

## Michael Shea

**From:** Gail Boyd [gboyd06@comcast.net]  
**Sent:** Friday, August 02, 2013 11:14 AM  
**To:** MICHAEL SHEA  
**Subject:** Fw: St Garfield & Tiger 1-13 Drilling Report

----- Original Message -----

**From:** [Jill Hall](#)  
**To:** [tiger@flowingwell.net](mailto:tiger@flowingwell.net)  
**Sent:** Friday, August 02, 2013 9:02 AM  
**Subject:** St Garfield & Tiger 1-13 Drilling Report

On Site Engineering, LLC Daily Drilling Report				Day: 9-Friday Date: 08/02/13		
Operator: Tiger Development, LLC Rig: Advanced Energy Service Rig 2 PN: 60667				Well Name: State Ga Well No: 1-13 Est TD 5194' MD		
Depth: 4256'		Footage Cut: 643'		Status: Rotating in the Detroit River Sour @ 4256' @ 2 min/ft.		
Days 13 days est	Report Day # 9	Drill rate min/ft 2	Last csg:	Size 8-5/8" Surface	Depth 881'	TOC: Sfc
MUD Brine	Gradient-psi/ft 0.53	Wt-ppg 10.2	Vis-Sec 28	W.L.-cc No Control	Cl-mg/l 129,000	LCM-lb/b None
08/01/13 Thursday						
0700 Hrs Rotated w/ minor slide corrections & surveyed for 140' from 3613'-3753' in 4.5 hrs @ 1-2.5 min/ft. Pumped 2 \						
1130 Hrs Down .5 hrs for routine rig service. Added 300 bbl 10.3 ppg brine to the mud system to minimze hole wash-ou						
Rotated w/ minor slide corrections & surveyed for 252' from 3753'-4005' in 5.25 hrs @ 1-2.5						
1230 Hrs min/ft.						
1745 Hrs Rotated w/ minor slide corrections & surveyed for 146' from 4005'-4151' in 5 hrs @ 1-2.5 min/ft. P-ate had slo						
2245 Hrs Rotated w/ minor slide corrections & surveyed for 43' from 4151'-4194' in 3.25 hrs @ 3-6 min/ft. P-rate had slk						
08/02/13 Friday						
Rotated w/ minor slide corrections & surveyed for 62' from 4194'-4256' in 5 hrs @ 2-6 min/ft. Pumped vis						
0200 Hrs sweep.						
Rotating in the Detroit River Sour @ 4256' @ 2						
0700 Hrs min/ft.						
BHA				Elevations		Formation Top
Description	ID/Profile	Length	Depth	GL : 1127.8'		Traverse Lm 2601' MI
1 jt DP	4-1/2" od	31'	0'	RF : 1142.0'		Bell Shale 3333' MI
121 jts DP	4-1/2" od	3819'	3819'	RT:		Dundee 3241' MI
12 jts DCs	6-3/8" od	350'	4169'	KB : 1142.0'		Reed City An 3526' MI
2 monel DCs	6-3/8" od	60'	4229'			Reed City Dol 3530' MI

UBHO	6-1/2" od	3'	4232'		Det Riv Anhy 3743' MI	
Flo Str	6-1/2" od	3'	4235'		Det Riv Salt 3787' MI	
1.5° Motor	6-1/4" od	20'	4255'		Deviation Surveys	
Bit	7-7/8" od	1'	4256'		1°	@