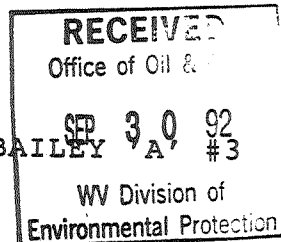




State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work



Farm name: HERSHEY, WENDELL & WESLEY Operator Well No.: BAILEY #3

LOCATION: Elevation: 847.00      Quadrangle: TANNER

District: DEKALB      County: GILMER  
Latitude: 4690 Feet South of 39 Deg. 0 Min. 0 Sec.  
Longitude 80 Feet West of 80 Deg. 52 Min. 30 Sec.

Company: ANGERMAN ASSOC., INC.  
109 ZETA DRIVE  
PITTSBURGH, PA 15238-0000

Agent: WILLIS J. MAXWELL

Inspector: CRAIG DUCKWORTH  
Permit Issued: 11/20/91  
Well work Commenced: 7/9/92  
Well work Completed: 7/14/92  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 6149' KB LTB  
Fresh water depths (ft) 2 1/2" @ 50'  
1" @ 55', 1/2" @ 202'  
Salt water depths (ft) Damp @ 1410'  
Salinity not recorded  
Is coal being mined in area (Y/N)? N  
Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.	Cmt. to surface w/ Class
8-5/8"	1061.25	1061.25		235 sks
4-1/2"	6091.70'	6091.70		932 ft. 3 Poz w/Gils.
1-1/2"	5951.00'	5951.00'		

OPEN FLOW DATA

Producing formation Speechley through Black Shale Pay zone depth (ft) 6017' KB to 2848' KB  
Gas: Initial open flow 39 MCF/d Oil: Initial open flow \_\_\_\_\_ Bbl/d  
Final open flow 885 MCF/d Final open flow \_\_\_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_\_\_ Hours  
Static rock Pressure 1600 psig (surface pressure) after 72 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.

For: ANGERMAN ASSOC., INC.

Reviewed TM6

By: [Signature]  
Date: September 22, 1992 OCY 20 1992

R.

State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Hershey, Wendell & Wesley

Operator Well No.: Bailey "A" #3

Permit No.: 47-21-05014

Details of Perforated Intervals, fracturing or stimulating, physical change, etc.

Formation	Perforations	Treatment		Slurry Rate	Wlhd Pressure
		20/40 Sand Pounds	Volume Form Bbl. 20# gel		
Black Shales	5246-6017 (12)	20,000	338	8.18 bpm	3418 psig
Alexander	4656-4696 (12)	25,000	317	9.01	2519
Benson-Riley	4030-4401 (11)	30,000	400	11.55	2904
		5,000	(80/100)		
Balltown	3602-3647 (14)	30,000	328	11.76	2224

Well Log

Formation Coal Hard or Soft	Top Feet	Bottom Feet	Remarks (Including indication of all fresh and salt water, coal, oil and gas)
KB-GL	0	10	
Fill	10	20	
Sand	20	51	2"-3" stream @ 50'
Sand	51	64	3/4"-1" stream @ 55'
Shale	64	82	
Sand & Shale	82	178	
Red Rock	178	218	1/2" stream @ 202'
Sand	218	255	
Shale & Red Rock	255	298	
Sand	298	318	
Sand & Shale	318	350	
Shale & Red Rock	350	380	
Sandy Shale	380	815	
Sand	815	852	
Sand & Shale	852	885	
Sand	885	1007	
Coal	1007	1011	
Sand & Shale	1011	1180	
Sand	1180	1255	
Sandy Shale	1255	1280	
Sand	1280	1320	
Sandy Shale	1320	1495	Damp @ 1410'
L. Lime	1495	1511	Ck. gas @ 1479' 4/10-1"p w/w
Lime & Shale	1511	1541	Oil odor @ 1511'

State of West Virginia  
 Division of Environmental Protection  
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: Hershey, Wendell & Wesley  
 Permit No.: 47-21-05014

Operator Well No.: Bailey "A" #3

Big Lime	1541	1644	Ck. gas @ 1638' 4/10-1"p w/w
Injun	1644	1686	
Sand & Shale	1686	1824	Ck. gas @ 1702' 4/10-1"p w/w
Weir	1824	1845	Oil @ 1828'
Sand & Shale	1845	1955	Ck. gas @ 1861' 4/10-1"p w/w
Sand & Shale	1955	2145	
Sand & Shale	2145	2480	
Sand	2480	2530	Ck. gas @ 2551' 6/10-1"p w/w
Sandy Shale	2530	2845	Ck. gas @ 2899' 6/10 1"p w/w
Sand	2845	2890	Ck. gas @ 3568' 20/10-1"p w/w
Sandy Shale	2890	3672	
Balltown	3672	3757	
Sand & Shale	3757	4270	Ck. gas @ 3758' 18/10 1" w/w
Sand	4270	4310	Ck. gas @ 4355' 32/10 1"p w/w
Sandy Shale	4310	4413	Ck. gas @ 4450' 30/10 1"p w/w
Sand	4413	4440	Ck. gas @ 4703' 28/10 1"p w/w
Sandy Shale	4440	4630	Ck. gas @ 4955' 30/10 1"p w/w
Sand <i>Alexander (loop)</i>	4630	4695	Ck. gas @ 5493' 20/10 1"p w/w
Sandy Shale	4695	5200	Ck. gas @ TD 14/10 1"p w/w
Black Shale	5200	6121	
Lime <i>on road?</i>	6121	6145	DTD

*appears to be deep  
 enough based on  
 sections*

(Attach separate sheets as necessary)

ANGERMAN ASSOCIATES, INC.

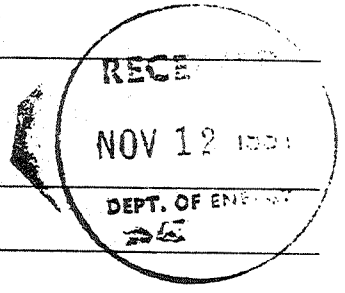
Well Operator

By: *John S. Angerman*

Date: September 22, 1992

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

- 1) Well Operator: 0034 ANGERMAN ASSOCIATES INC. 2200 (2) 633
- 2) Operator's Well Number: BAILEY "A" WELL NO. 3 3) Elevation: 847'
- 4) Well Type: (a) Oil  or Gas   
(b) If Gas: Production  Underground Storage   
Deep  Shallow   
437
- 5) Proposed Target Formation: Marcellus Shale
- 6) Proposed Total Depth: 6100 feet
- 7) Approximate fresh water strata depths: 75'
- 8) Approximate salt water depths: N/A
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes  No
- 11) Proposed Well Work: Drill & Stimulate
- 12)



CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	11-3/4"			40'	0'	0 Sacks
Fresh Water	8-5/8"			800'	800'	CTS 38 sk. CSR 18-11.3
Coal						
Intermediate						
Production	4-1/2"			6100'	6100'	600 +/- sk. CSR 18-11.1
Tubing						
Liners						

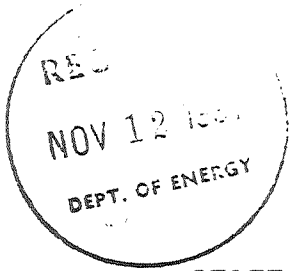
PACKERS : Kind \_\_\_\_\_  
 Sizes \_\_\_\_\_  
 Depths set \_\_\_\_\_

For Division of Oil and Gas Use Only

Fee(s) paid:  Well Work Permit  Reclamation Fund  WPCP

Plat  WW-9  WW-2B  Bond LC  Agent  
 (Type)

020 569  
-29



1) Date: October 17th, 1991  
2) Operator's well number  
BAILEY "A" WELL NO. 3  
3) API Well No: 47 - 021 - 5014  
State - County - Permit

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
- (a) Name Douglas H. Patton  
Address 191 Stonewall Road  
Beckley, WV 25801
  - (b) Name Wendell & Wesley Hershey  
Address RD 2, Box 36 R 22  
Reinholds, PA 17569
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name N/A  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration  
Name N/A  
Address \_\_\_\_\_
- Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector Craig Duckworth  
Address Box 107, Davisson Route  
Gassaway, WV 26624  
Telephone (304)- 364 - 5942
- (c) Coal Lessee with Declaration  
Name N/A  
Address \_\_\_\_\_

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

\_\_\_\_\_ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR XXX Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through 8 on the above named parties, by:

- \_\_\_\_\_ Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- \_\_\_\_\_ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all 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.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator ANGERMAN ASSOCIATES, INC.  
By:  [Signature]  
Its: President  
Address 109 Zeta Drive  
Pittsburgh, PA. 15238  
Telephone (412) 963 - 0550

Subscribed and sworn before me this 17th day of October, 19 91

Rodney U. Moyers Notary Public  
My commission expires June 27 2000