

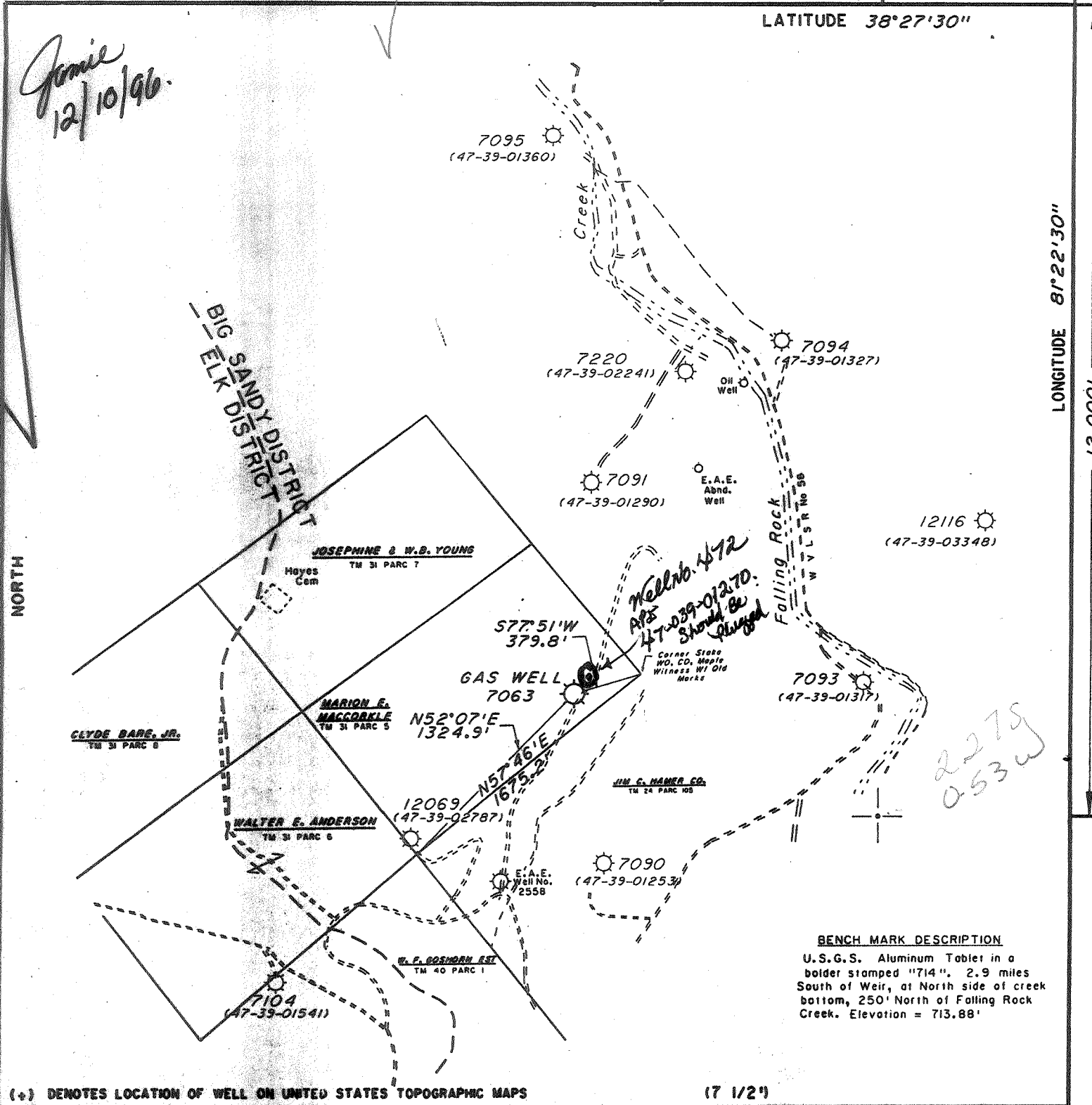
LATITUDE 38°27'30"

2,800'

LONGITUDE 81°22'30"

12,000'

*Janie
12/10/96.*



BENCH MARK DESCRIPTION
 U.S.G.S. Aluminum Tablet in a bolder stamped "714". 2.9 miles South of Weir, at North side of creek bottom, 250' North of Falling Rock Creek. Elevation = 713.88'

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

(7 1/2")

FILE NO. _____
 DRAWING NO. 7063
 SCALE 1" = 800'
 MINIMUM DEGREE OF ACCURACY 1:200
 PROVEN SOURCE OF ELEVATION U.S.G.S. BENCH MARK "714"

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) *Ray A. Smith, Jr.*
 R.P.E. _____ L.L.S. 499

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



DATE October 8, 19 96
 OPERATOR'S WELL NO. 7063
 API WELL NO. 47 039 01308-D

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 1018.2 WATER SHED Falling Rock Creek of Elk River
 DISTRICT Big Sandy COUNTY Kanawha
 QUADRANGLE Blue Creek, WV COORDINATES LAT: 38°25'31" LONG: 81°23'05"
 SURFACE OWNER Marion E. MacCorkle ACREAGE 75
 OIL & GAS ROYALTY OWNER W G MacCorkle, Hrs LEASE ACREAGE 338
 COAL OWNER W G MacCorkle, Hrs LEASE NO. 4832

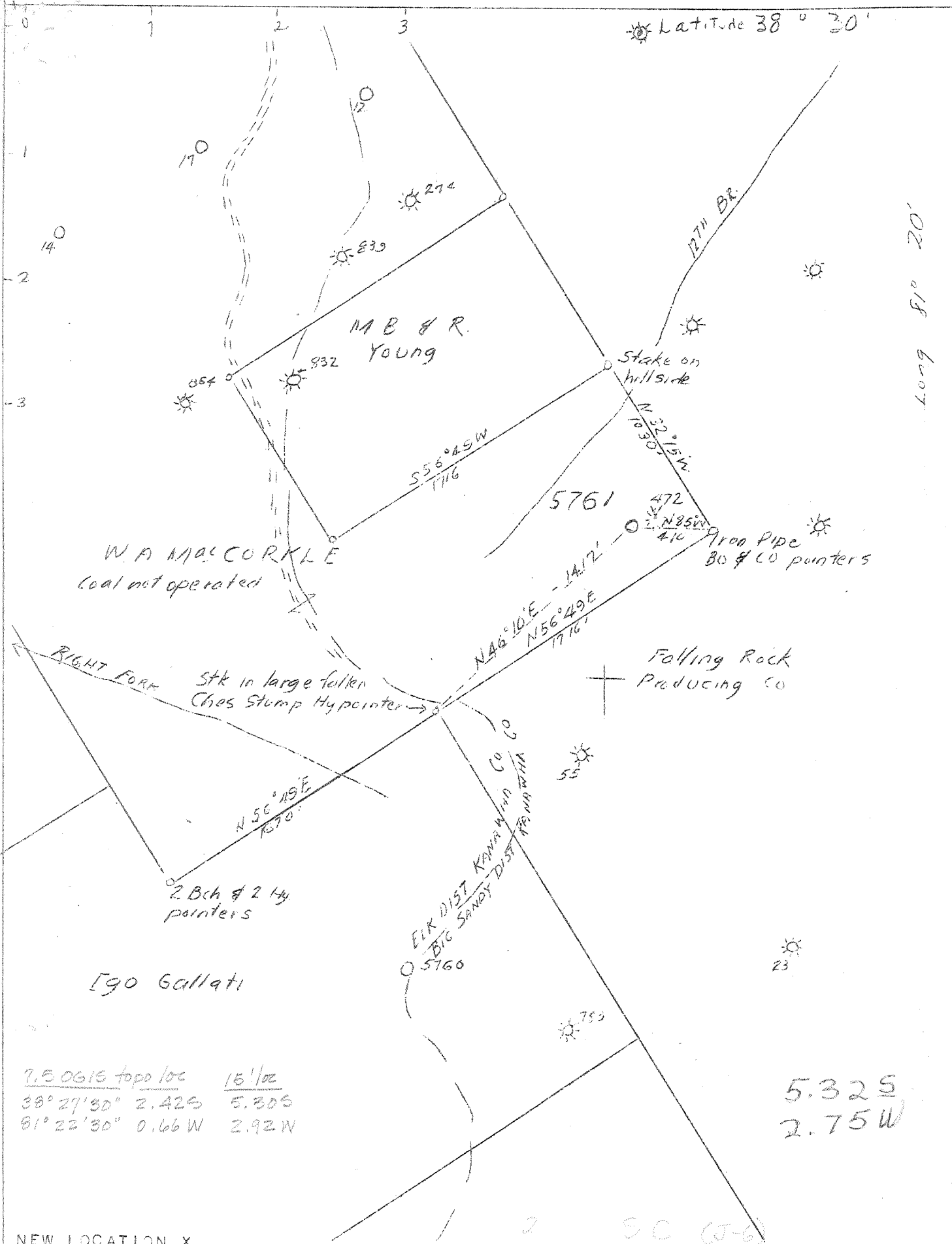
KANAWHA COUNTY NAME

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Well workover and drill deeper of existing well

PERMIT 01308

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION Oriskany ESTIMATED DEPTH 5530' 100' Drill Deeper.
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT Richard L. Coly DEC 13 1996
 ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

DEEP WELL.



7.50615 topd loc	15'oz
38° 27' 30" 2.425	5.305
81° 22' 30" 0.66 W	2.92 W

5.325
2.75 W

NEW LOCATION X

COMPANY	UNITED FUEL GAS CO.
ADDRESS	CHARLESTON, W. VA.
FARM	W. A. MAC CORKLE
TRACT	ACRES 338 LEASE NO. 4832
WELL (FARM) NO.	18 SERIAL NO. 5761
ELEVATION (S.L.)	1010.11
QUADRANGLE	CLENDENIN - NC
COUNTY	KANAWHA DISTRICT BIG SANDY
ENGINEER	G. H. MOORE
ENGINEER'S REG. NO.	662
FILE NO.	74/63 DRAWING NO.
DATE	8/12/46 SCALE 1" - 661'

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
CHARLESTON
WELL LOCATION MAP
FILE NO. KAN-1308

+ 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.

2-6-215
Deep Well

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

Permit No. Kan 1308

Gas Well
CASING & TUBING

Clendenin Quad.	United Fuel Gas Co.			
Company	P.O. Box 1273, Charleston, W.Va.	13 3/8	479	479
Address	W.A. MacCorkle Acres 338	10 1/2	1606	1606
Farm	12th Br. of Falling Rock Cr.	8 5/8	2011	2011
Location	5761 Elev. 1010.11	7	5290	5274
Well No.	Big Sandy Kanawha County			
District	Monroe Co. Box 1113, Charleston 24, W.Va.			
Surface	8-12-46		Coal at 532' 96"	
Mineral	Completed 2-3-47		1183' 72"	
Commenced				
Completed				
Not shot				
Rock Pressure	800 lbs. 48 hrs.			

Volume ?

Soil	0	10	White Slate	4230	4335
Sand	10	20	Br. Shale	4335	4370
Lime	20	40	White Slate	4370	4741
Sand	40	55	Br. Shale	4741	5251
Lime	55	70	Corniferous Lime	5251	5374
Sand	70	147	Oriskany Sand	5374	5402
White Slate	147	185	TOTAL DEPTH		5402
Lime	185	190			
Sand	190	210	Gas 5376-5389 Oriskany		
Black Slate	210	220	Gas 5391-5395 Oriskany		
White Slate	220	230			
Sand	230	300			
Slate	300	310			
Sand	310	320			
Slate	320	340			
Sand	340	380			
Slate	380	420			
Sand	420	470			
Slate	470	480			
Sand	480	518			
Slate	518	532			
Coal	532	540			
Slate	540	640			
Lime	640	680			
Slate	680	698			
Lime	698	717			
Slate	717	750			
Sand	750	771			
Slate	771	800			
Lime	800	818			
Slate	818	848			
Lime	848	890			
Salt Sand	890	1110			
Slate	1110	1116			
Sandy Lime	1116	1183			
Coal	1183	1189			
Sand	1189	1330			
Lime	1330	1348			
Sand	1338	1370			
Slate	1370	1390			
Red Rock	1390	1410			
Slate & Shells	1410	1495			
Maxon Sand	1495	1520			
Slate	1520	1528			
Lime	1528	1555			
Slate	1555	1572			
Red Rock	1572	1580			
Slate	1580	1595			
Big Lime	1595	1753			
Slate & Shells	1753	1785			
Injun Sand	1785	1880			
Slate	1880	1885			
Weir Sand	1885	1986			
Slate	1986	3282			
Br. Shale	3282	3480			
Slate & Shells	3480	3730			
Br. Shale	3730	4230			

5251 5374

<i>1753</i>	<i>1753</i>
<i>1395</i>	<i>1010</i>
<i>158</i>	<i>743</i>

No Berea

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WV Division of
Environmental Protection

JAN 21 1998

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

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: ARBOGAST, STEVE Operator Well No.: COCO 7063

LOCATION: Elevation: 1,018.70 Quadrangle: BLUE CREEK

District: BIG SANDY County: KANAWHA
Latitude: 12000 Feet South of 38 Deg. 27Min. 30 Sec.
Longitude 2800 Feet West of 81 Deg. 22 Min. 30 Sec.

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

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
Permit Issued: 12/10/96
Well work Commenced: 09/12/97
Well work Completed: 12/06/97
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 5456'
Fresh water depths (ft) _____
Not Reported
Salt water depths (ft) _____
1000', 1090'
Is coal being mined in area (Y/N)? N
Coal Depths (ft): Not Reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
10 3/4"		1607'	
8 5/8"		2012'	
7"		5274'	50SX
5 1/2"		5304'	100SX
3 1/2"		5449'	75SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5374'-5397'
 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 _____ 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: *[Signature]*
Date: 1-15-98

JAN 23 1998

Cut 2 3/8" tubing at 5277' and pulled, replaced top joint of 5 1/2" casing and installed new 7" X 5 1/2" API 3000 wellhead, washed over and recovered additional 113' of 2 3/8" tubing, drilled new 4 3/4" hole 5402' - 5456', ran 5449' of 3 1/2", 9.2 lb., J-55 tubing and cemented with 75 SX Class A Cement. Perf'd ORISKANY 5374' - 5397' with 6 SPF. Stimulated ORISKANY with N₂ - Assist Deltafrac using 418 bbls water, 140 MSCF N₂, and 25,500 lbs 20/40 sand.

Table with multiple columns and rows, containing technical data and possibly well logs. The text is mostly illegible due to blurring and low contrast.

OPEN FLOW

Pressure
Flow
Temperature
Gas flow
Liquid flow
Total flow

Pressure
Flow
Temperature
Gas flow
Liquid flow
Total flow

Pressure
Flow
Temperature
Gas flow
Liquid flow
Total flow



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

10450 ① 258

1) Well Operator: Columbia¹⁷⁵ Gas Transmission Corp.

Operator's Well Number: 7063 3) Elevation: 1010

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

Issued 12/10/96
Expires 12/10/98

Proposed Target Formation(s): Oriskany⁴⁷⁵ Sandstone

Proposed Total Depth: 5530 feet

7) Approximate fresh water strata depths: N/A

8) Approximate salt water depths: N/A

9) Approximate coal seam depths: 532'-540', 1183'-1189'

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

11) Proposed Well Work: Install API 3000 wellhead. Drill well 100' deeper. Log. Stimulate Oriskany. Install tubing if needed.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
<u>Existing Well in Storage</u>						
Conductor	13 3/8"		48	479'	-0-	
Fresh Water	10 3/4"		32.75	1607'	1607'	
Coal	8 5/8"		28	2012'	2012'	
Intermediate	7"		22	5274'	5274'	50 sks
Production	5 1/2"		17:15.5	5304'	5304'	100 sks
Tubing	2 3/8"		4.6	5404'	5404'	
Liners		<u>10 3/8" 10 3/8"</u>				<u>38.5 SKS</u>

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)

Office of Oil & Gas
Permitting
NOV 18 1996
Environmental Protection

22920

01/22/97
38

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NOV 18 1996

- 1) Date: 10/29/96
- 2) Operator's well number
COCO- WELL # 7063
- 3) API Well No: 47 - 039 - 01308 - DD
State - County - Permit

Office of
Permitting

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 Steve Arbogast
Address 250 Blue Creek Road
Elkview, WV 25071
 - b) Name
Address
 - c) Name
Address
- 6) Inspector Carlos W. Hiviely
Address 223 Pinch Ridge Road
Elkview, WV 25071
Telephone (304) - 965-6069

- 5) (a) Coal Operator:
 - Name
Address
 - (b) Coal Owner (s) with Declaration
Name W. G. MacCorkle, Heirs
Address %Torquil MacCorkle, et. al.
420 Gails Way, Merritt Island, FL 32953
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 X 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)
- X Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

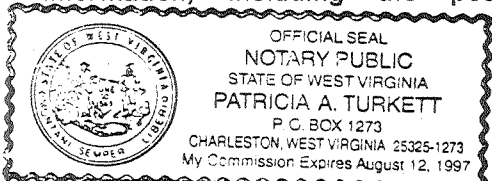
I have read and understand Chapter 22-6 and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

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: [Signature]
Its: Storage Engineer / Well Services
Address P. O. Box 1808
St. Albans, WV 25177-1808
Telephone (304) 722-8612



Subscribed and sworn before me this 4th day of November, 19 96

Patricia A. Turkett Notary Public

My commission expires August 12, 1997