

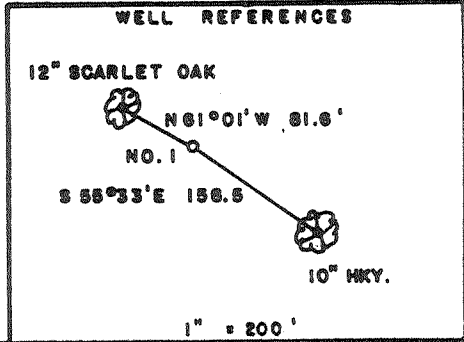
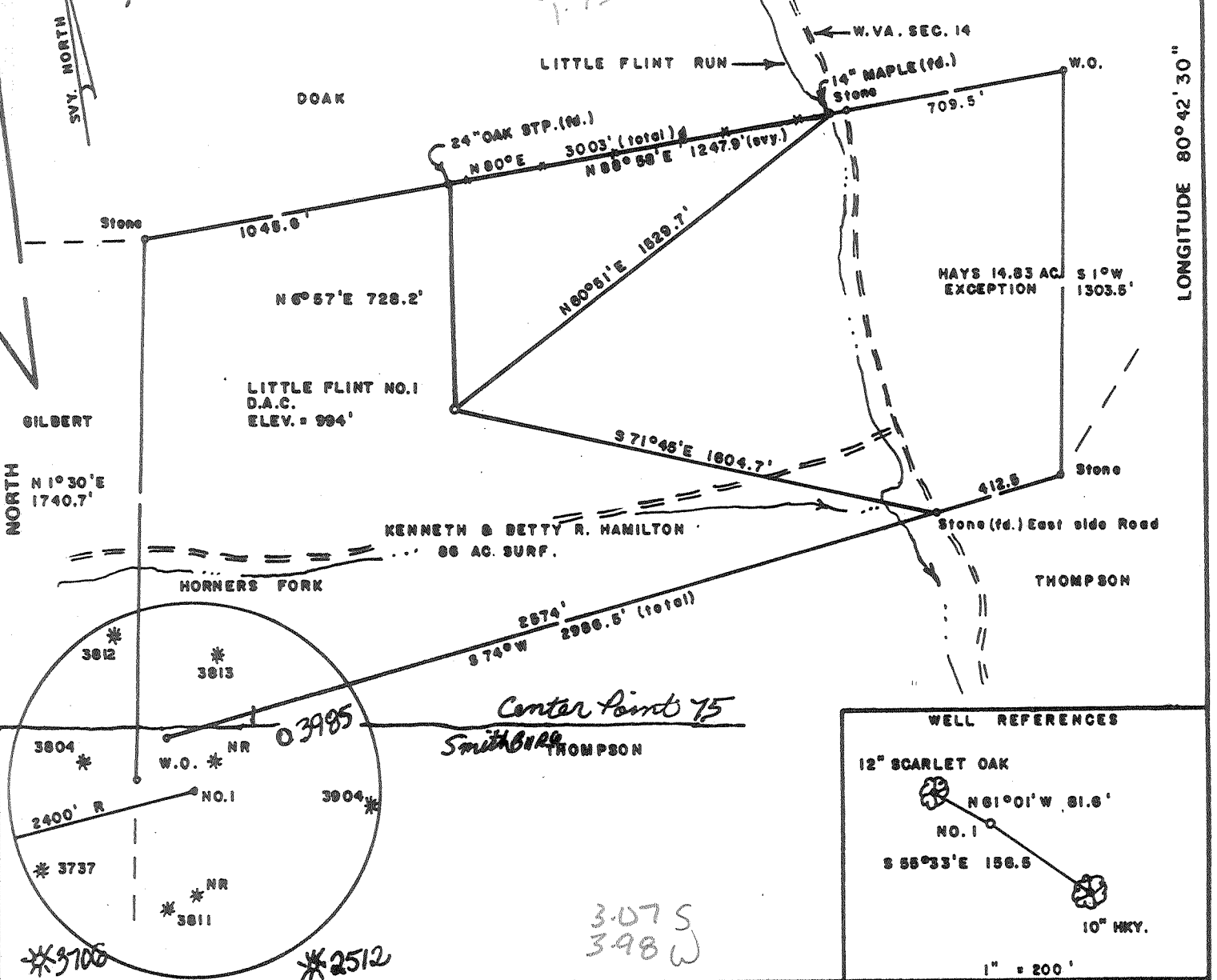
LITTLE FLINT LEASE 86 AC. ±

LATITUDE 39°22'30"

7.5' topo. loc.

Jamil
9/18/92

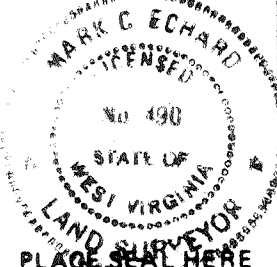
0.125
1.75SW



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION B. N. EAST SIDE
 OF LEASE ELEV. = 778'

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, 19 92
 OPERATOR'S WELL NO. ONE
 API WELL NO. 47-017-3986
 STATE COUNTY PERMIT

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 994' WATER SHED LITTLE FLINT RUN
 DISTRICT GRANT 3 COUNTY DODDRIDGE
 QUADRANGLE SMITHBURG 7.5' Center Point 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

Switzer (Flint Run) (097)

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

Well Operator's Report of Well Work

Farm name: HAMILTON, KENNETH & BETTY Operator Well No.: LITTLE FLINT #1

LOCATION: Elevation: 994.00 Quadrangle: SMITHBURG

District: GRANT County: DODDRIDGE
Latitude: 890 Feet South of 39 Deg. 22Min. 30 Sec.
Longitude 9200 Feet West of 80 Deg. 42 Min. 30 Sec.

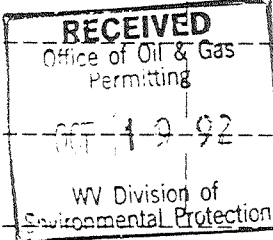
Company: DRILLING APPALACHIAN CORP
P. O. BOX 99
ALMA, WV 26320-0099

Agent: KENNETH R. MASON

Inspector: MIKE UNDERWOOD
Permit Issued: 09/18/92
Well work Commenced: 9/29/92
Well work Completed: 10/12/92
Verbal Plugging
Permission granted on:
Rotary x Cable _____ Rig
Total Depth (feet) 5224'
Fresh water depths (ft) 71 feet
Salt water depths (ft) NONE

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.
8 5/8	1104	1104	to surface 245 sacks
4 1/2		5142	1500 1/2 cu ft 300 sacks



OPEN FLOW DATA

Producing formation BENSON SANDSTONE Pay zone depth (ft) 5061
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 412 MCF/d Final open flow -0- Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure 1400 psig (surface pressure) after _____ 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.

Reviewed TMG
Recorded _____

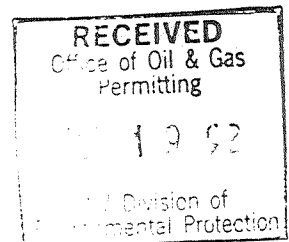
For: DRILLING APPALACHIAN CORP.
By: Kenneth Mason
Date: 10-12-92

11/20/92

GEOLOGICAL WELL RECORD DATA

WELL NAME: Little Flint #1
 PERMIT NUMBER: 47-017-03986

FORMATION	TOP	BOTTOM	
Soil, Sub-Soil,			
Broken Sand	0	50	
Red Shale	50	105	Water
Coal 1938	105	108	
Shale	108	208	
Red Sand	208	350	
Shale	350	420	
Sand	420	510	
Coal 1938	510	514	
Red Sand	514	620	
Shale	620	750	
Sand	750	840	
Red Sand	840	960	
Shale	960	1040	
Sand	1040	1157	
Shale	1157	1430	
Sand	1430	1480	
Shale	1480	1500	
Sand	1500	1660	
Shale	1660	1722	
Sand	1722	1796	
Maxon Sandstone	1796	1838	
Shale	1838	1938	
Little Lime	1938	1948	Slight Snow gas
Shale	1948	1974	
Big Lime	1974	2034	
Keener Sandstone	2034	2052	
Big Injun Sandstone	2052	2184	Show Oil and Gas
Pocono Shale	2184	2321	
Weir sandy-shale	2321	2408	
Pocono Shale	2408	2457	
Berea Cap	2457		
Hampshire Shale	2458	2525	
30 Ft Sandstone	2525	2546	
Hampshire Shale	2546	2734	
Gordon Sandstone	2734	2768	Show Oil and Gas
Hampshire Shale	2768	3050	
Chemung Shale	3050	3400	
Warren Shale	3400	3443	
Chemung Shale	3443	4606	
Riley Sandy-Shale	4606	4651	
Chemung Shale	4651	5058	
Benson Sandstone	5058	5065	Show Gas
Chemung Shale	5065	5224	



017 3986

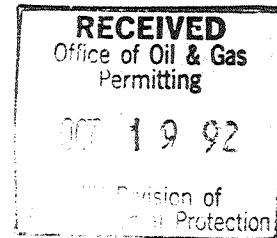
WELL TREATMENT SCHEDULE

Benson Sand Perforated with 16 holes 5161-5164
Depths taken from Cased Hole Log

Formation Breakdown 2338 PSI

Water and Sand Stimulation with N2 Assist
Average Pumping Rate 18.94 barrels per min.
Average Treating Pressure 2476 PSI

Material Used
727 barrels of gel treated water
400 sacks of 20/40 Sand
100 sacks of 80/100 Sand
153,000 scf of Nitrogen



NOV 6 1992

47-017-39960

Issued 9/18/92 Page 3 of 5

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

Expires 9/18/94

- 1) Well Operator: DRILLING APPALACHIAN CORPORATION 14425 (3) 610
2) Operator's Well Number: Little Flint #1
3) Elevation: 994'
4) Well type: (a) Oil X/ or Gas X/
(b) If Gas: Production X/ Undergound Storage Deep Shallow X/
5) Proposed Target Formation(s): Benson/Riley 425
6) Proposed Total Depth: 5500± feet
7) Approximate fresh water strata depths: 100' 703'
8) Approximate salt water depths: 1298' 1300'
9) Approximate coal seam depths: 1001' - 1ft.
10) Does land contain coal seams tributary to active mine? Yes No X
11) Proposed Well Work: Drill, perforate, stimulate new formation
12) New Well

CASING AND TUBING PROGRAM

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up (cu. ft.)). Rows include Conductor, Fresh Water, Coal, Intermediate, Production, Tubing, Liners.

RECEIVED

WV Division of Environmental Protection

SEP 17 92

Permitting Office of Oil & Gas

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 Blanket Agent

1) Date: September 1, 1992
2) Operator's well number
Little Flint #1
3) API Well No: 47 - 17 - 03986
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:</p> <p>(a) Name <u>Kenneth & Betty Hamilton, et al</u> Address <u>Route 2, Box 287</u> <u>West Union, WV 26456</u></p> <p>(b) Name <u>Ruby Saccone</u> Address <u>1514 Pearlman Avenue</u> <u>Clarksburg, WV 26301</u></p> <p>(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 _____</p> <p>(b) Coal Owner(s) with Declaration Name <u>---</u> Address _____</p> <p>Name _____ Address _____</p> <p>(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 <u>(304) - 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)

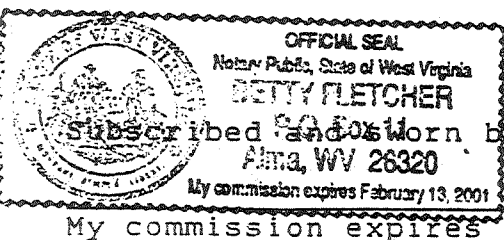
I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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 possibility of fine and imprisonment.

RECEIVED
Division of Operator
Environmental Protection

Address DRILLING APPALACHIAN CORPORATION
Kenneth Flason
President
P. O. Box 99
Alma, WV 26320-0099
304/758-4638



Subscribed and sworn to before me this 1st day of September, 1992

Betty Fletcher Notary Public
February 13, 2001