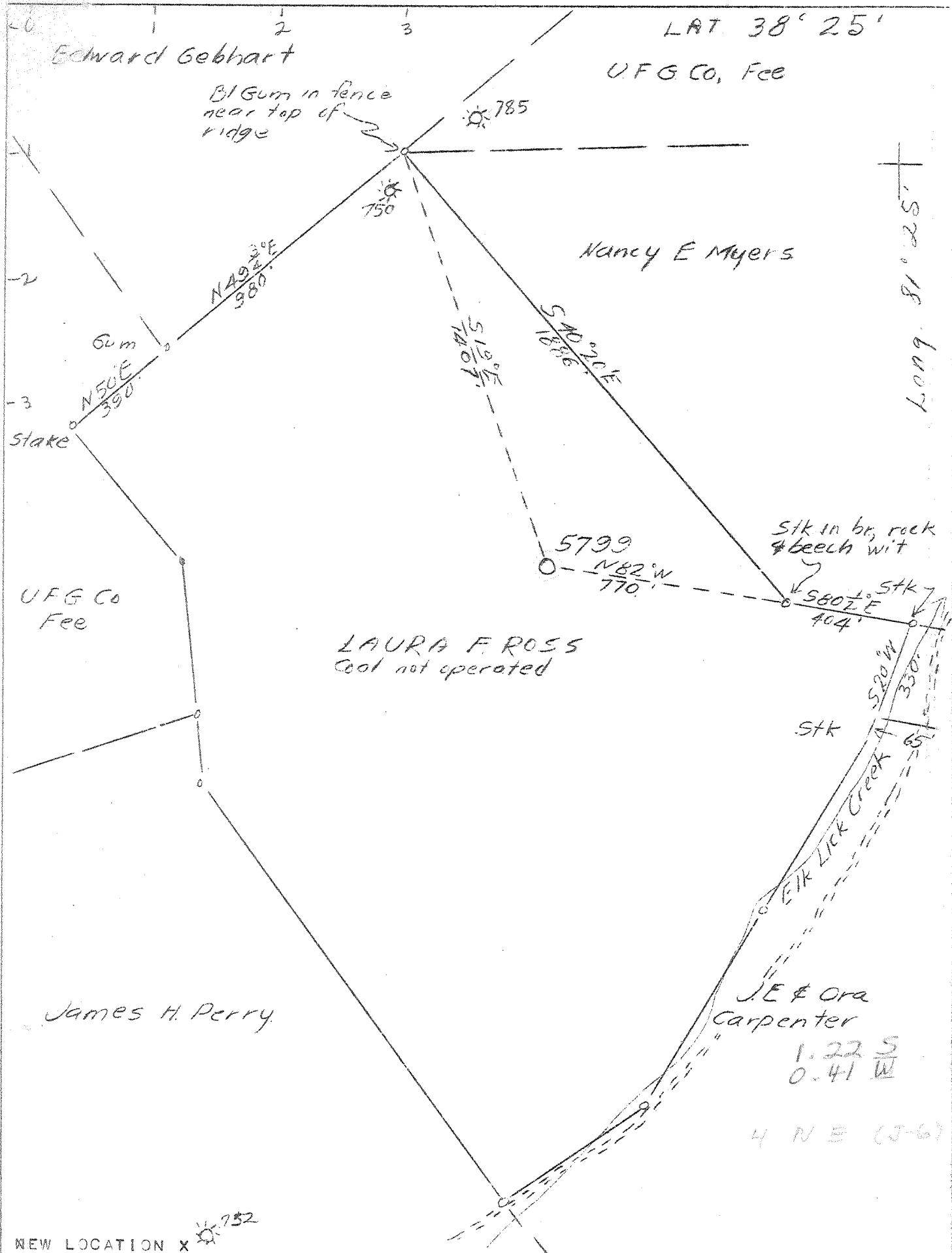


LONGITUDE 81°25'00"

DEEP WELL

0129
PERMIT

P



COMPANY	UNITED FUEL GAS CO.
ADDRESS	CHARLESTON, W. VA.
FARM	LAURA F. ROSS
TRACT	ACRES 102 LEASE NO. 4681
WELL (FARM) NO.	2 SERIAL NO. 5799
ELEVATION (SPIRIT LEVEL)	920'
QUADRANGLE	CLENDENIN - WC
COUNTY	KANAWHA DISTRICT ELK
ENGINEER	G. H. MOORE
ENGINEER'S REG. NO.	662
FILE NO.	72-61 DRAWING NO.
DATE	JULY 24, 1946 SCALE 1" = 400'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP

FILE NO. KAN- 1299

+ DENOTES LOCATION OF WELL ON U.S. TOPOGRAPHIC MAPS, SCALE 1 TO 62,500 LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

- DENOTES ONE INCH SPACES ON BORDER LINE OF ORIGINAL TRACING.

6-6-2-5

Deep Well

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
W E L L R E C O R D

Permit No. Kan 1299
Glendenin Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral
Commenced
Completed
Date shot

Rock Pressure

United Fuel Gas Co.
P.O. Box 1273, Charleston 25, W.Va.
Laura F. Ross Acres 102
Waters of Blue Creek
5799 Elev. 920
Elk Kanawha County

A.D. Webb, Coco, W.Va.
9-11-46
4-7-47
Not given 5166 to 5196
with 300# EL 409 & 75# gel.
610 lbs. 16 hrs.

Gas Well
CASING & TUBING

10 $\frac{3}{4}$	1497	1497
8 5/8	1914	1914
7	5063	5063

Coal at 60" 24"

Slate	0	20
Sand	20	35
Slate & Shells	35	60
-Coal	60	62
Slate & Shells	62	109
Sand	109	137
Slate	137	240
Sand	240	340
Slate	340	400
Sand	400	480
Lime	480	500
Sand	500	550
Lime	550	570
Sand	570	700
Slate	700	730
Sand	730	971
Slate & Lm. Shs.	971	1032
-Sand	1032	1288
Slate	1288	1300
Red Rock	1300	1310
Lime	1310	1320
Slate	1320	1382
Red Rock	1382	1392
-Sand	1392	1420
-Little Lime	1420	1450
-Pencil Cave	1450	1456
-Big Limo	1456	1624
Slate	1624	1639
Injun Sand	1639	1690
Weir	1690	1885
Slate	1885	1914
Shells	1914	1926
Slate	1926	2050
Limo	2050	2100
Slate	2100	2470
Slate, White	2470	3000
Slate, Black	3000	3800
Brown Shale	3800	3850
Slate & Shells	3850	4400
Brown Shale	4400	4450
Slate	4450	4520
Brown Shale	4520	4860
White Slate	4860	4925
Brown Shale	4925	5060
-Corniferous Limo	5060	5166
-Oriskany Sand	5166	5194
Total Depth	5196	

Gas 1695' Weir

Gas 5181-5193 Oriskany

DEC 13 1996

State of West Virginia
 Division of Environmental Protection
 Permitting
 Office of Oil & Gas
 Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: DARBY, BUD, ETAL Operator Well No.: 7055 (5799)

LOCATION: Elevation: 920.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
 Latitude: 6650 Feet South of 38 Deg. 25Min. 0 Sec.
 Longitude 2300 Feet West of 81 Deg. 25 Min. 0 Sec.

Company: COLUMBIA GAS TRANSMISSION
 P.O. BOX 1273
 CHARLESTON, WV 25325-1273

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELEY

Permit Issued: 04/03/96

Well work Commenced: 5-14-96

Well work Completed: 7-13-96

Verbal Plugging

Permission granted on:

Rotary ☒ Cable _____ Rig

Total Depth (feet) 5274'

Fresh water depths (ft) 200'

Salt water depths (ft) 950'

Is coal being mined in area (Y/N)? NCoal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10 3/4	1497'	1497'	Circ to Surf. From 592' 175 sks west
8 5/8	1914	1914-630'	
7	5087'	5087'	
4 1/2	5264'	5264'	130 sks west TO. C @ 4350'

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 5165'
 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 1600 psig (surface pressure) after _____ Hours
 * N/A - Storage well
 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.

For: COLUMBIA GAS TRANSMISSION CORP.

By: John V. McElhott
 Date: 12-11-96

DEC 13 1996

Well # 7055 47-039-1299

All fluid taken to: MAX ENVIRONMENTAL

1815 Washington Road

Pittsburg PA 15241

PA Facility ID # P3-0004

Physical Change

5-14-96 Pulled 5207' 2 3/8" tubing.

5-23-96 Pulled 670' 7" csg.

5-24-96 Pulled 630' 8 5/8" csg.

5-29-96 Cemented 10 3/4' csg from 592' to surf. w/
175 sks Class A cement

6-2-96 Tied 7" csg back to surface

6-26-96 Drilled lime to 5274'

6-27-96 Ran 4 1/2" 11.6 #/ft N-80 csg set at 5264'
Cemented w/ 130 sks Class A. Cement top
at 4350' from CBL

7-12-96 Perforated Oriskany Sand from 5165' to 5202'
w/ 276 shots.

7-13-96 Fractured Oriskany w/ 105 bbls Water, 328 mscf N₂,
and 18,200 # 20/40 sand. Avg Pressure 4084 psig
ISIP 4723 psig 15min SIP 4558 psig.

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WV Division of
Environmental Protection
MAR 18 1996

039-1299-F

Issued 04/03/96
Expires 04/03/98
Page ____ of ____

FORM WW-2B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Office of Oil and Gas
WELL WORK PERMIT APPLICATION

21752

Well Operator: COLUMBIA GAS TRANSMISSION CORP 10450 (4) 258

Operator's Well Number: 7055 about old number 3) Elevation: 920'

Well type: (a) Oil / or Gas / 5199
(b) If Gas: Production / Underground Storage /
Deep / Shallow /

5) Proposed Target Formation(s): ORISKANY

6) Proposed Total Depth: 5300' feet

7) Approximate fresh water strata depths: 200' (EST)

8) Approximate salt water depths: 950'

9) Approximate coal seam depths: NO INFORMATION 60-62' from surface

10) Does land contain coal seams tributary to active mine? Yes / No /

11) Proposed Well Work: Pull 2 3/8" TUBING; Pull 7" FROM 1500'; Pull 8 5/8" FROM 1450';
Re-cement 10 3/4" CASING; TIE BACK 7" CASING; Pull New Hole 5196' - 5300';

12) RUN NEW 4 1/2" CASING AND CEMENT; STIMULATE ORISKANY; RUN 2 3/8" TUBING

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left well	Fill-up (cu. ft.)
Conductor						
Fresh Water	10 3/4"	1480'	40.5 #/ft		1497'	CIRCULATE TO SURFACE
INTERMEDIATE	8 5/8"	1912'	28 #/ft	1914'	1914' - 1450'	
Intermediate	7"	5087'	23 #/ft		5063'	
Production	4 1/2"	N-80	11.6 #/ft		5300'	110 CF
Tubing	2 3/8"	J-55	4.7 #/ft		5150'	
Liners						

PACKERS : Kind
Sizes
Depths set

For Division of Oil and Gas Use Only

Fee(s) paid: 12 Well Work Permit 12 Reclamation Fund 12 WPCP
Plat 12 WW-9 12 WW-2B 12 Bond Blanket Agent
(Type)

3

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WV Division of
Environmental Protection
MAR 18 1996

Permitting
Office of Oil & Gas

1) Date: 2-27-96
2) Operator's well number
1055
3) API Well No: 47 - 039 - 12990
State County Permit

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
(a) Name BUD DARBY ETAL
Address P.O. Box 505
ELKVIEW, WV 25071
(b) Name _____
Address _____
(c) Name _____
Address _____
- 5) (a) Coal Operator: _____
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name JAMES M. HALSTEAD
Address 414 KEVIN DRIVE
SANDUSKY, OH 44870
Name _____
Address _____
- 6) Inspector CARLOS W. HIVELEY
Address 223 PINCH RIDGE ROAD
ELKVIEW, WV 25071
Telephone (304) - 965-6069
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR
☒ Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

Personal Service (Affidavit attached)

☒ Certified Mail (Postmarked postal receipt attached)

Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Columbia Gas Transmission Corp.
By: Richard L. Coby
Its: Manager - Well Services
Address P.O. Box 1273
Charleston, WV 25325-1273
Telephone 304-357-3034

Subscribed and sworn before me this 1st day of March, 1996

OFFICIAL SEAL

NOTARY PUBLIC, STATE OF WEST VIRGINIA
JOHN A. CAUDLE

1700 New CORNELL AVENUE, S.E.

CHARLESTON, WV 25325-1273

MY COMMISSION EXPIRES 04-13-1996

My commission expires

Notary Public