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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 47 085 10124	County Ritchie		District Murphy					
Quad Smithville 7.5'	Pad Name none		Field/Pool Name Eva Field					
Farm name Yoder, Noah L. & Em			Well Number J. E					
Operator (as registered with the OOG		l Co.						
Address P. O. Box 396	City Oln		State IL	Zip <u>62450</u>				
As Drilled location NAD 83/UTM Top hole Landing Point of Curve	Attach an as-drille Northing 4,318,792.6 Northing n/a		d deviation survey ting 498,537.4 ting n/a					
	Northing 4,318,792.6		ting 498,537.4					
Elevation (ft) 1108 GL	Type of Well	■New □ Existing	Type of Report	oInterim BFinal				
Permit Type Deviated F	lorizontal 🗆 Horizon	tal 6A	Depth Type	□ Deep				
Type of Operation Convert	Deepen ■ Drill □	Plug Back 🗆 Redri	illing 🗆 Rework	□ Stimulate				
Well Type □ Brine Disposal □ CBl	M ■ Gas ■ Oil □ Sec	ondary Recovery S	olution Mining 🗆 S	torage Other				
			_					
Type of Completion	umple riulds Produ	cea dibrine B Gas	□ NGL	Other				
Drilled with □ Cable ■ Rotary								
Drilling Media Surface hole A	ir □ Mud □Fresh Wa	ter Intermediate	hole ■Air ⊓Mu	d 🗆 Fresh Water 🗅 Brine				
Production hole Air DMud			with					
				c .				
none				(F) (G82				
	-			CEIN and				
Mud Type(s) and Additive(s) none Date permit issued June 17, 2014 Date completion activities began Verbal plugging (Y/N)	Date drilling comn	nenced July 11, 20	14 Date drilling	ceased Suly 18,92014 pluly 26, 2014 ?				
Date completion activities began	July 24, 2014	Date completion acti	vities ceased	luly 26, 2014.9				
Verbal plugging (Y/N)	Date permission granted	I	Granted by	OBO OLD I				
				NI MO				
Please note: Operator is required to s	ubmit a plugging applica	ation within 5 days of v	verbal permission to	ceased guly 18,8014 July 26, 2014 9 Plug Plug Environmental				
Freshwater depth(s) ft	65, 105	Open mine(s) (Y/N) o	lepths	N				
Salt water depth(s) ft	None	Void(s) encountered ((Y/N) depths	N				
Coal depth(s) ftN	one	Cavern(s) encountered	d (Y/N) depths	N				
Is coal being mined in area (Y/N)	N							
· 				Reviewed by:				

CASING	Hole	Casing	,	New or Grade		Basket	Did come-	t circulate (Y/ N)	
STRINGS	Size	Size	Depth	Used wt/ft		Depth(s)		details below*	
Conductor		16"	20'	пеж			I		
Surface	15"	11 3/4"	337'	new A5	i00 32#	42'		Y	
Coal			<u> </u>						
ntermediate 1	11"	8 5/8"	1311'	new A5	00 20#	20# 42		Υ	
ntermediate 2								-	
ntermediate 3									
Production	7 7/8"	4 1/2"	2519'	new WT	65 10.5#	1743'	N		
Cubing							<u> </u>		
acker type and d	epth set								
omment Details									
CEMENT	Class/Type	Number	Slurry	Yield	Volume			woc	
DATA Conductor	of Cement	of Sacks	wt (ppg)	(ft ³ /sks)	<u> </u>	Top (N	<u>(ID)</u>	(hrs)_	
urface	A	200	15.6	1.18	236	СТ		8	
Coal	- ^-	200	10.0	1.10	230		-	O	
ntermediate l	A	300	14.8	1,40	420	СТ	-		
itermediate 2	, , , , , , , , , , , , , , , , , , ,	- 555			1 420				
ntermediate 3		-			 			<u>-</u>	
roduction	CBL Poz	170	13.5	1.54	262	137	0'		
ubing		- 		<u> </u>	 				
lug back pro	ation penetrated occidented occid	Berea		oggers TD (ft) 2.					
Cick off depth Check all wire		E caliper	density	o deviated/direc		induction temperature	≜ sonic		
Well cored c	Yes a No	□ Convention	nal 🗆 Sidewal	1 v	Vere cutting	s collected	Yes 🗆	No	
SECODING T	HE CENTRAL!	ZED BL ACELEE	NIT LIGED FOR 1	EACH CARING	CTDING 4	1/2° • 7 7/8° • 2470° •	2200 2202 CO	17 204E 4040 401	
PESCRIBE I	ne cen i kali 	ZER PLACEME	NI USED FUKI	EACH CASING	טאואו ב		2303 22	ir 40 00 1808 10:	
WAS WELL (COMPLETED A	AS SHOT HOLE	□Yes ■ N	DETAILS					
		AS SHOT HOLE OPEN HOLE?			<u> </u>				

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7-25-2014	2421	2431	30	Berea
2	7-25-2014	2062	2070	12	Big Injun
	7-25-2014	2074	2082	24	Big Injun
	-			 	
		_			
\vdash				 	
				 -	
				 	

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 (bbis)	Amount of Nitrogen/other (units)
1	7/25/14	34	1460	1834	820	25,000	580	88,000 scf
2	7/25/14	37	1390	850	1130	30,000	650	93,000 scf
					_			
				<u> </u>				
					_ 			
<u> </u>								
L.,								

Please insert additional pages as applicable.

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API 47- 085	- 10124	Farm	name Yoder, No	ah L. & Emr	ma	<u>.</u>	Well r	number_	J. E. G	ium #4	
PRODUCING same as perfora		<u>N(S)</u> -	<u>DEPTHS</u>	_TVD			MD				
		 					_				
Please insert ad	ditional page	s as applicable.	,				_				
GAS TEST	o Build up	□ Drawdown	■ Open Flow	•	OIL	TEST .	Flow C	Pump			
SHUT-IN PRE	SSURE Si	ırface 50	_psi Botto	m Hole		psi	DURAT	O NOI	F TES	T <u>24</u> 1	hrs
OPEN FLOW	Gas 20 m	Oil acfpd show l	NGL bpd <u>-</u>	_ bpd			GAS M	IEASUI nated	RED E	BY fice □ Pilot	t
LITHOLOGY/ FORMATION	TOP DEPTH IN F NAME TVD		TOP DEPTH IN FT MD	BOTTOM DEPTH IN I	FT					D QUANTITYA NE, OIL, GAS, I	
	0	8	0	8							
Fill	8	10	8	10			_				
Sd, Sh, RR	10	1222	10	1222			damp - 48	3', 1/4" H2	0 65',	3/4" H20 105'	_
Salt Sand	1222	1252	1222	1252							
Sd, Sh, RR	1252	1490	1252	1490							
Sand	1490	1667	1490	1667		-		oil odo	r at 166	30'	
3rd Salt Sand	1667	1724	1667	1724							
Sd, Sh	1724	1800	1724	1800				gas	- 1800	•	
Maxon	1800	1838	1800	1838							
Sd, Sh	1838	1910	1838	1910							
L. Lime	1910	1937	1910	1937		_					
Sand	1937	1948	1937	1948							
Big Lime	1948	1988	1948	1988							
Keener	1988	2020	1988	2020							
Please insert ad		s as applicable. Drilling Corporatio	n								
Address P. O. B	ox 903	Drining Corporation	City	Jane Lew			State	w	_ Zip	26378	
Logging Comp	any Nabors C	completion & Prod	uction Services City	Co. Dallas			State	TX	Zip	75397-5682	
Cementing Cor	npany Univer	sal Well Services,							-		
Address P.O.B	lox 200969		City	Dallas			State	<u>TX</u>	_Zip	75320	
Stimulating Co Address P.O. B	lox 200969	ersal Well Service	es, Inc.	Dallas	_		State	<u>TX</u>	_ Zip	75320	
Completed by		s as applicable. kford	0		_	Telephone	618-395	-4405			_
Signature	Kale	WHACK	Title E	xecutive Vice	-Pres	sident		Date 9/	11/2014	4	
Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry											

Farm name: Yoder, Noah L. Emma Well number: J. E. Gum #4

API 47-085-10124

	Тор	Bottom	Тор	Bottom	
Lithology /	Depth in FT	Depth in FT	Depth in FT	Depth in FT	Described Rock Type and Record Quantity and
Formation	Name TVD	₩	MD	MD	Type of Fluid (Freshwater, Brine, Oil, Gas, H2S, etc.)
Big Injun	2020	2146	2020	2146	
Sd, Sh	2146	2428	2146	2428	
Berea	2428	2438	2428	2438	
Shale	2438	2578	2438	2578	
Total Depth	2578		2578		