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10/23/2015

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

API 47 - 087 - 04	1770 County RO	ANE	istrict SMITHFIE	LD
Quad LOONEYVILLE 7.			ield/Pool Name C	
Farm name NIDAY, ORLA			Well Number 209	
Operator (as registered with	the OOG) H.G. ENERG	YLLC		
Address 5260 DuPONT F	ROAD City	PARKERSBURG	State WV	Zip 26101
As Drilled location NAD Top I		drilled plat, profile view, and	deviation survey ng 475,489 M	
Landing Point of C		Eastin		
Bottom I	Iole Northing 4,284,797	M Eastin	g 475,301 M	
Elevation (ft) 1,162'	GL Type of W	ell ■New □ Existing	Type of Report	□Interim
Permit Type Deviated	□ Horizontal □ Ho	rizontal 6A D Vertical	Depth Type	□ Deep Shallow
Type of Operation □ Conve	rt 🗆 Deepen 🗂 Drill	□ Plug Back □ Redrilli	ing Rework	□ Stimulate
Well Type Rrine Disnose	1 □ CRM □ Gas ■ Oil	□ Secondary Recovery □ Sol	ution Mining	orage □ Other
Well Type & Brille Disposa	I debit dots doi!	becondary receivery a bon		- CEIVED
Type of Completion Sing	le 🗆 Multiple Fluids F	Produced Brine Gas	□ NGL # Oil	office of Oil and Gas
Drilled with □ Cable 📳	Rotary			
				Fresh Water Brine
Drilling Media Surface hol	e ∄ Air □ Mud ∄Fres	h Water Intermediate ho	le ∄Air □ Mud	Fresh Water Brine
Production hole Air	Mud 🗆 Fresh Water 🖺	Brine		WV Department of
Mud Type(s) and Additive(s)		E	WV Department nvironmental Protect
Date permit issued3/3	1/15 Date drilling	commenced4/22/15	Date drilling	ceased 4/27/15
Date completion activities be	FICIAL	Date completion activi	ties ceased	6/9/15
Contraction of the Contract of	1.1	anted		
		viii vii		
Please note: Operator is requ	uired to submit a plugging a	oplication within 5 days of ver	hal permission to r	dire
rease note. Operator is requ	ned to submit a plugging a	opheation within 5 days of ver	our permission to p	nug.
Freshwater depth(s) ft	None	Open mine(s) (Y/N) dep	oths	None
Salt water depth(s) ft	1840'	Void(s) encountered (Y.		None
Coal depth(s) ft	None	Cavern(s) encountered (None
Is coal being mined in area ((VN) N		report me kamin	
to some miles in their (Reviewed by:

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API 47- 087	_ 04770	Farm na	nme_NIDAY,	ORLANDO	В.	Well nu	mber_209		
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Bas	ket l	Did cement circulate (Y/ N) • Provide details below•	
Conductor	12 1/4"	11 5/8"	30'	Used	LS			Sand In	
Surface	8 3/4"	7*	592'	New	LS		64'	Y	
Coal							T T		
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	6 1/4"	4 1/2"	2452'	New	J-55			Υ	
Tubing									
Packer type and d	epth set								
Comment Details	Circulated Est. 50	sks to surface on 7° surf	ace cement job. Circ	ulated Est. 20 sks	to surface on 4 1	/2* cement job.			
CEMENT	Class/Type	Number			ield .	Volume	Cement	woc	
DATA Conductor	of Cement	of Sacks	wt (pp		³/sks)	<u>(ft.³.)</u>	Top (MD)		
Surface	D •••				10	4=:			
Coal	Reg Neat	145	15.6	5 1	.18	171	Surface	8	
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production Production									
Tubing	50:50 Pozmi	x 100/125	13.2/14	4.2 1.6	4/1.27	164/186	Surface	8	
Drillers TD (f) Deepest format Plug back prod	tion penetrated	Big Injun		Loggers T Plug back					
Kick off depth Check all wirel	-	≅ caliper	density resistivity		ed/directiona ray			⊐sonic	
Well cored \Box	Yes 🖺 No	Conventio	nal Sidev	vall	Were	cuttings col	llected 🛮 Y	N/ED	
		ZER PLACEME	NT USED FO	R EACH CA	ASING STRI	NG	Office	of Oil and	
								AUG 2 7 2015	
WAS WELL C	OMPLETED A	AS SHOT HOLE	□ Yes 🛔	No DE	TAILS		W' Envir	v Department of onmental Protecti	
WAS WELL C	OMPLETED	PEN HOLE?	□ Yes 🖪 No	o DETA	AILS				
WERE TRACE	RS USED D	Yes 🖪 No	TYPE OF T	RACER(S) U	SED			10/23/2 0	

API 47- 087 - 04770 Farm name NIDAY, ORLANDO B. Well number 209

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	5/6/15	2368'	2378'	40	Big Injun
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\sqcup		<u> </u>			
					

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	6/9/15	5	548	1442	592	2,500	149		ı
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								RECEIVED to of Oil and G	_
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							Olli	, a di	
		:			·			AUG 2 7 2015	
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								w conartmen	(OI
							V	Pro Proposited Pro	(SC(101)
							Env	IV Departmen	

Please insert additional pages as applicable.

Please insert additional pages as applicable.

Completed by Roger Heldman Signature

2218

2322

2322

2383

2510

Shale

TD

Drilling Contractor Decker Drilling					
Address 11565 State Route 676	City	Vincent	State	ОН	Zip 45784
Logging Company Weatherford International					
Address 777 North River Avenue	City	Weston	State		Zip 26452
Cementing Company Universal Services					Zip 26201 RECEIVED Gas
Address Hall Rd	City	Buckhannon	State	WV	Zip 26201 Oil and Gas
Stimulating Company Producers Service Corp.					Zip 43701 AUG 2 7 2015
Address 109 South Graham Street	City	Zanesville	State	ОН	Zip 43701 AUG 2
Please insert additional pages as applicable.					cortment o

2510

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

Telephone 304-420-1107

Date 8/24/15

87.04770

Prepared for: I G Energy Dustin Hendershot 04-481-7342 INVOICE #: 18519 WELL NAME: P A Bays 209 COUNTY/STATE: Roane/WV TOWNSHIP/FIELD: Clover Field DATE of SERVICE: 6/9/2015	PRODUCERS SERVICE CORP.]] ;	Producers Service Daniel L. Grahan 109 S. Graham Zanesville, OH 740-454-6253	m St.
CUSTOMER PO#:	Notes	Amount	Units	Unit Cost	Total Cost
Description	Notes	<u> </u>			
LUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA EA	•	
SI ENDER CHARGE 0-10 BPM	045000	<u> </u>	MI	-	
NILEAGE CHARGE PER UNIT ONE WAY	2 Units @150Miles	250	GAL	•	
C ACID 15%	 	0.5			
PRO HIB II		2	ĺ	•	
ACID DELIVERY		15			
PRO CLA LOK (KCL SUBSTITUTE)		5		[
PRO NE-21		150	LB		
PRO GEL 4 BUFFER I		50			
BUFFER II		50		_	
BIO CLEAR 750		1		-	
AP BREAKER		15		Ļ	
BXL-A		10		-	
BXL-10C		25		}	
SAND 20/40 OTTAWA			TMILE	†	
SAND DELIVERY / TON MILES		1 1		†	
DATA VAN			1	Ť	
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Customer Approval:	_				
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Office of Oil and Gas

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WV Department of Protection

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