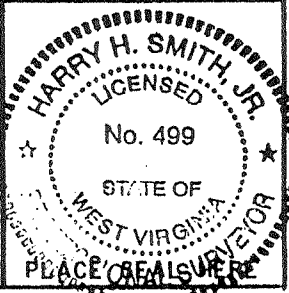


FILE NO. 7163
 DRAWING NO. _____
 SCALE 1" = 400'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION Existing Well
7163 Elevation

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 ENERGY.
 (SIGNED) Harry H. Smith, Jr.
 R.P.E. _____ L.L.S. 499



STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE FEBRUARY 1997
 OPERATOR'S WELL NO. 7163
 API WELL NO. _____

WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 890.00' WATER SHED POCA FORK OF LITTLE SANDY CREEK
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE KETTLE COORDINATES LAT. 38°30'35" LONG. 81°29'04"
 SURFACE OWNER DANIEL JOE & JOYCE DIANA McCLUNG ACREAGE 91
 OIL & GAS ROYALTY OWNER QDEN E. GOSHORN, et al LEASE ACREAGE 91
 COAL OWNER BARBARA F LEGG LEASE NO. 1047390
 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
Free existing storage well drilled in 1949 by Jones Vendergrift
Reconditioned by Columbia in 1982.
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Ousksay ESTIMATED DEPTH 5200'
 WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT RICHARD L. COTY
 ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS PO BOX 1273, CHARLESTON, WV
25325-1273 25325-1273

Kettle 7

FORM WW-6

KANAWHA COUNTY NAME
 1437 CANC. PERMIT

MILDRED G. JORDAN
TM. 9 - PAR. 38
DB. 1003 - PG. 357

Janice 3/25/97

DAVID H. & SHARON G. HOLSTEIN
TM. 9 - PAR. 41
DB. 1937 - PG. 235

TM. 9
PAR. 25

LATITUDE 38°32'30"

TM. 9
PAR. 61

TM. 9
PAR. 62

TM. 9
PAR. 47

WELL #7163



HERBERT F. & NORA M. HOLLEY
TM. 9 - PAR. 48

DANIEL JOE & JOYCE DIANA
McCLUNG
TM. 9 - PAR. 27
DB. 2385 - PG. 543
91 Ac. ±

ROBERT E. SPRADLING Jr.
TM. 9 - PAR. 28
DB. 2321 - PG. 443

EDWIN A. & ANNE B. CRAWFORD
TM. 9 - PAR. 30
DB. 1933 - PG. 182

TM. 9
PAR. 10.1

TM. 9
PAR. 31

TM. 9
PAR. 62.1

TM. 9
PAR. 63

KENNETH & JANICE VARNER
TM. 9
PAR. 51

EARL E. DODD
TM. 9
PAR. 52

EARL E. DODD
TM. 9
PAR. 53

EARL E. DODD
TM. 9
PAR. 53

TM. 9
PAR. 65

DEED N. 1/2 W. 31' W. DEED
TM. 9 - PAR. 43

DEED N. 1/2 W. 31' W. DEED
TM. 9 - PAR. 43

DEED N. 1/2 W. 31' W. DEED
TM. 9 - PAR. 43

DEED N. 1/2 W. 31' W. DEED
TM. 9 - PAR. 43

DEED N. 1/2 W. 31' W. DEED
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DEED N. 1/2 W. 31' W. DEED
TM. 9 - PAR. 43

DEED N. 1/2 W. 31' W. DEED
TM. 9 - PAR. 43

DEED N. 1/2 W. 31' W. DEED
TM. 9 - PAR. 43

SURVEY NORTH

JOHN & CHUAN YO CHEUNG CUPO
TM. 9 - PAR. 26
DB. 2261 - PG. 50

POCA FORK

1" IRON PIPE IN BOTTOM
OLD WATER WELL

3/4" IRON PIPE IN CREEK

2" IRON PIPE IN CREEK
BANK FOUND

2.185
1.42 W

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

FILE NO. 7163
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION Existing Well
7163 Elevation

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 ENERGY.
(SIGNED) Harry H. Smith, Jr.
R.P.E. _____ L.L.S. 499



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



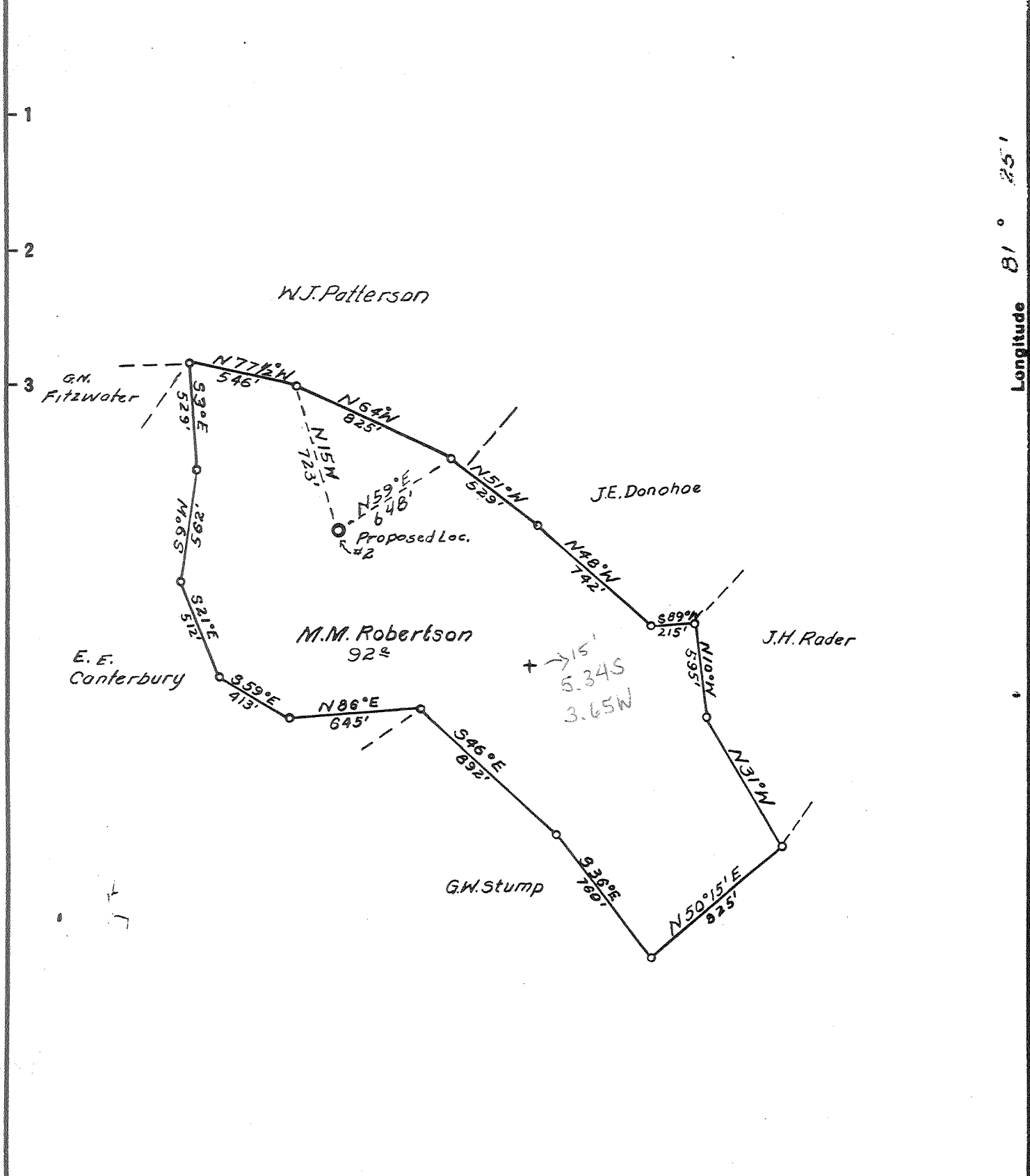
DATE FEBRUARY, 1997
OPERATOR'S WELL NO. 7163
API WELL NO. 47 039 01437-7
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 890.00' WATER SHED POCA FORK OF LITTLE SANDY CREEK
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE KETTLE COORDINATES LAT: 38°30'35" LONG: 81°29'04"
SURFACE OWNER DANIEL JOE & JOYCE DIANA McCLUNG ACREAGE 91
OIL & GAS ROYALTY OWNER ODEN E. GOSHORN, et al LEASE ACREAGE 91
COAL OWNER BARBARA F. LEGG LEASE NO. 1047390

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
Free existing storage well drilled in 1948 by James Vanderschiff
Reconditioned by Columbia in 1982.
PLUG AND ABANDON CLEAN OUT AND REPLUG
TARGET FORMATION Onokang ESTIMATED DEPTH 5220'
WELL OPERATOR COLUMBIA GAS TRANS. CORP. DESIGNATED AGENT RICHARD L. COTY
ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS PO BOX 1273, CHARLESTON, WV
25325-1273 25325-1273

MAR 31 1997

KANAWHA COUNTY NAME PERMIT 1423



Longitude 81° 25'

Frac 9/9
 New Location...
 Drill Deeper.....
 Abandonment.....

Company	<u>Columbia Gas</u>
Address	<u>CHARLESTON, W.VA.</u>
Farm	<u>M M ROBERTSON HRS.</u>
Tract	Acres <u>92</u> Lease No. _____
Well (Farm) No.	<u>2</u> Serial No. <u>7163</u>
Elevation (Spirit Level)	<u>890</u>
Quadrangle	<u>WALTON Kettle</u>
County	<u>KANAWHA</u> District <u>POCA</u>
Engineer	<u>G. H. Hall</u>
Engineer's Registration No.	_____
File No.	_____ Drawing No. _____
Date	<u>4-27-48</u> Scale <u>1" = 660'</u>

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

WELL LOCATION MAP
 FILE NO. KAN-1437-Frac

+ 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.

SEP 13 1982
47-039

OWWO- Deep well on Elk-Poca (Sissonville) (192)

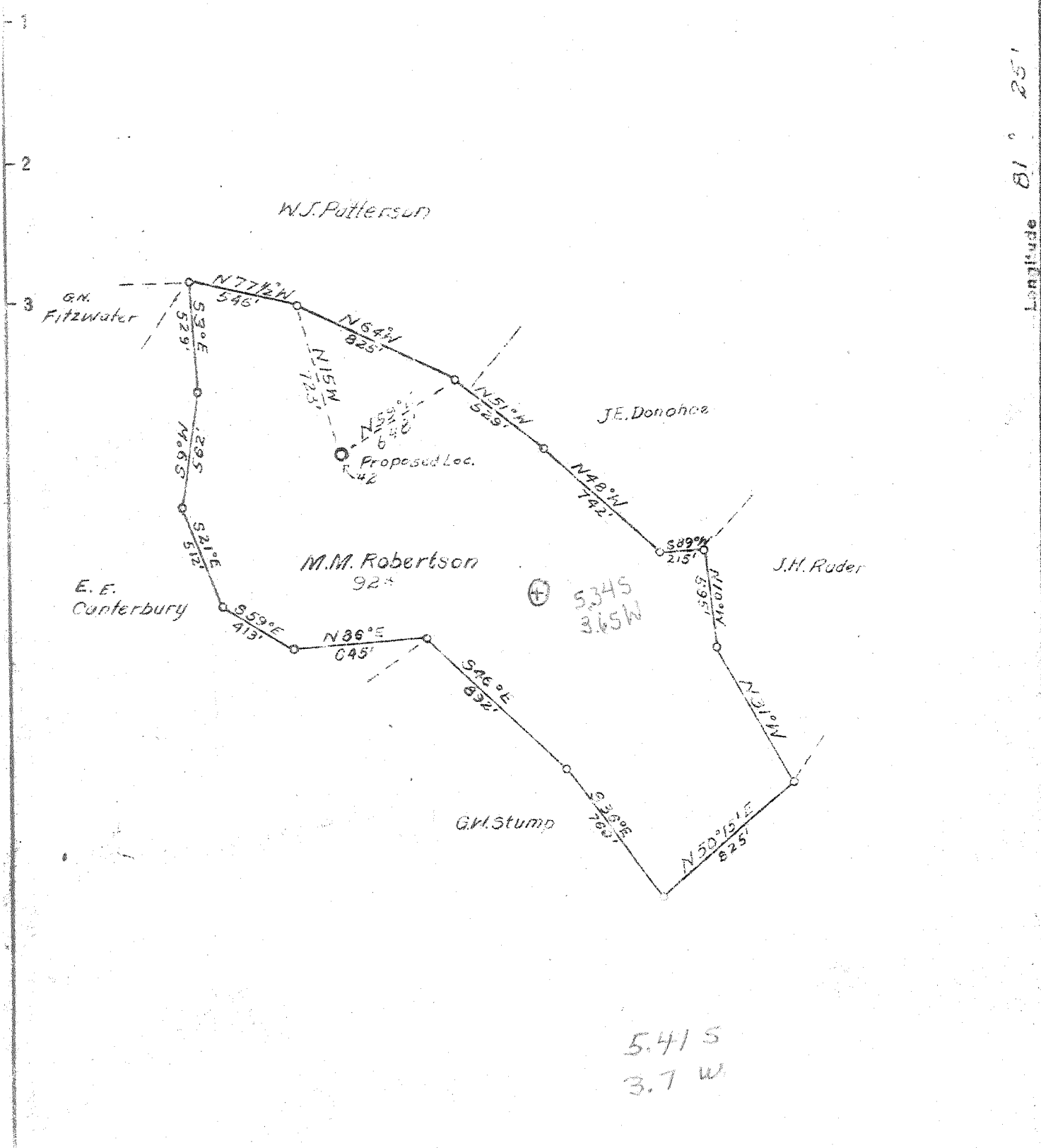
4

P

Latitude 38 35'

1 2 3

Longitude 81 25'



Company JAMES G VANDERGRIFT

Address CHARLESTON, W.VA.

Farm M.M. ROBERTSON HRS.

Tract _____ Acres 92 Lease No. _____

Well (Farm) No. 2 Serial No. _____

Elevation (Spirit Level) 890

Quadrangle WALTON - SW

County KANAWHA District EIK

Engineer G.H. Hall

Engineer's Registration No. _____

File No. _____ Drawing No. _____

Date 4-27-48 Scale 1"=660'

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

WELL LOCATION MAP
 FILE NO. KAN-1437

+ 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.

G.H. Hall

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

Gas Well
CASING & TUBING

Permit No. Kan 1437

Walton Quad.

Company

United Fuel Gas Company

Address

P.O. Box 1273, Charleston 25, W.Va.

Farm

M.M. Robertson Heirs A 91

Location

Pacataligo Fork

Well No.

6502 Elev. 479.6 890

District

Elk Kanawha County

Surface

J.L. Edens, et al, Frame, W.Va.

Mineral

7-26-48

Commenced

11-29-48

Completed

Not shot

Open flow

8/10ths M in 7" I.D.

Volume

5,390 M Oriskany

Rock Pressure

1195 lbs. 20 hrs.

Fresh Water

103' 1 BFH

Salt Water

1290-1321; 1812'

Coal at 609' 12"

Surface	0	28	White Slate	4322	4675
Red Rock	28	45	Brown Shale	4675	4818
Lime	45	68	Slate	4818	4803
Red Rock	68	100	Brown Shale	4803	4965
Sand	100	108	White Slate	4965	5017
Slate	108	121	Brown Shale	5017	5080
Red Rock	121	130	Corniferous Lime	5080	5207
Slate	130	185	Oriskany Sand	5207	5220
Gritty Lime	185	218	Total Depth		5220
Red Rock	218	370			
Sand	370	321	Gas 1272' show		
White Slate	321	328	Gas 1741' show gas		
Sand	328	340	Gas 1810'		
White Slate	340	371	Injun Water 1812'		
Sand	371	392	Gas 2104' 25 M		
Blue Slate	392	465	Oriskany gas 5214-5220 8/10 M 7" I.D.		
Sand	465	510	5,390 M		
White Slate	510	542			
Sand	542	591	Not shot		
White Slate	591	609	Open flow 5,390 M Oriskany		
Coal	609	610	20 hr. R.P. 1195#		
Black Slate	610	635	Shut in 11-29-48 in 2" tubing		
Sand	635	650			
Black Slate	650	660			
Blue Lime	660	670			
Gray Slate	670	714			
Gray Sand	714	795			
Slate	795	884			
Lime	884	905			
Slate	905	938			
Lime	938	968			
Slate	968	978			
Lime	978	989			
Gray Sand	989	1005			
Slate	1005	1022			
Lime	1022	1047			
Sand	1047	1067			
Gritty Lime	1067	1122			
Salt Sand	1122	1555			
Slate	1555	1561			
Maxon Sand	1561	1576			
Little Lime	1576	1644			
Pencil Cave	1644	1650			
Big Lime	1650	1786			
Injun	1786	1832			
Slate	1832	1854			
Lime	1854	1985			
Slate & Shells	1985	3440			
Brown Shale	3440	3504			
Slate & Shells	3504	3978			
Brown Shale	3978	4000			
Slate & Shells	4000	4322			

5080 5207
 780 890

 4300 4317

 4190 4337



IV-35
(Rev 8-81)

Date 04-25-83
Operator's
Well No. 7163
Farm M. M. Robertson, Heirs #2
API No. 47 - 039 - 1437

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas ___ / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production ___ / Underground Storage X / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 890' Watershed Poca Fork Branch
District: Elk County Kanawha Quadrangle Kettle

COMPANY Columbia Gas Transmission Corporation

ADDRESS P.O. Box 1273 Charleston, WV 25325

DESIGNATED AGENT E. M. Williamson

ADDRESS P.O. Box 1273 Charleston, WV 25325

SURFACE OWNER Mrs. Frances Fogarty

ADDRESS Frame Station, Elkview, WV 25071

MINERAL RIGHTS OWNER (SEE ATTACHED SHEET)

ADDRESS _____

OIL AND GAS INSPECTOR FOR THIS WORK Homer H.

Daugherty ADDRESS Linden Rt. Box-3A, Looneyville, WV 25259

PERMIT ISSUED August 12, 1982

DRILLING COMMENCED (Reconditioning) 9-13-82

DRILLING COMPLETED (Reconditioning) 9-30-82

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 Cord.			
13-3/8" 13-1/2"	Orig.	31'3"	
9 5/8	Orig.	451'1"	
8 5/8	Orig.	1659'10"	
7	Orig.	5139'6"	Squeeze 354
5 1/2			
4 1/2	Recond.	5138.94'	354
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Oriskany Sand Depth 5207 feet

Depth of completed well 5215' feet Rotary ___ / Cable Tools X

Water strata depth: Fresh ___ feet; Salt ___ feet

Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation Oriskany Pay zone depth 5207 feet

Gas: Initial open flow NA Mcf/d Oil: Initial open flow ___ Bbl/d

Final open flow 1163 Mcf/d Final open flow ___ Bbl/d

Time of open flow between initial and final tests ___ hours

Static rock pressure 1025 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

(Continue on reverse side)

MAN - 1437

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

Reconditioned Well by pulling 5209 feet of 2-3/8" tubing. Cleaned out hole to total depth with 6 1/4" bit. Perforated 7" Casing from 2286 feet to 2290 feet with 7 shots. Squeezed 7" Casing with 300 sacks (354 cubic feet) of cement. Ran 4 1/2" casing to 5138.94 feet and cemented with 354 cubic feet of cement. Well was not stimulated.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas

(Attach separate sheets as necessary)

Columbia Gas Transmission Corporation
Well Operator

By: William H. Foraker

Date: April 28, 1983

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."

KAN-1437



Well No. 7163
Farm M. M. Robertson Hrs. #2
API #47 - 039 - 1937
Date 8-12-82 Fee.

STATE OF WEST VIRGINIA
OFFICE OF OIL AND GAS - DEPARTMENT OF MINES

OIL AND GAS WELL PERMIT APPLICATION

WELL TYPE: Oil / Gas X /
(If "Gas", Production / Underground storage X / Deep / Shallow /

LOCATION: Elevation: 890' Watershed: Poca Fork Branch
District: Elk County: Kanawha Quadrangle: Kettle

WELL OPERATOR Columbia Gas Transmission Corp. DESIGNATED AGENT E. M. Williamson
Address P.O. Box 1273 Address P.O. Box 1273
Charleston, WV 25325 Charleston, WV 25325

OIL AND GAS ROYALTY OWNER (See attached sheet) COAL OPERATOR Not Operated
Address Address

Acreage 91 Acres

SURFACE OWNER Mrs. Frances Fogarty COAL OWNER(S) WITH DECLARATION ON RECORD:
Address Frame Station NAME (See attached sheet)
Elkview, WV 25071 Address NONE

Acreage 91 Acres
NAME
Address

FIELD SALE (IF MADE) TO:
NAME
Address
COAL LESSEE WITH DECLARATION ON RECORD:
NAME None
Address

OIL AND GAS INSPECTOR TO BE NOTIFIED:
NAME Fred Burdette
Address P.O. Box 190, Cicerone Route
Sissonville, WV 25320
Telephone 304/984-9263

RECEIVED
AUG 30 1982

OIL & GAS DIVISION
DEPT. OF MINES

The undersigned well operator is entitled to operate for oil or gas purposes at the
above location under a deed / lease X / other contract / dated 8-24, 19 50,
to the undersigned well operator from Oden F. Goshorn, et al

If said deed, lease, or other contract has been recorded:
Recorded on , 19 , in the office of the Clerk of County Commission of

Kanawha County, West Virginia, in 125 Book at page 217. A permit is
requested as follows:

PROPOSED WORK: Drill / Drill Deeper X / Redrill / Fracture or stimulate X /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) Recondition by running new
casing string and installing new Wellhead.
--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any
objection they wish to make or are required to make by Code §22-4-3 must be filed with the
Department of Mines within fifteen (15) days after receipt of this Application by the Dept.
Copies of this Permit Application and the enclosed plat and reclamation plan have been
mailed by registered mail or delivered by hand to the above named coal operator, coal own-
(s), and coal lessees on or before the day of the mailing or delivery of this Application
to the Department of Mines at Charleston, West Virginia.

EASE SUBMIT COPIES OF ALL
PHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA OIL AND GAS
CONSERVATION COMMISSION
13 WASHINGTON ST., E.
CHARLESTON, WV 25311

Columbia Gas Transmission Corporation
Well Operator
By: E.M. Williamson
Its: Director - Drilling & Maintenance

(Revised 3-81)

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) _____

Address _____

GEOLOGICAL TARGET FORMATION Oriskany

Estimated depth of completed well 5220 feet. Rotary X / Cable tools /
Approximate water strata depths: Fresh, 103 feet; salt, 1300, 1810 feet.
Approximate coal seam depths: _____
Is coal being mined in this area: Yes / No X /

CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS				FOOTAGE INTERVALS		CEMENT FILL UP OR SACKS Cubic ft.	PACKERS
	Size	Grade	Weight per ft	New	Used	For Drill-ling		
Conductor	13 3/8		48#				31'-3"	Kinds
Fresh water	10 3/4		Mixed				451'-1"	
Coal -Inter.	18 5/8		28#				1659'-10'	Sizes
Intermed.	7"		23#				5139'-6"	2400' to surface
Production	4 1/2"	K-55	10.50#				5220'	1000' of fill
Tubing								depths set
Liners								Perforations:
								Top Bottom
								Open Hole

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code §22-4-2, (iii) Form IV-9, "Reclamation Plan" applicable to the reclamation required by Code §22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code §22-4-12a, and (v) if applicable, the consent required by Code §22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,
ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR fracturing . THIS PERMIT SHALL EXPIRE
IF OPERATIONS HAVE NOT COMMENCED BY 5-9-83 ;
BY _____

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code §22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided the coal operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____, 19____.

By: _____

Its: _____

MAR 24 1997

039-1437 Frac.

FORM WW-2B

Permitting Office of Oil & Gas

Page ___ of ___

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS WELL WORK PERMIT APPLICATION

Well Operator: COLUMBIA GAS TRANSMISSION CORP. 10450 (4) 418

Operator's Well Number: 7163 175 3) Elevation: 890'

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

Issued 03/26/97 Expires 03/26/99

Proposed Target Formation(s): ORISKANY 475

Proposed Total Depth: 5220' feet

Approximate fresh water strata depths: 103'

Approximate salt water depths: 1290'

Approximate coal seam depths: 610'

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

Proposed Well Work: STIMULATE ORISKANY

CASING AND TUBING PROGRAM

Free Existing Storage Well Same formation

Table with columns: TYPE, SPECIFICATIONS (Size, Grade, Weight per ft.), FOOTAGE INTERVALS (For drilling, Left in well), CEMENT (Fill-up). Rows include Conductor, Fresh Water, Intermediate, Production, Tubing, Liners.

Existing from Well Records

PACKERS : Kind ___ Sizes ___ Depths set ___

191 254 8

For Division of Oil and Gas Use Only

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

