## 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		County ROAN	E	District SMITHFI	ELD	
Quad LOONEYVILL	E 7.5'	Pad Name EPLI		Field/Pool Name	Sea State Ventile	
Farm name_FISCHEF	R, RICHARD 8			_ Well Number 12		
Operator (as registered		H.G. ENERGY LL	_C			
Address 5260 DuPO			RKERSBURG	State WV	Zip_	26101
		Attach an as-drill Northing 4,284,618 M	ed plat, profile view, a Ea	nd deviation survey sting 475,793 M		
Landing Point		orthing		sting		
Bott	tom Hole N	orthing 4,284,667 M	Eas	sting 476,077 M		
Elevation (ft) 1,189'	GL	Type of Well	■New □ Existing	Type of Repor	t 🗆 Interim	<b>∄</b> Final
Permit Type   Dev	riated   Ho	rizontal   Horizon	ntal 6A D Vertical	Depth Type	□ Deep	Shallow
Type of Operation 🗆 C	Convert □ De	epen 🖺 Drill 🗈	Plug Back 🗆 Redr	illing   Rework	□ Stimula	te
Well Type □ Brine Dis	sposal D CRM					
			condary Recovery 11 S	olution Mining D S	torage 🗆 O	ther
Type of Completion	Single   Multi	ple Fluids Produ	ced □ Brine □Gas	□ NGL A Oil	□ Other	
Drilled with   Cable	■ Rotary					
Drilling Media Surface Production hole Air Mud Type(s) and Addit N/A	□ Mud □ I	□ Mud		hole		Vater DBrine
Date permit issued	3/31/15	Date drilling comm	nenced 5/13/15	Date drilling	nasa Ottic	65/18/45 and
Date completion activities	es began	6/5/15	Date completion acti		6/30/15	
Verbal plugging (Y/N)	NI.	te permission granted		Granted by		AUG 2 7 2015
	11111111	N 10 10 10 10			1671	
Please note: Operator is						/ Departmen
	required to subr	nit a plugging applica	tion within 5 days of v	erbal permission to r	vv v olugEnviro	/ Departmen
	required to subr	nit a plugging applica	tion within 5 days of v	erbal permission to p	olugEnviro	/ Departmen Inmental Pro
Freshwater depth(s) ft	4.6	nit a plugging applica	tion within 5 days of v  Open mine(s) (Y/N) d		None	/ Departmen onmental Pro
	N 198	one 30'		epths	olugEnviro	onmental Pro
Freshwater depth(s) ft	N	one 30'	Open mine(s) (Y/N) d	epths	None	9

10/23/2015

WR-35									Page $\frac{2}{2}$ of $\frac{4}{2}$
Rev. 8/23/13	0.470.4							_	
API 47- 087	- 04/64	Farm na	ame_FISCHE	R, RICHAR	D & RO	NALD Wel	l number 12	0	·
CASING	Hole	Casing		New or	Grade		Basket	Did ce	ment circulate (Y/ N)
STRINGS	Size	Size	Depth	Used	wt/ft		Depth(s)		ride details below*
Conductor	12 1/4"	11 5/8"	30'	Used		LS		Sand in	
Surface	8 3/4"	7*	591'	New		LS	64'	Y	
Coal									
Intermediate I									
Intermediate 2									
Intermediate 3					1				
Production	6 1/4"	4 1/2"	2845.7	New	· .	J-55		Y	
Tubing								-	
Packer type and de	epth set			<u> </u>	<u> </u>	<u></u>		<del></del>	
CEMENT DATA Conductor	Class/Type of Cement	Number of Sacks	0.4		/ield 1 <sup>3</sup> /sks)	Volume	Cerne Top (N		WOC (hrs)
Surface	Reg Neat	150	15.6	,	1.18	177	Surfa	re	8
Coal	riog rical	100	13.0		1.10		Sulla	-	•
ntermediate 1	<del></del>	<del></del>							-
ntermediate 2									
ntermediate 3			_						-
roduction	50:50 Pozmix	125/125	42.00	40 40	4/4 07	205400			
ubing	30.30 P02111X	125/125	13.2/1	4.2 1.6	4/1.27	205/186	60'		8
						<u> </u>			
Orillers TD (ft)		No. 4 of the		Loggers T			·		
Plug back proc	ion penetrated <u>B</u>	olg Injun		Plug back	to (ft) <u>N/</u>	<del>\</del>			
rug back proc	edure 10A		··· ,						
			<del></del>						
lick off depth (	(ft) <u>650'</u>			<del></del>					
Thouse all suinal:	t	<b>5</b> 1'	n. 1. 1.						
Check all wireli	ne logs run	<ul><li>caliper</li><li>neutron</li></ul>	<ul><li>■ density</li><li>■ resistivity</li></ul>	4 deviate			duction	•	_
		B neutron	B resistivity	🛚 gamma	ray	<b>91 8</b>	emperature	□soni	c
Vell cored :	Yes A No	Convention	nal Sidev	vall	w	ere cuttings	collected 🖪	Yes r	n "N∕o
					**		- m	ECEN	and Gas
ESCRIBE TH	E CENTRALIZ	ER PLACEME	NT USED FO	R EACH CA	SING ST	TRING	MI	لنتئي	and
Contralizers overy 88 from	m bottom on 4 1/2°, Centraliz	er placed mid string on 7*					- Office	010	- 2015
								9	7 600
								AUO -	10-10-
_		S SHOT HOLE			TAILS		M,	N Deb	partment of Intel Protecti
AS WELL CO	OMPLETED AS	S SHOT HOLE	□Yes 🖺	No DE	TAILS		Eunit. M.	ODIUS 1 Deb	artme <del>nt of</del> ntal Protecti
AS WELL CO	OMPLETED AS		□Yes 🖺	No DE	<u> </u>		Eunit.	ouws N Det	partme <del>nt of</del> Intal Protecti
'AS WELL CO	OMPLETED AS	S SHOT HOLE	□Yes 🖺	No DE	<u> </u>		Eunit.	ouws N Det	artme <del>nt ot</del> ntal Protecti

API 47- 087 - 04764 Farm name FISCHER, RICHARD & RONALD Well number 120

## PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	6/24/15	2612'	2620'	32	Big Injun
					_
		··· <u>-</u> -···			
			-		
<del>                                     </del>					
				<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	6/30/15	5	530	1167	476	2,500	149	<u> </u>
						•		-
								<del> </del>
								_
				<del>                                     </del>			DECE	VED.
				<del>                                     </del>			HEUE	VED and Gas
						<del>  Off</del>	i <del>ce of Ot</del> l	and Gas
				<u> </u>				2015
1					<del></del>		AUG 2	7013
						l		
<b> </b>				<del> </del>		W	V Depa⊦	tment of
	<u> </u>			<u> </u>		L Fnvid	lonneed!	⊹ Protection _

Please insert additional pages as applicable.

Title Operations Manager Signature

Address 109 South Graham Street

Completed by Roger Heldman

Please insert additional pages as applicable.

Telephone 304-420-1107

State OH

Date WV Department of Attach copy of FRACEOCUS Registronmental Protection

Ziri43701 Oil and Gas

AUG 2 7 2015

Zanesville

City

87-04764

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

740-454-6253

INVOICE #: 18536

WELL NAME: A J Epling 120

COUNTY/STATE: Roane/WV

TOWNSHIP/FIELD: Clover Field

DATE of SERVICE: 6/30/2015

CUSTOMER PO#:

Customer Approval:

Description	Notes	Amount	Units	Unit Cost	Total 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	300	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	GAL		
PRO GEL 4		150	LB		
BUFFERI		50	LB		
BUFFER II		50	LB		
BIO CLEAR 750		1	LB	7	
AP BREAKER		15	LB		
BXL-A		10	GAL		
BXL-10C		10	GAL		
SAND 20/40 OTTAWA		25			
SAND DELIVERY / TON MILES		100			
DATA VAN		1	STAGE		
			1	-	
				-	
				-	
				-	

Office of Oil and Gas

AUG 2 7 2015

WV Department of Environmental Protection 10/23/2015