



WR-35 Rev (9-11)

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

DATE:	JULY 22, 2013
API#:	047-105-01364

CATION: Elevation: 1099	Quadrangle:	GIRTA 7.5'		
	County: WIRT			
Latitude: 11,110 Feet South of 39 Deg.	5 Min		<u> </u>	
Longitude 10,460' Feet West of 81 Deg.	15 Min			
Company: PETRO HOLDINGS, INC.				•
Address: P.O. BOX 987	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
SPENCER, WV 25276	9 5/8"	515'	515'	CTS
Agent: KEITH CRIHFIELD				
Inspector: JOE TAYLOR	7"	2146'	2146'	CTS
Date Permit Issued: 07/27/2012				
Date Well Work Commenced: 09/12/2012	4 1/2"	5494'	5494'	274
Date Well Work Completed: 06/28/2013	•			
Verbal Plugging: N/A				
Date Permission granted on:				
Rotary Cable Rig		1		
Total Vertical Depth (ft): 5488'				
Total Measured Depth (ft): 5488'				
Fresh Water Depth (ft.): DAMP 130'				
Salt Water Depth (ft.): + or - 1820'				
Is coal being mined in area (N/Y)? NO				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) N/A		<u> </u>	,	
OPEN FLOW DATA (If more than two producing formation Producing formation DEVONIAN SHALE Pay z Gas: Initial open flow 0 MCF/d Oil: Initial open flow Final open flow MCF/d Final open flow Time of open flow between initial and final tests 18 Static rock Pressure 425 psig (surface pressure) after the producing formation open flow in the producing formation open flow flower	one depth (ft) ow 0 E 15 B Hour	2450:-5473: Bbl/d bl/d s	Rece	eived
Second producing formation Pay 201	ne denth (ft)		4 4 1	4 2013
Gas: Initial open flowMCF/d Oil: Initial open fl		Bbl/d		
Final open flow MCF/d Final open flow	/B	bl/d	Office of Oi	
Time of open flow between initial and final tests	Hour	ς γν	v Dept. of Enviror	nmental Protection

all 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.

07/22/2013 Date 09/13/2013

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Were core samples taken? Yes1	No_X Were cuttings	caught during drilling? Yes_X No
Were Electrical, Mechanical or Geophysi DENSITY, TEMPERATURE ACUSTIC GAS DETECTOR	ical logs recorded on this well? If yes, ple R, INDUCTION AND CALIPER. CASED HOLE: GAMMA	ASE LIST OPEN HOLE: GAMMA-RAY, NEUTRON, COMPENSATED
NOTE: IN THE AREA BELOW FRACTURING OR STIMULATING, DETAILED GEOLOGICAL RECOICOAL ENCOUNTERED BY THE WIPE Perforated Intervals, Fracturing, or Stimular Control of the Contr	PUT THE FOLLOWING: 1). DET, PHYSICAL CHANGE, ETC. 2). THE RD OF THE TOPS AND BOTTOM ELLBORE FROM SURFACE TO TO lating:	TAILS OF PERFORATED INTERVALS, E WELL LOG WHICH IS A SYSTEMATIC S OF ALL FORMATIONS, INCLUDING TAL DEPTH.
1ST STAGE: PERFORATE 4912-5473' (27 HOLES) AND STA		SCF OF N2, 125 BBLS OF WATER, AND 29,800 LBS OF 20/40 SAND
· · · · · · · · · · · · · · · · · · ·		CF OF N2, 119 BBLS OF WATER, AND 29,800 LBS OF 20/40 SAND
		CF OF N2, 113 BBLS OF WATER, AND 29,600 LBS OF 20/40 SAND
THE PARTY PA	STIMULATE WITH 500 GALLONS OF HCI ACID, 448 MSCI	F OF N2, 121 BBLS OF WATER, AND 23,200 LBS OF 20/40 SAND
Plug Back Details Including Plug Type as	nd Depth(s): N/A	
0 0 7	TWA INA	11
Formations Encountered: Surface:	Top Depth /	Bottom Depth
REDROCK	0 .	50
SHALE	50	130
SAND	130	170
SHALE	170	230
SAND	230	370
REDROCK/SHALE	370	400
SAND	400	440
SHALE	440	460
SAND	460	717
SHALE	717	950
SAND	950	980
SHALE	980	1040
SAND	1040	1050
SHALE	1050	1220
SAND	1220	Received

Formations Encountered: Surface:	Top Depth /	Bottom Depth
		105-013
SHALE	1250	
SAND	1370	1370
SHALE	1400	1400
SAND	1550	1550
SHALE	1580	1580
SAND	1600	1600
SHALE	1670	1670
SAND	1820	1820
- LIME ·		1850
SHALE	1850 ·	1978
BIG INJUNE		1983
SHALE	1983	2023
SAND	2023	2048
SHALE	2048	2059
SAND	2059	2075
,	2075	2079
SHALE	2079	
SAND	2124	2124
SHALE	2444	2141
SILT	2156	2156
SHALE	2159	2159
SILT	2333	2333
SHALE	2336	2336
SILT		2350
SHALE	2350	2354
SILT	2354	2358
······································	2338	2362
SILT	2302	2365
SHALE	2365	2370
SILT	2370	2561
SHALE	2561	2566
OTALL	2566	2569

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Formations Encountered: Surface:	Top Depth /	Bottom Depth
		105-0
SILT	2569 ·	2574
SHALE	2574	2582
SILT	2582	2585
SHALE	2585	2592
SILT	2592	2595
SHALE	2595	2604
SILT	2604	2609
SHALE	2609	2632
ŞILT ·	2632	2635
SHALE	2635	2639
SILT	2639	2644
SHALE ~ ~	2644	2687
SILT	2687	2696
SHALE	2696	2702
SILT	2702	2710
SHALE	2710	
SILT	2717	2717
SHALE	2720	2720
SILT	2722	2722
SHALE	.2740	2740
SILT	2782	2782
SHALE	2786	2786
SILT	2790	2790
SHALE	2793	2793
BILT		2796
SHALE	2799	2799
SILT	2799 5 N 2825	2825
HALE	2828	2828
AND	2839	2839
HALE	2844	2844
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Formations Encountered: Surface:	Top Depth /	Bottom Depth
<u>Same.</u>		105-0136
SILT	3787	3790
SHALE	3790	3867
SILT	3867	3869
SHALE	3869 .	4169
SILT	4169	4174
SHALE	4174	4504
SILT	4504	4506
SHALE	4506	4645
SILT	4645	4648
SHALE	4648	4655
SILT	4655	4657
SHALE	4657	4963
SILT	4963	4967
SHALE	4967	5488

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Formations Encountered:	Top Depth /	Bottom Depth
Surface:		
	·	105-0136
SILT	3787	3790
SHALE	3790	3867
SILT	3867	3869
SHALE	3869 .	4169
SILT	4169	4174
SHALE	4174	4504
SILT	4504	4506
SHALE	4506	4645
SILT	4645	4648
SHALE	4648	4655
SILT	4655	4657
SHALE	4657	4963
SILT	4963	4967
SHALE	4967	5488
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