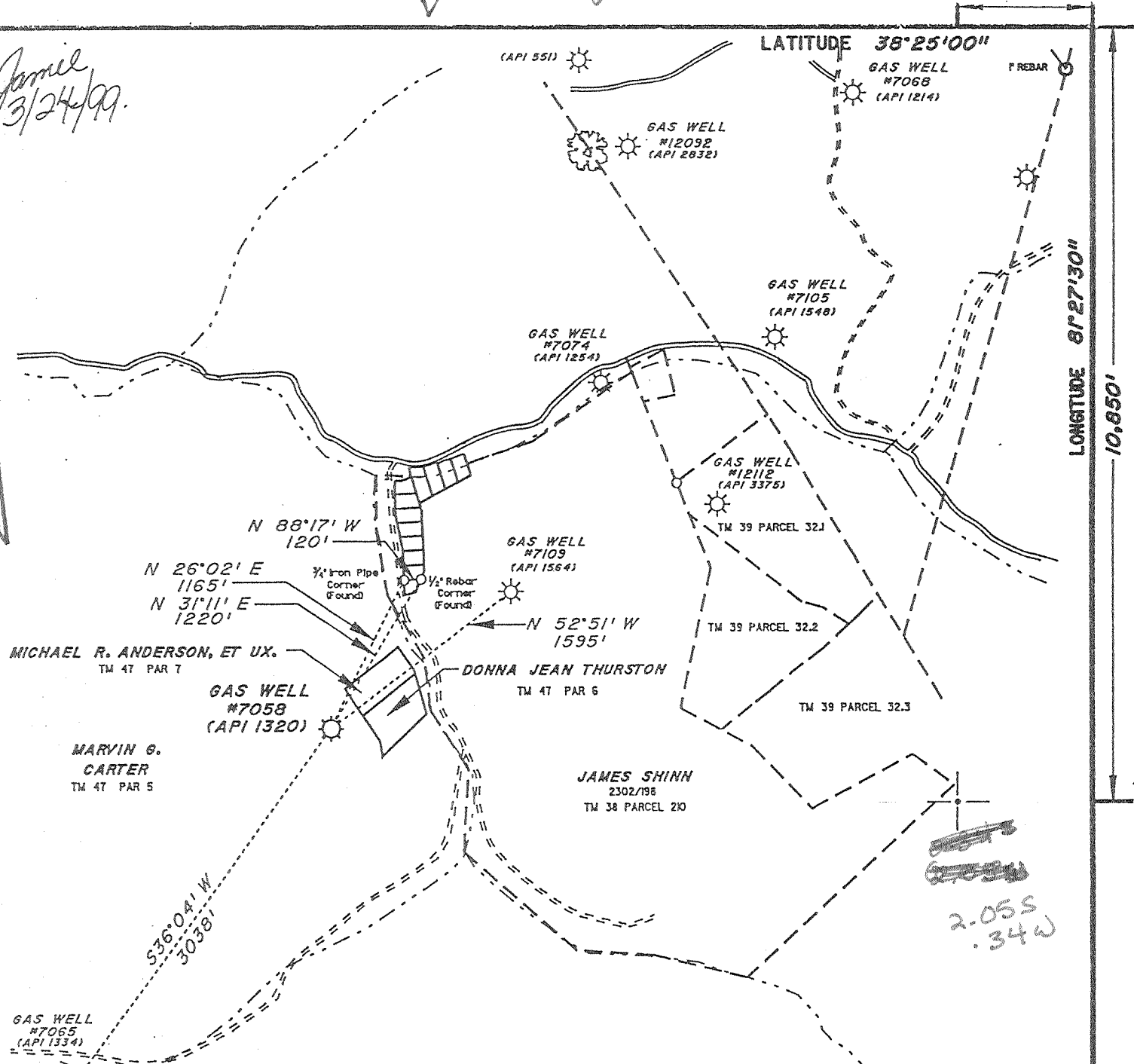


Jamil
3/24/99.

NORTH



LATITUDE 38°25'00"

LONGITUDE 81°27'30"
1058.01

2.055
.34W

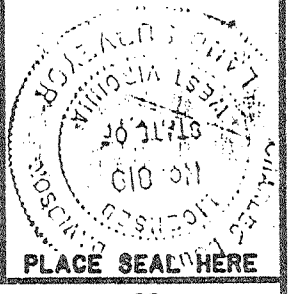
Notes
This Map is For
Well Location Only &
Does Not Represent
A Complete Property Survey.

LOCATION DETERMINED BY
DIFFERENTIAL GPS

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

FILE NO. _____
DRAWING NO. 7058
SCALE 1" = 1000'
MINIMUM DEGREE OF
ACCURACY 1/200'
PROVEN SOURCE OF
ELEVATION STANDARD DISK STAMPED
V-7 ELEV. 614.6' SE WINGWALL OF
CONC. ABUTMENT OF RR BRIDGE
ACROSS MOUTH OF BLUE CREEK

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) Richard L. Coty
R.P.E. _____ L.L.S. 819



STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL
PROTECTION
SECTION OF OIL & GAS

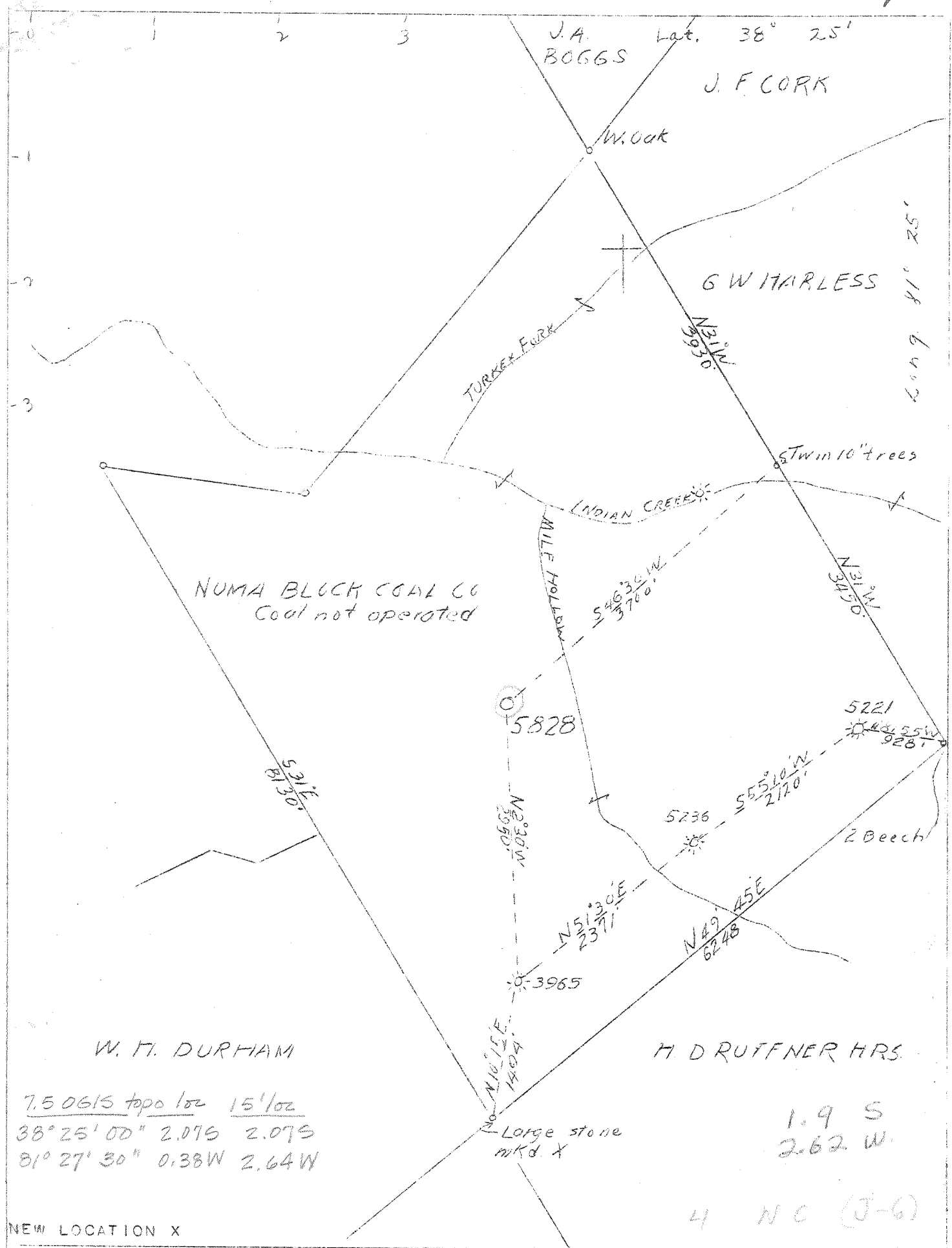


DATE FEBRUARY 18, 19 99
OPERATOR'S WELL NO. 7058
API WELL NO. _____
47 039 01320
STATE COUNTY PERMIT

WELL TYPE: OIL _____ GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
(IF "GAS,") PRODUCTION _____ STORAGE X DEEP _____ SHALLOW _____
LOCATION: ELEVATION 965' WATER SHED Mile Hollow Of Indian Creek
DISTRICT Elk COUNTY Kanawha
QUADRANGLE Blue Creek COORDINATES LAT: 38°23'12" LONG: 81°27'53"
SURFACE OWNER Marvin G. Carter ACREAGE 13.1
OIL & GAS ROYALTY OWNER TCO 112 Int. & CNR 112 Int. LEASE ACREAGE 33.5
COAL OWNER TCO 112 Int. & CNR 112 Int. LEASE NO. 44732

PROPOSED WORK: DRILL _____ CONVERT _____ DRILL DEEPER X REDRILL _____ FRACTURE OR
STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW
FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) Storage Recommendation 1000
Existing Well drilled in 1947 by United Fuel. Columbia Gas. Will drill
existing well deeper for gas
& gas original formation
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION OSISKANY ESTIMATED DEPTH 5200
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT RICHARD L COTY
ADDRESS PO Box 1273, Charleston, WV ADDRESS PO Box 1273, Charleston, WV
25325-1273 25325-1273

KANAWHA
COUNTY NAME
1320 D
PERMIT



7.50615 topo loc 15' loc
 38° 25' 00" 2.07S 2.07S
 81° 27' 30" 0.38W 2.64W

1.9 S
 2.62 W.

4 NC (J-G)

NEW LOCATION X

COMPANY UNITED FUEL GAS CO.
 ADDRESS CHARLESTON, W. VA.
 FARM NUMA BLOCK COAL CO.
 TRACT ACRES 1025 LEASE NO. 44732
 WELL (FARM) NO. 10 SERIAL NO. 5828
 ELEVATION (S.L.) 951'
 QUADRANGLE CLENDENIN - WC
 COUNTY KANAWHA DISTRICT ELK
 ENGINEER G.H. MOORE
 ENGINEER'S REG. NO. 662
 FILE NO. 70-61 DRAWING NO. _____
 DATE 10/16/46 SCALE 1"=1320'

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

WELL LOCATION MAP

FILE NO. RAN 1320

† 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.

Deepwell

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

Permit No. Kan 1320
Clendenin Quad.
Company
Address
Farm
Location
Well No.
District
Surface
Mineral

Gas Well
CASING & TUBING

United Fuel Gas Co.
P. O. Box 1273, Charleston 25, W.Va.
Numa Block Coal Co. A 1025 14 18 18
Indian Creek 10 $\frac{1}{2}$ 1562 1562
5828 Elev. 951 8 $\frac{1}{2}$ 2069 2069
Elk Kanawha County 7 5077 5077

Commenced Jan. 6, 1947
Completed July 3, 1947
Date shot 7-3-47 Depth 5177 to 5219
with 433 1/3# E.L. 409 and 75# Gel.
Rock Pressure 825 lbs. 48 hrs.
Water 935'

Surface	0	18
Sand	18	60
Slate	60	140
Sand	140	160
Slate	160	195
Sand	195	250
Lime	250	260
Sand	260	290
Slate	290	320
Sand	320	330
Slate	330	350
Sand	350	400
Slate	400	590
Lime	590	625
Slate	625	635
Sand	635	645
Slate	645	660
Sand	660	720
Slate	720	735
Sand	735	775
Slate & Shells	775	840
Sand	840	1030
Lime	1030	1175
Sand	1175	1230
Slate	1230	1235
Lime	1235	1245
Sand	1245	1335
Slate	1335	1350
Red Rock	1350	1356
Slate	1356	1375
Lime - L.Lime	1375	1395
Slate - P.Cave	1395	1400
Lime	1400	1565
Slate	1565	1581
Big Lime	1581	1733
Sand	1733	1988
Slate	1988	2050
Lime	2050	2100
Slate & Shells	2100	3375
Brown Shale	3375	3530
White Slate	3530	3710
Shale	3710	4100
Slate	4100	4625
Brown Shale	4625	4970
White Slate	4970	4992
Dark Shale	4992	5064
Corniferous Lime	5064	5177
Oriskany Sand	5177	5220
Lime	5220	5222
Total Depth	5222	

5064	5177	5220
951	951	951
<hr/>		
4113	4226	4269

Probably, Injun. Squaw-Like combined.

Gas 3400-3520 show

Gas 4650 show
Gas 4840 show

Gas 5177 - 5180
Gas 5191-5228

WR 235:14:10
Office of Oil & Gas
Permitting

OCT 18 1999

WV Division of
Environmental Protection
Farm name:

26-Mar-99

API # 47- 39-01320 D

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Well Operator's Report of Well Work

Reviewed _____

CARTER, MARVIN G

Operator Well No.: COCO "A" 7058

LOCATION: Elevation: 965.00 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 10850 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 1875 Feet West of 81 Deg. 27 Min. 30 Sec.

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

Agent: RICHARD L. COTY

Inspector: CARLOS HIVELY
Permit Issued: 03/26/99
Well work Commenced: 08/20/99
Well work Completed: 09/18/99
Verbal Plugging _____
Permission granted on: _____
Rotary _____ Cable X Rig
Total Depth (feet) 5254'
Fresh water depths (ft) _____
Not Reported
Salt water depths (ft) _____
Not Reported
Is coal being mined in area (Y/N)? No
Coal Depths (ft): Not Reported

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
14", 42 LB		10'	
10-3/4", 32 LB		1563'	
8-5/8", 28 LB		2062'	
7", 23 LB		5077'	15 sx
4-1/2", 11.6 LB		5254'	90 sx

OPEN FLOW DATA * Storage well - rates and pressures vary.

Producing formation Oriskany Pay zone depth (ft) 5173' - 5193'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A 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: Paul C. Amick Paul C. Amick/Sr. Storage Engineer

Date: October 11, 1999

OCT 25 1999

KAN 1320 D

Killed well, pulled 2-3/8" tubing, installed new API 7" x 4-1/2" 5M wellhead, drilled 6-1/8" hole to 5253', ran 5254' of 4-1/2", 11.6 LB N-80 casing and cemented with 90 sx Class "A" cement, perf'd Oriskany 5173' - 5193' with 6 SPF, and pumped an N2-Assist Delta-frac Treatment using 500 gals of 28% HCL, 402 bbls of water, 140 MSCF N2, and 27,000 lbs of 20/40 sand.