Farm Name:
Operator Wo

State of West Virginia

Department of Environmental Protection

Office of Oil and Gas

Well Operator's Report of Well Work

Farm Name:		Truman, Travis			Date:	6/8/2011	10.00		
Operator Well No.:		Bossie #1			API #:	47-3906290			
LOCATIO	\mathbf{N}				13456 21				
Elevation:	1071		Quadrangle:		Big Chimney				
District: Elk			County:		Kanawha				
Latitude:	38.415416	9	NAD 27						
Longitude:	81.588211	6	NAD 27						
WELL IN	ORMATIO	N			320 E4 E				
Company:	Reserve O	il and Gas, Inc.	Casing &	Used in	Left in	Cement	Fill up		
Address: 929 Charl		eston Road	Tubing:	Drilling:	Well:	Cu.			
	Spencer, V	VV 25276	13 3/8"	22.00	22.00	C	s		
Agent:	J. Scott Fre	eshwater	9 5/8"	337.05	337.05	C	S		
Inspector:	Terry Urba	Ш.—	7"	2073.60	2073.60	C	S		
Date Permit I	ssued:	3/29/2011	4 1/2"	4780.50	4780.50	135	sks		
Date Work C	ommenced:	4/15/2011							
Date Work Completed:		5/20/2011							
Verbal Plugg	ing:								
Date Permiss	ion Granted:								
Rotary Rig:		CSi Rig #10							
Cable Rig:									
Total Vertical Depth (FT):		4809	<u></u>	Total Me	asured Depth (FT)	: 4809			
Fresh Water Depth (FT):			-						
Salt Water De	epth (FT):	1245	-						
	mined in area ((N/Y): No	-						
Coal Depths		N/A	- Void(s) Encountere	d (N/Y) / Depth(s)	N/A			
CONTRACTOR DESCRIPTION OF THE PARTY OF THE P)W DATA			100 Ta	1212 4 1 1 2		Hallston of the control		
		Devonian Shale	Pay Zone Dept	th (FT):	2811	to	4375		
Gas		2 M 1937 (Am. 10 L 10 S) 2 M 10 L 10 S	Oil						
Initial Open Flow:		26	Initial Open Flow:		N/A				
Final Open Flow:		353	Final Open Flow:		N/A				
Time of open flow between in		initial and final tests:				Hours.			
് വാര്യമായ			Pressure) after	•		· Hours.			
2nd Producing Formation:			Pay Zone Depth (FT):			to			
Gas			Oil	(1 1).	· · · · · · · · · · · · · · · · · · ·	- 10 .			
Initial Open Flow:		Initial Open Flow:							
Final Open Flow:			Final Open Flow:		1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				
•		initial and final tests:		 Gusta Stale		Hours.	.00		
Static Rock P		A contract of the contract of	Pressure) after	<u>- Maraka da kalif</u> •	1. (1944) 1. (1947)	Hours.	29		
		i ressure) arter	•		_ 110uis.	Ŏ			
Signed:	<u> </u>	SAT 1800	AT VXX		64/1				
By: J. Scott Freshwater				Dat	e:				
I certify under pe	nalty of law that I	have personally examined and am fam	iliar with the inforn	nation submitted	on this document and a	I the attachments			
and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate,									
and complete.									

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Continued

Formation: From		To		ter:		
Sub to G.L.	0	7	Depth:	Amount:	Type:	
Sand & Shale	7	1025			fresh water	
Salt Sand	1025	1772	1245		salt water	
Maxton	1772	1790				
Little Lime	1790	1820				
Big Lime	1820	1995				
Injun Sand	1995	2030				
Sand	2030	2100				
Shale	2100	2400		Gas Checks:		
Coffee Shale	2400	2450	Depth:	Remarks:		
Shale	2450	4809				
			<u> </u>			
				Oil Shows:		
			Depth:	h: Remarks:		
FRACTURING	100 March 1 (174 m)					
Perforations:			Stimulation:			
Stage 1:			Stage 1:			
Number of Perforations	:	40	Remarks:			
Depth From (FT):		3965	Fotal $N2 = 1,002,106$ SCF, to			
Depth To (FT): 4375			504 gallons, total 7/8 in 1.3 s	p gr R ball sealer	s = 47 in 8	
•			tages			
Stage 2:			Stage 2:		•	
Number of Perforations: 42			Remarks:			
Depth From (FT): 2811			Total N2 = 1,000,838 SCF, to	otal 15% HCL tre	eatment fluid =	
Depth To (FT): 3250			,008 gallons, total 7/8 in 1.3	sp gr R ball seal	eatment fluid = ers = 54 in 9	
- · F · · · · · · · · · · · · · · · · ·			tages			
				•		
Were Core Samples Taken (N/Y):	No				
Were Cuttings Caught Durin			No			
Were Geophysical Logs Rec			Yes			
Electrical (N/Y):	Yes	· - /·				
Mechanical (N/V)	Vec	•				