cutting	s collected	□ Yes	■ No
DESCRIBE T	HE CENTRALIZ	ZER PLACEME	NT USED FO	R EACH C.	ASING S	TRING _s	ee attached sho	eet	
						-			
WAS WELL (COMPLETED A	S SHOT HOLE	□ Yes ■	No Di	ETAILS				

WAS WELL COMPLETED OPEN HOLE?

Yes No DETAILS

WERE TRACERS USED □ Yes ■ No

TYPE OF TRACER(S) USED _____

API 47- 021 - 05754 Farm name Kim & Lisa Ullom Well number 13129

PERFORATION RECORD

Stage		Perforated from	Perforated to	Number of	
No.	Perforation date	MD ft.	MD ft.	Perforations	Formation(s)
1	10-24-13	4840	5055	28	Alexander
2	10-29-13	4672	4678	20	Benson
3	10-29-13	3626	3963	25	Balltown
4	10-29-13	3194	3241	25	Speechley
5	10-29-13	2500	2506	20	Gordon

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	28	2650	2630	2400	25,600	123	426,000 SCF
2	10-29		Not Treated					
3	10-29	26	2627	2340	4000	18,000	90	4,000 SCF
4	10-29		Not Treated					
5	10-29		Not Treated					
				_				
								~
								•
			47.4					

Please insert additional pages as applicable.

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API 47- <u>021</u>	_ 05754		Farm	name Kim & Lis	a Ullom			Well n	umber_	13148		
PRODUCING	FORMAT	rion(s)		<u>DEPTHS</u>								
Comingled: Ale			1	2500 - 5055	TVD	250	00 - 5055	MD				
Bailtown, Spee				3626-3963	_ 100		0000	MD				
See perforation				3020-0000								
formation logs (ilation d										
												
Please insert ac	iditional p	ages as	аррисавіе.									
GAS TEST	□ Build 1	up 🗆 I	Drawdown	Open Flow		OII	LTEST o	Flow \Box	Pump			
SHUT-IN PRE	SSURE	Surfac	e <u>960</u>	psi Botte	om Hole_		psi	DURAT	O MOI	F TES	T 12	_ hrs
OPEN FLOW	Gas		Oil	NGL		W	ater	GAS M	IEASU	RED E	BY	
	474	_ mcfp	d	bpd	_ bpd		bpd	□ Estin	nated	□ Ori	fice # Pi	ilot
	T O		DOTTOM	TOD	POTTO							
LITHOLOGY/ FORMATION	TOI DEPTH		BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTO DEPTH IN		DESCRIBE	ROCK TYP	E AND I	RECOR	D QUANTIT	YAND
	NAME	TVD	TVD	MD	MD		TYPE OF FI	LUID (FRE	SHWATI	ER, BRI	NE, OIL, GA	S, H₂S, ETC)
	0			0								
See Attached Sheet	-			 	<u> </u>							
												
	-			<u> </u>							•	
					<u> </u>							
											-	
	-				-		-					
	 						<u> </u>					
Please insert a	dditional p	ages as	applicable.									
Drilling Contra	actor Nex	us										
Address Indust	rial Park			City	Jane Lev	<u> </u>		State	WV_	Zip	26378	
Logging Comp	oany Wea	therford										
Address 777 N	orth River A	v		City	Weston			State	WV	Zip	26452	
Cementing Co	_{mnany} Na	abors										
Address 1650 I	Hackers Cre	ek Rd		City	Jane Lev	<i>.</i>		State	WV	Zip	26378	
Stimulating Co	nmany	Baker H	ughes									
Address 837 P	Jinpunj .			City	Clarksbu	rg		State	wv	Zip	26301	
Please insert a		pages as	applicable.	-								
Completed by	, Jason B	ach					Telephone	304.669	.4850			
Signature		- X		Title	Technical Sp	eciali	ist III		Date 1	2-17-13		
Cubmitted	vdravlic I	7	na Chemical	Disclosure Info	ormation	Δ	ttach copy o	of FR ACI	OCUS	Regis	trv	
Submittat of H	yuraunc I	racturii	ig Chemical	Piaciosuic IIII	Jillacion	n	aoii copy (5555		<i>J</i>	

Centralizer Placement

47-041-05754

13129

Casing String	Centralizer Placement (Jt#)
9 5/8"	2;3;6;9;12;15;18
7"	1-10 ; 14;18;22;24;28;32
4 ½	2;3;9;10;26;27;43;44;60;61;62

Formation Description Dominion Transmission Well # 13129

Formation	Тор	Bottom	Show
Fill	0	18	
Sand & Shale	18	328	Damp @ 48'
Shale & Red Rock	328	890	
Sand	890	980	
Shale & Siltstone	980	1164	
Salt Sands	1164	1421	
Sand & Shale	1421	1600	
Maxton	1600	1650	
Shale	1650	1808	
Little Lime	1808	1832	
Shale	1832	1856	
Big Lime	1856	1940	
Big Injun	1940	1998	
Shale	1998	2134	
Weir	2134	2218	
Shale	2218	2290	Gas Check @ 2290 : No Show
Berea	2290	2299	
Shale	2299	2500	Gas Check @ 2445 : No Show
Gordon	2500	2512	
Shales & Siltstones	2512	3182	Gas Check @ 2640 : No Show
Speechley	3182	3252	
Siltstones & Shales	3252	3588	
Balltowns	3588	3969	Gas Check @ 3813 : No Show
Shales & Siltstones	3969	4674	
Benson	4674	4682	
Shales	4682	4818	
Alexander	4818	4970	
Shales	4970	4143	
Td	5143		