WR-35 Rev. 8/23/13

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

API <u>47</u>	County	D	istrict	
Quad	Pad Name	F	ield/Pool Name _	
Farm name			Well Number	
Operator (as registered with the	ne OOG)			
Address	City		State	Zip
As Drilled location NAD 8 Top ho Landing Point of Cu Bottom Ho	ole Northing rve Northing	Eastin	ng	
Elevation (ft)	_ GL Type of Well	□New □ Existing	Type of Report	□Interim □Final
Permit Type Deviated	□ Horizontal □ Horizont	tal 6A	Depth Type	□ Deep □ Shallow
Type of Operation □ Conver	t 🗆 Deepen 🗆 Drill 🗆	Plug Back Redrilli	ing □ Rework	□ Stimulate
Well Type ☐ Brine Disposal	□ CBM □ Gas □ Oil □ Seco	ondary Recovery	ution Mining 🗆 St	torage Other
	e Multiple Fluids Productory	ced □ Brine □Gas	□ NGL □ Oil	□ Other
_	e □ Air □ Mud □Fresh Wat Mud □ Fresh Water □ Brine		ole □ Air □ Muo	d □ Fresh Water □ Brine
Date permit issued	Date drilling comm	nenced	Date drilling	ceased
Date completion activities beg	gan	Date completion activi	ities ceased	
Verbal plugging (Y/N)	Date permission granted	1	Granted by	
Please note: Operator is requi	ired to submit a plugging applica	ation within 5 days of ver	rbal permission to J	plug
Freshwater depth(s) ft		Open mine(s) (Y/N) de	pths	
Salt water depth(s) ft				
		Cavern(s) encountered	(Y/N) depths	
	//N)			
				Reviewed by:

API -	47	Farm name				Well number						
					P	ERFORAT	ION R	ECORD				
Stage No.	Perforation	date		rated from ID ft.		forated to MD ft.		Tumber of erforations			Formation(s)
	+	*PL	EA	SE S	EE	ATI	' A(CHE	DΕ	XHI	BIT 1	
Please	e insert addition	onal page	es as app	olicable.								
				STIN	MULAT	TION INFO	RMA'	ΓΙΟΝ PER S	STAGE			
Comp	lete a separat	e record	for each	stimulation	stage.							
Stage No.	Stimulations Date	Ave Pu Rate (B	amp SPM)	Ave Treatm Pressure (P		Max Breakd Pressure (P		ISIP (PSI)		nount of opant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	+	*PI	FΔ	SF S	SFF	- - ДТ	ΤΔ	CHF	D F	XH	BIT 2	2
		 	- -			_		· · · · ·		-2		-

Please insert additional pages as applicable.

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API 47			Farm	name_					Well nu	mber		
PRODUCING	FORMAT	TION(S)	-			TVD			MD			
Please insert ac	•	-		□ Оре	en Flow		OIL	TEST 🗆	Flow 🗆 🛚	Pump		
SHUT-IN PRE	SSURE	Surface _		psi	Botto	om Hole_		psi	DURATI	ON OF TEST _	hrs	3
OPEN FLOW										EASURED BY ated \Box Orifice	□ Pilot	
LITHOLOGY/ FORMATION		N FT DE	PTH IN FT	DEPT	ΓΗ IN FT		N FT			AND RECORD QU HWATER, BRINE, C		
	*P	LEA	SE	SE	EA	ATT#	/C	HEC	EXI	HIBIT 3		
Please insert ac	<u> </u> lditional p	ages as app	olicable.									
Drilling Contra	ictor				City				State _	Zip		
Logging Comp	any									Zip		
Cementing Cor	mpany						_			Zip		
					City		_		State _	Zip		
Please insert ac	iditional p	ages as app	oncable.									
Completed by							_	Telephon	e			
Signature					Title _				D	ate		
Submittal of H	ydraulic F	racturing C	Chemical	Disclos	sure Info	rmation	Att	ach copy	of FRACFO	CUS Registry		

	API 47-095-02287 Farm Name Terry L. Snider Well Number Tinker Unit 2H									
	EXHIBIT 1									
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations					
1	11/24/2017	15120	15289	60	Marcellus					
2	11/24/2017	14920	15089	60	Marcellus					
3	11/24/2017	14720	14889	60	Marcellus					
4	11/25/2017	14520	14689	60	Marcellus					
5	11/26/2017	14320	14489	60	Marcellus					
6	11/27/2017	14120	14289	60	Marcellus					
7	11/28/2017	13920	14088	60	Marcellus					
8	11/28/2017	13720	13888	60	Marcellus					
9	11/29/2017	13520	13688	60	Marcellus					
10	11/29/2017	13319	13488	60	Marcellus					
11	11/29/2017	13119	13288	60	Marcellus					
12	11/30/2017	12919	13088	60	Marcellus					
13	11/30/2017	12719	12888	60	Marcellus					
14	12/1/2017	12519	12688	60	Marcellus					
15	12/1/2017	12319	12488	60	Marcellus					
16	12/1/2017	12119	12288	60	Marcellus					
17	12/2/2017	11919	12088	60	Marcellus					
18	12/3/2017	11719	11888	60	Marcellus					
19	12/3/2017	11519	11687	60	Marcellus					
20	12/4/2017	11319	11487	60	Marcellus					
21	12/4/2017	11119	11287	60	Marcellus					
22	12/4/2017	10918	11087	60	Marcellus					
23	12/5/2017	10718	10887	60	Marcellus					
24	12/5/2017	10518	10687	60	Marcellus					
25	12/7/2017	10318	10487	60	Marcellus					
26	12/9/2017	10118	10287	60	Marcellus					
27	12/10/2017	9918	10087	60	Marcellus					
28	12/11/2017	9718	9887	60	Marcellus					
29	12/12/2017	9518	9687	60	Marcellus					
30	12/14/2017	9318	9486	60	Marcellus					
31	12/15/2017	9118	9286	60	Marcellus					
32	12/16/2017	8918	9086	60	Marcellus					
33	12/17/2017	8717	8886	60	Marcellus					
34	12/18/2017	8517	8686	60	Marcellus					
35	12/19/2017	8317	8486	60	Marcellus					
36	12/20/2017	8117	8286	60	Marcellus					
37	12/21/2017	7917	8086	60	Marcellus					
38	12/22/2017	7717	7886	60	Marcellus					
39	12/23/2017	7517	7686	60	Marcellus					
40	12/26/2017	7317	7486	60	Marcellus					
41	12/27/2017	7117	7285	60	Marcellus					
42	12/29/2017	6917	7085	60	Marcellus					

				API 47-095-02287 Farm Name Terry L. Snider Well Number Tinker Unit 2H									
	EXHIBIT 2												
Stage No.	Stimulations Date	Avg Pump Rate	Avg Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/ other (units)					
1	11/24/2017	74.5	7105		2806	9911	10239.8	N/A					
2	11/24/2017	74.6	7148	5789	2902	15839	10407.8	N/A					
3	11/24/2017	74.2	7347	5860	3176	16383	10396.3	N/A					
4	11/25/2017	72.6	7469	5565	4166	17200	11643.3	N/A					
5	11/26/2017	61.1	7532	5590	4848	17970	10471.7	N/A					
6	11/27/2017	69.6	7752	5382	4704	17838	18006.9	N/A					
7	11/28/2017	69.9	7393	5308	3292	15993	10877.5	N/A					
8	11/28/2017	74.8	7315	5354	3517	16186	10506.2	N/A					
9	11/29/2017	73.7	7184	5287	3589	16060	10923.7	N/A					
10	11/29/2017	70.3	6975	5319	3267	15561	10342.8	N/A					
11	11/29/2017	74.2	6986	5145	3561	15692	10560.3	N/A					
12	11/30/2017	76.5	7212	5201	4764	17177	11429.4	N/A					
13	11/30/2017	77	7138	5492	3555	16185	10666.8	N/A					
14	12/1/2017	68.6	6792	5449	3728	15969	11880.4	N/A					
15	12/1/2017	70.3	6921	5122	3905	15948	12379	N/A					
16	12/1/2017	72.1	7119	5074	4543	16736	12017.5	N/A					
17	12/2/2017	64.9	6928	5527	6189	18644	8943.4	N/A					
18	12/3/2017	67	6725	5338	3411	15474	10576	N/A					
19	12/3/2017	72.2	7051	5190	3702	15943	10839.7	N/A					
20	12/4/2017	71.2	7209	5217	3240	15666	13086	N/A					
21	12/4/2017	75.3	6967	5250	3387	15604	11666	N/A					
22	12/4/2017	70.1	6729	5364	3792	15885	10466.8	N/A					
23	12/5/2017	72.5	6803	5287	4821	16911	10656.8	N/A					
24	12/5/2017	75.5	6886	5557	3313	15756	10163	N/A					
25	12/7/2017	70.5	7529	5212	4911	17652	13493.4	N/A					
26	12/9/2017	57.8	7559	5086	4723	17368	17855.3	N/A					
27	12/10/2017	68.1	7030	5276	3417	15723	12364.8	N/A					
28	12/11/2017	62.9	6815	5136	3482	15433	17100.8	N/A					
29	12/12/2017	70.3	7224	5007	4271	16502	11243.3	N/A					
30	12/14/2017	78.7	6741	5080	3445	15266	10982.9	N/A					
31	12/15/2017	81.2	7037	5253	3570	15860	10384.5	N/A					
32	12/16/2017	80	6889	5328	4012	16229	10796.7	N/A					
33	12/17/2017	80.2	6802	5324	3215	15341	10575.4	N/A					
34	12/18/2017	80.6	6658	5627	3562	15847	10727.9	N/A					
35	12/19/2017	77.6	6679	5436	3192	15307	10392.2	N/A					
36	12/20/2017	78.5	6802	5266	3780	15848	10589.4	N/A					
37	12/21/2017	79.5	6892	5344	3270	15506	11922.4	N/A					
38	12/22/2017	77.2	6788	5365	3670	15823	12007.2	N/A					
39	12/23/2017	78.7	7203	5480	5076	17759	17257.3	N/A					
40	12/26/2017	76.9	6661	5483	4576	16720	12306.4	N/A					
41	12/27/2017	79.3	6756	4927	5243	16926	11170.5	N/A					
42	12/29/2017	78.6	6529	5184	3371	15084	16418.2	N/A					
74	,,,	. 5.0		5,329	3,880	676,725	496,736	14/ 🗥					

	API 47-095-02287 Farm	Name Terry L. Snider Well Nui	mber Tinker Unit 2H							
	EXHIBIT 3									
LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface						
Sandstone	0	N/A	0	N/A						
Silyt Sandstone	260	N/A	260	N/A						
Shale w/trace Coal	560	N/A	560	N/A						
Silty Sandstone	740	N/A	740	N/A						
Limey Shale	880	N/A	880	N/A						
Silty Shale w/trace Coal	1,080	N/A	1,080	N/A						
Silty Sandstone	1,240	N/A	1,240	N/A						
Silty Shale w/trace Coal	1,380	N/A	1,380	N/A						
Silty Sandstone	1,520	N/A	1,520	N/A						
Sandstone w/trace Coal	1,600	N/A	1,600	N/A						
Silty Sandstone	1,680	N/A	1,680	N/A						
Shale w/trace Coal	1,740	N/A	1,740	N/A						
Silty Sandstone	1,840	N/A	1,840	N/A						
Big Lime	2,007	N/A	2,008	N/A						
Big Injun	2,152	N/A	2,153	N/A						
Gantz Sand	2,558	N/A	2,559	N/A						
Fifty Foot Sandstone	2,848	N/A	2,849	N/A						
Gordon	2,937	N/A	2,939	N/A						
Fifth Sandstone	3,215	N/A	3,224	N/A						
Bayard	3,284	N/A	3,295	N/A						
Warren	3,671	N/A	3,709	N/A						
Speechley	4,010	N/A	4,084	N/A						
Balltown	4,297	N/A	4,403	N/A						
Bradford	4,690	N/A	4,836	N/A						
Benson	5,054	N/A	5,245	N/A						
Alexander	5,295	N/A	5,507	N/A						
Rhinestreet	5,853	N/A	6,121	N/A						
Sycamore	6,191	N/A	6,524	N/A						
Middlesex	6,285	N/A	6,661	N/A						
Burkett	6,381	N/A	6,823	N/A						
Tully	6,404	N/A	6,871	N/A						
Marcellus	6,414	N/A	6,897	N/A						

^{*}Please note Antero determines formation tops based on mud logs that are only run on one well on a multi-well pad. The measured depth (MD) data on subsequent wells may be slightly different due to the well's unique departure.

