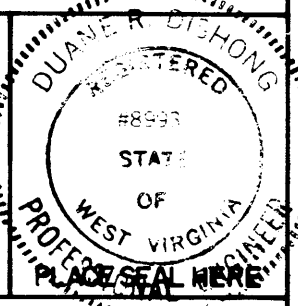


FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 1320'  
 MINIMUM DEGREE OF ACCURACY 1' IN 200'  
 PROVEN SOURCE OF ELEVATION B.M. AT MOBLEY  
ELEV. = 885'

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.  
 (SIGNED) Duane R. Dishong  
 R.P.E. 8993 L.L.S. \_\_\_\_\_



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



DATE JUNE 25, 19 84  
 OPERATOR'S WELL NO. 1-213  
 API WELL NO. Rework  
47 - 103 - 0798-20  
 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 850' WATER SHED NORTH FORK FISHING CREEK  
 DISTRICT GRANT 4 COUNTY WETZEL  
 QUADRANGLE BIG RUN 254 067 Littleton 15' SEa  
 SURFACE OWNER BERNICE KILCOYNE ACREAGE 1004  
 OIL & GAS ROYALTY OWNER HOPE NATURAL GAS CO. LEASE ACREAGE 1004  
 LEASE NO. 6740  
 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 BAYARD ESTIMATED DEPTH 3200'  
 WELL OPERATOR CARNEGIE NATURAL GAS CO. DESIGNATED AGENT J.C. STEPHENSON, DIVISION SUPERINTENDENT  
 ADDRESS 155 800 REGIS AVE. ADDRESS PO. BOX 387  
PITTSBURGH, PA. 15236 MANNINGTON, WV 26582

OWWO 6-0 Fallen Timber (mobley) SEP 24 1984 (46) SEP 24 1984 L.E.M.

WR-35

RECEIVED  
DEPARTMENT OF ENERGY



State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

MAY 9 1986

Date May 2, 1986  
Operator's  
Well No. 213 (Lease 6740)  
Farm M. Barr  
API No. 47 - 103 - 0798-DB

WELL OPERATOR'S REPORT  
OF  
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil    / Gas X / Liquid Injection    / Waste Disposal    /  
(If "Gas," Production X / Underground Storage    / Deep    / Shallow X /)

LOCATION: Elevation: 870' Watershed North Fork of Fishing Creek  
District: Grant County Wetzel Quadrangle Big Run

COMPANY Carnegie Natural Gas Company  
ADDRESS 800 Regis Ave., Pgh., PA 15236  
DESIGNATED AGENT J. C. Stephenson  
ADDRESS Box 387, Mannington, WV 26582  
SURFACE OWNER William Kilcoyne  
ADDRESS Rt. 1, Smithfield, WV 26437  
MINERAL RIGHTS OWNER Hope Natural Gas Co.  
ADDRESS 445 W. Main St., Clarksburg, WV  
OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther  
ADDRESS Middlebourne, WV  
PERMIT ISSUED August 31, 1984  
Clean Out  
DRILLING COMMENCED September 18, 1984  
Clean Out  
DRILLING COMPLETED July 29, 1985  
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
<del>XX</del> 10"	519'	519'	
9 5/8			
8 5/8 1/4	600'	600'	
7	1858'	1858'	
5 1/2			
4 1/2			
3			
2		2715'	
Liners used			

GEOLOGICAL TARGET FORMATION Bayard Depth 3200 feet  
Depth of completed well 2720 feet Rotary    / Cable Tools X  
Water strata depth: Fresh    feet; Salt    feet  
Coal seam depths: 600' - 608' Is coal being mined in the area? No

OPEN FLOW DATA  
Producing formation Gantz Pay zone depth 2685 feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow 15 Mcf/d Final open flow    Bbl/d  
Time of open flow between initial and final tests    hours  
Static rock pressure 170 psig (surface measurement) after 65 hours shut in  
(If applicable due to multiple completion--)  
Second producing formation    Pay zone depth    feet  
Gas: Initial open flow    Mcf/d Oil: Initial open flow    Bbl/d  
Final open flow    Mcf/d Oil: Final open flow    Bbl/d  
Time of open flow between initial and final tests    hours  
Static rock pressure    psig (surface measurement) after    hours shut in

MAY 19 1986  
(Continue on reverse side)

**DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.**

The well was drilled in 1908 to a total depth of 2762' and tubed with 2762' of 3". The clean out was commenced on 9-18-84. 2720' of 3" tubing was cut and pulled and the well was cleaned out to 2720'. Fishing operations were discontinued on 7-29-85. The well was logged and 2715' of 2" tubing was run on a 5" x 2" Hookwall packer.

**WELL LOG**

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
Sand & Shale			0'	1790	
Little Lime			1790	1804	
Pencil Cave			1804	1819	
Big Lime			1819	1879	
Big Injun	GRN + PP		1879	2099	
Shale			2099	2218	
Weir			2218	2299	
Shale			2299	2422	
Berea			2422	2467	
Shale			2467	2548	
Gantz			2548	2599	
Shale			2599	2720	
Cleaned Out Total Depth					2720'

(Attach separate sheets as necessary)

Carnegie Natural Gas Company  
Well Operator

By: Kenneth G. Dunay

Date: May 2, 1986

**Note: Regulation 2.02(i) provides as follows:**  
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



1) Date: July 24, 19 84  
 2) Operator's Well No. 1-213  
 3) API Well No. 47 - 103 - 0798-DD  
 State                      County                      Permit                     

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

- 4) WELL TYPE: A Oil            / Gas X / B (If "Gas", Production X / Underground storage            / Deep            / Shallow X)  
 5) LOCATION: Elevation: 870' / Watershed: North Fork of Fishing Creek 0690  
 District: Grant / County: Wetzel / Quadrangle: Big Run  
 6) WELL OPERATOR Carnegie Natural Gas Co. / 7) DESIGNATED AGENT J. C. Stephenson  
 Address 800 Regis Avenue / Address Box 387  
Pittsburgh, PA 15236 / Mannington, WV 26582  
 8) OIL & GAS INSPECTOR TO BE NOTIFIED / 9) DRILLING CONTRACTOR:  
 Name Robert Lowther / Name Company Tools  
 Address General Delivery / Address                       
Middlebourne, WV 26149  
 10) PROPOSED WELL WORK: Drill            / Drill deeper X / Redrill            / Stimulate             
 Plug off old formation            / Perforate new formation             
 Other physical change in well (specify)                       
 11) GEOLOGICAL TARGET FORMATION, Bayard  
 12) Estimated depth of completed well, 3200 feet  
 13) Approximate strata depths: Fresh, Behind Pipe feet; salt, None feet.  
 14) Approximate coal seam depths: 600' - 608' Is coal being mined in the area? Yes

**RECEIVED**  
 JUL 30 1984

OIL & GAS DIVISION  
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well		
Conductor									Kinds
Fresh water *	10"					519'	519'		
Coal *	8 1/4"					600'	600'		Sizes
Intermediate *	6 5/8"					1858'	1858'		
Production	5.5"	J-55	9.20	X			3200'	<i>cement to tie in to 6 5/8" casing</i>	Depths set
Tubing									
Liners									Perforations:
									Top Bottom

\*Existing Pipe In Well

OFFICE USE ONLY  
 DRILLING PERMIT

Permit number 47-103-0798-DD Date August 31, 19 84

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires August 31, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>32</u> BLANKET	Agent: <u>lp</u>	Plat: <u>MH</u>	Casing: <u>MH</u>	Fee: <u>147-319</u>
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Margaret J. Wasse  
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.