

1,775'

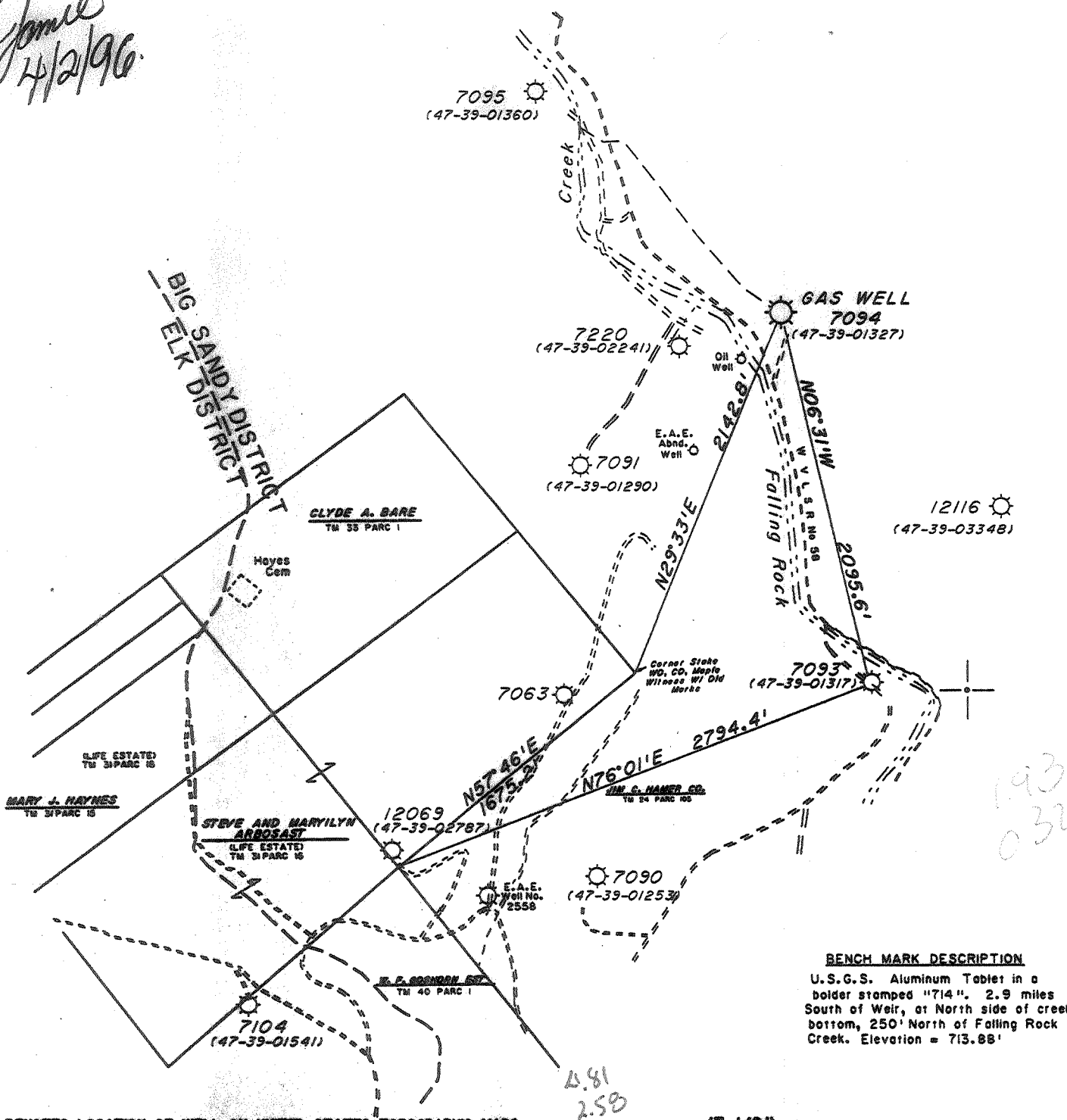
LATITUDE 38°27'30"

LONGITUDE 81°22'30"

10,075'

Jamie
4/2/96

NORTH



BENCHMARK 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. 7094
 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) *Henry H. Smith, Jr.*
 R.P.E. _____ L.L.S. 499

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE February 20, 1, 19 96
 OPERATOR'S WELL NO. 7094
 API WELL NO. _____

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____ STATE 47 COUNTY 039 PERMIT 01327 W
 (IF "GAS,") PRODUCTION _____ STORAGE X DEEP _____ SHALLOW _____
 LOCATION: ELEVATION 793.9' WATER SHED Falling Rock Creek of Elk River
 DISTRICT Big Sandy COUNTY Kanawha
 QUADRANGLE Blue Creek, WV COORDINATES LAT: 38°25'50" LONG: 81°22'52"
 SURFACE OWNER Jim C. Hamer Company ACREAGE 3.240
 OIL & GAS ROYALTY OWNER Jim C. Hamer Company LEASE ACREAGE 3.240
 COAL OWNER Jim C. Hamer Company LEASE NO. 48144

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) New well exists well cannot plug drill deeper frac
 PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Oriskany ESTIMATED DEPTH _____
 WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT Richard L. Coty
 ADDRESS PO Box 1273, Charleston, WV 25325-1273 ADDRESS PO Box 1273, Charleston, WV 25325-1273

APR 05 1996

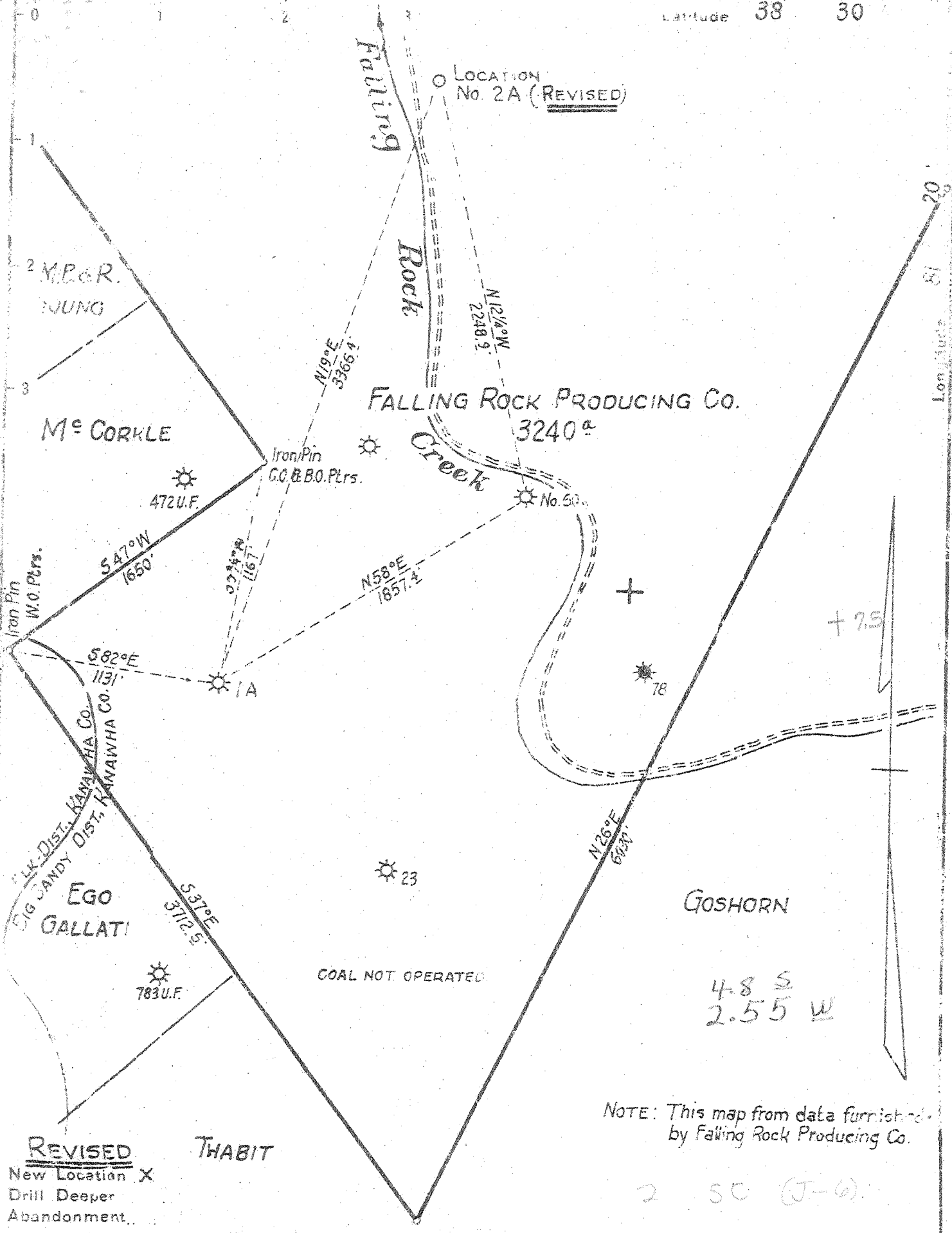
Oriskany

9-AM FORM 1

KANAWHA COUNTY NAME

01327 PERMIT

DEEP WELL



REVISED
New Location X
Drill Deeper
Abandonment.

THABIT

GOSHORN

4-8 S
2.55 W

NOTE: This map from data furnished by Falling Rock Producing Co.

2 50 (J-6)

Company FALLING ROCK PRODUCING CO.
 Address 40 PEOPLES BANK BLDG., MARIETTA, OHIO.
 Farm FALLING ROCK PRODUCING CO.
 Tract _____ Acres 3240 Lease No. _____
 Well (Farm) No. 2-A Serial No. _____
 Elevation (Spirit Level) 793.9 ft.
 Quadrangle CLENDENIN N.W. - NC
 County KANAWHA District BIG SANDY
 Engineer W.S. GRAVELY
 Engineer's Registration No. _____
 File No. _____ Drawing No. _____
 Date MARCH 29, 1947 Scale 1" = 660'

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

WELL LOCATION MAP
FILE NO. KAN-132T-R

no redite record
O+G Div 112/88-14P
+ 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.

Deep Well

L.L. 1319-42
 Slate 1342-65
 L. shell 1386-88
 P.C. 1388-90
 B.L. 1390-1540
 B. Sj. 1540-1555

1540
 1390

 150

1540
 1394

 746

Dickinson

4.82
2,57 W. 31020
Big Sand 05+

WEST VIRGINIA DEPARTMENT OF MINES
OIL & GAS DIVISION
WELL RECORD

Permit No. Kan. 1327		Gas Well
Glendenin Quad.		CASING & TUBING
Company	Falling Rock Producing Co.	
Address	Falling Rock, W. Va.	13 22 22
Farm	Falling Rock Prod. Co. A-	10 271 None
Location	Falling Rock Creek	8½ 1404'9 1404'9
Well No.	2-A Elev. 793	7 OD 5056 5056
District	Elk Kanawha County	Used shoe and cemented
Surface	F.R. Prod. Co.	with 8 bags of cement
Mineral	Same	
Commenced	Jan. 8, 1947	Casing cemented 7" 8 bags
Completed	June 26, 1947	8½ casing aquagelled
Date shot	June 3, Depth 5210 to 5184	
Open flow	with 60 qts. glycerine	Coal at 991', 994, 1018,
Volume	9/10ths W in 7" 24#	1022.
Fresh Water	1,492,000 C.F.	
Salt Water	125'; 130' 1 blr. per hr.	
	260' H.F.	

Sand	0	81	White Slate	4000	4640
Slate	81	100	Brown Shale	4640	4880
Sand	100	190	White Slate	4880	4935
Slate	190	215	Brown Shale	4935	4980
Sand	215	260	Black Slate	4980	5054
Slate	260	272	Corniferous Lime	5054	5183
Sand	272	290	Oriskany Sand	5183	5210
Slate	290	400	Lime - "	5210	5218
Sand	400	410			
Slate	410	425	Gas 5184' to 5197, 9/10 W & " OD		
Sand	425	445			
Slate	445	500			
Sand	500	568			
Slate	568	660			
Lime Shell	660	675			
Sand	675	698			
Slate	698	710			
Salt Sand	710	925			
Slate	925	947			
Lime Shell	947	955			
Salt Sand	955	991			
Coal	991	994			
Lime	994	1018			
Coal	1018	1022			
Slate	1022	1040			
Salt Sand	1040	1102			
Slate	1102	1110			
Black Lime	1110	1125			
Salt Sand	1125	1145			
Slate	1145	1152			
Red Rock	1152	1160			
Slate	1160	1185			
Red Rock	1185	1210			
Slate	1210	1282			
Maxon Sand	1282	1304			
Blue Slate	1304	1319			
Little Lime	1319	1342			
Slate	1342	1365			
Lime Shell	1365	1388			
Pencil Cave	1388	1390			
Big Lime	1390	1540			
Big Injun	1540	1555			
Black Lime	1555	1560			
Lime Shell	1560	1575			
Weir Sand	1575	1778	Core drilled Weir Sand		
Slate	1778	1940	from		
Brown Shale	1940	1970	No Barren		
Slate & Shells	1970	2175			
Lime Shell	2175	2200			
Slate & Shells	2200	3125			
Brown Shale	3125	3150			
Slate & Shells	3150	4000			

5054 5183 5210
793 793 793

4261 4390 4417

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

JAN 2 1 1998

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: HAMER, JIM C., COMPANY Operator Well No.: 7094

LOCATION: Elevation: 793.90 Quadrangle: BLUE CREEK

District: BIG SANDY County: KANAWHA
Latitude: 10075 Feet South of 38 Deg. 27Min. 30 Sec.
Longitude 1775 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: 04/04/96
Well work Commenced: 05/19/97
Well work Completed: 11/21/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5256'
Fresh water depths (ft) 125'
Salt water depths (ft) 260'
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.
13 3/8"		22'	
8 5/8"		1404'	
7"		5056'	8SX
4 1/2"	11.6 lbs, N-80	5255'	55SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5162'-5184'
 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

JAN 23 1998

Cut 4 1/2" casing at 4306', milled out 4 1/2" casing 4306'-5081', washed over and recovered 4 1/2" casing 5081'-5128', and installed new 7" X 4 1/2" API 3000 wellhead. Drilled new 6 1/8" hole 5218'-5256'. Set casing patch in 7" at 4670'-4680'. Ran and cemented 5255' of 4 1/2", 11.6 lb., N-80 casing using 558X Class A cement. Perf'd ORISDANY 5162'-5184' with 6 SPF.

RECEIVED
 WV Division of
 Environmental Protection

039-1327 Frac

Issued 04/04/96
 Expires 04/04/98

FORM WW-25 **MAR 18 1996**

Page _____ of _____

Permitting
 Office of Oil & Gas

STATE OF WEST VIRGINIA

DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

WELL WORK PERMIT APPLICATION

21753

Well Operator: COLUMBIA GAS TRANSMISSION CORP. 10450 (1) 258

Operator's Well Number: 7094 3) Elevation: 793'

Well type: (a) Oil / or Gas

(b) If Gas: Production / Underground Storage
 Deep / Shallow

Proposed Target Formation(s): ORISKANY

Proposed Total Depth: 5320 feet

Approximate fresh water strata depths: 200' (EST) *from well records*

Approximate salt water depths: 800'

Approximate coal seam depths: NO INFORMATION 991'-994'

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

Proposed Well Work: PULL 4 1/2" FROM TOP OF CEMENT; PULL 7" FROM 1350'; RE-CEMENT 8 5/8" TO SURFACE; TIE BACK 7" CASING; RE-CEMENT 7" CASING; MILL REMAINING 4 1/2" CASING OUT; DRILL NEW HOLE 5218'-5350'; RUN NEW 4 1/2" CASING AND CEMENT; CASING AND TUBING PROGRAM STIMULATE ORISKANY.

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	
Conductor	13 3/8"		48 #/FT		22' 38CSR10 1.3
Fresh Water	8 5/8"		28 #/FT	1404'	1404' CIRCULATE TO SURFACE
Coal					38CSR10 1.2
Intermediate	7"		20 #/FT	5056'	CIRCULATE TO SURFACE, IF POSSIBLE
Production	4 1/2"	N-80	11.6 #/FT	5320'	110 CF
Tubing					
Liners					38CSR10 1.1

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

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

RECEIVED
WV Division of
Environmental Protection

MAR 18 1996

Permitting
Office of Oil & Gas

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

1) Date: 2-27-96
2) Operator's well number 7094
3) API Well No: 47 - 039 - 13271
State County Permit

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name JIM C. HAMER Co.
Address P.O. Box 418
KENOVA, WV 25530
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration:
Name SAME AS #4a
Address _____
Name _____
Address _____

6) Inspector CARLOS W. HAVELY
Address 223 PINCH RIDGE ROAD
ELKVIEW, WV 25071
Telephone (304) 965-6019

(c) Coal Lessee with Declaration:
Name _____
Address _____

Household Copy for Review in Columbia Eastern Office

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. Coby
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

