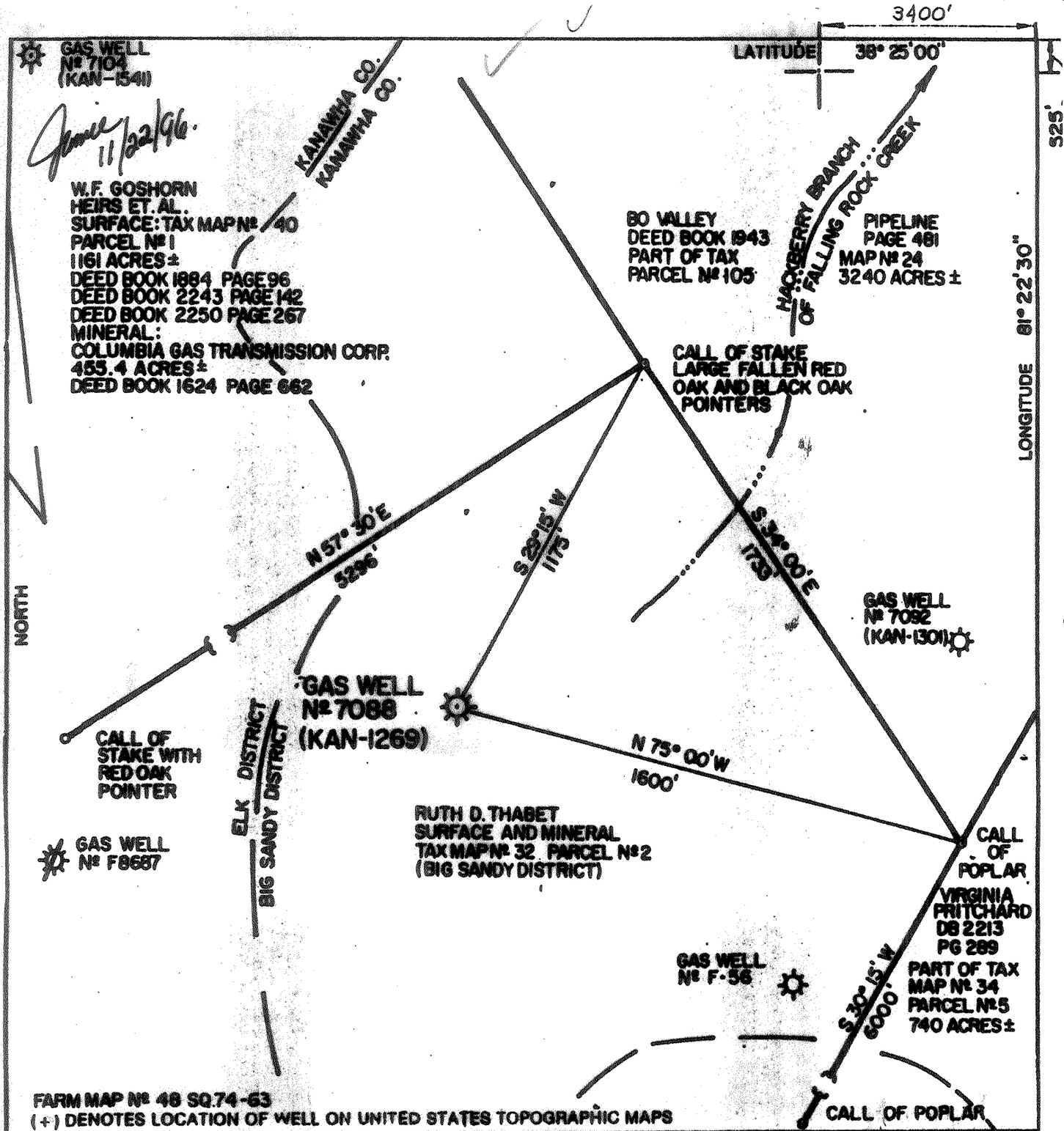


FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION _____

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY

(SIGNED) Edward Nicholson

R.P.E. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
NITRO, WEST VIRGINIA 25143

DATE FEBRUARY 11, 1991
OPERATOR'S WELL NO. 7088
API WELL NO.
47 - 039 - 01269 D
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

Cancelled

LOCATION: ELEVATION 1135 WATER SHED HACKELBERRY BRANCH OF FALLING ROCK CREEK
DISTRICT BIG SANDY COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV CO-ORDINATES: LAT: 38°24'55" LONG: 81°23'13"
SURFACE OWNER RUTH D. THABET ACREAGE _____
OIL & GAS ROYALTY OWNER RUTH D. THABET LEASE ACREAGE 378.5 ACRES ±
LEASE NO. 48140

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

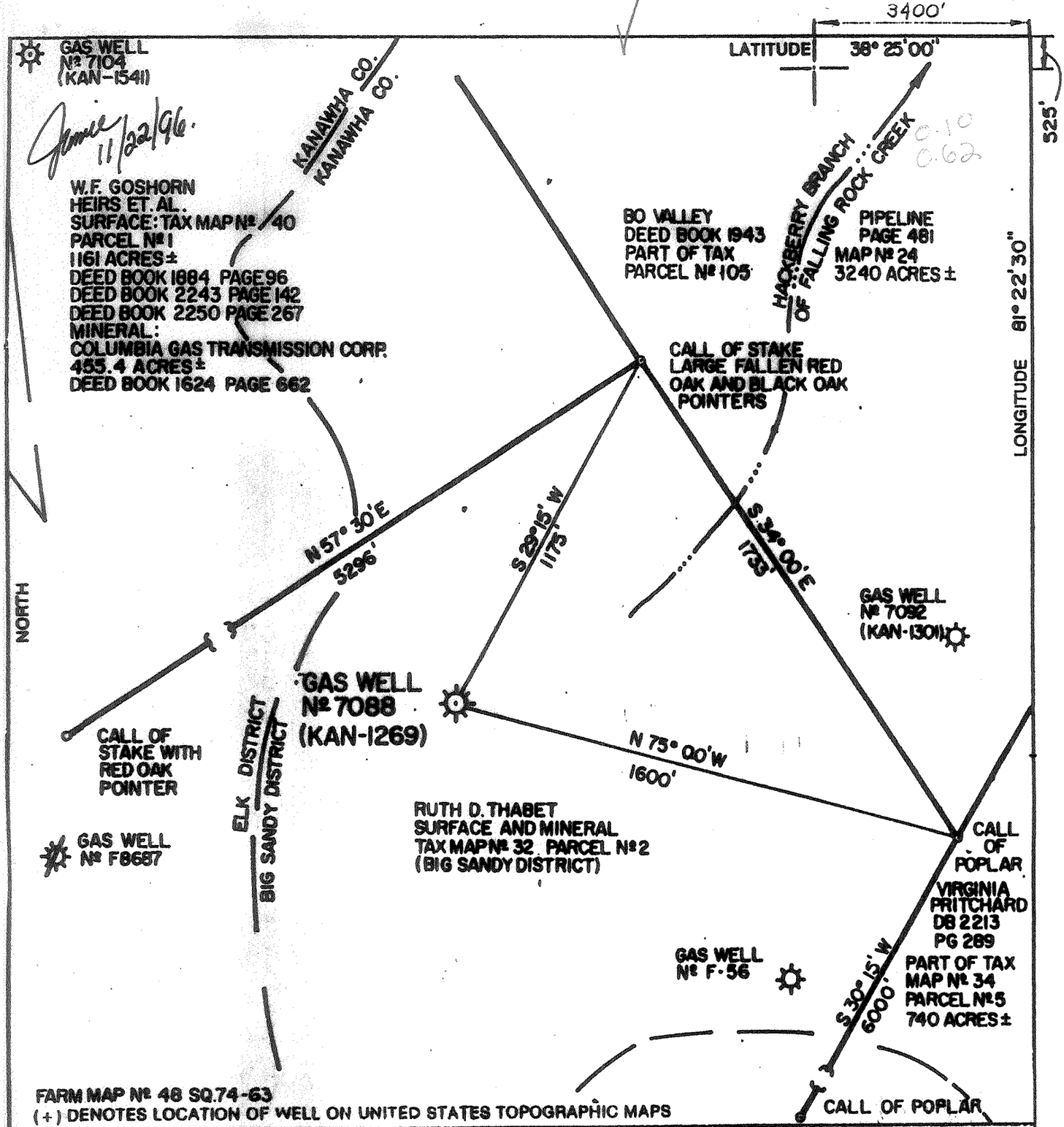
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION Oriskany ESTIMATED DEPTH 5675
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP DESIGNATED AGENT _____
ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325

DEC 19 1996

KANAWHA
COUNTY NAME

1269 D
PERMIT



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION _____

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(SIGNED) Edward Nicholson

R.P.E. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL & GAS
NITRO, WEST VIRGINIA 25143

DATE FEBRUARY 11, 1991
OPERATOR'S WELL NO. 7088
API WELL NO.
47 - 039 - 01269 D
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1135 WATER SHED HACKELBERRY BRANCH OF FALLING ROCK CREEK
DISTRICT BIG SANDY COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV CO-ORDINATES: LAT: 38° 24' 55" LONG: 81° 23' 13"

SURFACE OWNER RUTH D. THABET ACREAGE _____
OIL & GAS ROYALTY OWNER RUTH D. THABET LEASE ACREAGE 378.5 ACRES ±
LEASE NO. 48140

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

Records indicate to DEP: drilled - 10-1-46 converted over 12-15-92 not prod. 8-11-7.97
Storage well

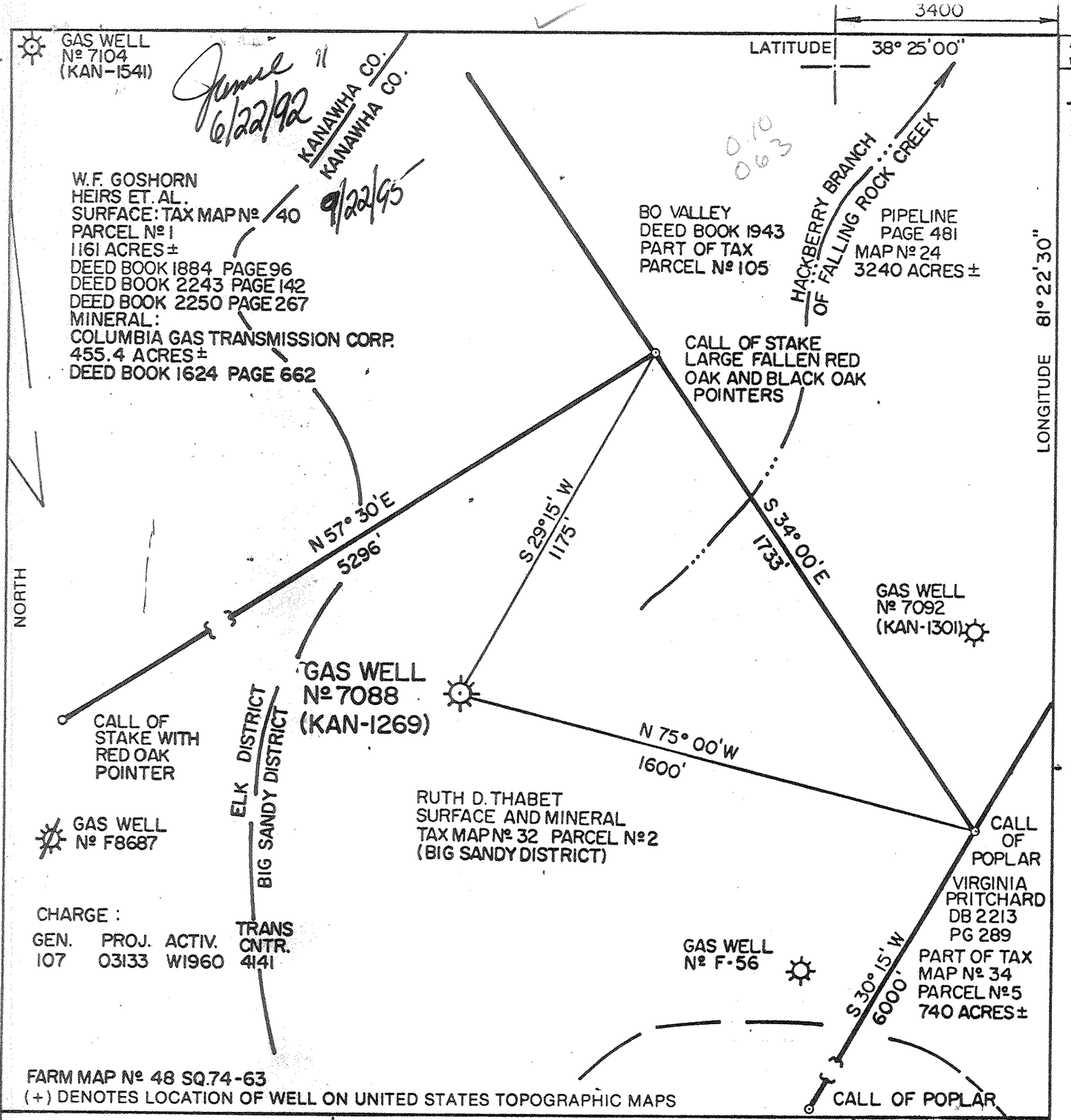
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION Oriskany ESTIMATED DEPTH 5675

WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. DESIGNATED AGENT _____
ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325

DEC 6 1996

KANAWHA COUNTY NAME
1269 PERMIT



FILE NO. _____
DRAWING NO. _____
SCALE 1" = 400'
MINIMUM DEGREE OF ACCURACY 1/200
PROVEN SOURCE OF ELEVATION _____

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(SIGNED) _____

R.P.E. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE FEBRUARY 11, 1991
OPERATOR'S WELL NO. 7088
API WELL NO.
47 - 039 - 1269 W
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

Frac

LOCATION: ELEVATION 1135 WATER SHED HACKELBERRY BRANCH OF FALLING ROCK CREEK
DISTRICT BIG SANDY COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV CO-ORDINATES: LAT: 38° 24' 55" LONG: 81° 23' 13"
SURFACE OWNER RUTH D. THABET ACREAGE _____
OIL & GAS ROYALTY OWNER RUTH D. THABET LEASE ACREAGE 378.5 ACRES ±
LEASE NO. 48140

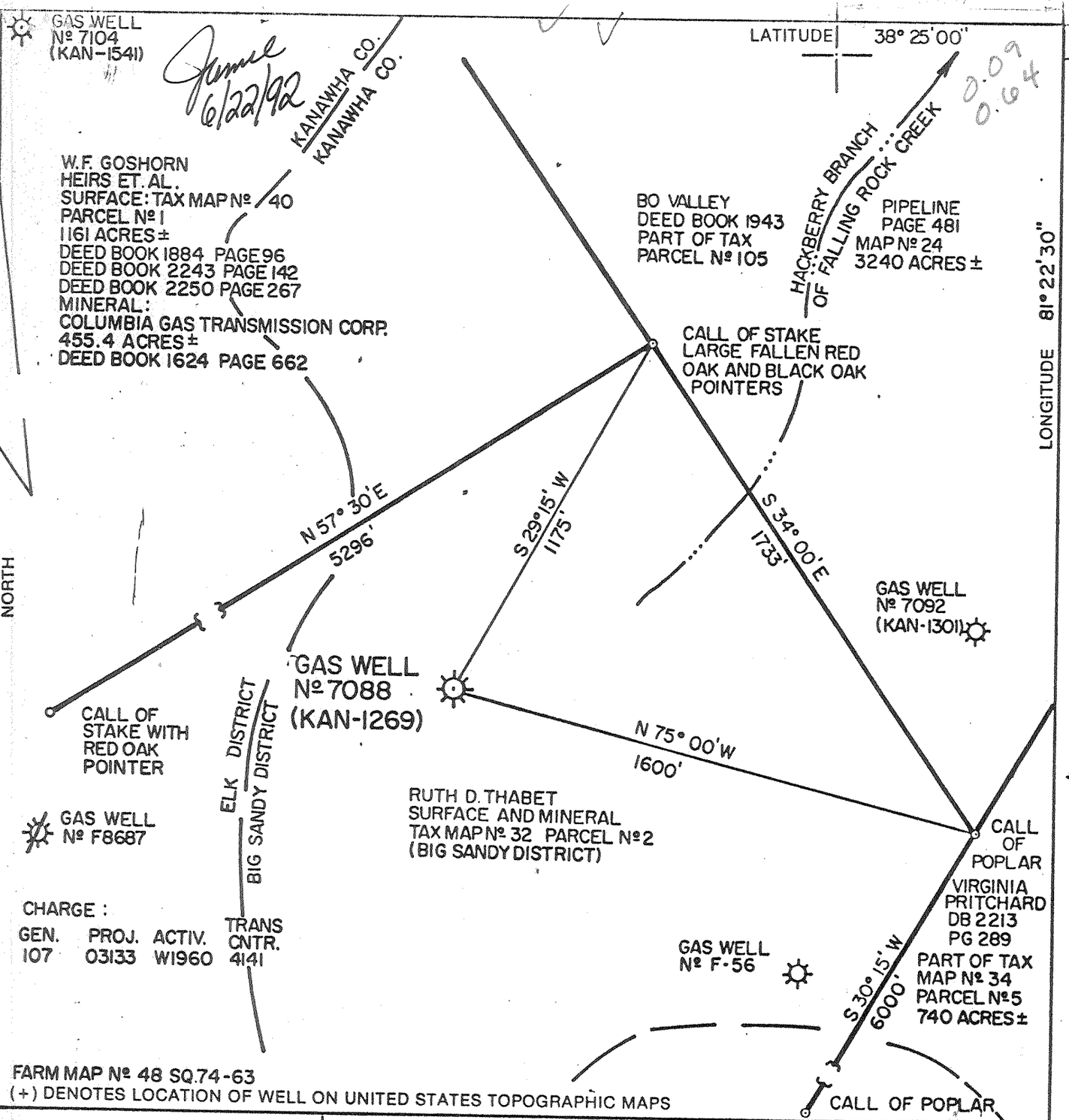
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STORAGE RECONDITION

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION 5350' ESTIMATED DEPTH _____
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. DESIGNATED AGENT ROBERT C. WEIDNER
ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325

KANAWHA
COUNTY NAME

1269 W-F
PERMIT



FARM MAP Nº 48 SQ.74-63

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

FILE NO. _____
DRAWING NO. _____
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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.

(SIGNED) _____

R.P.E. _____ L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE FEBRUARY 11, 1991
OPERATOR'S WELL NO. 7088
API WELL NO.
47 - 039 - 1269 W
STATE COUNTY PERMIT

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION ___ STORAGE X DEEP ___ SHALLOW ___

LOCATION: ELEVATION 1135 WATER SHED HACKELBERRY BRANCH OF FALLING ROCK CREEK
DISTRICT BIG SANDY COUNTY KANAWHA
QUADRANGLE BLUE CREEK, WV CO-ORDINATES: LAT: 38° 24' 55" LONG: 81° 23' 13"

SURFACE OWNER RUTH D. THABET ACREAGE _____
OIL & GAS ROYALTY OWNER RUTH D. THABET LEASE ACREAGE 378.5 ACRES ±
LEASE NO. 48140

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION _____ ESTIMATED DEPTH _____

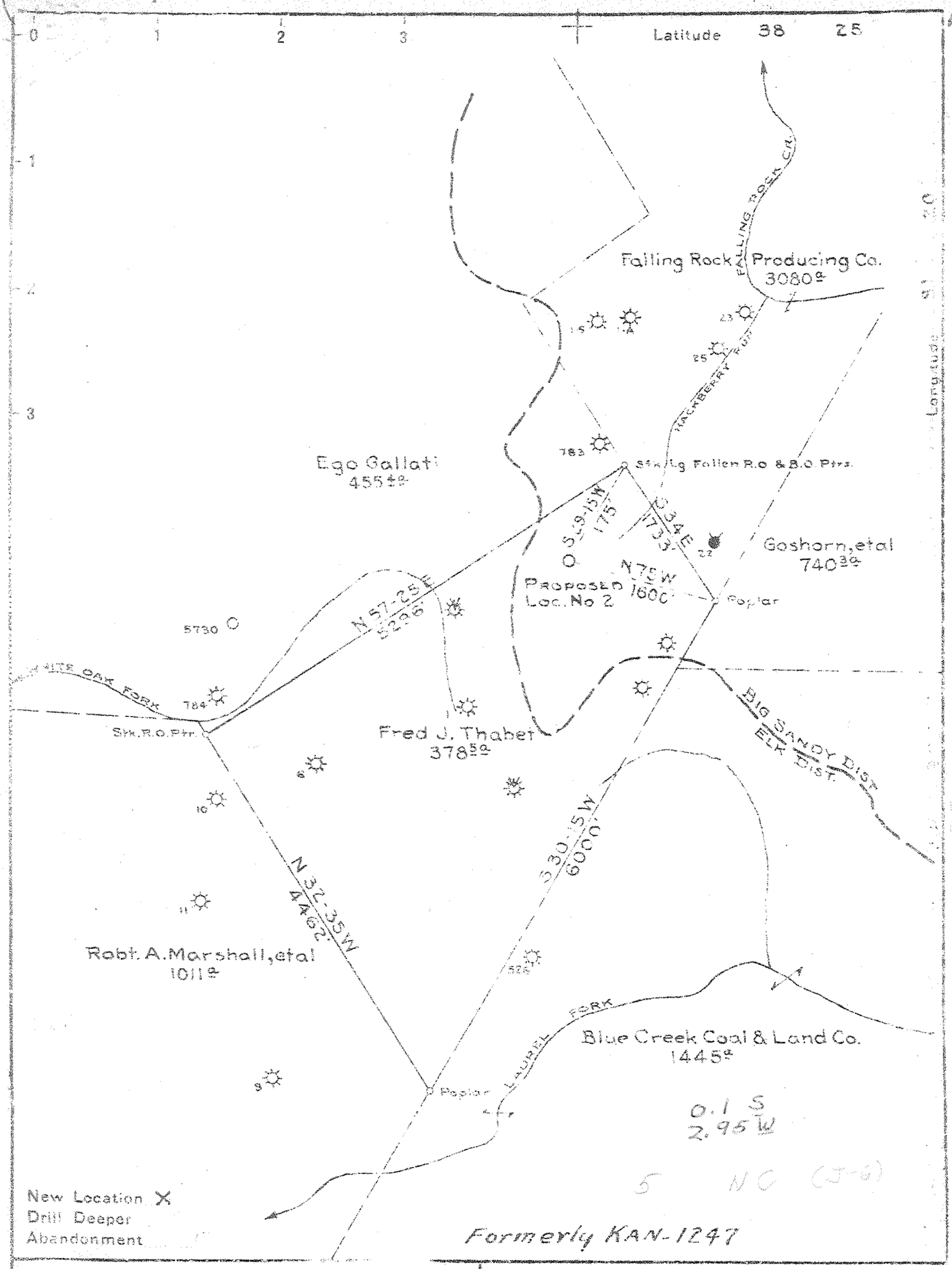
WELL OPERATOR COLUMBIA GAS TRANSMISSION CORP. DESIGNATED AGENT ROBERT C. WEIDNER
ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325 ADDRESS P.O. BOX 1273 CHARLESTON, WV 25325

KANAWHA
COUNTY NAME

1269
PERMIT

JUN 26 1992

(13)



Formerly KAN-1247

Company FALLINGROCK PRODUCING Co.
Address MARIETTA, OHIO
Farm Fred J. Thabet
Tract 1 Acres 378 Lease No 1
Well (Farm) No. 2 Serial No.
Elevation Spirit Level 1135 Gr.
Quadrangle Clendenin — C
County Kanawha District Big Sandy
Engineer Paul E. Joachim
Engineer's Registration No 696
File No. 74-63 Drawing No. 1
Date March 29, 1946 Scale 1" = 1320'

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

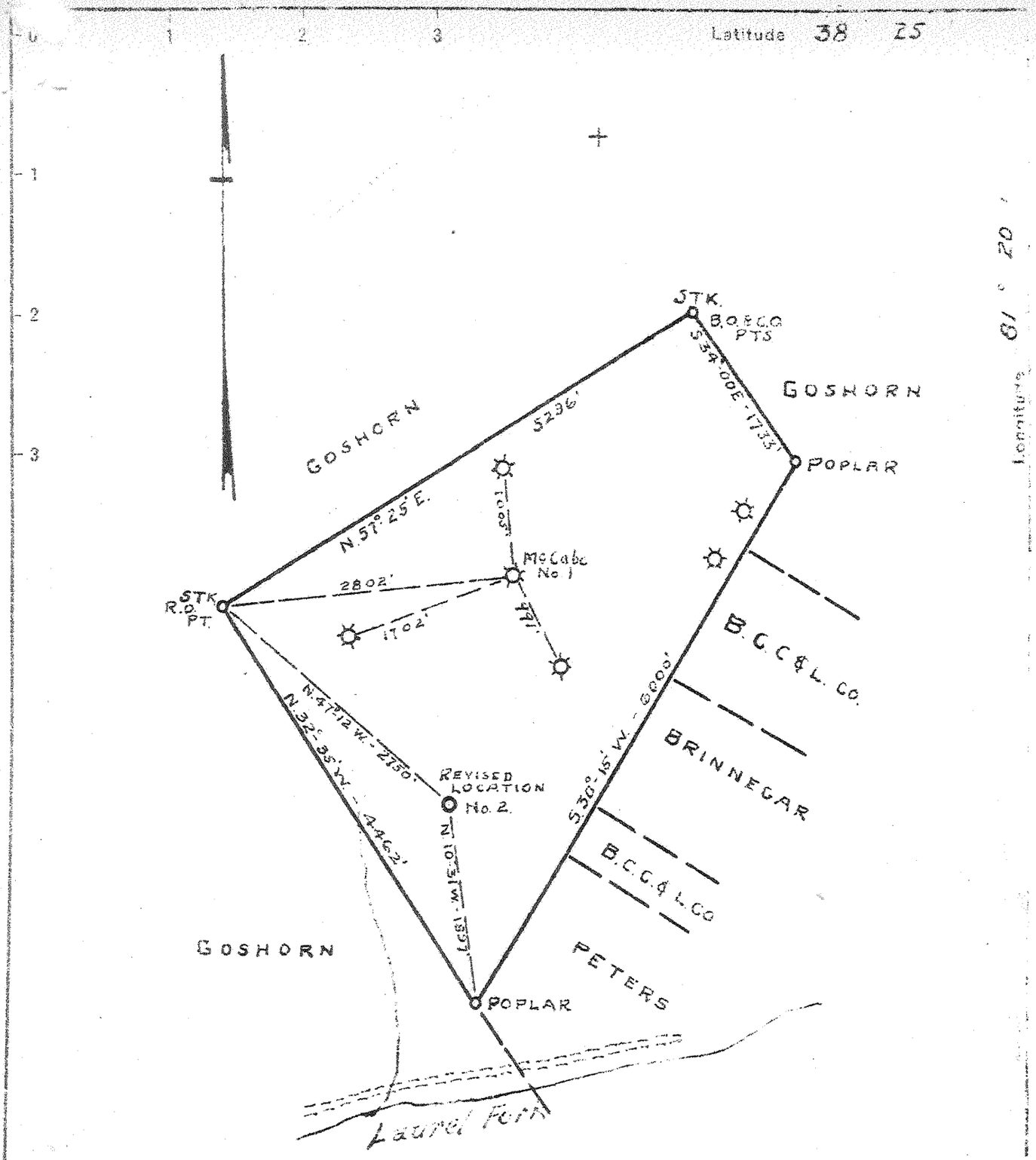
WELL LOCATION MAP

FILE NO. KAN-1269

+ 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



REVISED LOCATION
R.E. McCABE No. 2.
ORIGINAL LOCATION MAP
DATED FEB'Y 10, 1945.

New Location X
Drill Deeper
Abandonment

Company R.E. McCABE
Address Box 346, CHARLESTON, W.VA.
Farm FRED J. THABIT
Tract 1 Acres 37.85 Lease No. 1
Well (Farm) No. 2 Serial No.
Elevation (Spirit Level) 1237
Quadrangle CLEDENEN
County KANAWHA District ELK
Engineer W.A. Sharpe
Engineer's Registration No.
File No. Drawing No.
Date SEPT 25 1945 Scale 1" = 1320

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

WELL LOCATION MAP

FILE NO. K.A.N.-1247 cancelled
(see 1269) in deep well files

+ 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.

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

Permit No. Kan 1269
Clendenin Quad.

Company	Falling Rock Producing Co.
Address	Marietta, Ohio
Farm	Fred J. Thabet Acres 378
Location	
Well No.	2 Elev. 1135
District	Big Sandy Kanawha County
Surface	Fred J. Thabet
Mineral	Same
Commenced	May 28,1946
Completed	Oct. 1,1946
Open flow	45/10ths W in 7"
Volume	3,022,000 C.F.
Fresh Water	1190 H.F.

Gas Well
CASING & TUBING

8½	1722	1722
6 5/8	2325	2325
5 3/16	5420	5420

Sand & Slate		1151	
Salt Sand	1151	1244	
Slate	1244	1280	
Salt Sand	1280	1510	
Slate Bk	1510	1537	
Red Rock	1537	1548	
Slate & Shells	1548	1587	
Red Rock	1587	1610	
Maxon Sand	1610	1640	
Slate	1640	1656	
Little Lime	1656	1682	
Slate	1682	1702	
Blue Monday	1702	1714	
Pencil Cave	1714	1719	
Big Lime	1719	1881	Big Lime Gas at 1753
Injun Sand	1881	1895	
Red Rock	1895	1900	
Lime	1900	1916	
Squaw Sand	1916	1989	
Slate	1989	1990	Show gas 1963
Weir Sand	1990	2135	Weir Gas at 2044 to 2048
Slate & Shells	2135	2322	10/10 W 2" 133 mcf
Berea Sand	2322	2327	
Slate & Shells	2327	3500	
Shale Broken	3500	3540	
Slate & Shells	3540	4250	
Slate White	4250	4870	
Shale Dark	4870	4975	
Shale Brown	4975	5220	
Slate White	5220	5260	
Shale Black	5260	5399	
Corniferous Lime	5399	5530	
Oriskany Sand	5530	5553	Gas 5538 to 5553
TOTAL DEPTH		5553	45/10 W 7" OD

1881
1719
162

1881
1135
746

Charleston Nat'l. Bank	12577	Boo-1269
Consol.		10-27-78
Crook		
Bald Knob C		

FORM WW-2B 039-1269 DD Page___of_____

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

1) Well Operator: COLUMBIA GAS TRANSMISSION CORP. 175 10450 0 258

22918

Operator's Well Number: 7088 3) Elevation: 1135'

Well type: (a) Oil__/ or Gas X/

Issued 12/04/96
Expires 12/04/98

(b) If Gas: Production__/ Underground Storage X/
Deep X/ 975 Shallow__/

Proposed Target Formation(s): ORISKANY

6) Proposed Total Depth: 5675 feet

7) Approximate fresh water strata depths: 150

8) Approximate salt water depths: 380

9) Approximate coal seam depths: 1000

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

11) Proposed Well Work: PULL TUBING, DRILL 100' DEEPER, STIMULATE ORISKANY, RERUN TUBING

12)

RECEIVED
NOV 18 1996
Permitting
Office of Oil & Gas
WV Division of Environmental Protection

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	FOOTAGE INTERVALS For drilling	Left in well	CEMENT Fill-up (cu. ft.)
Conductor	16"	-		23'	23'	
Fresh Water	8 5/8"			1722'	1722'	100 SX
Coal	7"			2325'	2325'	75 SX
Intermediate						
Production	5 1/2"			5420'	5420'	269 SX
Tubing	2 3/8"		4.6	5510'	5510'	38 CSR 18 11.1
Liners		C. H. 10-23-96				

Given from Well Record

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 (Type) |✓| Agent

Page 1 of__
Form WW2 - A
(6/94)
File Copy

RECEIVED
WV Division of
Environmental Protection
NOV 18 1996
Permitting
Office of Oil & Gas

1) Date: 10/29/96
2) Operator's well number
COCO- WELL # 7088
3) API Well No: 47 - 039 - 01269 - D
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 Ruth D. Thabet, Revocable Trust
Address 14260 Cypress Terrace
Tampa, FL 33624
b) Name
Address
c) Name
Address

5) (a) Coal Operator:
Name
Address

(b) Coal Owner (s) with Declaration
Name Ruth D. Thabet, Revocable Trust
Address 14260 Cypress Terrace
Tampa, FL 33624
Name
Address

(c) Coal Lessee with Declaration
Name
Address
~~Consol Gas Co. Kanawha Co. W.Va.~~
Office in Kan City.

6) Inspector Carlos W. Hiviely
Address 223 Pinch Ridge Road
Elkview, WV 25071
Telephone (304) - 965-6069

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.

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
PATRICIA A. TURKETT
P O BOX 1273
CHARLESTON WEST VIRGINIA 25325-1273
My Commission Expires August 12, 1997

Well Operator COLUMBIA GAS TRANSMISSION CORP.
By:
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, 1996

Patricia A. Turkett Notary Public

My commission expires August 12, 1997

FORM WW-2B 039-1269 DD Page___of_____

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

1) Well Operator: COLUMBIA GAS TRANSMISSION CORP. 175 10450 0 258

22918

Operator's Well Number: 7088 3) Elevation: 1135'

Well type: (a) Oil__/ or Gas X/

Issued 12/04/96
Expires 12/04/98

(b) If Gas: Production__/ Underground Storage X/
Deep X/ 975 Shallow__/

Proposed Target Formation(s): ORISKANY

6) Proposed Total Depth: 5675 feet

7) Approximate fresh water strata depths: 150

8) Approximate salt water depths: 380

9) Approximate coal seam depths: 1000

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

11) Proposed Well Work: PULL TUBING, DRILL 100' DEEPER, STIMULATE ORISKANY, RERUN TUBING

12)

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NOV 18 1996
Permitting
Office of Oil & Gas
WV Division of
Environmental Protection

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS Size	Grade	Weight per ft.	FOOTAGE INTERVALS For drilling	Left in well	CEMENT Fill-up (cu. ft.)
Conductor	16"	-		23'	23'	
Fresh Water	8 5/8"			1722'	1722'	100 SX
Coal	7"			2325'	2325'	75 SX
Intermediate						
Production	5 1/2"			5420'	5420'	269 SX
Tubing	2 3/8"		4.6	5510'	5510'	38 CSR 18 11.1
Liners		C. H. 10-23-96				

Given from well record

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 (Type) |__| Agent

WV Division of Environmental Protection

MAR 0 3 1995

Permitting Office of Oil & Gas

23-J..
API # 47- 39-01269-W

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

Well Operator's Report of Well Work

rm name: THABET RUTH D Operator Well No.: 7088

CATION: Elevation: 1135.00 Quadrangle: BLUE CREEK

District: BIG SANDY County: KANAWHA
Latitude: 525 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 3400 Feet West of 81 Deg. 22 Min. 30 Sec.

npany: COLUMBIA GAS TRANSMISSION
1700 MacCORKLE AVENUE S.E.
CHARLESTON, WV 25...-0000

ent: ROBERT C. WEIDNER

pector: CARLOS W. HIVELY
mit Issued: 06/24/92
l work Commenced: 11/11/92
l work Completed: 12/18/92
bal Plugging
mission granted on: -
ary X Cable ____ Rig
al Depth (feet) 5543 (C.O. DEPTH)
sh water depths (ft) 150

t water depths (ft) 380

coal being mined in area (Y/N)? N
l Depths (ft): APP. 1000

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
16"	23	23	-
8-5/8"	1722'	1722'	NO RECORD
7"	2325'	2325'	90FT^3
5-1/2"	5420'	5420'	269 SKS
2-3/8"		5510'	

N FLOW DATA

- Additional Information on back-

Producing formation ORISKANY SANDSTONE Pay zone depth (ft) 5538-53
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 1128 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests - Hours
Static rock Pressure 1147 psig (surface pressure) after ____ Hours

A 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

E: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED ERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, LUDING COAL ENCOUNTERED BY THE WELLBORE. WELL LOG - SEE PREVIOUSLY SUBMITTED INFORMATION

For: COLUMBIA GAS TRANSMISSION CORP.
By: Richard L. Coty
Date: 3/2/95

(OVER)

1) KILLED THE WELL AND PULLED 2-3/8" TUBING.
2) RAN CBL ON 5-1/2" CASING
3) GROUTED BEHIND 8-5/8" CASING W/100 SKS CLASS A CEMENT, 3% CALCIUM CLORIDE.
4) PRESSURE TESTED 5-1/2" CASING TO 2000 PSIG FOR 1 HOUR, TESTED O.K.
5) INSTALLED NEW 8-5/8"X5-1/2" API 3000 FLANGED CASING HEAD.
6) CLEANED OUT HOLE W/4-3/4" BIT TO 5543'
7) RAN NEW 2-3/8" 4.6#/FT 10 R TUBING TO 5510'
8) SWABBED WELL; FLOWED WELL.

DEP Bond
Workover done 12-18-92

039-1269W

FORM WW-2B

Issued 6/24/92
Expires 6/24/94

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

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

2) Operator's Well Number: Well 7088, Coco A Storage 3) Elevation: 1135'

4) Well type: (a) Oil __/ or Gas X /

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

5) Proposed Target Formation(s): Oriskany

6) Proposed Total Depth: 5558' feet

7) Approximate fresh water strata depths: 150' est.

8) Approximate salt water depths: 380' est.

9) Approximate coal seam depths: 1000' est.

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Office of Oil & Gas
Permitting
9 - 92
WV Division of
Environmental Protection

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

11) Proposed Well Work: A) Pull and replace the 2-3/8" tubing - partial replacement of the 5-1/2" casing. B) Perforate and squeeze the 7" and 8-5/8" casing. (C) Install 3000 psi API flanged wellhead assembly.

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	16"			23'	23'	--
Fresh Water	8-5/8"			1722'	1722'	
Coal						
Intermediate	7"			2325'	2325'	approx. 1000' 90 cu. ft.
Production	5-1/2"			5420'	5420'	269 sks - Alpha Cement
Tubing	2-3/8"			5558'	5558'	
Liners						

13814

PACKERS : Kind no packer
Sizes
Depths set

173585
23

For Divison of Oil and Gas Use Only

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

Page 1 of 1
Form WW2-A
(09/87)
File Copy

1) Date: April 1, 1992
2) Operator's well number
Well 7088, Coco A Storage Field
3) API Well No: 47 - 039 - 01269 -REWORK
State - County - Permit

RECEIVED
Office of Oil & Gas
Permitting
Environ.

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 Ruth D. Thabet
Address 4823 Grove Point Drive
Tampa, FL 33624
(b) Name
Address
(c) Name
Address

5) (a) Coal Operator:
Name none
Address
(b) Coal Owner(s) with Declaration
Name none
Address
Name
Address
(c) Coal Lessee with Declaration
Name none
Address

6) Inspector Carlos Hively
Address 223 Pinch Ridge Road
Elkview, WV 25071
Telephone (304)- 965-6069

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 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)
X 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 COLUMBIA GAS TRANSMISSION CORP.
By: [signature]
Its: Director, Drilling & Maintenance
Address P. O. Box 1273
Charleston, WV 25325-1273
Telephone (304) 357-2459

OFFICIAL SEAL
NOTARY PUBLIC
STATE OF WEST VIRGINIA
MARY PARSONS
2052 Lincoln Avenue
St. Albans, West Virginia 25177
My Commission Expires Oct. 10, 1994

Subscribed and sworn before me this 27th day of May, 1992

Mary Parsons Notary Public

My commission expires October 10, 1994.

This work does never Completed

039-1269-F Issued 09/18/95
Expires 09/18/97

RECEIVED
Office of Oil & Gas
Environmental Protection
AUG 30 1995
Permitting

FORM

21151

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
WELL WORK PERMIT APPLICATION

175

1) Well Operator: COLUMBIA GAS TRANSMISSION CORPORATION (10450) ① 258

2) Operator's Well Number: 7088 Coco A Storage 3) Elevation: 1135'

4) Well type: (a) Oil __/ or Gas X/

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

475

5) Proposed Target Formation(s): Oriskany

6) Proposed Total Depth: 5558 feet

7) Approximate fresh water strata depths: 150' est.

8) Approximate salt water depths: 380' est.

9) Approximate coal seam depths: 1,000' est.

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

11) Proposed Well Work: Stimulate the existing Storage Formation (Oriskany) by Hydraulic Fracturing.

12)

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor						
Fresh Water						
Coal						
Intermediate						
Production						
Tubing						
Liners						

ALL INFORMATION THE SAME AS SUBMITTED IN 1992 EXCEPT FOR ITEM NO. 11.

Please Divert Existing Casing Transferred from Well Records.

1229.84 ft
2325.65 ft
5420.59 ft

PACKERS : Kind
Sizes
Depths set

For Divison of Oil and Gas Use Only

7290 Fee(s) paid: [X] Well Work Permit [ ] Reclamation Fund [ ] WPCP
37 Plat [X] WW-9 [ ] WW-2B [ ] Bond [ ] (Type) [ ] Agent

18

Page 1 of 1
Form WW2-A
(09/87)
File Copy

RECEIVED
WV Division of
Environmental Protection
AUG 30 1995
Permitting
Office of Oil & Gas

1) Date: AUGUST 11 1995
2) Operator's well number
Well 7088, Coco A Storage Field
3) API Well No: 47 - 039 - 01269 - F
State - County - Permit

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 Ruth D. Thabet
Address ~~4823 Grove Point Drive~~
Tampa, FL 33624
(b) Name 14206 Cypress Terrace
Address
(c) Name
Address

5) (a) Coal Operator:
Name
Address
(b) Coal Owner(s) with Declaration
Name
Address
Name
Address
(c) Coal Lessee with Declaration
Name
Address

6) Inspector Carlos Hively
Address 223 Pinch Ridge Road
Elkview, WV 25071
Telephone (304)- 965-6069

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

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X Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

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I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

OFFICIAL SEAL
NOTARY PUBLIC, STATE OF WEST VIRGINIA
BRENDA GHOSH
P. O. BOX 1273
CHARLESTON, WV 25325
MY COMMISSION EXPIRES 05-16-2000

Well Operator COLUMBIA GAS TRANSMISSION CORPORATION
By: Richard L. Coty 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 11th day of August, 1995

Brenda Ghosh Notary Public
My commission expires May 16, 2000

WR-35 RECEIVED WV Division of Environmental Protection JAN 2 1 1998 Permitting Office of Oil & Gas

03-Dec-96
API # 47- 39-01269-D

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

Well Operator's Report of Well Work

Farm name: THABET, RUTH D TRUST Operator Well No.: COCO 7088

LOCATION: Elevation: 1,135.00 Quadrangle: BLUE CREEK

District: BIG SANDY County: KANAWHA
Latitude: 525 Feet South of 38 Deg. 25Min. 0 Sec.
Longitude 3400 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: 12/04/96
Well work Commenced: 10/13/97
Well work Completed: 11/07/97
Verbal Plugging
Permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 5621'
Fresh water depths (ft) _____
Not Reported
Salt water depths (ft) 1190'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): Not Reported

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Size 16"		23'	
8 5/8"		1722'	100SX
7"		2325'	
5 1/2"		5420'	269SX
3 1/2",	9.3 lb., J-55	5590'	50SX

OPEN FLOW DATA

Producing formation ORISKANY STORAGE Pay zone depth (ft) 5520'-5536'
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 2 3 1998

Pulled 5515' of 2 3/8 " tubing, Drilled new 4 3/4" hole 5569'-5621', ran 5590' of 3 1/2", 9.3 lbs, J-55 tubing and cemented with 50SX Class A cement. Perf'd ORISKANY 5520'-5536' with 6 SPF. Stimulated ORISKANY with N^2, Assist-Deltafrac using 360 bbls water, 73 MSCF N^2, and 13,000 lbs. 20/40 sand.