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

API <u>47</u> 087 04	PI <u>47</u> 087 - 04774 County ROANE				District SMITHFIELD				
Quad LOONEYVILLE 7.5	ame SMITH, ELKAN		Field/Pool Name CLOVER						
Farm name NIDAY, ORLA	NDO B.		Wel						
Operator (as registered with t	the OOG) H.G. EN	ERGY LLC							
Address 5260 DuPONT R	OAD	City PARKERSBU	RG S	State WV	_{Zip} _26101				
As Drilled location NAD 8 Top he Landing Point of Cu Bottom H	ole Northing 4.2 Irve Northing		Easting _	•					
Elevation (ft) 1,162'	GL Typ	e of Well #New 🗆 E	xisting	Type of Report	OInterim #Final				
Permit Type 📱 Deviated	□ Horizontal	□ Horizontal 6A □	Vertical	Depth Type	□ Deep 🛔 Shallow				
Type of Operation Conver	rt □ Deepen 💆	Drill 🗆 Plug Back	□ Redrilling	□ Rework	□ Stimulate				
Well Type Brine Disposal	□ CBM □ Gas 🖺	Oil	overy 🗆 Solutio	n Mining 🗆 Sto	orage 🗆 Other				
Type of Completion Single Drilled with Cable BR	e □ Multiple F lotary	uids Produced 🛘 Brin	e □Gas □1	NGL AOil	□ Other				
Drilling Media Surface hole			ermediate hole	■ Air □ Mud Offic	RECENTATE OF Brine Ce of Oil and Gas				
Mud Type(s) and Additive(s) N/A)				SEP 0 8 1915				
				Mill	<u> </u>				
Date permit issued4/1	7/15 Date dr	illing commenced	4/28/15		eased 4/30/15/ion				
Date completion activities beg	gan5/6/1	Date com	pletion activities	ceased	6/9/15				
Verbal plugging (Y/N)	N Date permiss	ion granted	G	ranted by					
Please note: Operator is requ	ired to submit a plug	ging application within	5 days of verbal	permission to p	lug				
Freshwater depth(s) ft	None	Open mine	(s) (Y/N) depths	i	None				
Salt water depth(s) ft	1840', 1970'	•	countered (Y/N)		None				
Coal depth(s) ft	None	Cavern(s)	encountered (Y/I	N) depths	None				
Is coal being mined in area (Y	//N)	N			Reviewed by:				

API 47- 087	7 - 04774	Farm na	me_NIDAY, (ORLANDO	В.	Well	number_21	3	-
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade		Basket Depth(s)		nent circulate (Y/ N) ide details below*
Conductor	12 1/4"	11 5/8"	30'	Used	LS		(-)	1	Sand In
Surface	8 3/4"	7"	592'	New		LS	64'		Y
Coal					1				
Intermediate 1					 			1	
Intermediate 2					 				·
Intermediate 3								 	
Production	6 1/4"	4 1/2"	2602.8'	New	<u> </u>	J-55		<u> </u>	Y
Tubing					<u> </u>			+	<u> </u>
Packer type and o	lepth set	L						1	
Comment Details	Circulated Est. 50 si	ks to surface on 7° surfa	ace cement jab. Circu	slated Est. 25 sks	s to surface o	in 4 1/2" cement jo	eb		
CEMENT	Class/Type	Number	Slurry		Yield	Volume	Ceme		woc
DATA Conductor	of Cement	of Sacks	wt (pp	g) (N	(ft ³/sks)		Top (MD)		(hrs)
Surface	Pog Nost				1.40	474			
Coal	Reg Neat	145	15.6		1.18	171	Surfa	ece .	8
Intermediate 1									
Intermediate 2						<u> </u>			
Intermediate 3	!						_		
Production	50:50 Pozmix	110/125	12 2/14	2 46	4/4 07	400/400	60	,	
Tubing	30.30 POZITIK	110/125	13.2/14	1.0	4/1.27	180/186	00	'	8
Drillers TD (ft Deepest forma Plug back pro	tion penetrated _	3ig Injun		Loggers T Plug back					
Kick off depth		■ caliper	density	■ deviate			luction mperature	□soni	c
Well cored [Yes 🖪 No	Convention	nal Sidew	all all	w	ere cuttings (collected •	Yes t) No
	HE CENTRALIZ rom bottom on 4 1/2*, Contrata		NT USED FOI	R EACH CA	ASING S	TRING			
							BECH.	V-17	
						Offi	ਹਰ ਹਾਂ ਹ ੀ		
WAS WELL C	COMPLETED A	S SHOT HOLE	□ Yes 🛔	No DE	ETAILS		SEP-0	8-2015	
WAS WELL C	COMPLETED O	PEN HOLE?	□ Yes ■ No	DET/	AILS _		V Depai		t of
WERE TRACI	ERS USED D	Yes ■ No	TYPE OF TR	ACER(S) I	JSED	LITT.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Jonath -

API 47- 087 - 04774 Farm name NIDAY, ORLANDO B. Well number 213

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	. Formation(s)
1	5/6/15	2498'	2508'	40	Big Injun
					.,
	<u> </u>				
				1	
 		<u>; </u>			
				 	
 					
\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 (bbls)	Amount of Nitrogen/other (units)
_ 1	6/9/15	5	1006	2184	423	2,500	150	
		•						
<u> </u>					· ·			
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<u> </u>				1				
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							251	0 8 2015
							18075	
							AAA De	partment of
		<u></u>				=====================================	<u>hvironm</u>	misi Protection

Please insert additional pages as applicable.

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API 47- 08	7 _ 04774		Farm	name_NIDAY,	ORLAND	Ю В.	Well	numbe	_r 213	
PRODUCING Big Injun	FORMATION	ON(S)	-	<u>DEPTHS</u> 2193'- 2210'	_ TVD	2489'- 2516'	MD			
Please insert a					_					
GAS TEST	□ Build up	□ Dra	wdown	□ Open Flow		OIL TEST	Flow t	Pump):	
SHUT-IN PRE	ESSURE !	Surface		psi Botto	om Hole	psi	DURA	TION (OF TES	T hrs
OPEN FLOW		mcfpd		NGL bpd					JRED I □ Ori	BY fice □ Pilot
LITHOLOGY/ FORMATION	TOP DEPTH IN NAME TV	FT DE	OTTOM PTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN	FT DESCRIBE				D QUANTITYAND NE, OIL, GAS, H ₂ S, ETC)
Sand/Shale	0		1456	0	1476					,,,,,
Sand	1456		1538	1476	1566					
Shale	1538		1560	1566	1592					
Sand	1560		1637	1592	1682					
Shale	1637		1696	1682	1752					
Sand	1696		2002	1752	2184					
Little Lime	2002		2032	2184	2234	3				
Pencil Cave	2032		2042	2234	2250					
Big Lime	2042		2161	2250	2440					
Keener	2161		2193	2440	2489					
Big Injun	2193		2210	2489	2516	D	rilled direc	tional S	27° W a	distance of 822'
Shale	2210		2282	2516	2630					
TD	2282			2630						
lease insert ac			olicable.							
ddress 11565	State Route 67	6		City	Vincent		State	ОН	Zip	45784
ogging Comp	any Weather	ford Inter	rnational							
ddress 777 No	rth River Aveni	ue		City	Weston		State	WV	Zin	26452
	7.70			City	-		_ State		z.ip	RECEIVED
Cementing Cor Address Hall Rd		isai serv	ices	City	Buckhannor	n	State	wv	Zip	262011 Oll and Ga
timulating Co			ervice Co		Zanesville			ОН	Zin	SEP 0 8 2015
lease insert ad			licabla	City	and the same		_State	700	/\/\	/ Done
completed by			neaute.			Telephone	304-420	-1107	minu	/ Department of http://tai/Protecti
ignature	San	begg	1-	Title Or	perations Mar			Date 8	/25/15	

87.04774

Prepared for: H G Energy

Dustin Hendershot

304-481-7342



Prepared by:

Producers Service Corp

Daniel L Graham

109 S. Graham St.

Zanesville, OH 43702

Total Cost

740-454-6253

INVOICE #: 18518

WELL NAME: E Smith 213

COUNTY/STATE: Roane/WV

TOWNSHIP/FIELD: Clover Field

DATE of SERVICE: 6/9/2015

CUSTOMER PO#:

Customer Approval: _

Description	Notes	Amount	Units	Unit Cost	
FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS		1	EA		
BLENDER CHARGE 0-10 BPM		1	EA		
MILEAGE CHARGE PER UNIT ONE WAY	2 Units @150Miles	150	MI		
IC ACID 15%		250	GAL		
PRO HIB II		0.5			
ACID DELIVERY		2	HR		
PRO CLA LOK (KCL SUBSTITUTE)		15			
PRO NE-21		5			
PRO GEL 4		150			
BUFFERI		50	LB		
BUFFER II		50			
BIO CLEAR 750		1	LB		
AP BREAKER		15			
BXL-A		10			
BXL-10C		10	GAL	1	
SAND 20/40 OTTAWA	do.	25			
SAND DELIVERY / TON MILES		100			
DATA VAN		1	STAGE		
DATA VAIV		1	1	1	
			1	1	
				1	

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OHIGE	of Oil and Gas	

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