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

API 47 - 087 _ 04759 County RO.	ANE	District SMITHFIEL	.D
API 47 - 087 - 04739 County No.	MCGRAW, CHARLES	Field/Pool Name CL	OVER
		Well Number 114	
Farm name ATKINSON, DELORES	YIIC ·		
Operator (as registered with the OOG) Address 5260 DuPONT ROAD City	PARKERSBURG	State WV	Zip 26101
Top hole Northing 4,285,13 Landing Point of Curve Northing	Ea	asting 475,573 M	
Bottom Hole Northing 4,284,93	7 M Ea	asting 475,484 M	
Elevation (ft) 1,111' GL Type of V	Well □New ■ Existing	Type of Report	□Interim ■Final
Permit Type 📕 Deviated 🗆 Horizontal 🗆 He	orizontal 6A 🛮 🗆 Vertical	Depth Type	□ Deep 💄 Shallow
Type of Operation Convert Deepen Drill	-	drilling 🖪 Rework	■ Stimulate
Well Type □ Brine Disposal □ CBM □ Gas □ Oil	□ Secondary Recovery □	Solution Mining Sto	orage • Other Injection
Type of Completion ■ Single □ Multiple Fluids Drilled with □ Cable ■ Rotary			Other
Drilling Media Surface hole ■ Air □ Mud ■Fre		te hole 💄 Air 🗆 Mud	Fresh Water □ Brine
Production hole Air Mud Fresh Water	■ Brine		
Mud Type(s) and Additive(s) N/A			
Date permit issued 4/8/21 Date drillin	g commencedNA		
	Date completion	activities ceased	4/29/21
NI .	granted		
Verbal plugging (Y/N) Date permission	Eramoa		
Please note: Operator is required to submit a plugging	gapplication within 5 days	of verbal permission to	plug
None None	0mimo(a) (V/	N) depths	None
Freshwater depth(s) ft 1740'		red (Y/N) depths	None
Salt water depth(s) π		tered (Y/N) depths	None
Coal depth(s) ft None	Cavern(s) encoun	tered (1/14) depuis	
Is coal being mined in area (Y/N)			Reviewed by:

a de r

API 47- 087	04759	n	ame_ATKINS	ON DELO	RES		1	14	
API 4/	-	Farm n	ame_///	011, 5220		W	ell number_1		
CASING	Hole	Casing		New or	Grade		Basket		ment circulate (Y/ N
STRINGS Conductor	Size 12 1/4"	Size 11 5/8"	Depth	Used	wt/ft	C/NIA	Depth(s)	* Prov	vide details below*
Surface	8 3/4"	7"	30'	Used		S/NA			Existing
Coal	0 3/4	/	507'	New	L.	S/17	64'		Existing
Intermediate 1									
Intermediate 2									
Intermediate 3									
Production	6 1/4"	4 1/2"	2450.4'	New	1.5	5/10.5		_	Todaka a
Tubing	0 1/4	2 3/8"							Existing
Packer type and d	epth set	2 3/6	2174.9'	New	J-t	55/4.7			
CEMENT	Class/Type	sks to surface on 7" st	er Slurr	ry .	/ield	Volun	ne Ce	ment	WOC
DATA Conductor	of Cement	of Sack	cs wt (pr	og) (f	t ³/sks)	(ft ³)) Top	(MD)	(hrs)
Surface	Don Nort	400	457		1.18			rfan-	FT. 1.41
Coal	Reg Neat	130	15.6	0	1.10	153	Su	rface	Existing
Intermediate 1									
Intermediate 2									
Intermediate 3		_							
Production	50:50 Pozmi	x 100/12	5 13.2/1	12 16	4/1.27	164/18	96 Su	rface	Existing
Tubing	30.30 1 02111	100/12	.0 15.2/1	7.2	7/1.21	104/11	50 00	naco	LAISTING
D.111	0.400		ļ.		D (0) 040				,
Drillers TD (ft Deepest forma Plug back pro-	tion penetrated	Big Injun		Loggers T Plug back					
Kick off depth	(ft) <u>650'</u>								
Check all wire	line logs run	□ caliper □ neutron	□ density □ resistivity				induction temperature	□soni	c
Well cored	Yes 🚇 No	Conventi	onal Sidev	wall	W	ere cuttin	gs collected	□ Yes	■ No
DESCRIBE TI									
		AS SHOT HOLE							
WAS WELL C	OWI LETED F	is shot noti		140 151	TAILS				
WAS WELL C	COMPLETED C	PEN HOLE?	□ Yes 💄 N	o DETA	AILS _				
WERE TRACI	ERS USED 🗆	Yes No	TYPE OF T	RACER(S) U	JSED				

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WR-35 Rev. 8/23/13

API 47- 087 - 04759

Farm name ATKINSON, DELORES

Well number 114

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	7/24/18	2284'	2292'	48	Big Injun
	1,21,10				
-					
			J		

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	994	1957	604	2500	146	
1	7/27/18	3.5	1367	NA	490		12	2000 gals 15%
1	4/29/21	4.5	1278	1185	889	5000	99	

Please insert additional pages as applicable.

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Title Operations Manager

Submittal of Hydraulic Fracturing Chemical Disclosure Information

Signature

Attach copy of FRACFOCUS Registry

Prepared for:		rin .			Prepared by:	
	, F				Producers Service Corp	
HG	,,,				Joe Stevens	
					109 S. Graham St.	
Dustin Hendershot		PRODUCERS -	-			
Dustin Hendershot		SERVICE CORP.	-		Zanesville, OH 43702	
FIELD TICKET: 2	26314				740-454-6253	-
	CH McGraw 114					
	WV					
	Clover					
	1/29/2021					
CUSTOMER PO#:	114572021					
			7	T		T
Description		Notes	Amount	Units	Unit Cost	Total Cost
ACID PUMP CHARGE 0-1000	PSI		1			
FLUID PUMP CHARGE 0-300	0 PSI MIN CHARGE 4 HRS		1			
MILEAGE CHARGE PER UNI C ACID 15%	T ONE WAY		0			
IN INHIBATOR			250			
Acid Delivery			0.5	GAL	No and WA-	
PRO CLA FIRM LP			10			
PRO NE-21			10			
PRO GEL 4.0	j i		20			
BXL-A			10			
3XL-10C			10			
AP Breaker			10			
BIO CLEAR 750	6		1			
SAND 20/40 OTTAWA			50			
SAND DELIVERY / TON MILE	S			TMILE		
DATA VAN			1	STAGE		
			+			
			1			
	The second secon					
ustomer Approval:						

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From: Dustin A. Hendershot dhendershot@hgenergyllc.com

Subject: [External] CB Ferrell 110 4/29/21

Date: May 5, 2021 at 10:42:19 AM

To: Taylor, Joseph D Joseph D.Taylor@wv.gov

CAUTION: External email. Do not click links or open attachments unless you verify sender.

CB Ferrell 110 4/29/21

Clover Frac report

BDP - 1875 psig

Avg rate - 4.5 Bpm

Min TP - 1339 psig

Max TP - 1803 psig

Avg TP - 1464 psig

250 gals 15% HCl acid

Fluid bbls- 97 bbls cross link gel

20/40 sand- 5,000#

ISIP - 809 psig

5 min SIP - 479 psig

10 min SIP - 360 Psig

15 min SIP - 260 Psig

Frac report format

Treated Big Injun Perfs w/ 250 gals 15% HCL, 97 bbls cross linked gel, & 5,000# 20/40 sand- BDP- 1875 psig, Max TP- 1803 psig, Min TP- 1339 psig, Avg TP- 1464 psig, Avg TR- 4.5 BPM- ISIP- 809 Psig , 5 min SIP- 479 psig, 10 min SIP- 360 psig, 15 min SIP- 260 psig

Dustin A. Hendershot Drilling Engineer HG Energy Cell 1 - 304 481 7342