

*James*  
9/2/93

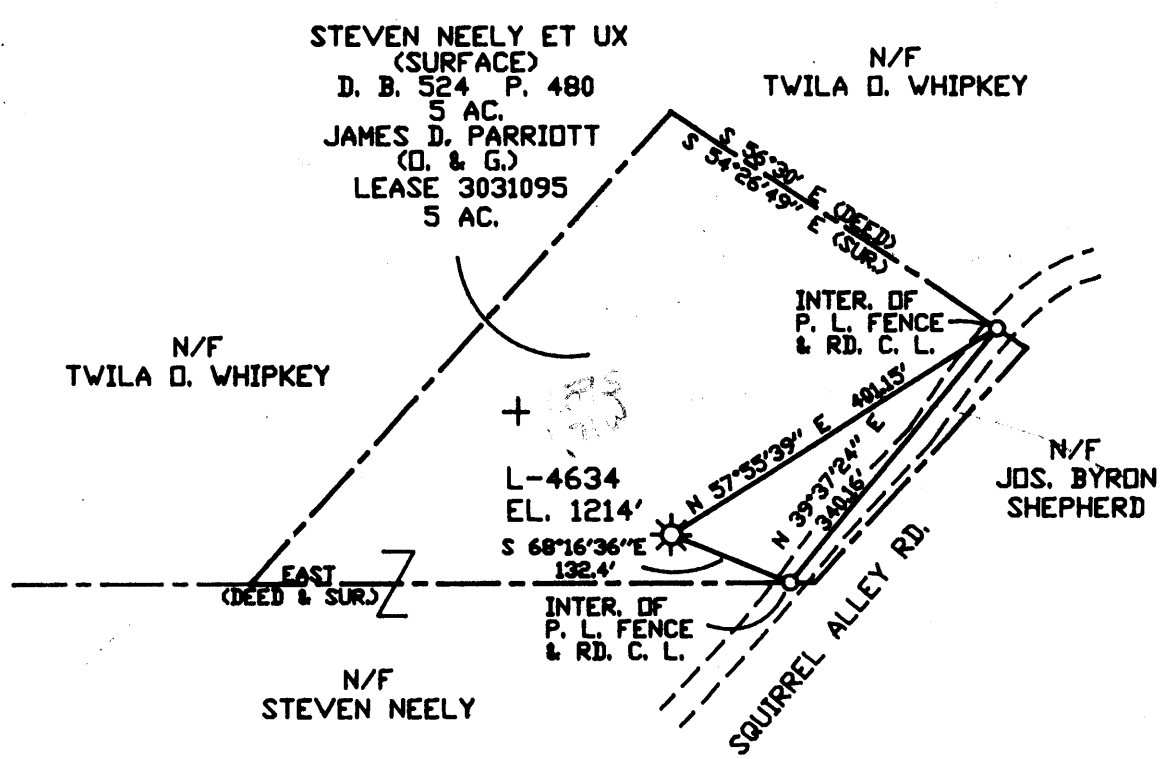
9100'

LATITUDE 39°50'00"

LONGITUDE 80°32'30"

8360'

NORTH



LAT. 39°48'37"  
 LONG. 80°34'26"  
 F. B. 1779N P. 31  
 MAP 4404/536

NOTE: THIS MAP IS FOR WELL LOCATION PURPOSES ONLY AND DOES NOT REPRESENT A COMPLETE BOUNDARY SURVEY.

1.595  
 3.91W

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

FILE NO. \_\_\_\_\_  
 DRAWING NO. \_\_\_\_\_  
 SCALE 1" = 200'  
 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) *Neil E. Lyon* 8/12/93  
 R.P.E. \_\_\_\_\_ L.L.S. # 945



STATE OF WEST VIRGINIA  
 DEPARTMENT OF MINES  
 OIL AND GAS DIVISION



DATE AUG. 12, 19 93  
 OPERATOR'S WELL NO. L-4634  
 API WELL NO. 47-051-610-T  
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS  LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS,") PRODUCTION STORAGE  DEEP SHALLOW  
 LOCATION: ELEVATION 1214' WATERSHED FISH CREEK  
 DISTRICT LIBERTY COUNTY MARSHALL  
 QUADRANGLE CAMERON 15'SE  
 SURFACE OWNER STEVEN NEELY ET UX ACREAGE 5  
 OIL & GAS ROYALTY OWNER JAMES D. PARRIOTT LEASE ACREAGE 5  
 LEASE NO. 3031095

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_  
 PLAT PREPARED AT THE REQUEST OF THE STATE OF WEST VIRGINIA *Stover well*

PLUG AND ABANDON CLEAN OUT AND REPLUG 9-0 Cameron 024  
 TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT *Dick Coty*

COUNTY NAME PERMIT

SEP 3 1993

FORM IV-6 (8-78)

WR-35

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State of West Virginia  
DEPARTMENT OF ENERGY  
Oil and Gas Division

Date April 20, 1993  
Operator's  
Well No. L-4634  
Farm H. Strickland #3  
API No. 47 - 051 - 00610

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: 1214 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 Mildred Gump  
ADDRESS 175 State St., Cameron, WV 26033  
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 RECONDITIONING 5-23-63~~  
~~DRILLING COMPLETED RECONDITIONING 9-27-63~~  
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.			
13-10"		159'	Returns to Surface
9 5/8			
8 5/8		1240'	Returns to Surface
7		1961'	Returns to Surface
5 1/2			
4 1/2			Returns to Surface
3			
2			
Liners used			

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GEOLOGICAL TARGET FORMATION Gordon Depth 2856-2880 feet  
Depth of completed well 2929 feet Rotary \_\_\_ / Cable Tools X  
Water strata depth: Fresh \_\_\_ feet; Salt 1660-1694 feet  
Coal seam depths: 850 - 858 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Gordon Pay zone depth 2856-2880 feet  
Gas: Initial open flow N/A Mcf/d Oil: Initial open flow \_\_\_ Bbl/d  
Final open flow 105 Mcf/d Final open flow \_\_\_ Bbl/d  
Time of open flow between initial and final tests \_\_\_ hours  
Static rock pressure 41 psig (surface measurement) after 48 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

17172

MAR 06 10

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

See Attached Sheet.

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			850	858	
Murphy Sand			962	972	
Big Dunkard			1325	1375	
2nd Salt			1660	1694	
Maxton			1854	1870	
Lower Maxton			1942	1950	
Big Lime			1954	1990	
Big Injun			1994	2256	
30' Sand			2608	2624	
50' Sand			2648	2672	
Gordon Stray			2802	2816	
Gordon			2856	2880	
Total Depth				2929	

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(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."

Well 4634

The well was originally drilled for production (date unknown), purchased from the Cameron Gas Company, then reconditioned in September 1963. The following is the reconditioning procedure:

- Ran 159' of 10 3/4" smls csg set on a Steel Shoe at 159'. Cemented with 150 sks. Good returns to surface.
- Ran 910' of 8 5/8" smls csg w/ Steel Die Nipple and connected it to existing 350' of 8 5/8" csg. set at 1260'. Cemented with 350 sks. Good returns to surface.
- Ran 1961' of 7" smls. csg on a steel casing shoe set at 1961'. Cemented with 300 sks. Good returns to surface.
- Drilled 6" hole to 2898'. Ran 2898' of 4 1/2" smls tbg on a Float Shoe set at 2898' and cemented with 550 sks. cement. Good returns to surface. Well was perforated from 2812 - 2814, 2860 - 2880, and 2880-2884.

Well is presently being produced from the Gordon thru the 4 1/2" tbg into Cameron Gas Company's lines. Columbia Gas Transmission monitors the well for storage gas migration purposes.

4/20/93

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MAY 07 1993

4634

Stricklin Well 1988

Jan 1988	6902.00
Feb 1988	4,267.00
March 1988	1,502.00
April 1988	2,516.00
May 1988	1,947.00
June 1988	1,037.00
July 1988	888.00
Aug 1988	560.00
Sept 1988	1,374.00
Oct 1988	2,362.00
Nov 1988	3,097.00
Dec 1988	4,468.00

Well NUMBER

Stricklin Well 1989

Jan 1989	3,602.00
Feb 1989	4,051.00
March 1989	3,614.00
April 1989	3,049.00
May 1989	1,771.00
June 1989	1,562.00
July 1989	965.00
Aug 1989	247.00
Sept 1989	000.00
Oct 1989	2,868.00
Nov 1989	1,182.00
Dec 1989	3,810.00

TOTAL Production 30,020.00

TOTAL Production 26,721.00

Stricklin Well 1990

Jan 1990	2,910.00
Feb 1990	2,529.00
March 1990	2,328.00
April 1990	2,787.00
May 1990	430.00
June 1990	000.00
July 1990	000.00
Aug 1990	195.00
Sept 1990	615.00
Oct 1990	2,988.00
Nov 1990	3,815.00
Dec 1990	2,000.00

Stricklin Well 1991

Jan 1991	3,951.00
Feb 1991	4,494.00
March 1991	3,580.00
April 1991	1,725.00
May 1991	866.00
June 1991	1,432.00
July 1991	1,290.00
Aug 1991	1,334.00
Sept 1991	1,270.00
Oct 1991	2,507.00
Nov 1991	3,576.00
Dec 1991	2,745.00

TOTAL Production 20,597.00

TOTAL Production 28,770.00

API Number  
47-051-00610

Stricklin Well 1992

Jan 1992	3,884.00
Feb 1992	4,693.00
March 1992	3,089.00
April 1992	2,507.00
May 1992	2,248.00
June 1992	1,677.00
July 1992	1,138.00
Aug 1992	869.00
Sept 1992	486.00
Oct 1992	1,063.00
Nov 1992	2,759.00
Dec 1992	3,732.00

= 28,145.00

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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: *Janice Stevens*

Title: *Petro. Eng. Tech.*

Operator's Well No: STRICKLAND 4634

Farm Name: GUMP, MILDRED

API Well Number : 47- 51-00610 T

Date Issued : 09/01/93

Expires two (2) years from issue date.

SEP 8

1993