

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

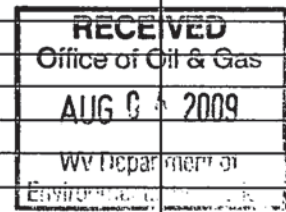
Farm name: STRONG HEIRS Operator Well No.: #1

LOCATION: Elevation: 960' Quadrangle: BURNING SPRINGS 7.5'

District: BURNING SPRINGS County: WIRT  
Latitude: 1750' Feet South of 39 Deg. 00 Min. 00 Sec.  
Longitude 1800' Feet West of 81 Deg. 17 Min. 30 Sec.

Company: PETRO HOLDINGS INC.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P. O. BOX 987</u> <u>SPENCER, WV 25276</u>				
Agent: <u>KEITH CRIHFIELD</u>	<u>9 5/8"</u>	<u>290'</u>	<u>290'</u>	<u>112</u>
Inspector: <u>ED GAINER</u>				
Date Permit Issued: <u>11-30-07</u>	<u>7"</u>	<u>1704'</u>	<u>1704'</u>	<u>349</u>
Date Well Work Commenced: <u>01-28-08</u>				
Date Well Work Completed: <u>02-08-08</u>	<u>4 1/2"</u>	<u>4811</u>	<u>4811</u>	<u>328</u>
Verbal Plugging: <u>N/A</u>				
Date Permission granted on:				
<u>Rotary</u> Cable Rig				
Total Depth (feet): <u>4822'</u>				
Fresh Water Depth (ft.): <u>35'</u>				
Salt Water Depth (ft.): <u>916'</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.):				

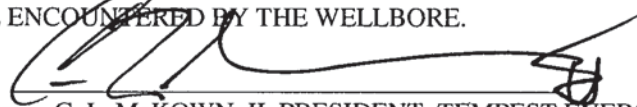


OPEN FLOW DATA

Producing formation DEVONIAN SHALE Pay zone depth (ft) 2417' - 4775'  
Gas: Initial open flow SHOW MCF/d Oil: Initial open flow SHOW Bbl/d  
Final open flow 626 MCF/d Final open flow 5 Bbl/d  
Time of open flow between initial and final tests 72 Hours  
Static rock Pressure 620 psig (surface pressure) after 240 Hours

Second producing formation \_\_\_\_\_ Pay zone depth (ft) \_\_\_\_\_  
Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure \_\_\_\_\_ psig (surface pressure) after \_\_\_\_\_ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed:   
By: C. I. McKOWN, II, PRESIDENT, TEMPEST ENERGY CORP., OWNER  
Date: 06-24-09

**Perforations and Frac Detail:**

1 <sup>st</sup> stage	4099' – 4775' (24 holes)	90 quality foam frac using 500 gal. 15% HCL; 757 MSCF N <sub>2</sub> ; 30,000# 20/40 sand.
2 <sup>nd</sup> stage	3056' – 3893' (26 holes)	90 quality foam frac using 500 gal. 15% HCL; 735 MSCF N <sub>2</sub> ; 30,000# 20/40 sand.
3 <sup>rd</sup> stage	2417' – 2944' (24 holes)	90 quality foam frac using 500 gal. 15% HCL; 704 MSCF N <sub>2</sub> ; 30,000# 20/40 sand.

**WELL LOG:**

SAND	0	105
RED ROCK	105	150
SAND/SLATE	150	170
SAND	170	215
RED ROCK	215	225
SAND	225	245
RED ROCK	245	302
SAND	302	350
RED ROCK	350	375
SAND	375	505
SHALE/SAND	505	650
SHALE	650	725
SHALE/SAND	725	932
SAND	932	1154
SAND/SHALE	1154	1435
SAND	1435	1470
SHALE	1470	1495
LIME	1495	1600
SAND	1600	1670
SAND/SHALE	1670	1740
SLATE	1740	1845
SAND/SLATE	1845	1972
SAND	1972	2067
SHALE/SAND	2067	2289
SHALE	2289	2383
SHALE/SAND	2383	2490
SLATE/SHALE	2490	2575
SHALE	2575	2666
SAND/SHALE	2666	2850
SAND	2850	2930
SAND/SHALE	2930	3045
SHALE	3045	3129
SHALE/SAND	3129	3266

CONT.

SHALE	3266	3420
SLATE/SAND	3420	3520
SAND/SHALE	3520	3613
SHALE	3613	3739
SAND/SHALE	3739	3833
SAND	3833	3930
SHALE	3930	4010
SAND/SHALE	4010	4150
SAND	4150	4200
SHALE	4200	4300
SAND/SHALE	4300	4400
SAND	4400	4500
SHALE	4500	4592
SAND/SHALE	4592	4822



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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Joe Manchin III, Governor  
Stephanie R. Timmermeyer, Cabinet Secretary  
[www.wvdep.org](http://www.wvdep.org)

November 30, 2007

**WELL WORK PERMIT**

**New Well**

This permit, API Well Number: 47-10501356, issued to PETRO HOLDINGS, INC., is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin  
Chief

Operator's Well No: STRONG HEIRS 1  
Farm Name: MENEFE, LARRY  
**API Well Number: 47-10501356**  
**Permit Type: New Well**  
Date Issued: 11/30/2007

**Promoting a healthy environment.**

DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL WORK PERMIT APPLICATION

105 1 271

1) Well Operator PETRO HOLDINGS INC.

307079	WIRT	Burn. Spring	Burning Springs 7.5'
Operator ID	County	District	Quadrangle

2) Operator's Well Number: Strong Heirs #1 3) Elevation: 960'

4) Well Type: (a) Oil        or Gas   x    
 (b) If Gas: Production   x   / Underground Storage         
 Deep        / Shallow   x  

5) Proposed Target Formation(s): Devonian Shale *not more than 20' into the Chalogue*

6) Proposed Total Depth: 5500' Feet

7) Approximate fresh water strata depths: +/- 150'

8) Approximate salt water depths: +/- 1000'

9) Approximate coal seam depths: N/A

10) Does land contain coal seams tributary to active mine? No

11) Describe proposed well work Drill and stimulate new well.

12) 11/9/07 CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor						
Fresh Water	9 5/8"	LS	32#	300'	300'	Cement to Surface
Coal						
Intermediate	7"	LS	17#	1700'	1700'	Cement to 300'
Production	4 1/2"	J-55	10.5/11.6	5500'	5500'	Cement to +/- 1850'
Tubing						
Liners						

**RECEIVED**

Office of Oil & Gas

NOV 14 2007

Packers: Kind  
 Sizes  
 Depths Set

*32269 650*