

FILE NO. _____
DRAWING NO. 2512
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION B. M. EAST SIDE OF LEASE ELEV. = 776'

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.
Mark C. Echard
(SIGNED) MARK C. ECHARD
R.P.E. _____ L.L.S. 490



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6 (8-78)

DATE AUGUST 19, 1992
OPERATOR'S WELL NO. TWO
API WELL NO. 47-017-3985
STATE VA COUNTY ROCKWELL PERMIT 3985



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION 776' WATER SHED LITTLE FLINT RUN
DISTRICT GRANT 3 COUNTY DODDRIDGE
QUADRANGLE SMITHBURG 7.5' Centerpoint Wc
SURFACE OWNER KENNETH & BETTY R. HAMILTON, et al ACREAGE 86
OIL & GAS ROYALTY OWNER HOSKINS & ZIGLER HRS. LEASE ACREAGE 86
LEASE NO. _____
PROPOSED WORK: DRILL CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION BENSON-RILEY ESTIMATED DEPTH 5500'
WELL OPERATOR D.A.C. DESIGNATED AGENT KENNETH R. MASON
ADDRESS P.O. BOX 99 280 ADDRESS P.O. BOX 99
ALMA, W.VA. 26320 ALMA, W.VA. 26320

SEP 21 1992

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

Reviewed TMB
Recorded _____

Well Operator's Report of Well Work

Farm name: HAMILTON, KENNETH & BETTY Operator Well No.: LITTLE FLINT #2

LOCATION: Elevation: 776.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 120 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 8000 Feet West of 80 Deg. 42 Min. 30 Sec.

Company: DRILLING APPALACHIAN CORP
P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD
Permit Issued: 09/18/92
Well work Commenced: 9/23/92
Well work Completed: 10/5/92
Verbal Plugging _____
Permission granted on: _____ N/A
Rotary Cable _____ Rig _____
Total Depth (feet) _____ 5032'
Fresh water depths (ft) _____
15', 40', 150'
Salt water depths (ft) _____ 1550'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

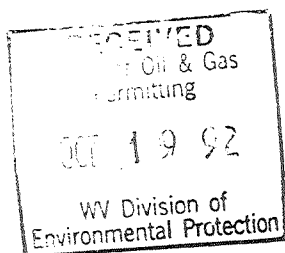
Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			75 sks
11-3/4"	63'	63'	CTS
8-5/8"	946'	946'	220 sks CTS
4-1/2"		4974	200 sks Poz

OPEN FLOW DATA

Producing formation Benson Sand Pay zone depth (ft) 4867-71
Gas: Initial open flow 18 MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 300 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 26 Hours
Static rock Pressure 1500 psig (surface pressure) after 48 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.



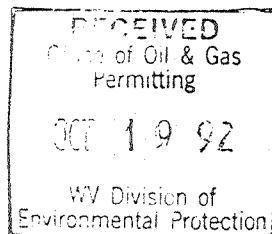
For: DRILLING APPALACHIAN CORP.

By: Kenneth R. Mason
Date: 10/15/92

11/20/92

Perforated at 4867'-71', 16 shots, 0.39" hollow steel carrier.
 Fractured with 20# gel watersystem, 10,000# 80/100, 40,000# 20/40
 sand, 65000 SCF Nitrogen gas. Initial formation break was 1643 psi
 avg treatment pressure was 2914 psi, avg fluid rate was 26.03 bbl/
 Instant shut in pressure was 1917 psi.

Permian			
Sands/Shales	0	500	
Pennsylvanian			
Sands/Shales	500	1764	
Big Lime	1765	1838	
Shale	1839	1843	
Big Injun	1844	1958	Show oil
Shale	1959	2111	
Weir	2112	2202	
Shale	2203	2315	
Gantz Sand	2316	2337	
Shale/Siltstone	2338	2531	
Gordon Sand	2532	2572	
Shale/Siltstone	2573	3201	
Warren	3202	3234	
Shale/Siltstone	3235	4373	
Riley	4374	4434	
Shale/Siltstone	4435	4845	
Benson	4846	4858	Show gas
Shale/Siltstone	4859	5032	
TD		5032	



47017-3985
 Issued 9/18/92
 Page 2 of 5

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

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION ³¹¹ 14425 (3) 610
- 2) Operator's Well Number: 47-17 Little Hunt #2 3) Elevation: 776'
- 4) Well type: (a) Oil / or Gas /
 (b) If Gas: Production / Underground Storage /
 Deep / Shallow /
- 5) Proposed Target Formation(s): BENSON/RILEY ⁴²⁵
- 6) Proposed Total Depth: 5500± feet
- 7) Approximate fresh water strata depths: 495'
- 8) Approximate salt water depths: 1090'
- 9) Approximate coal seam depths: Ⓞ ? 793-18
- 10) Does land contain coal seams tributary to active mine? Yes / No /
- 11) Proposed Well Work: Drill, perforate, stimulate new formation
- 12)

CASING AND TUBING PROGRAM

New Well

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11-3/4"		42#	30'	0'	
Fresh Water						
Coal						
Intermediate	8-5/8"		20#	900'	900'	38CSR18-11.2.2 38CSR18-11.3
Production	4-1/2"	J-55	10½#	4900'	4900'	38CSR18-11.1
Tubing						
Liners						

RECEIVED
 WV Division of Environmental Protection

PACKERS : Kind _____
 Sizes _____
 Depths set _____

SEP 16 92

For Division of Oil and Gas Use Only

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

Plat WW-9 WW-2B Bond *Blanket* Agent

14256

3387
 31

1) Date: Sept. 9, 1992
2) Operator's well number
LITTLE FLINT #2
3) API Well No: 47 - 17 - 3985
State - County - Permit

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

<p>4) Surface Owner(s) to be served: (a) Name <u>Kenneth and Betty Hamilton, et al</u> Address <u>Route 2, Box 287</u> <u>West Union, WV 26456</u> (b) Name <u>Ruby Saccone</u> Address <u>1514 Pearlman Ave.</u> <u>Clarksburg WV 26301</u> (c) Name <u>Jackie Wolfe WILLuhn</u> Address <u>14421 Salisbury Plain Court</u> <u>Centreville, VA 22020</u></p>	<p>5) (a) Coal Operator: Name <u>---</u> Address _____ (b) Coal Owner(s) with Declaration Name <u>---</u> Address _____ (c) Coal Lessee with Declaration Name <u>---</u> Address _____</p>
<p>6) Inspector <u>Mike Underwood</u> Address <u>Rte 2, Box 135</u> <u>Salem, WV 26426</u> Telephone (304)- <u>782-1043</u></p>	

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
x 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 _____ 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 _____ of fine and imprisonment.



OFFICIAL SEAL
Notary Public, State of West Virginia
BETTY FLETCHER
P.O. Box 11
Alma, WV 26320
My commission expires February 13, 2001

RECEIVED
 We, the Operator DRILLING APPALACHIAN CORPORATION
 Environmental Protection Kenneth P. Wilson
 I am: 1-0-92 President
 Address 0 92 P. O. Box 99
 Permitting Alma WV 26320-0099
 Office phone & Gas 304/758-4638

Subscribed and sworn before me this 9th day of Sept., 19 92.
 _____ Notary Public
 My commission expires 2/13/2001