

Jamil  
4/2/96

LATITUDE 38°27'30"

THOMAS BANNISTER HEIRS  
T.M. 24, PAR. 84  
WB. 453, PG. 253

MELISSA & DRENNEN CISCO  
T.M. 24, PAR. 92  
DB. 1481, PG. 357

QUENTIN & BETTY M. QUAIL  
T.M. 24, PAC. 78  
DB. 1313, PG. 83

WELL #7324  
(KAN - 1533)

WELL #12072

EARL H. GROSS  
T.M. 24, PAR. 91  
DB. 1441, PG. 59

NOTE THIS MAP IS FOR WELL LOCATION ONLY  
AND DOES NOT REPRESENT A COMPLETE  
PROPERTY SURVEY

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

FILE NO. \_\_\_\_\_  
DRAWING NO. 7324  
SCALE 1" = 400'  
MINIMUM DEGREE OF  
ACCURACY 1:200  
PROVEN SOURCE OF  
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 REGU-  
LATIONS ISSUED AND PRESCRIBED BY THE DEPART-  
MENT OF ENERGY.  
(SIGNED) Edward Nicholson  
R.P.E. 9936 L.L.S. 798



STATE OF WEST VIRGINIA  
DEPARTMENT OF ENERGY  
OIL AND GAS DIVISION



DATE JANUARY 22, 1996  
OPERATOR'S WELL NO. 7324  
API WELL NO. \_\_\_\_\_

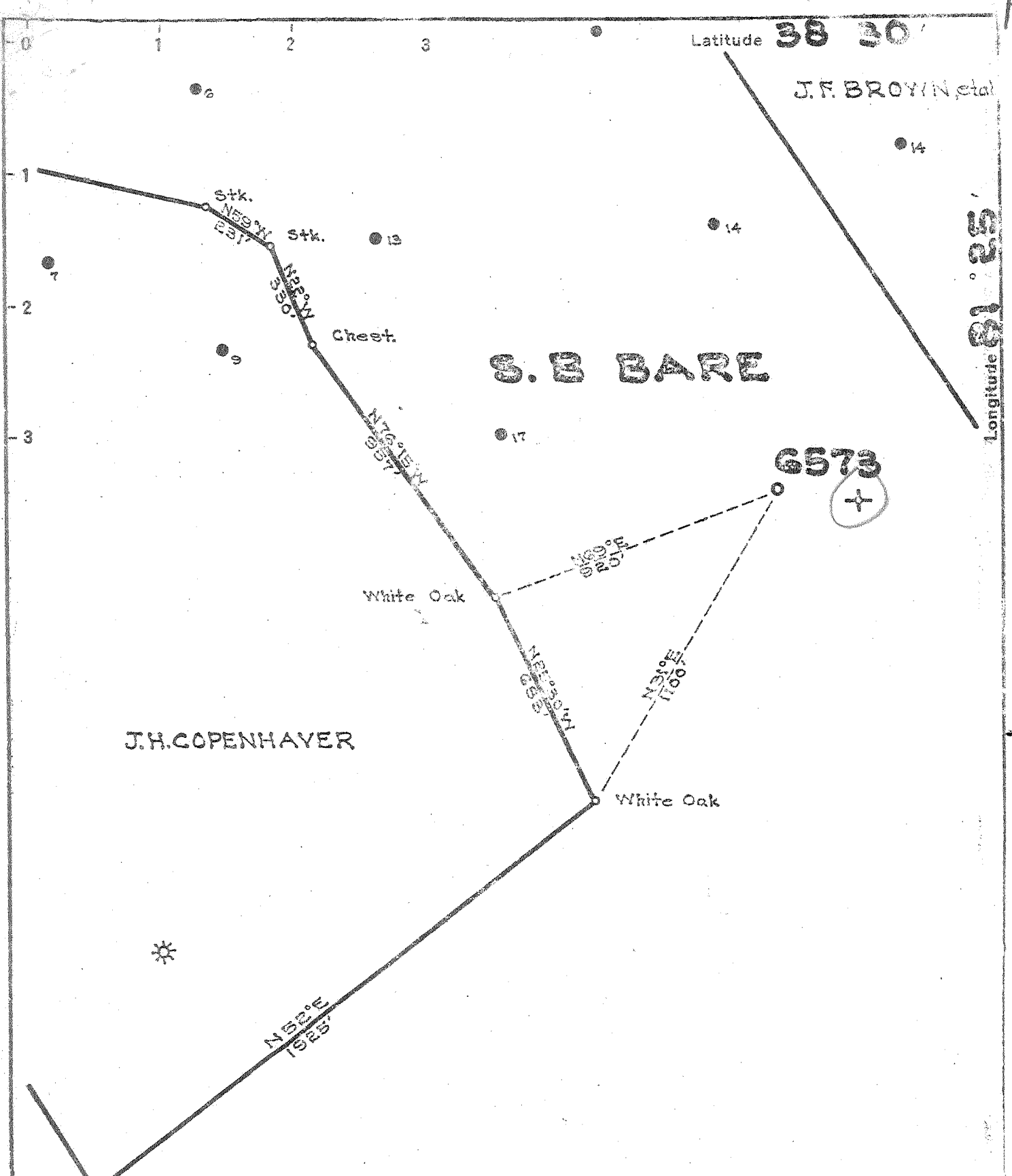
WELL TYPE: OIL \_\_\_ GAS X LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
(IF "GAS," ) PRODUCTION \_\_\_ STORAGE X DEEP \_\_\_ SHALLOW \_\_\_  
LOCATION: ELEVATION 1005.95 WATER SHED BLUE CREEK  
DISTRICT ELK COUNTY KANAWHA  
QUADRANGLE BLUE CREEK CLIND. NW COORDINATES LAT: 38°26'54" LONG: 81°26'15"  
SURFACE OWNER THOMAS BANNISTER HEIRS ACREAGE \_\_\_\_\_  
OIL & GAS ROYALTY OWNERS S. P. BARE LEASE ACREAGE 540  
COAL OWNER \_\_\_\_\_ LEASE NO. 4849

PROPOSED WORK: DRILL \_\_\_ CONVERT \_\_\_ DRILL DEEPER \_\_\_ REDRILL \_\_\_ FRACTURE OR  
STIMULATE \_\_\_ PLUG OFF OLD FORMATION \_\_\_ PERFORATE NEW  
FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) REWORK EXISTING WELL WITH DEEPER DRILL DEEPER TRAIL  
PLUG AND ABANDON \_\_\_ CLEAN OUT AND REPLUG \_\_\_  
TARGET FORMATION Oriskany ESTIMATED DEPTH \_\_\_\_\_  
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT RICHARD COTY  
ADDRESS PO BOX 1273, CHARLESTON, WV ADDRESS PO BOX 1273, CHARLESTON, WV  
25325-1273 25325-1273

DEEP WELL

KANAWHA COUNTY NAME PERMIT 01533

FORM WV-6



J.H. COPENHAYER

S. B BARE

6573

White Oak

White Oak

Hickory Stump

7.5 0615 topo loc 15' loc  
 38° 27' 30" 0.685 3.56 S  
 81° 25' 00" 1.13 W 1.13 W

3.8 S  
 1.1 W

3 EC (J-6)

New Location   
 Drill Deeper   
 Abandonment

Company UNITED FUEL GAS CO.  
 Address CHARLESTON, W.VA.  
 Farm S.B. BARE  
 Tract \_\_\_\_\_ Acres 540 Lease No. 4849  
 Well (Farm) No. 18 Serial No. 6573  
 Elevation (Spirit Level) 1005.95  
 Quadrangle CLENDENIN -NW  
 County KANAWHA District ELK  
 Engineer [Signature]  
 Engineer's Registration No. GG2  
 File No. 72-65 Drawing No. \_\_\_\_\_  
 Date 6-7-50 Scale 1"=400'

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

WELL LOCATION MAP  
 FILE NO. KAN-1533

+ 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.

"IMPERIAL" TRACING CLOTH  
 K & E CO., N.Y.

6-6-215

Deep Well

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

Permit No. KAN-1533  
Clendenin Quad.

Gas

Company	United Fuel Gas Co.	CASING & TUBING	
Address	Box 1273, Charleston, W. Va.		
Farm	S. E. Bare #18 Acres 540	14	20
Location	Blue Cr.	10 3/4	531
Well No.	6573 Elev. 1005.95	8 5/8	1768
District	Elk County - Kanawha	7"	4270
Mineral	Kan. Valley Bank Trustee of J. H. Bannister Est., Charleston, W. Va.	5 1/2"	5317
Commenced	6/19/50		
Completed	1/8/52		
Open Flow	36/10ths Merc. in 7"		
Volume	9,549 M		
R.P.	980# 15 hrs.		

Red Rock	0	15	Brown Shale	4850	4950
Sand	15	105	Roddish Brown Shale	4950	5165
Slate	105	155	White Shale	5165	5175
Sand	155	265	Brown Shale	5175	5286
Red Rock	265	325	Corniferous Lime	5286	5427
Slate	325	340	Oriskany Sand	5427	5454
Sand	340	490	TOTAL DEPTH	5454'	
Slate	490	500			
Sand	500	575	Water 1170'		
Slate & Shells	575	655	Oil & Gas 4125'		
Sand	655	755	Gas 5436' 10/10 W 7" 22# 1,364M		
Slate & Shells	755	835	Gas 5436-5439' increased to 60/10 W		
Sand	835	880	7" 22# 3,858 M		
Slate & Shells	880	950	Gas 5439-5441' increased to 16/10 M		
Sand	950	990	7" 22# 8,755 M		
Slate & Shells	990	1140	Gas 5441-5452' 36/10 Merc. 7" 22#		
Salt Sand	1140	1540	9,549 M		
Slate & Shells	1540	1632	Gas 5452-5454' 36/10 Merc. 7" 22#		
Red Rock	1632	1634	9,549 M		
Slate & Shells	1634	1675			
Maxon	1675	1695	<u>FINAL OPEN FLOW</u> - 9,549 M - Oriskany		
Slate	1695	1712	15 Hr. R.P. 980#		
Little Lime	1712	1738			
Slate & Shells	1738	1748	Shut in 1/8/52 in 5 1/2" Casing.		
Pencil Cave	1748	1753			
Big Lime	1753	1905	Note: Oil Pay 4125' shot by South		
Injun Sand	1905	1940	Penn Oil Co. with 20 qts. South Penn		
Slate & Shells	1940	2010	Oil Co. started testing Oil 9/12/50.		
Squaw Sand	2010	2030	United Fuel Gas Company started		
Slate & Shells	2030	2060	drilling deeper 9/12/51 at depth of		
Weir Shell	2060	2200	4270'.		
Slate & Shells	2200	2325			
Brown Shale	2325	2330			
Berea Grit	2330	2337			
Slate & Shells	2337	4110			
Brown Shale	4110	4270			
Lime	4270	4300			
White Shale	4300	4850			

RECEIVED

WV Division of Environmental Protection

State of West Virginia

02-Apr-96  
API # 47- 39-01533 W

Division of Environmental Protection

DEC 18 1996

Section of Oil and Gas

Permitting Well Operator's Report of Well Work

Farm name: BANNISTER, THOMAS- ESTATE Operator Well No.: 7324

LOCATION: Elevation: 1,005.95 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA  
Latitude: 3600 Feet South of 38 Deg. 27Min. 30 Sec.  
Longitude 5925 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 HIVELY  
Permit Issued: 04/04/96  
Well work Commenced: 8-1-96  
Well work Completed: 10-4-96  
Verbal Plugging  
Permission granted on: \_\_\_\_\_  
Rotary X Cable \_\_\_\_\_ Rig  
Total Depth (feet) 5496'  
Fresh water depths (ft) 200'

Salt water depths (ft) 1000'

Is coal being mined in area (Y/N)? No  
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
14"		18'	
10 3/4"		529'	SQUEEZED w/ 19 SX
8 5/8"		1809'	CMT'D TO SURFACE w/ 175 SX
7"		1450' - 4330'	
5 1/2"		1495' - 5094'	
4 1/2"		5420'	

OPEN FLOW DATA

Producing formation ORISKANY Pay zone depth (ft) 5427' - 5454'  
 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

Second producing formation \* STORAGE WELL 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: Paul C. Amick PAUL C. AMICK

Date: 12-12-96

- BACKED OFF + RULLED 1541' OF 4 1/2" AND 1495' OF 5 1/2" CASING.
- CUT 7" CASING AT 1450' AND RULLED.
- SQUEEZED 8 5/8" CASING FROM 1000' TO SURFACE WITH 175 SX NEAT CEMENT.
- SQUEEZED 10 3/4" CASING AT 480' WITH 19 SX NEAT CEMENT.
- TIED BACK 4 1/2" CASING.
- INSTALLED NEW API 3000 PSI WELHEAD EQUIPMENT.
- DRILLED NEW 3 3/4" HOLE 5457' - 5496' IN LINE.
- INSTALLED 4 1/2" CASING PATCH AT 1495' - 1515'.
- SPOTTED 1000 GALS 15% HCL AND FRAC'D ORISKANY WITH CROSSLINK GEL SYSTEM USING 418 BBL WATER AND 15,000 LBS 20/40 SAND RAMPED 1-3 PPG AT 16.5 BPM.

BREAKDOWN: 1977 PSI ATP: 2576 PSI MTP: 2993 PSI  
ISIP: 2482 PSI 15 min: 906 PSI

**RECEIVED**  
WV Division of  
Environmental Protection

DEC 18 1996

Permitting  
Office of Oil & Gas



**RECEIVED**  
WV Division of  
Environmental Protection

MAR 18 1996

Permitting  
Office of Oil & Gas

1) Date: 2-28-96  
2) Operator's well number 7324  
3) API Well No: 47 - 039 - 15332W  
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 THOMAS BANISTER ESTATE  
Address 209 CENTRAL AVENUE  
HINTON, WV 25951
  - (b) Name \_\_\_\_\_  
Address \_\_\_\_\_
  - (c) Name \_\_\_\_\_  
Address \_\_\_\_\_
- 5) (a) Coal Operator:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- (b) Coal Owner(s) with Declaration:  
Name SAME AS # 4a  
Address \_\_\_\_\_
- (c) Coal Lessee with Declaration:  
Name \_\_\_\_\_  
Address \_\_\_\_\_
- 6) Inspector CARLOS W. HIVELY  
Address 223 PINCH RIDGE ROAD  
TELKVIEW, WV 25071  
Telephone (304) 965-6069

*Copy of lease on file in Columbia Gas Trans*

**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. Coty  
Its: Manager - Well Services  
Address P.O. Box 1273  
Charleston WV 25325-1273  
Telephone 304-357-3034

Subscribed and sworn before me this 4th day of March, 1996

Joyce A. Caudle Notary Public  
My commission expires April 16, 1996

