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		
		 	- -			_	7	· · · · ·		-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 47-095-02375 Farm Name Terry L. Snider Well Number Tinker Unit 1H									
	EXHIBIT 1									
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations					
1	11/25/2017	14845	15014	60	Marcellus					
2	11/25/2017	14645	14814	60	Marcellus					
3	11/26/2017	14445	14614	60	Marcellus					
4	11/27/2017	14245	14414	60	Marcellus					
5	11/28/2017	14045	14213	60	Marcellus					
6	11/28/2017	13844	14013	60	Marcellus					
7	11/29/2017	13644	13813	60	Marcellus					
8	11/29/2017	13444	13613	60	Marcellus					
9	11/29/2017	13244	13413	60	Marcellus					
10	11/30/2017	13044	13213	60	Marcellus					
11	12/1/2017	12844	13012	60	Marcellus					
12	12/1/2017	12643	12812	60	Marcellus					
13	12/1/2017	12443	12612	60	Marcellus					
14	12/2/2017	12243	12412	60	Marcellus					
15	12/3/2017	12043	12212	60	Marcellus					
16	12/3/2017	11843	12012	60	Marcellus					
17	12/4/2017	11643	11811	60	Marcellus					
18	12/4/2017	11442	11611	60	Marcellus					
19	12/4/2017	11242	11411	60	Marcellus					
20	12/5/2017	11042	11211	60	Marcellus					
21	12/5/2017	10842	11011	60	Marcellus					
22	12/6/2017	10642	10811	60	Marcellus					
23	12/7/2017	10442	10610	60	Marcellus					
24	12/8/2017	10242	10410	60	Marcellus					
25	12/10/2017	10041	10210	60	Marcellus					
26	12/10/2017	9841	10010	60	Marcellus					
27	12/12/2017	9641	9810	60	Marcellus					
28	12/13/2017	9441	9610	60	Marcellus					
29	12/15/2017	9241	9410	60	Marcellus					
30	12/16/2017	9041	9209	60	Marcellus					
31	12/17/2017	8840	9009	60	Marcellus					
32	12/17/2017	8640	8809	60	Marcellus					
33	12/18/2017	8440	8609	60	Marcellus					
34	12/19/2017	8240	8409	60	Marcellus					
35	12/20/2017	8040	8209	60	Marcellus					
36	12/22/2017	7840	8008	60	Marcellus					
37	12/23/2017	7639	7808	60	Marcellus					
38	12/24/2017	7439	7608	60	Marcellus					
39	12/26/2017	7239	7408	60	Marcellus					
40	12/28/2017	7039	7208	60	Marcellus					
41	12/30/2017	6839	7008	60	Marcellus					
42	12/30/2017	6639	6807	60	Marcellus					

API 47-095-02375 Farm Name Terry L. Snider Well Number Tinker Unit 1H										
	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	11/25/2017	70.4	7353		3159	10512	10552.2	N/A		
2	11/25/2017	73.2	7297	6074	3365	16736	11016	N/A		
3	11/26/2017	68.7	7397	5840	3713	16950	10742.7	N/A		
4	11/27/2017	70.9	7289	6070	3654	17013	12337.4	N/A		
5	11/28/2017	74.3	7051	5352	3572	15975	10686.7	N/A		
6	11/28/2017	73.2	7320	5314	3714	16348	11586.9	N/A		
7	11/29/2017	70.8	7285	5522	3695	16502	10762.5	N/A		
8	11/29/2017	76.2	7406	5401	3902	16709	10477.7	N/A		
9	11/29/2017	75.1	7260	5935	3913	17108	10361.2	N/A		
10	11/30/2017	75	7161	5906	3796	16863	10245.6	N/A		
11	12/1/2017	71.7	6848	5599	4108	16555	10103	N/A		
12	12/1/2017	69.5	7111	6277	4175	17563	11027	N/A		
13	12/1/2017	74.6	7086	5504	3938	16528	10336.6	N/A		
14	12/2/2017	75	7022	5470	3953	16445	11541.7	N/A		
15	12/3/2017	72.5	6821	5940	4089	16850	10647.2	N/A		
16	12/3/2017	69.5	7017	5527	4028	16572	10454.1	N/A		
17	12/4/2017	73.4	7084	5527	3818	16429	10612.9	N/A		
18	12/4/2017	75.5	6995	5393	4296	16684	11248.6	N/A		
19	12/4/2017	74.7	6764	5806	4009	16579	10347.7	N/A		
20	12/5/2017	70.5	6764	5473	4107	16344	10356.8	N/A		
21	12/5/2017	76.2	7089	5564	4032	16685	10555.6	N/A		
22	12/6/2017	72.8	7204	5319	4169	16692	12270.4	N/A		
23	12/7/2017	71.6	7570	5282	3836	16688	11863.6	N/A		
24	12/8/2017	73.7	7025	5080	3857	15962	11508	N/A		
25	12/10/2017	56.9	7473	5143	3919	16535	15151.6	N/A		
26	12/10/2017	74.4	7022	5313	4004	16339	10041.1	N/A		
27	12/12/2017	71.1	6717	5208	4128	16053	10162.2	N/A		
28	12/13/2017	76	7354	5850	3791	16995	10284.4	N/A		
29	12/15/2017	77.8	6956	5466	3798	16220	10276.4	N/A		
30	12/16/2017	79.6	6953	5262	3828	16043	10495.2	N/A		
31	12/17/2017	79.3	6733	5279	3834	15846	10274.7	N/A		
32	12/17/2017	80.4	6904	5512	3981	16397	10331.4	N/A		
33	12/18/2017	76.8	6862	5609	4045	16516	10653.8	N/A		
34	12/19/2017	79.4	6785	5678	3907	16370	10504.9	N/A		
35	12/20/2017	79.4	7039	6312	3784	17135	10659.4	N/A		
36	12/22/2017	80.4	6889	5771	3819	16479	10635.2	N/A		
37	12/23/2017	80.1	6684	6183	3937	16804	10623.1	N/A		
38	12/24/2017	80.3	6816	5416	3730	15962	10504.8	N/A		
39	12/26/2017	51.9	7241	6093	6000	19334	10396.6	N/A		
40	12/28/2017	79.6	6602	5319	4141	16062	11631.1	N/A		
41	12/30/2017	80	6233	5151	3907	15291	10942.4	N/A		
42	12/30/2017	79.9	6369	6083	3707	16159	10856.8	N/A		
12	AVG=	74.1	7,020	5,605	3,932	689,832	456,067	TOTAL		

	API 47-095-02375 Farm I	Name Terry L. Snider Well Nui	mber Tinker Unit 1H						
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					
Silty 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	2,016	N/A	2,017	N/A					
Big Injun	2,154	N/A	2,156	N/A					
Gantz Sand	2,558	N/A	2,559	N/A					
Fifty Foot Sandstone	2,821	N/A	2,823	N/A					
Gordon	2,933	N/A	2,934	N/A					
Fifth Sandstone	3,213	N/A	3,215	N/A					
Bayard	3,277	N/A	3,279	N/A					
Warren	3,669	N/A	3,677	N/A					
Speechley	4,020	N/A	4,038	N/A					
Balltown	4,309	N/A	4,336	N/A					
Bradford	4,694	N/A	4,731	N/A					
Benson	5,028	N/A	5,076	N/A					
Alexander	5,275	N/A	5,332	N/A					
Rhinestreet	5,844	N/A	5,919	N/A					
Sycamore	6,184	N/A	6,284	N/A					
Middlesex	6,277	N/A	6,399	N/A					
Burkett	6,370	N/A	6,546	N/A					
Tully	6,393	N/A	6,597	N/A					
Marcellus	6,402	N/A	6,619	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.

