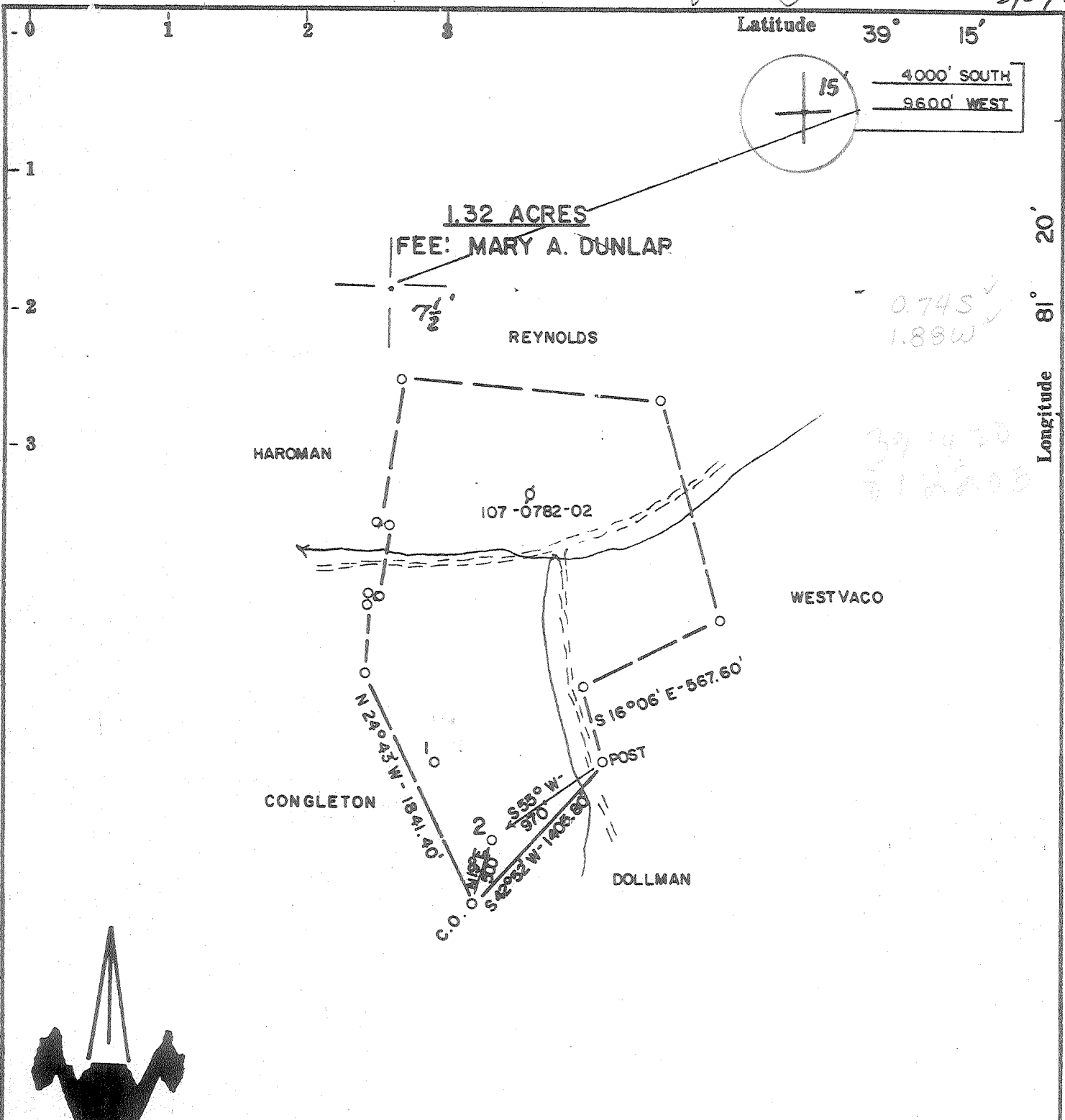


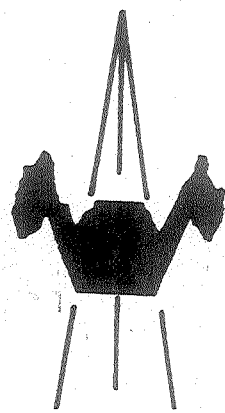
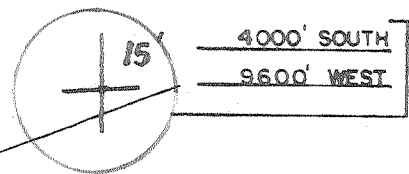
5/20/79 R



0.745  
1.88W

39 14 30  
81 22 00

Longitude 20'  
81'



ACCURACY: 1' / 200'

Source of Elevation B.M. PLEASANT VALLEY CHURCH (7.33')

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

- New Location  OIL
- Drill Deeper
- Abandonment
- Fracture
- Redrill

BEREA 2500'

*Chet Waterman*

Company	<u>DUNLAP OIL &amp; GAS COMPANY</u>		
Address	<u>HUNTINGTON, WV</u>		
Farm	<u>M. A. DUNLAP</u>		
Tract	Acres <u>1.32</u>	Lease No.	
Well (Farm) No.	<u>2</u>	Serial No.	
Elevation (Spirit Level)	<u>920'</u>		<i>NC</i>
Quadrangle	<u>PETROLEUM (7.5'), ELIZABETH 15'</u>		
County	<u>WOOD</u>	District	<u>WALKER</u>
Engineer	<u>CHET WATERMAN</u>		
Engineer's Registration No.	<u>3788</u>		
File No.	<u>79-160</u>	Drawing No.	
Date	<u>3/14/79</u>	Scale	<u>1" = 1000'</u>

STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
CHARLESTON

**WELL LOCATION MAP**

FILE NO. 47-107-893

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

JUN 14 1979

3000 River 6-6 Hendershot-Ogden (72)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
**Oil and Gas Division**  
**WELL RECORD**

Rotary  Oil   
Cable \_\_\_\_\_ Gas   
Recycling \_\_\_\_\_ Comb. \_\_\_\_\_  
Water Flood \_\_\_\_\_ Storage \_\_\_\_\_  
Disposal \_\_\_\_\_ (Kind) \_\_\_\_\_

Quadrangle Pertoleum  
Permit No. 47-107-0893

Company Dunlap Oil and Gas  
Address P.O. Box 8129-Huntington, W.Va.  
Farm Mary A. Dunlap Acres \_\_\_\_\_  
Location (waters) \_\_\_\_\_  
Well No. -2- Elev. 920'  
District Walker County Wood  
The surface of tract is owned in fee by Mary A. Dunlap  
Address Route 2-Walker, W.Va.  
Mineral rights are owned by Mary A. Dunlap  
Address Rt. #2-Walker, W.Va.  
Drilling Commenced 6-12-79  
Drilling Completed 6-15-79  
Initial open flow 5000 cu. ft. 1 bbls.  
Final production 29,000 cu. ft. per day 20 bbls.  
Well open 24 hrs. before test 660 RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			To Surface
Cond. 13-10"			
9 5/8			
8 5/8	250'	250'	
7			
5 1/2			
4 1/2		2326'	
3			
2			
Liners Used			

100 Pass

Well treatment details:  
61.5 Bbls. Water and 28000# 20/40 Sand

Attach copy of cementing record.

20 B0+29 MCF

Coal was encountered at None Feet \_\_\_\_\_ Inches \_\_\_\_\_  
Fresh water Yes Feet 50' Salt Water Yes Feet 80'  
Producing Sand Berea Depth 2269-82'

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Top Soil			-0-	-30-		
Rock			30	90		
Sand			90	120		
Rock			120	290		
Slate			290	380		
Sand			380	410		
Rock			410	505		
Slate			505	560		
Sand			560	590		
Slate			590	640		
Sand			640	770		
Rock			770	800		
Sand			800	940		
Slate			940	980		
Sand			980	1040		
Slate			1040	1060		
Lime			1060	1140		
Slate			1140	1180		
Sand			1180	1230		
Slate			1230	1320		
Sand			1320	1340		
Lime			1340	1370		
Sand			1370	1410		
Slate			1410	1610		

(over)

\* Indicates Electric Log tops in the remarks section.

Formation	Color	Hard or Soft	Top Feet <small>20</small>	Bottom Feet	Oil, Gas or Water	Remarks
Sand			1610	1620		
Slate			1620	1720		
Lime			1720	1810		
Slate			1810	1840		
Sand			1840	1970		
Slate			1970	2269		
Sand			2269	2182		
Slate			2282	2326		
T.D.			2326 ✓			

Date 7-16 19 79

APPROVED Dunlap Oil and Gas

Owner

By

*Russ Clark*  
Owner (Title)



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

MAY 29 1979  
OIL & GAS DIVISION  
DEPT. OF MINES

Oil and Gas Division

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,  
Charleston, W. Va.

DATE 5-29-79

Surface Owner Mary A. Dunlap

Company Dunlap Oil and Gas Company

Address Walker, W. Va.

Address P.O. Box 8129-Huntington, W. Va. 25705

Mineral Owner Mary A. Dunlap

Farm Dunlap Acres 132

Address Walker, W. Va.

Location (waters) \_\_\_\_\_

Coal Owner None

Well No. -2- Elevation 920'

Address \_\_\_\_\_

District Walker County Wood

Coal Operator \_\_\_\_\_

Quadrangle Petroleum

Address \_\_\_\_\_

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 1-31-80.

INSPECTOR  
TO BE NOTIFIED Paul Goodknight

ADDRESS Smithville, W. Va.

PHONE 477-3660

Deputy Director, Oil & Gas Division  
GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated March 8th. 1978 by Mary A. Dunlap made to North Hills Investment Co. and recorded on the 8th. day of March 1978, in Wood County, Book 701 Page 217  
X NEW WELL \_\_\_\_\_ DRILL DEEPER \_\_\_\_\_ REDRILL \_\_\_\_\_ FRACTURE OR STIMULATE  
\_\_\_\_\_ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. \*

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address \_\_\_\_\_ day \_\_\_\_\_ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL  
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND  
ECONOMIC SURVEY  
P. O. BOX 879  
MORGANTOWN, WEST VIRGINIA 26505  
AC-304 - 292-6331

Address  
of  
Well Operator

Very truly yours, Dunlap Oil and Gas Co.  
(Sign Name) BY: James Chubb Partner  
Well Operator  
P.O. Box 8129  
Street  
Huntington,  
City or Town  
W. Va. 25705  
State

\*SECTION 3 . . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

47-107-0893 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by \_\_\_\_\_

BOND DRILL

**THIS IS AN ESTIMATE ONLY**  
**ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL \_\_\_\_\_ DEEPEN \_\_\_\_\_ FRACTURE-STIMULATE \_\_\_\_\_  
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:  
 NAME Clint H. Hurt Associates, Inc. NAME Robert Weeks  
 ADDRESS Elkview, W.Va. ADDRESS P.O. Box 8129-Huntington, W.Va.  
 TELEPHONE 344-2401 TELEPHONE 522-2553  
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' ROTARY X CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Berea & Gordon  
 TYPE OF WELL: OIL X GAS X COMB. \_\_\_\_\_ STORAGE \_\_\_\_\_ DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16	20'	20'	
13 - 10			
9 - 5/8			
8 - 5/8	250'	250'	To Surface
7			
5 1/2			
4 1/2		3000'	100 Bags
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 85' FEET SALT WATER 1980' FEET  
 APPROXIMATE COAL DEPTHS None  
 IS COAL BEING MINED IN THE AREA? No BY WHOM? \_\_\_\_\_

TO DRILL:  
 SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:  
 SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:  
 OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.  
 OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.  
 Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for \_\_\_\_\_ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.  
 We the \_\_\_\_\_ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

\_\_\_\_\_  
 For Coal Company  
 \_\_\_\_\_  
 Official Title