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

Pool Name Number JS COCH tate WV ation survey //A //A Type of Report Inter Depth Type	Zip 25302 rim Final eep Shallow mulate
Pool Name Number JS COCH tate WV ation survey //A //A Type of Report Inter Depth Type IRework Stirt in Mining IStorage	rim Final eep Shallow mulate
tate WV ation survey //A //A Type of Report Inter Depth Type I D Rework State in Mining I Storage	zip 25302 rim Final eep Shallow mulate
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Type of Report	mulate
Type of Report olinte Depth Type	mulate
Type of Report	mulate
Type of Report	mulate
Depth Type	mulate
□ Rework	mulate
Mining 🗆 Storage	Other
-	
IGL ■Oil □Otl	ier
BAir □ Mud □ F	resh Water 🗆 Brine
Date drilling ceased	
ceased12/3/	
anted by	N/A
anted by	
anieu by	
permission to plug	!
permission to plug	
permission to plug	N N
J	l permission to plug

Rev. 8/23/13									·	
API 47- 15	02883	Farm na	me_CHESSI	E CONNE	R, ET A	LWe	ll number_JS	COCHE	RAN 2A	
CASING STRINGS	Hole Casing Size Size		Depth	New or Used	Grade wt/ft		Basket Depth(s)	Did cement circulate (Y/N) • Provide details below•		
Conductor	14 1/4"	13 3/8"	30'	NEW	J-55 - 42 LBS		NONE	SAND -IN BY RIG		
Surface	12 1/4"	9 5/8"	377'	NEW	J-55 - 29 LBS		120'	 	YES	
Coal					 			 		
Intermediate 1	8 3/4"	7"	1902'	NEW	J-55	- 17LBS	335'		YES	
Intermediate 2										
Intermediate 3										
Production	6 1/4"	4 1/2"	2230'	NEW	J-55 - 10.5 LBS		NONE		YES	
Tubing										
Packer type and de	epth set			•				•		
Comment Details										
CEMENT DATA	Class/Type of Cement	Number of Sacks			Yield ft ³/sks)	Volume	Ceme		WOC (hrs)	
Conductor	CLASS I	10 - RiC					GROUND	1	8	
Surface	CLASS I	130	15.	6	1.18	153.4	GROUND	LEVEL	8	
Coal									•	
Intermediate 1	CLASS I	120		6	1.18 141.6		GROUND LEVEL		8	
Intermediate 2									·	
Intermediate 3										
Production	CLASS I	212	15.	6	1.40	296.80	147	5'	8	
Tubing										
Drillom TD (8) 2517 Locase TD (8) 2252										
Drillers TD (ft) 2517 Loggers TD (ft) 2252 Plug back to (ft)										
•				_ 1 lug vaci	(11)	***	-	400	,	
Drillers TD (ft) 2517 Loggers TD (ft) 2252 Deepest formation penetrated Squaw Plug back to (ft) Plug back procedure Kick off depth (ft) AUG - 3 205										
Kick off depth	(ft)							AUG	- 3 2019	
Check all wireline logs run Caliper										
Well cored =	Yes 🖪 No	 Convention 	onal Side	wall	W		gs collected			
DESCRIBE T	HE CENTRAL	IZER PLACEME	ENT USED FO	OR EACH (ASING S	TRING 9	ENTRALIZERS RUI	N ON 4 1/2" .	JOINTS 1, 3, 5, 7	
WAS WELL (COMPLETED A	AS SHOT HOLE	□ Yes ■	No D	ETAILS					
WAS WELL (COMPLETED (OPEN HOLE?	□ Ycs ■ N	No DET	TAILS _					

WERE TRACERS USED O Yes No TYPE OF TRACER(S) USED

API 47- 15 _ 02883 Farm name CHESSIE CONNER, ET AL Weil number JS COCHRAN 2A

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD fl.	Number of Perforations	Formation(s)
1	11/19/2012	2016'	2034'	12	INJUN
2	11/19/2012	2044'	2052'	8	INJUN
3	11/19/2012	2086'	2100'	20	SQUAW
	<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	11/19/12	19	1777	1882	1776	15,200	318	0
2	11/19/12	16.4	2303	2760	2760	15,100	263	0
							5000	MVeu
							ALL PROPERTY	wed
								- 3 2015
							AUG	- 3 2010
							,	
								ot Oil and Gas wirenmental Protection
							Office Control E	ivitonmental 110
						<u> </u>	MA Dob.	
								_

Please insert additional pages as applicable.

Rev. 8/23/13										
API 47- 15	_ 02883	Farm	name CHESSI	E CONNEF	R, ET AL	Well n	umber_	JS CC	CHRAN 2	<u>A</u>
PRODUCING 1	FORMATION(S	<u>s)</u> .	<u>DEPTHS</u>							
INJUN			2034' - 2052'	TVD		MD				
				_ 140 _		141D				
SQUAW			2052' - 2098'							
Please insert ad	ditional pages a	s applicable.				_				
GAS TEST	Build up □	Drawdown	□ Open Flow	Oi	L TEST 🛢 I	Flow 🗆	Pump			
SHUT-IN PRE	SSURE Surf	ace 200	_psi Botto	m Hole	psi	DURAT	O NO	F TES	r <u>12</u>	hrs
OPEN FLOW	Gas 10 mcf	Oil pd 7	NGL bpd	bpd	ater bpd					ot
LITHOLOGY/	ТОР	воттом	TOP	воттом						
FORMATION	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DEPTH IN FT	DESCRIBE 1	ROCK TYP	E AND I	RECORI	QUANTITYA	ND
	NAME TVD	TVD	MD	MD	TYPE OF FL	UID (FRE	SHWATE	R, BRI	NE, OIL, GAS,	H₂S, ETC)
SAND/SHALE	0	346'	0							
SALT SANDS	346'	538'								
SAND/SHALE	538'	1266'	<u> </u>							
LITTLE LIME	1266"	1750'			-					d
PENCIL CAVE	1750'	1996'	ļ							2U
BIG LIME	1996'	2015'			 				<u> </u>	
SAND/SHALE	2015'	2052'			.				2 0	<u> </u>
BIG INJUN	2034'	2052'	-		 				UG - 3 2	713
SQUAW	2052"	2098.	1							
SAND/SHALE	2098'	TD							lifice of Oil and	d Gas
								O loca v	of Environme	ntal Protection
					 		W	A Debr		
					-					
Please insert ac	l Iditional pages a	s applicable.								
Drilling Contra	ctor R&R WELL	. SERVICE								
Address AMBLE	R RIDGE		City	WALTON		State	w	_ Zip	25286	
Lessing Comp	any NABORS C	OMPLETION 8	RODUCTION	. CO.						
Address 82 ELF	KINS ROAD		City	BUCKHANN	ON	State	<u>w</u>	Zip	26201	
Comenting Co.	nnony UNIVERS	SAL WELL SE	RVICE							
Cementing Company UNIVERSAL WELL SERVICE Address 5 HALL ROAD				BUCKHANNO	N	State	w	_ Zip	26201	
Stimulating Co	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ERVICE	BUCKHANN	ON.	C4-4-	w	7:	26201		
Address 5 HALI	Iditional pages a	 s applicable.	City	DOO! INIM		State		∠ ıp		
_	DANIELLE N. 8				Telephone	304-344	-9291			
Signature	ale 1.	Joan	Title O	PERATIONS N	ANAGER		Date 7/	29/201	5	
Submittal of H	ydraulic Fractur	ing Chemical) U Disclosure Info	rmation A	Attach copy o	f FRACI	OCUS	Regist	ry	