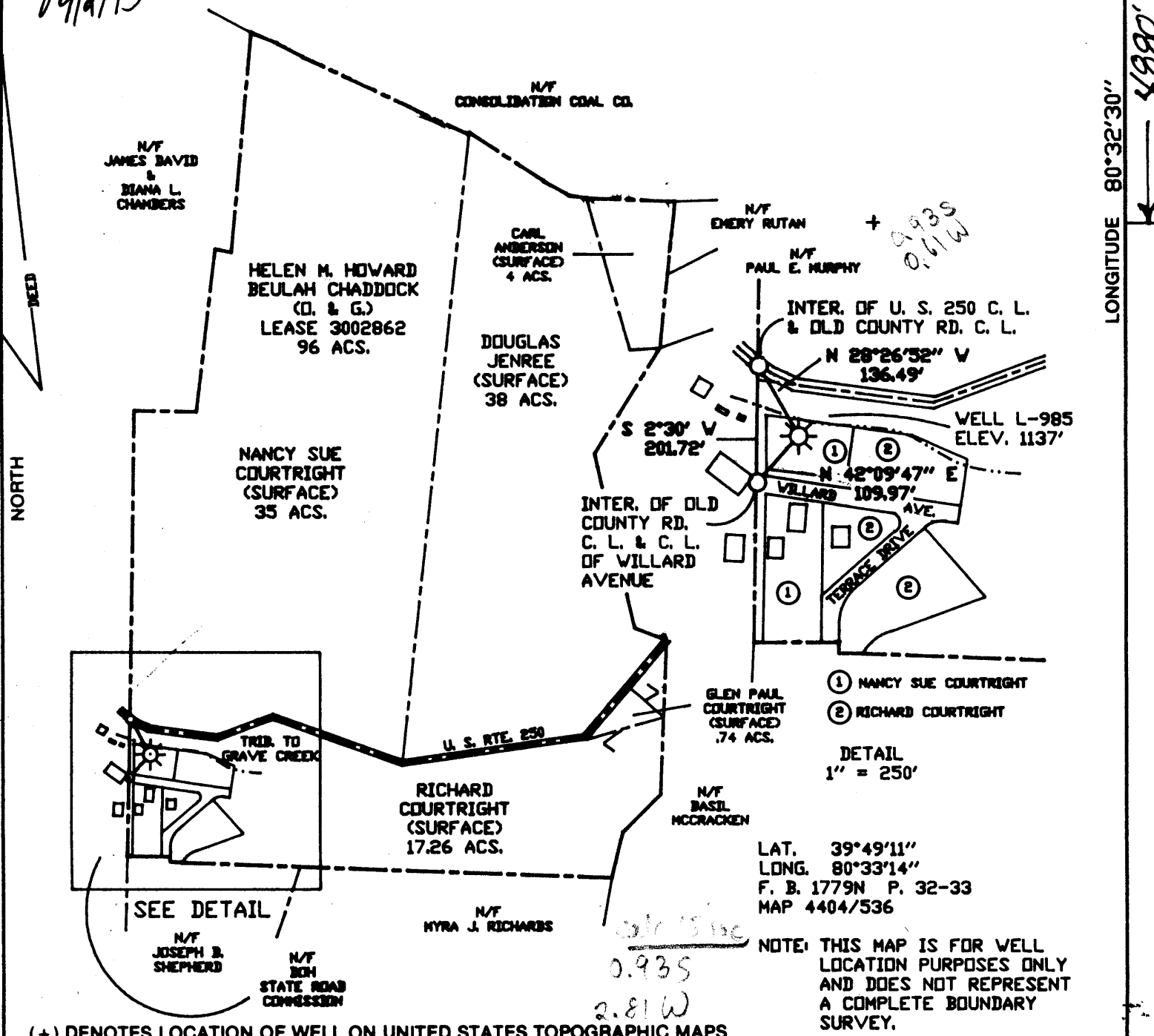


← 3500' →

LATITUDE 39°50'00"

LONGITUDE 80°32'08"

Janice
9/2/93



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1/2500
 PROVEN SOURCE OF ELEVATION BM E127 770.09'

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) *Paul E. Cooper* 8/12/93 #945
 R.P.E. _____ L.L.S. _____



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE AUGUST 9, 19 93
 OPERATOR'S WELL NO. L-985
 API WELL NO. 47-051-611-T
 STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1137' WATERSHED GRAVE CREEK
 DISTRICT LIBERTY COUNTY MARSHALL
 QUADRANGLE CAMERON 155E
 SURFACE OWNER NANCY SUE COURTRIGHT ACREAGE 0.34
 OIL & GAS ROYALTY OWNER H. HOWARD & B. CHADDOCK LEASE ACREAGE 96
 LEASE NO. 3002862

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) *stone well*
 PLAT PREPARED AT THE REQUEST OF THE STATE OF WEST VIRGINIA
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG 9-9 Cameron (024)
 TARGET FORMATION _____ ESTIMATED DEPTH _____
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT *Dick Coty*

COUNTY NAME

PERMIT

FORM IV-6 (8-78)



RECEIVED

Environmental Protection

MAY 03 83

Permitting Office of Oil & Gas

WR-35

State of West Virginia

DEPARTMENT OF ENERGY

Oil and Gas Division

Date April 20, 1993

Operator's

Well No. L-985

Farm L.L. Howard

API No. 47 - 051 - 00611

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 X / Deep / Shallow /)

LOCATION: Elevation: 1205 Watershed Laurel Run District: Liberty County Marshall Quadrangle Cameron SE

COMPANY Columbia Gas Transmission Corp.

ADDRESS P. O. Box 1273, Charleston, WV 25325

DESIGNATED AGENT R.C. Weidner

ADDRESS SAME

SURFACE OWNER Helen M. Howard et al.

ADDRESS 508 Chestnut Lane, Jeannette, PA 15644

MINERAL RIGHTS OWNER SAME

ADDRESS

OIL AND GAS INSPECTOR FOR THIS WORK

R. Mick ADDRESS 111 Blockshere Dr. Mannington, WV 26582

PERMIT ISSUED ASSIGNED 1978

DRILLING COMMENCED Unknown

DRILLING COMPLETED 1-30-1896

IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Table with 4 columns: Casing & Tubing, Used in Drilling, Left in Well, Cement fill up Cu. ft. Includes a 'RECEIVED' stamp from WV Division of Environmental Protection dated MAY 05 83.

17173

GEOLOGICAL TARGET FORMATION Gordon Stray Depth 2755 feet

Depth of completed well 2755 feet Rotary / Cable Tools X

Water strata depth: Fresh feet; Salt 1680 feet

Coal seam depths: 720 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Gordon Stray Pay zone depth 2755 feet

Gas: Initial open flow 1320 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 NA psig (surface measurement) after 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

MARK 06/11

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

The well record doesn't indicate any perforations or stimulating ever occurring.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Pittsburgh Coal			720		
Dunkard Sand			1260		
Lime			1355		
Salt Sand			1680		
Big Lime			1900		
Big Injun			2025	2140	
Slate			2490		
Red Rock			2665		
50' Sand			2705	2720	
Gordon Stray			2755		

RECEIVED
 WV Division of
 Environmental Protection
 MAY 05 93
 Permitting
 Office of Oil & Gas

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation
 Well Operator

By: Robert C. Weidner

Date: 04/29/93

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."

L.L. Howard NUMBER - 985

This well was shut out
Jan. 1988 to 1992.

No Production 000.000

API number

47-051-00611

RECEIVED

WV Division of
Environmental Protection

MAY 05 93

Permitting
Office of Oil & Gas

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WV Division of
Environmental Protection

MAY 05 93

Permitting
Office of Oil & Gas

MAY 07 1993

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
SECTION OF OIL AND GAS

WELL WORK PERMIT

This permit, issued to COLUMBIA GAS TRANSMISSION CORP. is evidence of permission granted to perform the specified well work at the location described on the attached plat, subject to the provisions of Chapters 22 and 22B of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given to the Oil and Gas Inspector RANDAL MICK at 304-986-3324 prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be reported to 1-800-654-3312.

Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and in addition may result in civil and/or criminal penalties.

Well work to be conducted under this permit shall be commenced within two (2) years from date of issue.

Theodore M. Streit
Chief

By: 

Title: 

Operator's Well No: L.L. HOWARD 985

Farm Name: COURTRIGHT, NANCY SUE

API Well Number : 47- 51-00611 T

Date Issued : 09/01/93

Expires two (2) years from issue date.