1× 1/21/15 E 08/21/2015

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

API 47 - 087	04765	County ROANE		District SN	11THFIELD)	
Quad LOONEYVILLE	LOONEYVILLE 7.5' Pad Name IVY FISCHER Field/Pool Name CLOVER						
Farm name KING, WIL							
Operator (as registered w	rith the OOG) H.C	G. ENERGY LLC				_	
Address 5260 DuPON		City PAR	KERSBURG	State _	W	_{Zip} <u>261</u>	01
Landing Point of Botto	op hole North of Curve North m Hole North	Attach an as-drillec ning 4,285,298 M ing ing	Eas	ting <u>476,298</u> ing	M		
Elevation (ft) 1,038'	GL	Type of Well	New Existing	Type o	f Report □l	Interim 🖶 Fi	inal
Permit Type Devia	ated Horizo	ntal Horizont	al 6A 🖪 Vertical	Depth	Туре 🗆	Deep 🖪	Shallow
Type of Operation □ Co	onvert 🗆 Deepe	n 🛮 Drill 🖂	Plug Back □ Redri	lling 🗆 F	Rework □	Stimulate	
Well Type □ Brine Disp	oosal 🗆 CBM 🗖	Gas □ Oil ■ Seco	ondary Recovery S	olution Mini	ing □ Stora _l	ge 🗆 Other	
Type of Completion ■ S Drilled with □ Cable	-	Fluids Produc	ed □ Brine □Gas	nGL	B Oil □	Other	
Drilling Media Surface	hole Air 🗆	Mud ■Fresh Wat	er Intermediate	hole 🖪 Air	□ Mud I	Fresh Wate	er 🗆 Brine
Production hole 🖪 Air	□ Mud □ Fres	sh Water 🖪 Brine					
Mud Type(s) and Additi	ve(s)						
Date permit issued		Date drilling comm			drilling cea		/20/15
Date completion activities	<u> </u>		Date completion act			•	
Verbal plugging (Y/N)	N Date	permission granted		Granted	by		
Please note: Operator is	required to submit	a plugging applica	tion within 5 days of v	erbal permi	ssion to plug	;	Received fice of Oil & Gas JUL 3 0 2015
Freshwater depth(s) ft	Non	e	Open mine(s) (Y/N)	lepths		None Of	fice the solf
Salt water depth(s) ft	40001 47401			Void(s) encountered (Y/N) depths			JUL 3 0 LOIS
Coal depth(s) ft	None		Cavern(s) encountere	d (Y/N) dep	ths	None	
Is coal being mined in ar	ea (Y/N)	N				Reviewed	

Rev. 8/23/13									<u> </u>
API 47- 087	- 04765	Farm n	ame_KING, W	/ILLIE		W	ell number_	111	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ement circulate (Y/ N) ovide details below*
Conductor	12 1/4"	11 5/8"	30'	Used		LS			Sand In
Surface	8 3/4"	7"	507'	New		LS	64'		Υ
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	6 1/4"	4 1/2"	2236.3'	New	J	I-55			Υ
Tubing									
Packer type and de	epth set								
CEMENT DATA	Class/Type of Cement	Numbe of Sack			Yield t ³/sks)	Volum (ft ²)		Cement op (MD)	WOC (hrs)
Conductor									
Surface	Reg Neat	130	15.0	6	1.18	153		Surface	8
Coal									
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	50:50 Pozm	ix 75/12	5 13.2/1	4.2 1.6	64/1.27	123/1	36	67'	8
Tubing									<u> </u>
Drillers TD (ft) Deepest format Plug back produced	tion penetrated	Big Injun		Loggers 7 Plug back					
Kick off depth	(ft)								
Check all wire	line logs run	■ caliper ■ neutron	■ density ■ resistivity		ted/directi a ray		induction temperatu	re □so	nic
Well cored	Yes 🖪 No	Conventi	onal Side	wall	W	ere cuttin	gs collected	d ■ Yes	□ No
		IZER PLACEM alizer placed mid string on r	ENT USED FO	OR EACH C	ASING S	TRING .			
								MARE	Mad Gas
								Man	Oll G. Cus
WAS WELL C	COMPLETED	AS SHOT HOLI	E □Yes ■	No D	ETAILS		0	HICE CI	30 5012 Oll 8 Case
WAS WELL C	COMPLETED	OPEN HOLE?	□ Yes ■ N	√o DET	AILS _				
WERE TRAC	FRS USED 6	Ves No	TYPE OF T	RACER(S)	IISED		· <u></u>		

API 47- 087 - 04765 Farm name KING, WILLIE Well number 111

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/7/15	2074'	2084'	40	Big Injun
	7,7,7,0				
				ļ	

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	7/9/15	5	999	1426	1010	2,500	170	
-								
								alved
							R	acon 8 Gaz
							SICE	CI OII
							Ottios	acelved Ci Oil & Gas Oil 3 0 2015
							7	Or a

Please insert additional pages as applicable.

WR-35 Rev. 8/23/13

API 47- 087 - 04765		Farm	_{name} KING, W	/ILLIE	Well number 111				
PRODUCING I	FORMATION(S	<u>s</u>) _	<u>DEPTHS</u>						
Big Injun			2063'- 2094'	TVD		MD			
- Jig injun		<u> </u>		_ 1 V D _	•	NID			
									
			 						
Please insert ad	ditional pages a	s applicable.							
				_					
GAS TEST	□ Build up □	Drawdown	□ Open Flow	C)IL TEST □ F	Flow Pump			
SHUT-IN PRES	SSURE Surfa	ace	_psi Botto	m Hole	psi	DURATION C	OF TEST hrs		
OPEN FLOW	Gas	Oil	NGL	•	Water	GAS MEASU	RED BY		
	mcf	pd 1	ppd	bpd	bpd	□ Estimated	□ Orifice □ Pilot		
LITHOLOGY/	TOP	BOTTOM	TOP	BOTTOM					
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT				RECORD QUANTITY AND		
0	NAME TVD	TVD	MD	MD_	TYPE OF FL	UID (FRESHWAT	ER, BRINE, OIL, GAS, H ₂ S, E	ETC)	
Sand/Shale	0	1342	0						
Sand	1342	1408							
Shale	1408 1436	1436 1478					<u> </u>		
Sand Shale	1478	1592							
Sand	1592	1732			+				
Shale	1732	1816			_				
Sand	1816	1942							
Big Lime	1942	2044			 			-	
Keener	2044	2063			_		· · · · · · · · · · · · · · · · · · ·		
Big Injun	2063	2094							
Shale	2094	2300							
TD	2300								
Please insert ad	ditional pages a	s applicable.	_ !						
D.:111' Ct	Decker Drill	ina							
Address 11565	Ctor Decker Drill	9	City	Vincent		State OH	Zip_45784		
Address 11303	Clate (Volle 070		City	- Tincont	 	_ State	Zip		
Logging Comp	any Weatherford	I International							
Address 777 No	rth River Avenue		City	Weston		State _WV	Zip <u>26452</u>		
	11-5	Saniana							
	npany Universal	Services	<u> </u>	Buckhannen		a \\\\	a: 26201		
Address Hall Rd	<u> </u>		City	Buckhannon		State	Zip 26201 Received	—	
Stimulating Co	Stimulating Company Producers Service Corp.					Affici	e of Oil & Gas		
Address 109 So	City	Zanesville		State	Zip 43701				
Please insert ad	lditional pages a	s applicable.				7	UL 30 2015		
Completed by Roger Heldman				Telephone 304-420-1107					
Signature	Du 14	uh	Title O	perations Man	ager	Date 7	/27/15		
Submittal of Hy	ydraulic Fractur	ing Chemical 1	Disclosure Info	rmation	Attach copy o	f FRACFOCUS	Registry		

Prepared by: Prepared for: **Producers Service Corp** H G Energy Daniel L Graham 109 S. Graham St. **Dustin Hendershot** Zanesville, OH 43702 SERVICE CORP. 304-481-7342 740-454-6253 18545 INVOICE #: I M Fischer 111 WELL NAME: Roane/WV COUNTY/STATE: TOWNSHIP/FIELD: Clover Field 7/9/2015 DATE of SERVICE: **CUSTOMER PO#:** Amount Units **Unit Cost** Notes Description FLUID PUMP CHARGE 0-3000 PSI MIN CHARGE 4 HRS 1 EA 1 EA **BLENDER CHARGE 0-10 BPM** MILEAGE CHARGE PER UNIT ONE WAY 2 Units @150Miles MI 250 GAL IC ACID 15% 0.5 GAL PRO HIB II 2 HR ACID DELIVERY 15 GAL PRO CLA LOK (KCL SUBSTITUTE) 5 GAL PRO NE-21 150 LB PRO GEL 4 LB 50 **BUFFER I** LB 50 **BUFFER II** 1 LB **BIO CLEAR 750** 15 LB AP BREAKER 10 GAL BXL-A 10 GAL BXL-10C 25 **CWT** SAND 20/40 OTTAWA 100 TMILE SAND DELIVERY / TON MILES 1 STAGE DATA VAN

Customer Approval: ______ Received

Office of Oil & Gas

JUL 3 0 2015

Total Cost