

Notes:  
 This Map is For  
 Well Location Only &  
 Does Not Represent  
 A Complete Property Survey.  
 No Houses Or Water Wells Within 200'

FB 2670 PG 5-6

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS (7 1/2')

FILE NO. \_\_\_\_\_  
 DRAWING NO. 12049  
 SCALE 1" = 400'  
 MINIMUM DEGREE OF  
 ACCURACY 1/200'  
 PROVEN SOURCE OF  
 ELEVATION USGS BM  
"BLUE CREEK 1933"  
ELEV. = 616.35

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 REGU-  
 LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
 MENT OF ENERGY.  
 (SIGNED) \_\_\_\_\_  
 R.P.E. \_\_\_\_\_ L.L.S. 798

PLACE SEAL HERE

**STATE OF WEST VIRGINIA**  
 DIVISION OF ENVIRONMENTAL  
 PROTECTION  
 SECTION OF OIL & GAS



DATE JANUARY 18, 2002  
 OPERATOR'S WELL NO. 12049  
 API WELL NO.

WELL TYPE: OIL X GAS X LIQUID INJECTION     WASTE DISPOSAL      
 (IF "GAS," ) PRODUCTION     STORAGE X DEEP     SHALLOW      
 LOCATION: ELEVATION 735 WATER SHED BLUE CREEK  
 DISTRICT ELK COUNTY KANAWHA  
 QUADRANGLE BLUE CREEK COORDINATES LAT: 38°26'35" LONG: 81°27'27"  
 SURFACE OWNER JOSEPH B. KIDDY ACREAGE \_\_\_\_\_  
 ORIGINAL OIL & GAS ROYALTY OWNER VELMA PRICE LEASE ACREAGE 28  
 COAL OWNER \_\_\_\_\_ LEASE NO. 1047679

PROPOSED WORK: DRILL     CONVERT     DRILL DEEPER     REDRILL     FRACTURE OR  
 STIMULATE     PLUG OFF OLD FORMATION     PERFORATE NEW  
 FORMATION     OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recondition

PLUG AND ABANDON     CLEAN OUT AND REPLUG      
 TARGET FORMATION \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_  
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT PAUL AMICK  
 ADDRESS PO Box 1273, Charleston, WV ADDRESS PO Box 1273, Charleston, WV  
25325-1273 25325-1273

DEEP WELL 9-0 (217) MAY 3 - 2002

FORM WV-6

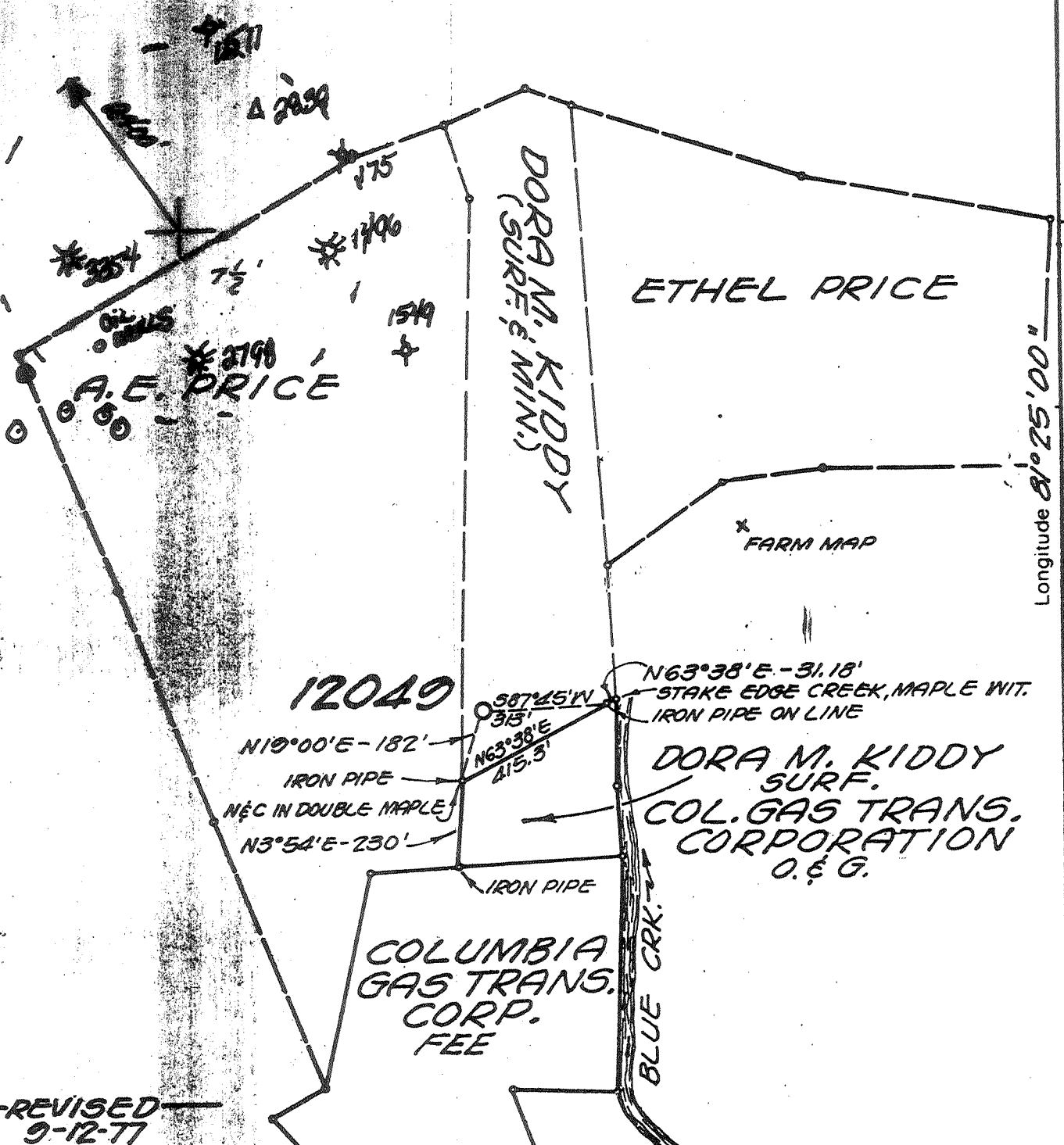
COUNTY NAME

PERMIT

KAN

2797 D

Janice  
12/6/96



REVISED  
9-12-77

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

"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 the rules and regulations of the oil and gas section of the mining laws of WEST VIRGINIA. Minimum degree of accuracy is one part in 200

L.L.S. # 102  
BOX 1273 CHARLESTON, W.VA.

Signed Samuel Foster

Company COLUMBIA GAS TRANS. CORP.  
 Address BOX 1273 CHARLESTON, W.VA.  
 Farm DORA M. KIDDY  
 Lease 772 Acres 31  
 Well Farm No. \_\_\_\_\_ Ser. No. 12049  
 Elevation - Spirit Level 742.03'  
 Quadrangle BLUE CREEK  
 Township or District ELK  
 County KANAWHA  
 Sec., Lot, Qr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LONG 81° 27' 27" LAT. 37° 26' 35"  
 File No. 70-65 Dwg. No. \_\_\_\_\_  
 Date 9-12-77 Scale 1" = 400'

COLUMBIA GAS SYSTEM  
 COLUMBIA GAS TRANSMISSION CORPORATION  
 WELL LOCATION MAP  
 STATE OF WEST VIRGINIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 OFFICE OF OIL & GAS  
 #10 McJUNKIN ROAD  
 NITRO, WEST VIRGINIA 25143-2506

APR Well No. 47-039-02797-X

70

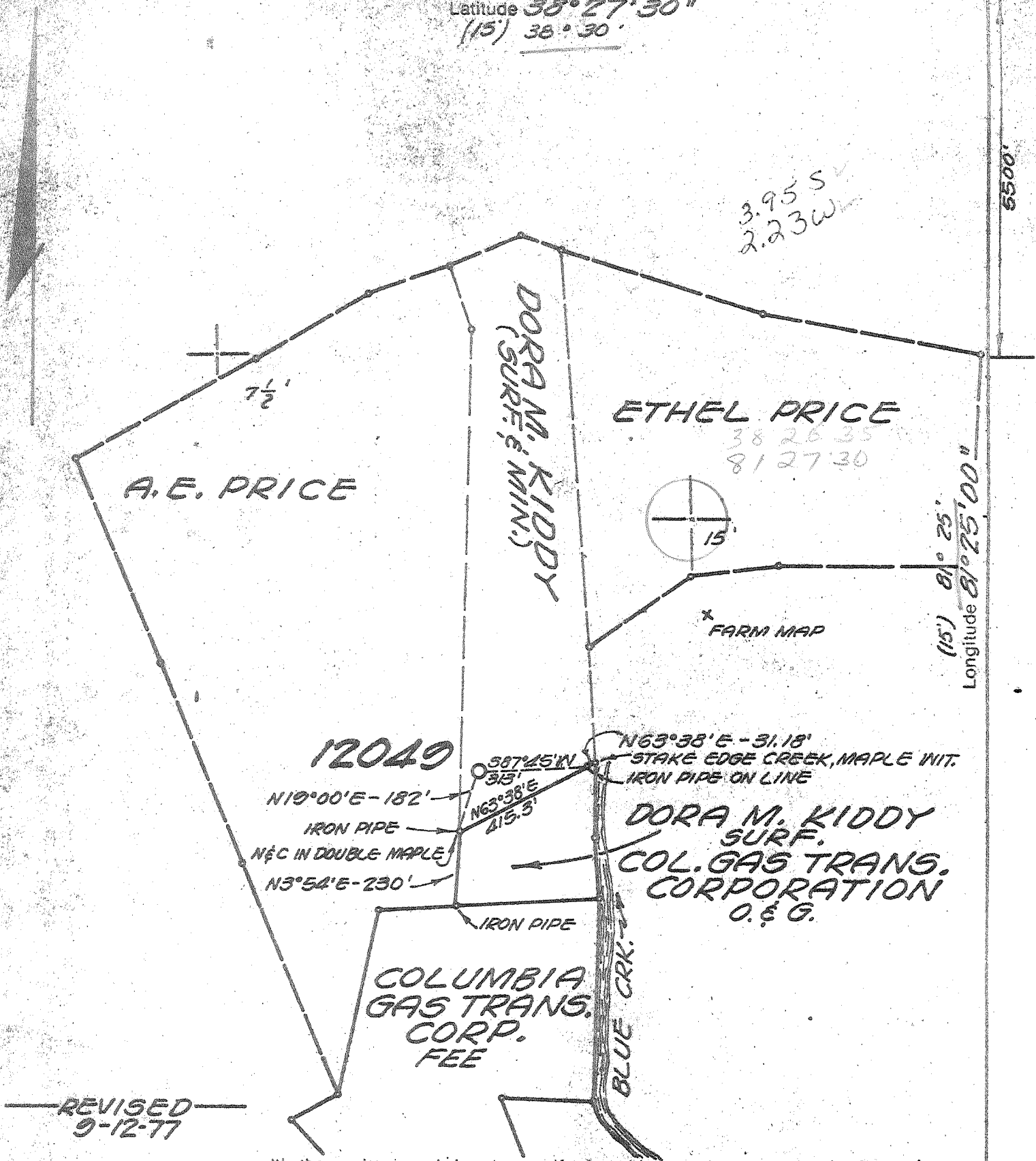
11,650'

10/5/77

Latitude  $38^{\circ}27'30''$   
(15')  $38^{\circ}30'$

5500'

3.95 S  
2.23 W



REVISED  
9-12-77

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Minimum degree of accuracy is one part in 200

L.L.S. # 102  
BOX 1273 CHARLESTON, W.VA.

Signed *Samuel Foster*

- New Location
- Storage
- Drill Deeper
- Abandonment
- Re-Drill/Fracture

Company COLUMBIA GAS TRANS. CORP.  
 Address BOX 1273 CHARLESTON, W.VA.  
 Farm DORA M. KIDDY  
 Lease 772 Acres 31  
 Well Farm No. \_\_\_\_\_ Ser. No. 12049  
 Elevation - Spirit Level 742.03' NW  
 Quadrangle BLUE CREEK, GLENDEN IN 15'  
 Township or District ELK  
 County KANAWHA  
 Sec., Lot, Gr. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_  
 Coordinates LONG  $81^{\circ}27'27''$  LAT.  $37^{\circ}26'35''$   
 File No. 70-65 Dwg. No. \_\_\_\_\_  
 Date 9-12-77 Scale 1" = 400'

FORM 1495 OF 4 CSO  
 COLUMBIA GAS SYSTEM  
 COLUMBIA GAS TRANSMISSION CORPORATION  
**WELL LOCATION MAP**  
 STATE OF WEST VIRGINIA  
 (+) Denotes Values Of Well On United States Topographic Maps  
Kan-2797  
 Scale 15'  7 1/2'   
 OCT 21 1977  
47-039

79-9-0 Blue Creek (217) Deep well

RECEIVED

JAN 24 1978

OIL & GAS DIVISION  
DEPT. OF MINES

Form OG-10



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
WELL RECORD

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Blue Creek

Permit No. Kan-2797

Oil or Gas Well Gas  
(KIND)

Company	Address	Farm	Location (waters)	Well No.	District	The surface of tract is owned in fee by	Mineral rights are owned by	Drilling commenced	Drilling completed	Date Shot	With	Open Flow	Volume	Rock Pressure	Oil	WELL ACIDIZED (DETAILS)	WELL FRACTURED (DETAILS)	RESULT AFTER TREATMENT (Initial open Flow or bbls.)	ROCK PRESSURE AFTER TREATMENT	Fresh Water	Producing Sand
Columbia Gas Transmission Corp.	P.O. Box 1273, Charlseton WV	Chloe Copenhaver	Blue Creek	12049	Elk	Dora M. Kiddy	Same as Above	10-13-77	11-3-77											Sand & Sand & Shale	Oriskany

**STORAGE**

Casing and Tubing	Used in Drilling	Left in Well	Packers
13 3/8"	150'	150'	
MN 9-5/8"	2069'	2069'	
8 1/4"			
7"	5130'	5130'	
5 3/16"			
4 1/2"			
3"			
2 3/8"	5156	5156	
Liners Used			

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Clay		Soft	0	15			
Sand & Shale			15	70			
Sand			70	90	Water		
Shale & Sand			90	850	Water		
Salt Sand	White		850	1350			
Red Rock	Red		1350	1370			
Shale	Black		1370	1420			
Maxon Sand	White		1420	1445			
Shale	Black		1445	1480			
Lime	Gray		1480	1680			
White Sand			1680	1725			
Injun Sand	Red		1725	1740			
Shale	Black		1740	1920			
Sand			1920	2020		5029	5149
Shale			2020	5029		742	742
Coniferous Lime			5029	5149			4407
Oriskany			5149	5200		4287	

Top Helderberg @ 5197 (log - FC)

FEB 3 1978



STATE OF WEST VIRGINIA  
DEPARTMENT OF MINES

RECEIVED

OCT - 5 1977

Oil and Gas Division

OIL & GAS DIVISION  
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

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

DATE October 3, 1977

Surface Owner Dora M. Kiddy

Company Columbia Gas Transmission Corporation

Address 516 10 1/2 Street, Parkersburg, W. Va.

Address P. O. Box 1273, Charleston, W. Va. 2532

Mineral Owner Same As Above

Farm Dora M. Kiddy Acres 31

Address \_\_\_\_\_

Location (waters) Blue Creek

Coal Owner Same As Above

Well No. 12049 Elevation 742.03'

Address \_\_\_\_\_

District Elk County Kanawha

Coal Operator No Operated

Quadrangle Blue Creek

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 2-5-78.

INSPECTOR  
TO BE NOTIFIED Martin Nichols

ADDRESS P. O. Box 554, Clendenin, W. Va.

Deputy Director - Oil & Gas Division

PHONE 548-6993

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 August 16 19 49 by \_\_\_\_\_ made to United Fuel Gas Company and recorded on the \_\_\_\_\_ day of \_\_\_\_\_ 19\_\_\_\_, in Kanawha County, Book 120 Page 464

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

Very truly yours,

(Sign Name) [Signature]

Well Operator Director,  
Exploration & Development  
P. O. Box 1273  
Street

Address  
of  
Well Operator

Charleston,  
City or Town

West Virginia 25325

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.

BLANKET BOND

KAN-2797 PERMIT NUMBER

"I have read and understand the reclamation requirements as set forth in Chapter 22, Article 4, Section 2-b and will carry out the specified requirements."

47-039

Signed by [Signature]  
Director, Exploration & Development

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

PROPOSED WORK ORDER TO  DRILL  DEEPEN  FRACTURE-STIMULATE  
 DRILLING CONTRACTOR: (If Known) \_\_\_\_\_ RESPONSIBLE AGENT: \_\_\_\_\_  
 NAME \_\_\_\_\_ NAME Larry Friend  
 ADDRESS \_\_\_\_\_ ADDRESS P. O. Box 610, Clendenin, W. Va.  
 TELEPHONE \_\_\_\_\_ TELEPHONE (304) 965-3317  
 ESTIMATED DEPTH OF COMPLETED WELL: 5226' ROTARY  CABLE TOOLS \_\_\_\_\_  
 PROPOSED GEOLOGICAL FORMATION: Oriskany  
 TYPE OF WELL: OIL \_\_\_\_\_ GAS \_\_\_\_\_ COMB. \_\_\_\_\_ STORAGE  DISPOSAL \_\_\_\_\_  
 RECYCLING \_\_\_\_\_ WATER FLOOD \_\_\_\_\_ OTHER \_\_\_\_\_

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - <del>5/8</del>	30'		
13 - <del>5/8</del> 3/8	200'		
9 - 5/8	2100'		
8 - 5/8			
7	5170'		
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS \_\_\_\_\_ FEET SALT WATER \_\_\_\_\_ FEET  
 APPROXIMATE COAL DEPTHS \_\_\_\_\_  
 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

WR-35

DATE: 11-07-02  
API #: 47-039-02797

*for*

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

Well Operator's Report of Well Work

Farm name: J. KIDDY Operator Well No.: Coco C #12049

LOCATION: Elevation: 735' Quadrangle: Blue Creek

District: ELK County: Kanawha  
Latitude: \_\_\_\_\_ Feet South of 38 Deg. 26 Min. 35 Sec.  
Longitude \_\_\_\_\_ Feet West of 81 Deg. 27 Min. 27 Sec.

Company: Columbia Gas Transmission

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>RR 2 BOX 138</u>				
<u>Sandville, WV 25275</u>				
Agent: <u>Paul Amick</u>				
Inspector: <u>Carlos Huely</u>				
Date Permit Issued: <u>5-02-02</u>				
Date Well Work Commenced: <u>5-21-02</u>				
Date Well Work Completed: <u>8-02-02</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet):				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)?				
Coal Depths (ft.):				

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 5149'-5200'

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

\* Gas Storage - Does not apply

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.

Signed: John V. McCallister

By: \_\_\_\_\_

Date: 11-07-02

FEB 27 2003

KAN 2797

INSTALLED NEW API 5M Wellhead

7-18-02

Fractured Oriskany Sand Using:

515 bbls Fluid

1000 gal 28% HCl

175 mscf N<sub>2</sub>

25,000 # 20/40 sand

AVG Pressure 3200 psig

AVG Rate 14 bpm

\* Did not drill deeper or run  
new casing.