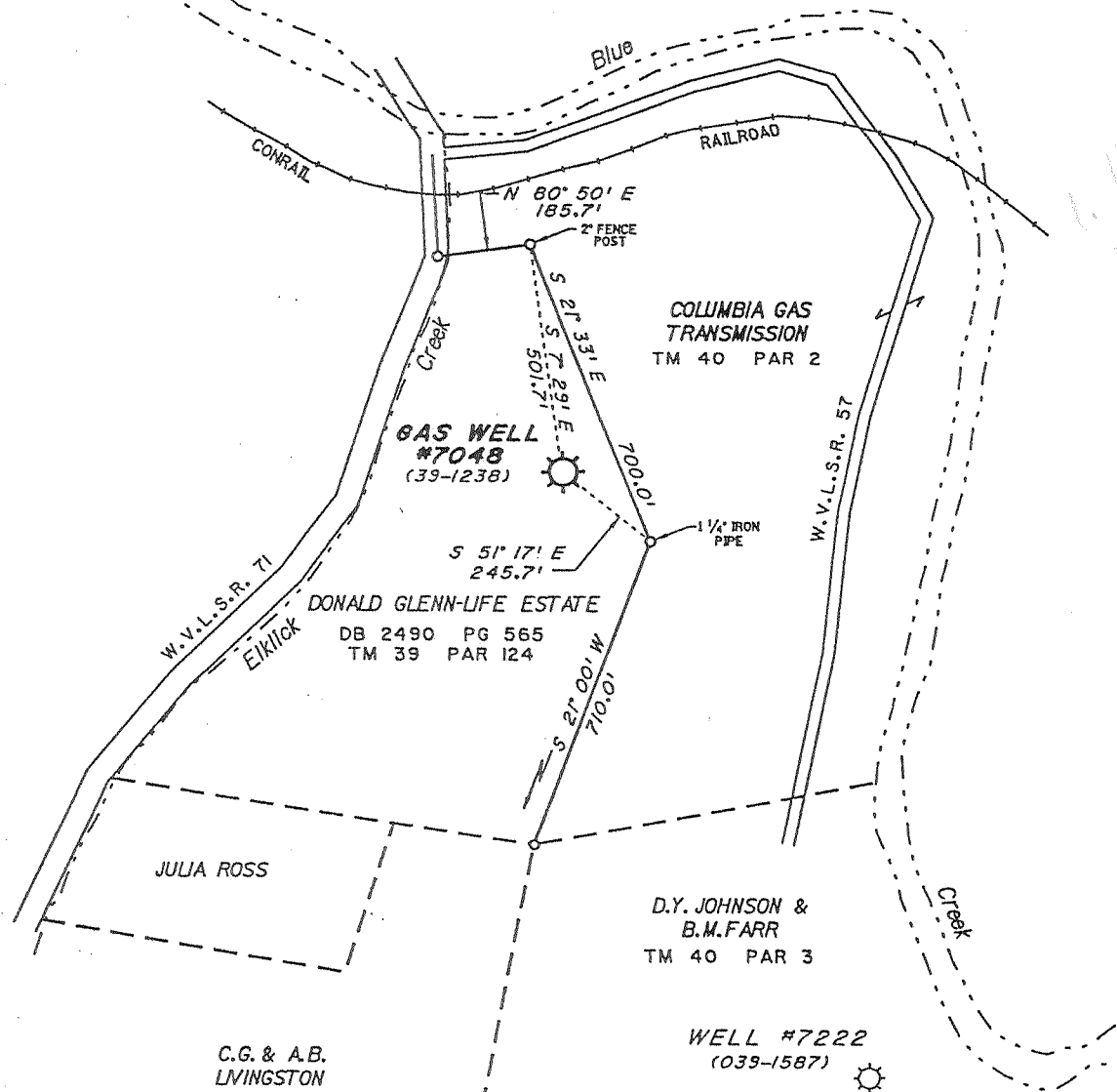


300'

LATITUDE 38°25'00"

LONGITUDE 81°25'00"

NORTH



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

FB 2560 PG 2-3
 FB 2670 PG 7

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

FILE NO. _____
 DRAWING NO. 7048
 SCALE 1" = 400'
 MINIMUM DEGREE OF
 ACCURACY 1/200
 PROVEN SOURCE OF
 ELEVATION USGS BM "231-SKS"
ELEV.=651.63'

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 10, 2002
 OPERATOR'S WELL NO. 7048
 API WELL NO. _____

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ STATE 47 COUNTY 039 PERMIT 1238 F
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 784' WATER SHED ELCLICK CREEK OF BLUE CREEK
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE BLUE CREEK, WV COORDINATES LAT: 38°24'02" LONG: 81°25'04"
 SURFACE OWNER DONALD GLENN-LIFE ESTATE ACREAGE 25
 ORIGINAL OIL & GAS ROYALTY OWNER BERTRUDE MYERS GLENN, ETAL. LEASE ACREAGE 25
 COAL OWNER _____ LEASE NO. 1049594
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recendition
 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

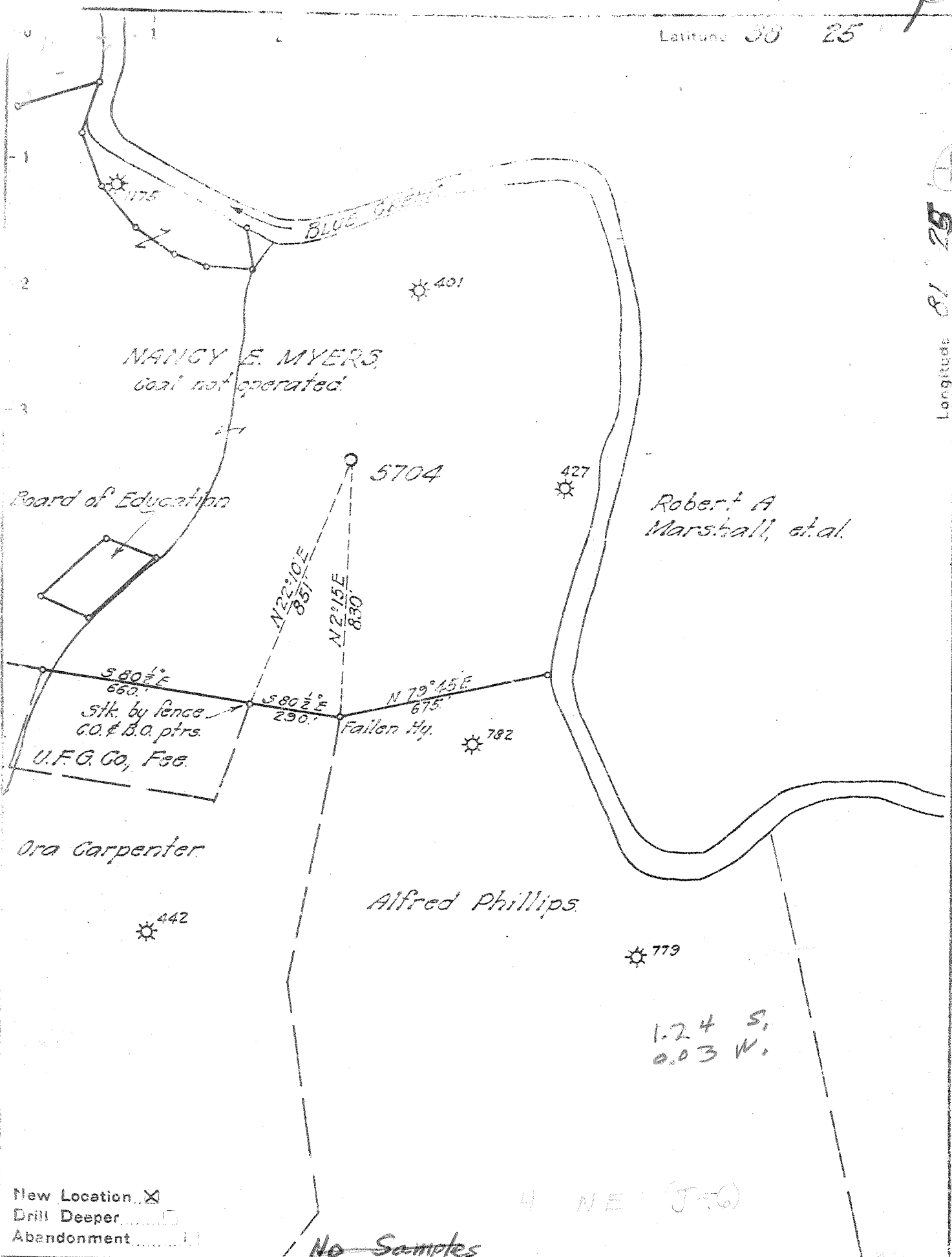
COUNTY NAME KAN
 PERMIT 1238 F

MAY 17 2002

DEEP WELL 90 (217)

Latitude 30 25

Longitude 81 25



New Location X
 Drill Deeper
 Abandonment

No Samples

H N E (J-6)

1.24 S,
0.03 W.

Company UNITED FUEL GAS CO
 Address CHARLESTON W. VA.
 Farm NANCY E. MYERS, ET AL.
 Tract _____ Acres 242 Lease No. 4805, 14476, 17559 & 4681
 Well (Farm) No. 1 Serial No. 5704
 Elevation (Spirit Level) 797.50 GR.
 Quadrangle GLENDENIN - WC
 County KANAWHA District ELK
 Engineer J. A. Cunningham
 Engineer's Registration No. 659
 File No. 72-61 Drawing No. _____
 Date July 16, 1945 Scale 1" = 200'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP
 FILE NO. KAN-1238

+ Denotes location of well on United States 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

Examined by R.R. Flowers
 Record on File 2020-5136

Deep Well

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

Permit No. Kan 1238
Clendenin Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral
Commenced
Completed
Date shot

Volume
Rock Pressure
Fresh Water

United Fuel Gas Co.
Charleston, W.Va.
Nancy E. Myers et al A 160
Blue Creek
5704 Elev. 789.45 D.F.
Elk Kanawha County

Kemp Myers et al, Cocco, W.Va.
8-25-45
2-27-46
3-5-46 Depth 5004 to 5068
with 418# Nitraman & 50# Gel

1500 lbs. 48 hrs.
65'; 1437; 750' 4 BPH ; 825' HF

Gas Well
CASING & TUBING

| | | | |
|--|--------|------|------------------|
| | 10 1/2 | 1337 | |
| | 8 5/8 | 1754 | |
| | 7 | 4955 | |
| | 2 | 5068 | |
| | | | Coal at 300' 24" |

| | | | | | |
|-------------------|------|------|-------------------------------------|------|------|
| Gravel | 0 | 15 | -Oriskany Sand | 5093 | 5109 |
| Slate | 15 | 30 | -Lime | 5109 | 5110 |
| Sand | 30 | 45 | TOTAL DEPTH | | 5110 |
| Slate | 45 | 63 | | | |
| Sand | 63 | 85 | | | |
| Slate | 85 | 100 | | | |
| Sand | 100 | 165 | | | |
| Slate | 165 | 300 | | | |
| -Coal | 300 | 302 | | | |
| Slate | 302 | 335 | | | |
| Sand | 335 | 370 | | | |
| Slate | 370 | 415 | | | |
| Sand | 415 | 440 | | | |
| Slate | 440 | 475 | | | |
| Lime | 475 | 495 | | | |
| Sand | 495 | 535 | | | |
| Slate | 535 | 560 | | | |
| Sand | 560 | 795 | | | |
| Slate | 795 | 800 | | | |
| -Salt Sand | 800 | 1130 | | | |
| Slate | 1130 | 1145 | | | |
| Red Rock | 1145 | 1165 | | | |
| Slate & Shells | 1165 | 1243 | | | |
| -Maxon Sand | 1243 | 1272 | | | |
| Slate | 1272 | 1282 | | | |
| -Little Lime | 1282 | 1312 | | | |
| Slate | 1312 | 1322 | | | |
| Lime Shells | 1322 | 1330 | | | |
| -Pencil Cave | 1330 | 1336 | | | |
| -Big Lime | 1336 | 1485 | | | |
| -Injun Sand | 1485 | 1530 | | | |
| Lime Shells | 1530 | 1535 | | | |
| -Squaw Sand | 1535 | 1546 | | | |
| -Weir Sand | 1546 | 1742 | | | |
| Sand | 1742 | 1752 | Show oil 1634' in Weir Sand | | |
| Slate & Shells | 1752 | 1980 | | | |
| -Brown Shale | 1980 | 1984 | | | |
| -Berca Grit | 1984 | 1990 | | | |
| Slate & Shells | 1990 | 2100 | | | |
| Shells | 2100 | 2350 | | | |
| Slate & Shells | 2350 | 2850 | | | |
| Slate & Shells | 2850 | 3725 | Show gas in Lime shells 3050' | | |
| Brown Shale | 3725 | 3765 | | | |
| Slate & Shells | 3765 | 3825 | | | |
| White Slate | 3825 | 4400 | | | |
| Brown Shale | 4400 | 4460 | | | |
| Slate & Shells | 4460 | 4500 | | | |
| Brown Shale | 4500 | 4740 | | | |
| White Slate | 4740 | 4810 | | | |
| -Black Shale | 4810 | 4935 | | | |
| -Corniferous Lime | 4935 | 5036 | | | |
| -Oriskany Sand | 5036 | 5076 | Oriskany Gas 5050-5054 -Well filled | | |
| Lime, Sandy | 5076 | 5080 | back to 5068 | | |
| Lime | 5080 | 5093 | | | |

01
A11

WR-35

DATE: 11-7-02
API #: 47-039-01238

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

Well Operator's Report of Well Work

Farm name: Donald Glenn Operator Well No.: Coco A #7048

LOCATION: Elevation: 784' Quadrangle: Blue Creek, WV.

District: ELK County: Kanawha
Latitude: _____ Feet South of 38 Deg. 24 Min. 02 Sec.
Longitude _____ Feet West of 81 Deg. 25 Min. 04 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>Sandyville, WV 25275</u> | | | | |
| Agent: <u>Paul Amick</u> | | | | |
| Inspector: <u>Carlos Hively</u> | | | | |
| Date Permit Issued: <u>5-15-02</u> | | | | |
| Date Well Work Commenced: <u>5-17-02</u> | | | | |
| Date Well Work Completed: <u>7-17-02</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) 5093' to 5109'

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: Joh V McCallot
By: _____
Date: 11-07-02

FEB 27 2003

KAN 1238

Installed new API 5m wellhead

7-11-02

Fractured Oriskany Sand using:
427 bbls fluid
140 mscf N₂
1600 gal 28% HCl
26,200 # 20/40 sand
AVG Pressure - 3000 psig
AVG Rate - 14 bpm