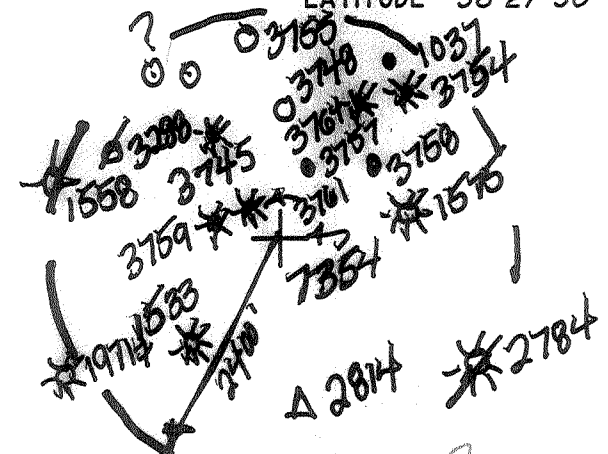


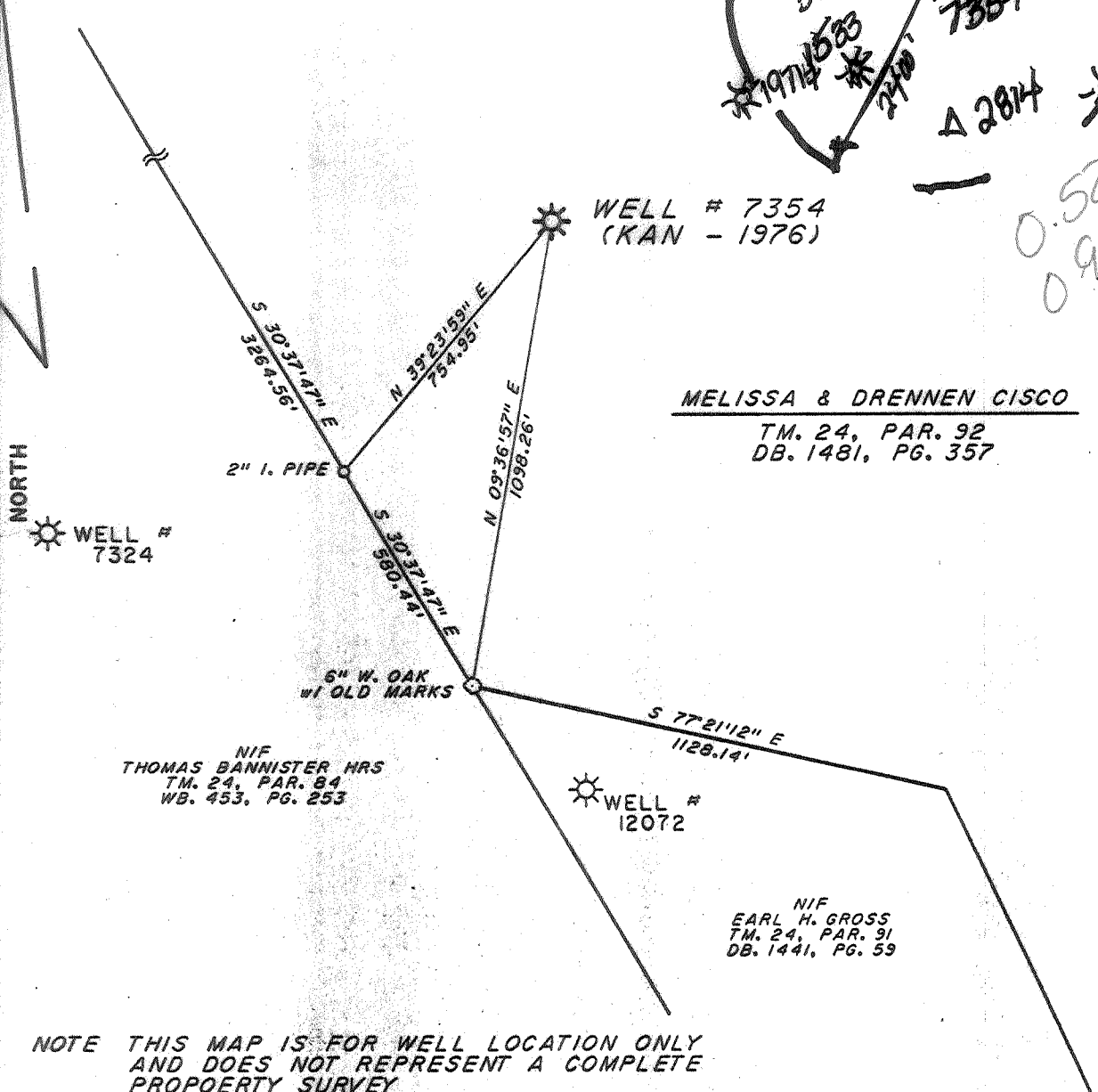
Jamie
4/24/96

LATITUDE 38°27'30"

LONGITUDE 81°25'00"



0.52
0.92



MELISSA & DRENNEN CISCO

TM. 24, PAR. 92
DB. 1481, PG. 357

NIF
THOMAS BANNISTER HRS
TM. 24, PAR. 84
WB. 453, PG. 253

NIF
EARL H. GROSS
TM. 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. 7354
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. 9936 L.L.S. 798



STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE JANUARY 22, 19 96
OPERATOR'S WELL NO. 7354
API WELL NO. _____

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

LOCATION: ELEVATION 1034.85' WATER SHED BLUE CREEK
DISTRICT ELK COUNTY KANAWHA
QUADRANGLE BLUE CREEK COORDINATES AT: 38°27'01" LONG: 81°26'00"

SURFACE OWNER MELISSA & DRENNEN CISCO ACREAGE _____
OIL & GAS ROYALTY OWNER JAMES F. BROWN LEASE ACREAGE 7098.5
COAL OWNER _____ LEASE NO. 2274

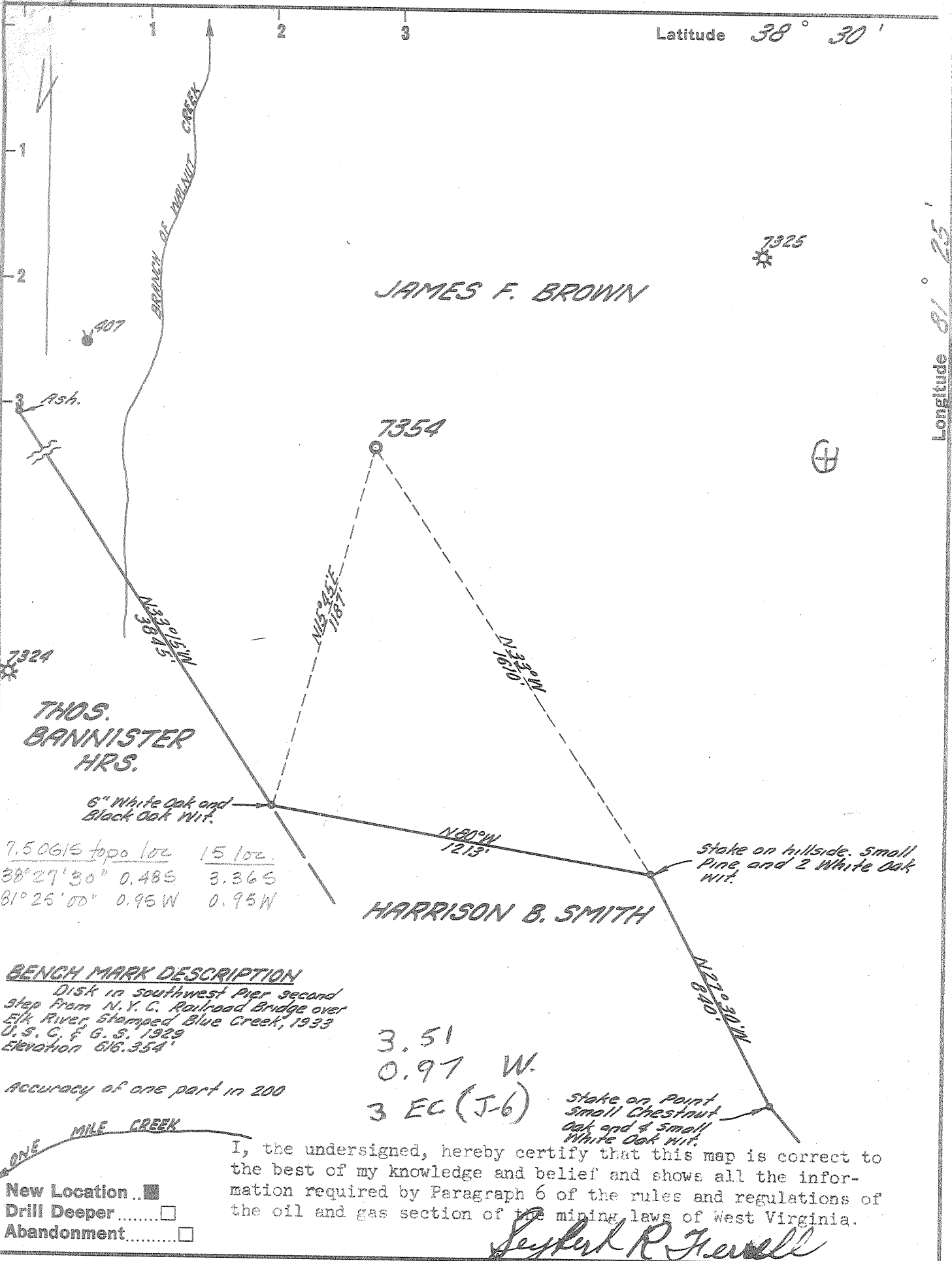
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) STORAGE RECONDITION

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION Jurassic ESTIMATED DEPTH 5550' Exp. Stop MAY 03 1995

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

KANAWHA COUNTY NAME
01926 PERMIT

NSP WELL. BLUE CR - 1 - D



Latitude 38° 30'

Longitude 81° 25'

JAMES F. BROWN

THOS. BANNISTER HRS.

HARRISON B. SMITH

7.50616 topo loc 15 loc.
 38° 27' 30" 0.485 3.365
 81° 25' 00" 0.95 W 0.95 W

BENCH MARK DESCRIPTION
 Disk in southwest pier second
 step from N. Y. C. Railroad bridge over
 Elk River Stamped Blue Creek, 1933
 U. S. G. & G. S. 1929
 Elevation 616.354'

Accuracy of one part in 200

3.51
 0.97 W.
 3 EC (J-6)

Stake on point
 Small Chestnut
 Oak and 4 small
 White Oak wit.

I, the undersigned, hereby certify that this map is correct to the best of my knowledge and belief and shows all the information required by Paragraph 6 of the rules and regulations of the oil and gas section of the mining laws of West Virginia.

Seybert R Jewell

New Location
 Drill Deeper
 Abandonment

Company	UNITED FUEL GAS CO.
Address	CHARLESTON, W. VA.
Farm	JAMES F. BROWN
Tract	Acres 400 Lease No. 2274
Well (Farm) No.	Serial No. 7354
Elevation (Spirit Level)	1034.85'
Quadrangle	CLENDENIN - NW
County	KANAWHA District ELK
Engineer	Seybert R Jewell
Engineer's Registration No.	2529
File No.	72-65 Drawing No.
Date	7-17-63 Scale 1" = 400'

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

WELL LOCATION MAP
 FILE NO. KAN-1976

+ 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.

Samples ?? 9-0 215 Deep Well



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

Quadrangle Clendenin

WELL RECORD

Permit No. KAN-1976

Oil or Gas Well Storage Well
(KIND)

Company United Fuel Gas Co.
Address P.O. Box 1273 Charleston 25, W. Va.
Farm James F. Brown Acres 7,098.5
Location (waters) Walnut Creek
Well No. X-52-C-7354 Elev. 1034.85'
District Elk County Kanawha
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by James F. Brown, Trustee, et
Box 88 Address Charleston, W. Va.
Drilling commenced 9-20-63
Drilling completed 10-2-63
Date Shot _____ From _____ To _____
With _____
Open Flow _____ /10ths Water in _____ Inch
_____ /10ths Merc. in _____ Inch
Volume _____ Cu. Ft.
Rock Pressure _____ lbs. _____ hrs.
Oil _____ bbls., 1st 24 hrs.
WELL ACIDIZED _____
WELL FRACTURED _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
13			
10	<u>11-3/4</u>	<u>60'</u>	Size of
8 1/2	<u>8-5/8</u>	<u>2277</u>	Depth set
6 1/2	<u>5-1/2</u>	<u>5592</u>	
5 3/16	<u>2-3/8</u>	<u>5464</u>	
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. Ft. _____ Date _____

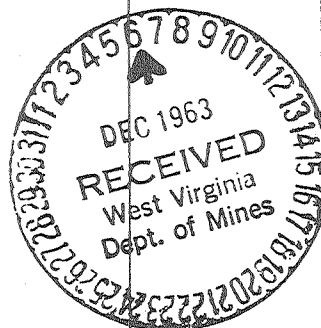
COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES
_____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT _____

ROCK PRESSURE AFTER TREATMENT _____

Fresh Water 1225' Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Surface Sand			0	65			
Sand			65	120			
Slate			120	140			
Sandy Shale			140	210			
Sand & Shale			210	605			
Shale			605	660			
Sand			66-	810			
Sand & Shale			810	870			
Sand			870	900			
Shale & Sand			900	1175			
Salt Sand			1175	1580			Small Amount of Water 1225' Foam Drilling at 1235'
Sand & Shale			1580	1735			
Lime			1735	1830			Set 8-5/8" Cag. at 2300'
Big Lime			1830	1940			
Sand - <i>in</i>			1940	1980			
Sand & Shly. Sand - <i>sq uaw</i>			1980	2025			
Sand - Shells - <i>weir</i>			2025	2215			
Slate & Shale			2215	2260			
Sandy Shale & Sand (<i>con</i>)			2260	2300			
Shale & Shells			2300	4045			
Shale			4045	5335			
Corniferous Lime			5335	5460			
Sand - <i>o</i>			5460	5550			
			<u>5335</u>	<u>5460</u>			
			<u>1035</u>	<u>1035</u>			
			<u>4300</u>	<u>4425</u>			



RECEIVED
WV Division of
Environmental Protection

039-1976-F

Issued 04/29/96
Expires 04/29/98

APR 12 1996

Page ____ of ____

FORM WW-2B

Permitting
Office of Oil & Gas

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

21830

Well Operator: COLUMBIA GAS TRANSMISSION CORP. 10450 (4) 258

Operator's Well Number: 735A 3) Elevation: 1035'

Well type: (a) Oil / or Gas /

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

Proposed Target Formation(s): ORISKANY⁴²⁵

Proposed Total Depth: 5550 feet

Approximate fresh water strata depths: 200' (EST)

Approximate salt water depths: 1225'

Approximate coal seam depths: NO INFORMATION

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

Proposed Well Work: PULL TUBING; REPERFORATE ORISKANY; STIMULATE ORISKANY; RUN TUBING

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	Fill-up (cu. ft.)
Conductor	11 3/4"	J-55	47		60'	25 SX
Fresh Water	8 5/8"	J-55	24		2278'	TO SURF
Coal				<i>Expanding from wellbore.</i>		38
Intermediate						
Production	5 1/2"	N-80	17		5548'	600 SX
Tubing	2 3/8"	J-55	4.6		5434'	<i>[Signature]</i>
Liners						

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 Agent
(Type)

28

RECEIVED
WV Division of
Environmental Protection

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

APR 12 1996

1) Date: 2-29-96
2) Operator's well number 7354
3) API Well No: 47 - 039 - 1976-F
State County Permit

Permitting
Office of Oil & Gas

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 MELISSA DRENNAN CISCO
Address 4521 PENNSYLVANIA AVE.
CHARLESTON WV 25321
 - (b) Name JAMES M. DRENNAN
Address P.O. Box 944
CLENDENIN, WV 25045
 - (c) Name _____
Address SEE ATTACHED LIST
- 5) (a) Coal Operator:
- Name _____
Address _____
 - (b) Coal Owner(s) with Declaration:
 - Name JAMES F. BROWN III, TRUSTEE
 - Address P.O. Box 88
CHARLESTON, WV 25321
 - Name THE CHARLESTON NATL BANK TRUSTEE
 - Address ETTIE D. GOSWORN ESTATE
P.O. Box 1113 CHARLESTON WV 25321 - (c) Coal Lessee with Declaration:
 - Name _____
 - Address _____
- 6) Inspector CARLOS W. MIVELY
Address 223 PINCH RIDGE ROAD
FELKVIEW, 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
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: PAUL C. AMICK
Its: STORAGE ENGINEER
Address P.O. Box 1808
ST. ALBANS WV 25177
Telephone (304) 722-8612

OFFICIAL SEAL
NOTARY PUBLIC STATE OF WEST VIRGINIA
JOYCE A. CAUDLE
2700 W. CHANCE AVENUE S.E.
CHARLESTON, WV 25305-1345
MY COMMISSION EXPIRES 04-01-1996

Subscribed and sworn before me this 3rd day of April, 1996
Joyce A. Caudle Notary Public
My commission expires April 16, 1996

RECEIVED
 WV Division of
 Environmental Protection

APR 12 1996

Permitting
 Office of Oil & Gas

039-1976

Date: December 1, 1995

TO: R.L. Coty

FROM: Tom Newhouse

SUBJECT: OWNERSHIP OF COAL, OIL, GAS AND SURFACE UNDER LEASE NO. 2274
 FOR RECONDITIONING OF COLUMBIA STORAGE WELL NO. 7354

As to your request and the examination of the Kanawha Court House Records,
 the following are the owners of the stated lease above:

SURFACE

Melissa Drennen Cisco
 4521 Pennsylvania Ave.
 Charleston, W.Va.

Clyde W.H. Drennen
 Address Unavailable

James M. Drennen
 P.O. Box 944
 Clendenin, W.Va. 25045

Mary K. Boggs
 Address Unavailable

COAL, OIL AND GAS

James F. Brown - 1/2 interest, W.F. Goshorn - 1/4 interest, J.H. Goshorn -
 1/4 interest

%James F. Brown, III, Trustee
 P.O. Box 88
 Charleston, W.Va. 25321

The Charleston National Bank, Trustee
 Ettie D. Goshorn, Estate
 P.O. Box 1113
 Charleston, W.Va. 25321


 Tom Newhouse

DEC 13 1996
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: CISCO, MELISSA DRENNAN Operator Well No.: 7354

LOCATION: Elevation: 1,034.85 Quadrangle: BLUE CREEK

District: ELK County: KANAWHA
Latitude: 2700 Feet South of 38 Deg. 27Min. 30 Sec.
Longitude 4850 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: 04/29/96
Well work Commenced: 5-21-96
Well work Completed: 7-12-96
Verbal Plugging
Permission granted on:
Rotary Cable Rig
Total Depth (feet) 5550
Fresh water depths (ft) 200'

Salt water depths (ft) 1225'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): N/A

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
1 3/4	60'	60'	25 sk
8 5/8	2278'	2278'	circ. to surf.
5 1/2	5548'	5548'	660 sk
2 3/8	5344'	5344'	

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 5468'
 Gas: Initial open flow N/A MCF/d Oil: Initial open flow 5488' Bbl/d
 Final open flow N/A MCF/d Final open flow _____ Bbl/d
 Time of open flow between initial and final tests _____ Hours
 Static rock Pressure 1600 psig (surface pressure) after _____ Hours
N/A - storage well
 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: 12-12-96

Well # 7354

47-039-1976

All Fluid Taken to

MAX ENVIRONMENTAL

1815 Washington Road

PITTSBURG, PA. 15241

PA Facility ID# P3-0004

Physical Change

- 5-21-96 Pulled 173 jts 2³/₈" Tbg.
- 5-24-96 Fished out 4³/₄" Bit and sub
- 5-28-96 Cleaned hole to 5496'
- 5-31-96 Perforated Oriskany sand from 5468' to 5488' w/ 160 shots
- 6-12-96 Fractured Oriskany sand w/ 192 666 H₂O,
590 msec N₂, 41,000 # 20/40 sand. Avg treating
pressure 3899 psig. ISIP 4971 psig 15 min sip 4758 psig.
- 7-12-96 Ran 170 jts 2³/₈" Tubing 5344'.

WR-35
Rev (5-01)

DATE: 10/25/10
API #: 47-039-01976

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of Well Work

Farm name: Cisco, Mellisa Drennan Operator Well No.: 7354

LOCATION: Elevation: 1035 ft Quadrangle: Blue Creek
District: Blk County: Kanawha
Latitude: 2,840 Feet South of 38 Deg. 27 Min. 30 Sec.
Longitude 4,850 Feet West of 81 Deg. 25 Min. 00 Sec.

Company: Columbia Gas Transmission, LLC

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>1700 MacCorkle Ave SE</u> <u>Charleston, WV 25325-1273</u>				
Agent: <u>Paul Amick</u> Inspector: <u>Terry Urbin</u>	This is an existing storage well. Tubing was pulled and re-ran back in well. Below is a record of current tubulars in well.			
Date Permit Issued: <u>7/6/10</u>				
Date Well Work Commenced: <u>9/21/2010</u>	<u>11-3/4</u>	<u>60</u>	<u>0 - 60</u>	<u>25 sx</u>
Date Well Work Completed: <u>10/20/2010</u>	<u>8-5/8 24#</u>	<u>2277</u>	<u>0 - 2277</u>	<u>370 sx</u>
Verbal Plugging:	<u>5-1/2 17#</u>	<u>5548</u>	<u>0 - 5548</u>	<u>415 sx</u>
Date Permission granted on:	<u>2-3/8 4.6#</u>		<u>0 - 5403</u>	
Rotary X Cable Rig				
Total Depth (feet): <u>5553 (pre-work TD)</u>				
Fresh Water Depth (ft.): <u>not applicable - rework</u>				
Salt Water Depth (ft.): <u>not applicable - rework</u>				
Is coal being mined in area (N/Y)? <u>N</u>				
Coal Depths (ft.): <u>none reported</u> ft				

RECEIVED
Office of Oil & Gas
OCT 25 2010

WV Department of Environmental Protection

OPEN FLOW DATA

Producing formation Oriskany Sand Pay zone depth (ft) 5468 - 5488
Gas: Initial open flow not applicable MCF/d Oil: Initial open flow none Bbl/d
Final open flow * 32,000 MCF/d Final open flow none Bbl/d
Time of open flow between initial and final tests not applicable Hours
Static rock pressure 1700 psig (surface pressure) after 24 Hours
* AOF calculated @ max rock pressure of 1800 psig

Second Producing formation N/A 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.

Signed: _____

By: James E. Amos - Senior Storage Engineer - Columbia Gas Transmission, LLC
Date: 10/25/10

Coco C storage well 7354

This is an existing storage well. Below is a summary of work performed.

Killed well. Fished pressure test bomb. Pulled tubing. Installed new wellhead. Re-ran tubing. Fracture stimulated.

Frac Data: 20% N₂ assist gel
 500 gals 20% HCl acid
 560 bbls gel
 195 MSCF N₂
 31,100 lbs sand
 Avg BH rate: 16 bpm
 ATP: 4000 psig
 ISIP: 3800 psig

* Note that no earthen pit was utilized. All fluids recovered via steel tanks and transported off site to waste water treatment facilities.