

NOTE: ELEVATION FROM X ON NE CORNER OF CONCRETE HEADWALL OVER MILE FORK OF BLUE CREEK, ELEVATION: 615.43.

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

FILE NO. _____
 DRAWING NO. _____
 SCALE 1"=200'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION SEE NOTE ABOVE

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) Charles David Davidson
 R.P.E. _____ L.L.S. 819



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE 12 APRIL, 1995
 OPERATOR'S WELL NO. 7335
 API WELL NO. 47-039-01523-W
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 656.95 WATER SHED ONE MILE FORK OF BLUE CREEK OF ELK RIVER
 DISTRICT ELK COUNTY KANAWHA
 QUADRANGLE BLUE CREEK, WV LAT: 38°26'39" LONG: 81°26'37"
 SURFACE OWNER QUENTIN & BETTY M. QUICK ACREAGE 202
 OIL & GAS ROYALTY OWNER QUENTIN & BETTY M. QUICK LEASE ACREAGE 202
 LEASE NO. 7424

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

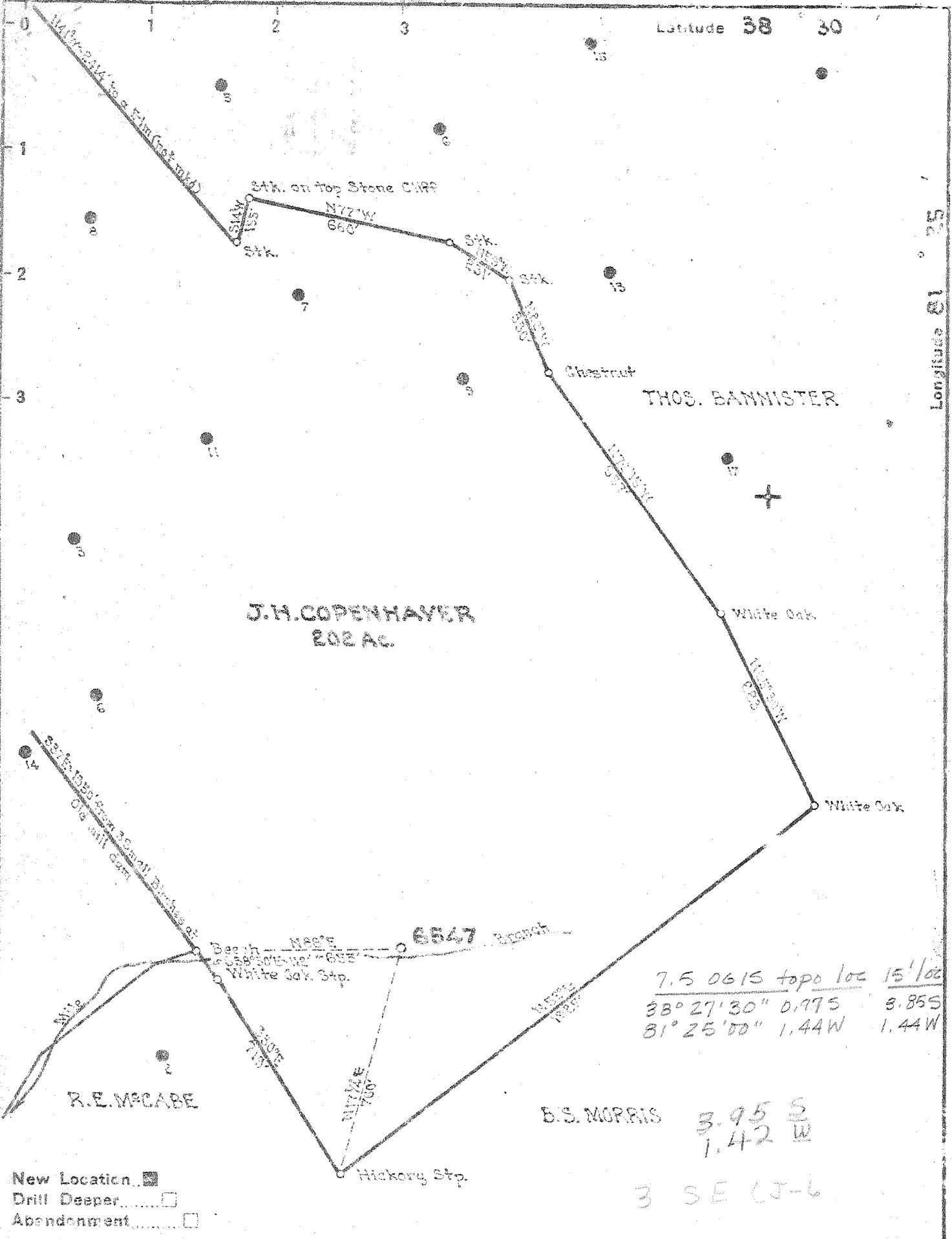
PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION Chickamauga ESTIMATED DEPTH 5150'
 WELL OPERATOR DESBOROUGH DESIGNATED AGENT RICHARD L. COTY

510'
 00°25'18" LONGITUDE
 NORTH
 KANAWHA
 COUNTY NAME
 01523
 PERMIT

FORM IV-6 (6-78)

AUG 1 - 1995

P



New Location
 Drill Deeper
 Abandonment

7.5 0615 topo loc 15/02
 38° 27' 30" 0.975 8.855
 81° 25' 00" 1.44W 1.44W

B.S. MORRIS 3.95 S
 1.42 W
 3 SE U-6

Company UNITED FUEL GAS CO.
 Address CHARLESTON, WVA
 Farm J.H. COPENHAYER
 Tract _____ Acres 202 Lease No. 7484
 Well (Farm) No. 12 Serial No. 6547
 Elevation (Spirit Level) 652.93
 Quadrangle CLENDENIN - NW
 County KANAWHA District SLK
 Engineer [Signature]
 Engineer's Registration No. 262
 File No. 72-65 Drawing No. _____
 Date 10-28-49 Scale 1"=400'

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

WELL LOCATION MAP
 FILE NO. KAN-1523

+ 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.

66-215
 Deep Well

RECEIVED

WV Division of Environmental Protection

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

MAR 01 1996

Well Operator's Report of Well Work

Permitting

Farm name: Office of Oil & Gas QUENTIN & BETTY Operator Well No.: 7335

LOCATION: Elevation: 656.95 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 510 Feet South of 38 Deg. 27Min. 30 Sec.
Longitude 7650 Feet West of 81 Deg. 25 Min. Sec.

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

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
Permit Issued: 07/19/95
Well work Commenced: 10-4-95
Well work Completed: 11-14-95
Verbal Plugging
Permission granted on: -
Rotary - Cable - Rig WORKOVER
Total Depth (feet) 5073
Fresh water depths (ft) N/A

Salt water depths (ft) 840

Is coal being mined in area (Y/N)? N
Coal Depths (ft): -

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size			CIR. CEMENT TO SURFACE FROM 160' 55 SKS.
10-3/4"	203'	203'	
8-5/8"	1433'	1433'-185'	
7"	4981'	4981'	CIR. CEMENT TO SURFACE FROM 1395' 175 SKS. CLAS A
5-1/2"	4979'	4979'-3322'	135 SKS.
4-1/2"	5073'	5073'	TOC FROM 2140' 350 SKS. CBL

OPEN FLOW DATA

Producing formation ORISKANY SANDSTONE Pay zone depth (ft) 5083'-5094'
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 1545 psig (surface pressure) after 24 Hours

*STORAGE WELL - NO OPEN FLOW AVAILABLE
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: Richard L. Coty
Date: 2/27/96

11/13/95 - PERFORATED ORISKANY SANDSTONE FROM 5060 TO 5072 W/72 SHOTS

11/14/95 - FRACTURED ORISKANY SANDSTONE W/4000# 20/40 SAND, 426 BBLs FLUID
12 BBLs 15% HCL

BREAKDOWN PRESSURE: 1841 PSIG

AVG. PRESSURE: 3000 PSIG

ISIP: 2361 PSIG

5 MIN. SIP: 1390 PSIG

10 MIN. SIP: 911 PSIG

15 MIN. SIP: 667 PSIG

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

Permit No. Kan 1523
Montgomery Quad.

Gas Well
CASING & TUBING

Company	United Fuel Gas Co.		
Address	P.O. Box 1273, Charleston, 25, W.Va.		
Farm	J.H. Copenhaver Acres 113.7	10 $\frac{1}{2}$	207
Location	Mile Br. of Blue Creek	8 $\frac{1}{2}$	1433
Well No.	6547 Elev. 656.95	7	4981
District	Elk Kanawha County		
Surface			
Mineral	J.W. Parris et al, Clendenin, W.Va.		
Commenced	12-5-49		
Completed	3-28-50		
Not shot			
Open flow	38/10ths M in 7"		
Volume	9,811 M Oriskany		
Rock Pressure	1550 lbs. 24 hrs.		
Salt Water	840'; 855' H.F.		

Sand & Gravel	0	17
Sand	17	130
Slate	130	150
Lime	150	170
Sand	170	205
Slate & Shells	205	280
Sand	280	375
Slate & Shells	375	475
Sand	475	535
Slate & Shells	535	550
Sand	550	570
Slate	570	585
Sand	585	640
Slate	640	800
- Salt Sand	800	1190
Slate & Shells	1190	1255
- Sand	1255	1290
Red Rock	1290	1300
Slate & Shells	1300	1318
- Sand	1318	1343
Slate & Shells	1343	1364
- Little Lime	1364	1388
Slate & Shells	1388	1405
- Pencil Cave	1405	1408
- Big Lime	1408	1560
- Injun Sand	1560	1588
Slate	1588	1595
- Red Rock	1595	1635
Slate & Shells	1635	1665
- Squaw Sand	1665	1687
Slate & Shells	1687	1750
- Weir Sand	1750	1835
Slate & Shells	1835	3740
Brown Shale	3740	3880
Slate & Shells	3880	4465
Brown Shale	4465	4785
White Slate	4785	4868
Brown Shale	4868	4953
- Corniferous Lime	4953	5074
- Oriskany Sand	5074	
T.D.	5094	

4953	5074
657	657
4296	4417

Gas 1500' show
Oil & Gas 2805' show
Oriskany Gas 5083-5094 38/10 M 7" 22# 9,811 M
Not shot
Final Open flow 9,811 M Oriskany
24 hr. R.P. 1550#
Shut in 3-28-50 in 7" casing.

RECEIVED

WV Division of Environmental Protection

STATE OF WEST VIRGINIA

DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WELL WORK PERMIT APPLICATION

JUN 22 1995

Well Operator: COLUMBIA GAS TRANSMISSION CORP. ⁷⁵ 10450 (4) 258

Office of Oil & Gas Operator's Well Number: 7335 3) Elevation: 656.95

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

Issued 07/19/95
Expires 07/19/97

Proposed Target Formation(s): ORISKANY SANDSTONE

Proposed Total Depth: 5150 feet

Approximate fresh water strata depths: +/- 200' EST.

Approximate salt water depths: 840'

Approximate coal seam depths: NO RECORD

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

PULL TBG. RUN CBL. IF 4-1/2" IS CEMENTED TO SURFACE, REPLACE WELL-

Proposed Well Work: HEAD & STIMULATE ORISKANY. IF 4-1/2" IS NOT CEMENTED, PULL 4-1/2", 8-5/8", 10-3/4" FROM FREEPOINT. RE-CEMENT 10-3/4" & 7" TO SURFACE. TIE BACK 4-1/2" AND STIMULATE ORISKANY SANDSTONE.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling / Left in well	
FRESH WATER Conductor	10-3/4"			203'	CEMENT TO SURFACE
INTERMEDIATE Fresh Water	8-5/8"		28#/FT	1433'	CEMENT TO SURFACE
INTERMEDIATE Coal	7"		23#/FT	4981'	380 CSR 11.3 30 CSR 11.20
Intermediate	5-1/2"			4979' - 3322'	135 SKS.
Production	4-1/2"	J-55	12.6#/FT	5136'	350 SKS.
Tubing					380 CSR 11.1
Liners					

PACKERS : Kind _____
Sizes _____
Depths set _____

For Office of Oil and Gas Use Only

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

RECEIVED
WV Division of
Environmental Protection
JUN 22 1995

- 1) Date: 5/26/95
- 2) Operator's well number 7335
- 3) API Well No: 47 - 039 - 1523
State - County - Permit

Permitting
Office of Oil & Gas
STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

- 4) Surface Owner(s) to be served:
 - (a) Name Quentin & Betty M. Quick
Address 300 Walgrove Rd.
Elkview, WV 25071
 - (b) Name _____
Address _____
 - (c) Name _____
Address _____
- 6) Inspector Carlos W. Hively
Address 223 Pinch Ridge Rd.
Elkview, WV 25071
Telephone (304)- _____

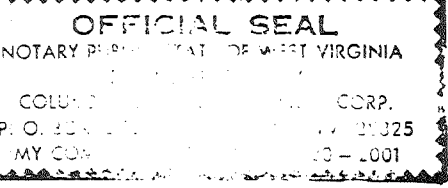
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name Quentin & Betty M. Quick
Address 300 Walgrove Rd.
Elkview, WV 25071
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____

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 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)
 I certify that as required under Chapter 22B 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 22B 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 SOLUMBIA GAS TRANSMISSION CORP.
 By: Richard L. Colby
 Its: MANAGER - WELL SERVICES
 Address P. O. BOX 1273
CHARLESTON, WV 25325-1273
 Telephone (304) 357-3034

Subscribed and sworn before me this 6th day of June, 1995

Shyllis M. Dredon Notary Public

My commission expires November 20, 2001