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

API 47 - 103 _ 02	2922 County We	etzel	District Magnolia	
Quad Porters Falls		Ггасу	Field/Pool Name Ma	ary
arm name Tracy, Mary J.			Well Number #1H	
Operator (as registered with Address 1300 Fort Pierpo	the OOG) Stone Energy ont Dr Suite 201 City	Corporation Morgantown		Zip 26508
As Drilled location NAD Top h Landing Point of Co Bottom H	Northing $\frac{4,385,53}{4,385,81}$ urve Northing $\frac{4,385,81}{4,385,81}$	1 I	and deviation survey Easting 520,384 Easting 520,006 Easting 519,186	
Elevation (ft) 1101		Well ■New □ Existing		Interim Final
Permit Type Deviated	□ Horizontal 🛔 Ho	orizontal 6A	al Depth Type	□ Deep
Гуре of Operation □ Conve	ert 🗆 Deepen 💄 Drill	□ Plug Back □ Re	edrilling Rework	Stimulate
Well Type □ Brine Disposa	ıl □ CBM ■ Gas □ Oil	□ Secondary Recovery	Solution Mining Sto	rage □ Other
Type of Completion Sing	reconstruction of a second second	Produced □ Brine □G	ias □ NGL □ Oil	□ Other
Orilled with Cable	Rotary			
Trilling Media Surface hol	le	sh Water Intermedia	ate hole Air - Mud	■ Fresh Water □ Brine
Production hole Air			ite ilole BAII B Mild	= ITCSII Water Billie
Mud Type(s) and Additive(s Salt/Polymer Water Bas	s)		dium Chloride, Sulfatr	ol Starch PAC
Xanplex D, Barite, Corro			aram emeride, edilari	si, etaleli, i rte,
	1.20.10	- consider		
Date permit issued11/2		commenced 11/13/2		
Date completion activities be	egan 10/20/2016	Date completion	activities ceased1	0/25/2016
erbal plugging (Y/N)	N Date permission g	granted	Granted by	
Please note: Operator is requ	uired to submit a plugging a	application within 5 days o	of verbal permission to pl	ingGEIVED of Oil and Gas
reshwater depth(s) ft	102	Open mine(s) (Y/N	N) depths	IN .
alt water depth(s) ft	None Reported	Void(s) encountered	ed (Y/N) depths	HR 1 3 NO17
oal depth(s) ft	904	Cavern(s) encount	ered (Y/N) depth\$/\frac{\frac{1}{N}}{Depth\$	N
s coal being mined in area (Y/N) N		Environme	ental Protect
	APP	RUVE		Reviewed by: On
	AN WARE DE		Manual RESERVED	DMH
	NAME: S-2	15-17		06/02/20

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 API 47- 103 _ 02922
 Farm name Tracy, Mary J. Living Trust Well number #1H

CASING	Hole	Casing		New or	Grade	Basket	Did cement circulate (Y/N)
STRINGS	Size	Size	Depth	Used	wt/ft	Depth(s)	* Provide details below*
Conductor	24"	20"	103' KB / 80' GL	New	LS - 94 ppf		N - GTS
Surface	17.5"	13.375"	1112' KB / 1089' GL	New	J55 - 54.5 ppf	100' & 200'	Y-CTS
Coal	17.5"	13.375"	1112' KB / 1089' GL	New	J55 - 54.5 ppf	100' & 200'	Y-CTS
Intermediate 1	12.25"	9.625"	2397' KB / 2374' GL	New	J55 - 36 ppf		Y - CTS
Intermediate 2							
Intermediate 3							-
Production	8.75"	5.5"	12522' KB	New	P110HC - 23/20 ppf		N - TOC @ xxx' Calculated
Tubing							
Packer type and de	epth set				1	Л	<u> </u>

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³/sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Type 1	34	15.6	1.18	40	Surface	24+
Surface	Class A	845	15.6	1.18	997	Surface	8
Coal	Class A	845	15.6	1.18	997	Surface	8
Intermediate I	Class A	820	15.6	1.21	992	Surface	8
Intermediate 2							
Intermediate 3						 	
Production	Class A	3400	15.2	1.15	3910	1050' Calculated	24+
Tubing							·

Drillers TD (ft) 12536' MD / 6688' TVD Deepest formation penetrated Marcellus Shale Plug back procedure			'lug back to (ft)	
Kick off depth (ft) 5863' MD / 5850' TO	√D			
Check all wireline logs run	□ caliper □ neutron	□ density □ resistivity	■ deviated/directional ■ gamma ray	□ induction □ temperature □sonic
Well cored □ Yes ■ No	Convention	nal Sidewal	II Were cu	ttings collected □ Yes ■ No
joints 2, 6, 10, 14, 18 and 22. Intermediate casing has box	spring centralizers placed ced on every third joint	on joints 4, 8, 12, 16, 20, 24, 2	8, 32, 36 and 40.	Surface casing has bow spring centralizers placed on ers). Ran bow spring centralizers from joint 207 to joint 245
WAS WELL COMPLETED AS	SHOT HOLE	□ Yes 🛢 N	o DETAILS	
WAS WELL COMPLETED OP	EN HOLE?	□ Yes ■ No	DETAILS	
WERE TRACERS USED DY	es 🖪 No	TYPE OF TRA	CER(S) USED	

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API	47- 103 -	02922	Farm name Tracy, Mary J. Living Trust	Well number #1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/20/2016	12,359	12,462	NA	Marcellus
2	10/20/2016	12,210	12,299	54	Marcellus
<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	10/20/16		7120	8479	4737	286360	6050	NA
2	10/20/16	78	7120	8096	6491	294800	7958	NA
				·				
		. <u> </u>						
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	_							

Please insert additional pages as applicable.

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API 47- 103 - 02922 Farm name Tracy, Mary J. Living Trust Well number #1H	4-6
PRODUCING FORMATION(S) DEPTHS Marcellus 6690' TVD 12,210'-12,462' MD	
Please insert additional pages as applicable. GAS TEST	
SHUT-IN PRESSURE Surfacepsi Bottom Holepsi DURATION OF TEST _ OPEN FLOW Gas Oil NGL Water GAS MEASURED BYbpdbpdbpdbpdEstimatedOrifice	
LITHOLOGY/ TOP BOTTOM TOP BOTTOM FORMATION DEPTH IN FT DEPTH IN FT DEPTH IN FT DESCRIBE ROCK TYPE AND RECORD Q NAME TVD TVD MD MD TYPE OF FLUID (FRESHWATER, BRINE,	
See Attached Sheet	
Please insert additional pages as applicable. Drilling Contractor Highlands (top hole) & Nomac (horizontal) Address 900 Virginia Street - East / 3400 S. Radio Road City Charleston / El Reno State WV / OK Zip 252	301 / 73036
Logging Company Scientific Drilling (top hole) & Baker Hughes (horizontal) Address 124 Vista Drive / 17021 Aldine Westfield City Charleroi / Houston State PA / TX Zip 150	022 / 77073
Cementing Company Halliburton (top hole) & Baker Hughes (horizontal) Address 121 Champion Way / 17021 Aldine Westfield City Canonsburg / Houston State PA / TX Zip 153	317 / 77073
Stimulating Company Address 1681 E. Main St. City Bridgeport State WV Zip 263 Please insert additional pages as applicable.	330
Completed by Greg Zofchak Signature Title Drilling Engineer Telephone 304-225-1600 Date 2/8/2017	
Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry	

Tracey #1H API 47-103-02922 Stone Energy Corporation

Horizontal

	Тор	Тор		Bottom (ft	Bottom	
	(ft TVD)	(ft MD)		TVD)	(ft MD)	_
Sandstone & Shale	Surface		*			FW @ 102
Coal	904		*	908		
Sandstone & Shale	909		*	1,874		No SW Reported
Little Lime	1,875		*	1,890		
Big Lime	1,980		*	2,170		
Big Injun	2,071		*	2,255		
Sandstone & Shale	2,256		*	2,580		
Berea Sandstone	2,581		*	2,590		
Shale	2,591		*	2,776		
Gordon	2,777		*	2,800		
Undiff Devonian Shale	2,801		*	6,099		
Rhinestreet	6,100	6,112	~	6,430	6,314	
Cashaqua	6,431	6,315	~	6,549	6,649	
Middlesex	6,550	6,650	~	6,602	6,729	
West River	6,603	6,730	~	6,638	6,801	
Undiff Devonian Shale	6,639	6,802	~	6,670	6,838	
Geneseo	6,671	6,839	~	6,694	6,899	
Tully Limestone	6,695	6,900	~	6,730	6,989	
Hamilton Shale	6,731	6,990	~	6,768	7,107	
Marcellus	6,769	7,108	~		12,535	
TD					12,535	

^{*} From Pilot Hole Log and Driller's Log

[~] From MWD Gamma Log

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State of West Virginia Department of Environmental Protection - Office of Oil and Gas

Discharge Monitoring Report Oil and Gas General Permit

Company Name:	STONE	ENERGY CORPORATION				
API No:	47-103-	02961		County:	Wetzel	
District:	Magnoli	a		Well No:	Tracy #2H	
Farm Name:	Tracy, N	Mary J. Living Trust				
Discharge Date/s I	From:(N	MDDYY) N/A		To: (MMI	DDYY) N/A	
Discharge Times.				To: N/A		
Total Volume to b	e Dispo	sed from this facility (gall	lons):	16,800 (Drillin	g Only)	
	•	ed (write volumes in gallor				
(1) Land Applica	tion:	N/A	(Include	a topograph	ical map of the Area.)	
(2) UIC:		16,800	Permit N	O. 34-105-2	3619, 34-121-23995, 34-121-24086, 2D0859721	
(3) Offsite Dispos	sal:	N/A	Site Loca	ation: N/A	1	
(4) Reuse:		N/A	Alternate	Permit Nu	mber: N/A	
(5) Centralized Fa	acility:	N/A	Permit N	o. N/A		
(6) Other method	•	N/A	(Include	an explanat	ion)	
• •		to determine your treatme	•	-	,	
Optional Pretreat	ment tes	st: N/A Cl- mg/l	N/A	_ DO mg/l		
-	permiss	sion to use expedited treatr	nent from	the Director	or his representative?	
(Y/N) N/A		If yes, who? N/A		and	place a four (4) on line 7.	
If not go to li						
	iid or fle	owback put into the pit? (Y	Y/N) <u>No</u>	If yes	s, go to line 5. If not, go to	
line 3.	a ablam	ide value pretreatment (see	ahaya)? (W/NI) NI/A	If you go to line A	
If not, go to l		ide varue pretieatificht (see	above): (1719) 19/7	If yes, go to line 4	
. •		less than 5000 mg/l? (Y/N	J) N/A	If ves t	hen enter a one (1) on line	7
		eatment value for DO? (Se			If yes, go to line 6	
If not, enter a	-	•	• ••• ()) 00, 80 000	
•	•	er than 2.5 mg/l?(Y/N) N	/A	If yes, e	enter a two (2) on line 7. If	
not, enter a ti	hree (3)	on line 7.			. ,	
		gory of your pit. Use the A				
8. Comments					zed on this well and as such,	no
pit was con	structed	 All cuttings were hauled 	to a perm	itted landfill.		
Name of Princi	-	c. Officer: Richard L. Tooth	nman			
Date Complete	_	ec. VP Appalachia /2017				
•		alty of law that I have pe	rsonally e	 vamined an	d am familiar with the	
_	•	on this document and all the	•			
		mediately responsible for				
		curate, and complete. I am	_			
submitting false	inform	ation, including the possib	oility of fin	e and impri	sonment.	
	/	//////				
	Sign	ature of a Principal Exec. (Officer or	Authorized	agent .	
	Sign	attare of a little part Exec.	STITUTE OF A	Tutiloi iZÇU	1gent. 06/02/	20

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Category 1 Sampling Results

API No : 47-103-02961

	Predischarge		Disc	harge	
Parameter	Limits	Reported	Limits	Reported	Units
pН	6-10		6-10		S.U
Settling Time	5		N/A	N/A	Days
Fe	6		6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	0.5		0.5		mg/l
Cl	5,000		5,000		mg/l
Oil	Trace		Trace		Obs.
TOC**			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Total Al***			Monitor		mg/l
TSS			Monitor	-	mg/l
Total Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gal
Flow			Monitor		Gal/min
Disposal Area			Monitor		Acres

*** Al is only reported if the pH is above 9.0

Category 2 Sampling Results API No: 47-103-02961

6-10	Reported	Limits	Reported	Units
		(10		2
10		6-10		S.U
10		N/A	N/A	Days
6		6		mg/l
2.5		2.5		mg/l
0.5		0.5		mg/l
12,500		12,500		mg/l
Trace		Trace		Obs.
		Monitor		mg/l
Monitor		Monitor		mg/l
		Monitor		Gal
		Monitor		Gal/min
		Monitor		Acres
	2.5 0.5 12,500 Trace	10 6 2.5 0.5 12,500 Trace	N/A 6 6 6 2.5 2.5 0.5 12,500 12,500 Trace Monitor Mo	10

* Can be 25,000 with inspector's approval,

(Inspector's signature):	Date:
** Include a description of your aeration technique.	Aeration Code:
	· · · · · · · · · · · · · · · · · · ·

^{***} Al is only reported if the pH is above 9.0

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Category 3
Sampling Results

API No: 47-103-02961

	Predischarge		Disc	Discharge	
Parameter	Limits	Reported	Limits	Reported	Units
pН	6-10		6-10		S.U
Settling Time	20	,,	N/A	N/A	Days
Fe	6		6		mg/l
D.O.	2.5		2.5		mg/l
Settleable Sol.	0.5		0.5		mg/l
Cl*	12,500		12,500		mg/l
Oil	Trace		Trace		Obs.
TOC**			Monitor		mg/l
Oil and Grease			Monitor		mg/l
Total Al***			Monitor		mg/l
TSS			Monitor		mg/l
Total Mn	Monitor		Monitor		mg/l
Volume			Monitor		Gal
Flow			Monitor		Gal/min
Disposal Area			Monitor		Acres
* Can be 25,000 w	ith inspector's	approval,		-	
(Inspector's signat	ure):		D	ate:	
** Include a descr	iption of your a	aeration technic	que.	Aeration Cod	le:
*** Al is only rep	•		•		
Category 4					
Sampling Results					
API No: 47-103-	02961	_			

	Predis	Predischarge Discharge		harge			
Parameter	Limits	Reported	Limits	Reported	Units		
pН	6-10		6-10		S.U		
Settling Time	1		N/A	N/A	Days		
Fe	Monitor		Monitor		mg/l		
D.O.	Monitor		Monitor		mg/l		
Settleable Sol.	Monitor		Monitor		mg/l		
Cl*	12,500		12,500		mg/l		
Oil	Trace		Trace		Obs.		
TOC**			Monitor		mg/l		
Oil and Grease			Monitor		mg/l		
TSS			Monitor		mg/l		
Total Mn	Monitor		Monitor		mg/l		
Volume			Monitor		Gal		
Flow			Monitor		Gal/min		
Activated Carbon (0.	.175)		N/A	N/A	lb/Bl		
Date Site Reclaimed	N/A	N/A			10 days from dis.		
Disposal Area			Monitor		Acres		
* Can be 25,000 wi	ith inspector's	approval,					

(Inspector's signature):

Date: