

BENCH MARK DESCRIPTION

U. S. G. S. Standard Disc In Conc.
Post On S. W. Side Of Aurora Pike In
N. E. Cor. Of Cemetery. E. Elev. 2647'

Fracture
Before 6/5/29
New Location
Drill Deeper 9/1/78
Redrill
Abandonment

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 5 of the Rules and Regulations of the Oil and Gas Section of the Mining Laws of West Virginia.
The accuracy of this survey is within the limits and as prescribed in Paragraph 5 by the Oil and Gas Division of the Department of Mines Regulations.

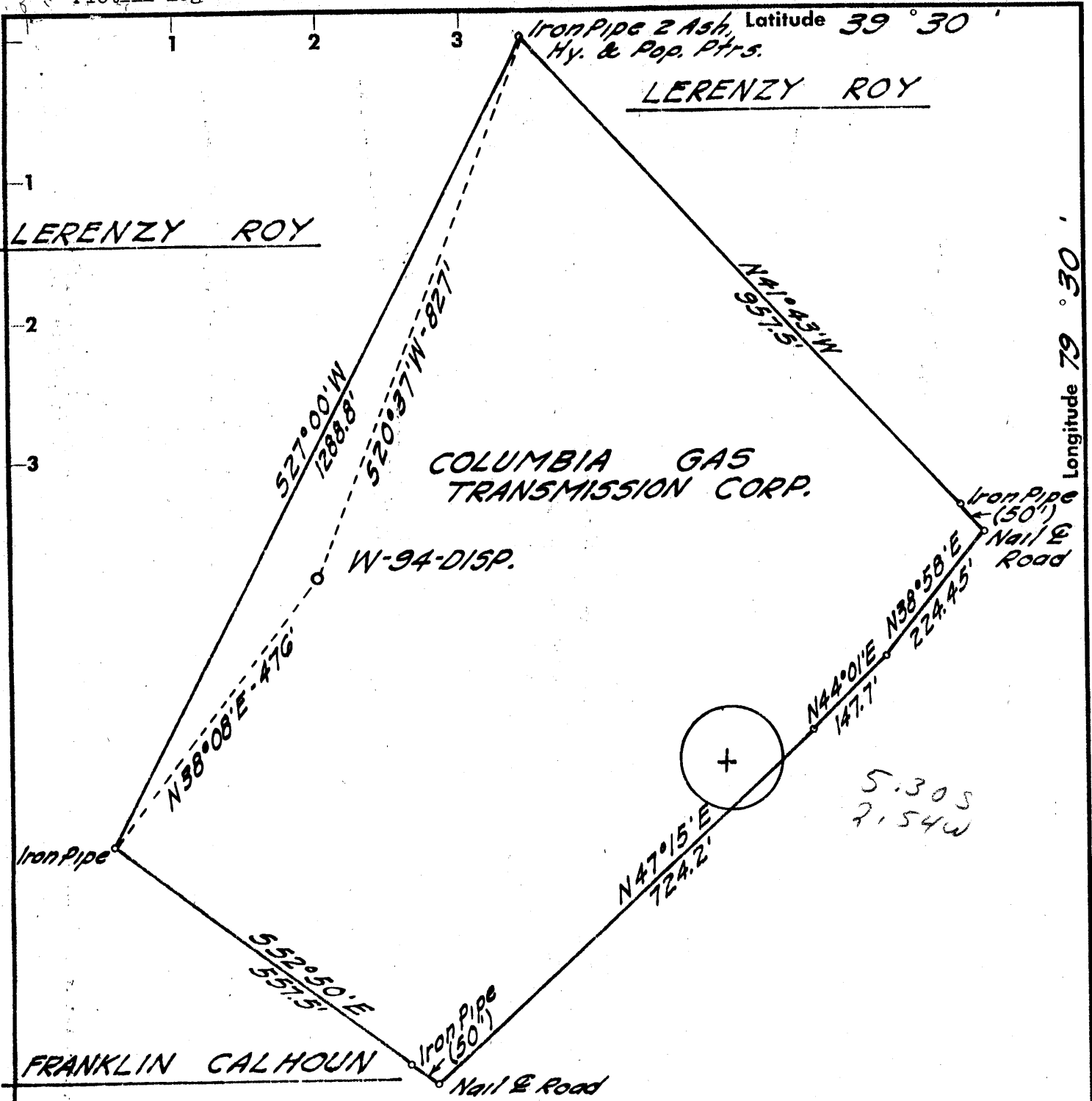
Company COLUMBIA GAS TRANSMISSION CORP.
Address CHARLESTON, W. VA.
Farm COL. GAS TRANS. CORP. FEE
Tract Acres 20.6 Lease No. 30272
Well (Farm) No. 1 Serial No. W-94-DISP.
Elevation (Spirit Level) 2675.00'
Quadrangle KINGWOOD
County PRESTON District PORTLAND
Engineer Adrian E. ...
Engineer's Registration No. 2330
File No. 174-133 Drawing No. 47-077
Date NOV. 4, '71 Scale 1" = 200'

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

WELL LOCATION MAP
FILE NO. PRES-166-DD

+ 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.



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Company **COLUMBIA GAS TRANSMISSION CORP.**
 Address **CHARLESTON, W. VA.**
 Farm **COL. GAS TRANS. CORP. FEE**
 Tract Acres **20.6** Lease No. **DEED 90272**
 Well (Farm) No. **1** Serial No. **W-94-DISP.**
 Elevation (Spirit Level) **2675.00'**
 Quadrangle **KINGWOOD - NE**
 County **PRESTON** District **PORTLAND**
 Engineer **Adrian E. Holzman**
 Engineer's Registration No. **2330**
 File No. **174-133** Drawing No.
 Date **NOV. 4, '71** Scale **1" = 200'**

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

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 FILE NO. **PRES-166**

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RECORDED

FEB 12 1980

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

OIL & GAS DIVISION
DEPT. OF MINES

Oil and Gas Division

WELL RECORD

Rotary X Oil _____
Cable _____ Gas _____
Recycling _____ Comb. _____
Water Flood _____ Storage _____
Disposal _____ (Kind)

Quadrangle Kingwood
Permit No. Pres.-166 DD
47-077

Company Columbia Gas Transmission Corporation

Address _____

Farm Columbia Gas Transmission Acres 20.6

Location (waters) Salt Lick Creek

Well No. W-94 Elev. 2675.00

District Portland County Preston

The surface of tract is owned in fee by _____

Columbia Gas Transmission Corporation

Address _____

Mineral rights are owned by Columbia Gas Trans.

Address _____

Drilling Commenced October 17, 1978

Drilling Completed October 26, 1978

Initial open flow _____ cu. ft. _____ bbls.

Final production 758 M cu. ft. per day _____ bbls.

Well open 4 hrs. before test 2094 RP.

Well treatment details:

Attach copy of cementing record.

1,000 gal. 15% HCL acid wash to remove possible well bore damage incurred during drilling.

2-3/8", 4.7 #/ft., J. EUE tubing ran with Baker Model "R" Double Grip Retrievable Packer and set in bottom joint of 7" casing at depth of 6,431.85' GL (6,446.85" KB).

Coal was encountered at _____ Feet _____ Inches

Fresh water _____ Feet _____ Salt Water _____ Feet _____

Producing Sand Chert-Oriskany Depth See Below

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
7" Casing Depth			6,455		*	
Original Total Depth			6,455		*	
Onondaga Lime			6,427	6,449	*	
Huntersville Chert			6,449	6,576	*	
Needmore Shale			6,576	6,594	*	
Oriskany Sand			6,594	6,711	*	
Helderburg			6,711	-	*	
Total Depth				7,000	*	

7000
6454
546 ft.
New footage

(over)



RECEIVED
JAN 26 1972

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

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Kingwood
Permit No. Pres. 166

WELL RECORD

Oil or Gas Well Disposal
(KIND)

Company Columbia Gas Transmission Corporation
Address P. O. Box 1067, Elkins, West Virginia
Farm Columbia Gas Transmission Corp. Fee 20.6

Location (waters) Salt Lick Creek
Well No. 1-W-94 Elev. 2675'
District Portland County Preston

The surface of tract is owned in fee by
Address

Mineral rights are owned by
Address

Drilling commenced November 12, 1971
Drilling completed December 7, 1971

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 (DETAILS) (See Reverse Side)

WELL FRACTURED (DETAILS)

RESULT AFTER TREATMENT (Initial open Flow or bbls.)

ROCK PRESSURE AFTER TREATMENT HOURS

Fresh Water Feet Salt Water Feet

Producing Sand Marcellus Shale salt water disposal Depth

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size	Ground	Level	Kind of Packer
16			
13 3/8"	31'	31'	
10			Size of
8 1/2 9 5/8"	2620'	2620'	Depth set
6 3/4 7"	6439'	6439'	
5 3/16			
4 1/2			
3			Perf. top (See
2 3/8"	5836'	5836'	Perf. bottom Reverse
Liners Used			Perf. top Side)
			Perf. bottom

Attach copy of cementing record.
CASING CEMENTED SIZE No. Ft. Date
Amount of cement used (bags) See Reverse Side
Name of Service Co. Dowell
COAL WAS ENCOUNTERED AT None FEET INCHES
FEET INCHES FEET INCHES
FEET INCHES FEET INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Shale and Siltstone			0'	5880'	Measured	from KB	
Tully Lime			5880'	5897'			
Shale			5897'	6428'			
Onondaga Lime			6428'	6449'			
Chert			6449'				
Total Depth				6454'			
				<u>6428</u>			
				<u>2675</u>			
				<u>3753</u>			
				<u>6454</u>			

Formation	Color	Hard or Soft	Top (L)	Bottom	Oil, Gas or Water	Depth Found	Remarks
NOTE:							
13 3/8"	48#/ft.,	H-40,	casing cemented to surface with 25 sacks of neat cement plus 2% CaCl.	November 12, 1971.	31' ground level,	48' kelly bushing.	
9 5/8"	36#/ft.,	K-55,	casing cemented to surface with 750 sacks of Kolite plus 2% CaCl.	November 21, 1971.	Casing set at 2620' ground level,	2637' kelly bushing,	2677' threads off, 2639' threads on.
7"	23#/ft.,	K-55,	plus 22 joints of 23#/ft., N-80, Seal-lok casing cemented to surface with, "1st stage" 55 sacks neat cement plus 105 sacks Kolite plus RFC.	W.O.C. 4 hours.	Stage collar set at 5436 K.F.,	"2nd Stage" 1200 sacks of neat cement.	December 2, 1971. Casing set 4' in chert formation. Casing set at 6439' ground level,
2 3/8"	4.6#/ft.,	J-55,	Seal-lok tubing run to 5836'.	December 5, 1971.			
Packer: Baker Model "R" Double-grip retrievable casing packer, set at 5836' ground level.							
Perforations:							
	<u>Marcellus Shale</u>	(6200' - 6300')	400 holes				
		(6323' - 6343')	80 holes				
		(6348' - 6378')	80 holes				
		(6398' - 6418')	80 holes				
		1 1/16" strip jets shots, December 5, 1971.					
Logging:							
	Gamma Ray - Caliper	(6454' - 0')	12-2-72				
	Cement Bond	(6346' - 2500')	12-4-72				
	Gamma Ray - P.D.C.	(6417' - 5800')	12-5-72				
Stimulation:							
	Dowell spotted 21 barrels 15% mud acid on bottom with drill pipe.						
	Saturated salt water left in tubing.						
(1)	(6398' - 6418')	- 3000#	would not take fluid				
(2)	(6348' - 6343')	- 3000#	no results				
(3)	(6323' - 6343')	- Pressured up to 4100#, 3 1/2 BPM.	Pressure would leak off to 2500# and hold.				
(4)	(6200' - 6300')	- Displaced 35 barrels of salt water, 4500#, 5 1/2 BPM.					

Date January 20, 19 72

APPROVED Columbia Gas Transmission Corporation Owner
 By [Signature]
 (Title)
 Production and Storage Superintendent



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED
AUG 30 1978

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE August 29, 1978

Surface Owner Columbia Gas Transmission Corp.
Address P. O. Box 1273, Charleston, W. Va.
Mineral Owner Same as above
Address _____
Coal Owner Same as above
Address _____
Coal Operator Unoperated
Address _____

Company Columbia Gas Transmission Corporation
Address P. O. Box 1273, Charleston, W. Va.
Farm Col. Gas Trans. Corp. Acres 20.6
Location (waters) Salt Lick Creek
Well No. W-94 Elevation 2675'
District Portland County Preston
Quadrangle Kingwood

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22,
of the W. Va. Code, the location is hereby approved
for deepening. This permit shall expire if
operations have not commenced by 1-1-79.

INSPECTOR
TO BE NOTIFIED William Blosser
ADDRESS P.O. Box 1028, Colfax, W. Va.
Fairmont
PHONE 363-9105

Deputy Director - Oil & Gas Division

GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated _____ 19__ by _____ made to _____ and recorded on the _____ day of _____ 19__ in _____ County, Book _____ Page _____

NEW WELL DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____
OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Very truly yours,
(Sign Name)
Director, Exploration & Development
P. O. Box 1273
Street
Charleston
City or Town
West Virginia 25325
State

*SECTION 3 . . . If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET COPY

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO _____ DRILL DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ NAME _____
 ADDRESS _____ ADDRESS _____
 TELEPHONE _____ TELEPHONE _____
 ESTIMATED DEPTH OF COMPLETED WELL: 7000' ROTARY CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Oriskany
 TYPE OF WELL: OIL _____ GAS _____ COMB. _____ STORAGE DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENT LIFT UP OR SACKS - CUBIC FT
20 - 16			
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			Perf. Top
2			Perf. Bottom
Liners			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET _____ SALT WATER _____ FEET

APPROXIMATE COAL DEPTHS _____

IS COAL BEING MINED IN THE AREA? NO BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title

WR-38
DATE:

AUG 24 2000

API # 47-077-00166

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

AFFIDAVIT OF PLUGGING AND FILLING WELL

AFFIDAVIT SHOULD BE IN TRIPLICATED, one copy mailed to the Division, one copy to be retained by the Well Operator and the third copy (and extra copies if required) should be mailed to each coal operator at their respective addresses.

Farm name: Columbia Gas Transmission Corp. Operator Well No.: 20294

LOCATION: Elevation: 2,675' Quadrangle: Terra Alta
District: Portland County: Preston
Latitude: 39°25'17" Feet South of _____ Deg. _____ Min. _____ Sec.
Longitude: 79°32'50" Feet West of _____ Deg. _____ Min. _____ Sec.

Well Type: OIL _____ GAS _____ UIC Waste Disposal X

Company: Columbia Gas Transmission Coal Operator
PO Box 1273 or Owner Columbia Gas Transmission
Charleston, WV 25325-1273

Agent: Richard L. Coty Coal Operator
or Owner _____

Permit Issued Date: 03/01/00

AFFIDAVIT

STATE OF WEST VIRGINIA,
County of Preston ss:

William H. Foraker and Tracy J. Weekley being first duly sworn according to law depose and say that they are experienced in the work of plugging and filling oil and gas wells and were employed by the above named well operator, and participated in the work of plugging and filling the above well, and Craig Duckworth Oil and Gas Inspector representing the Director, say that said work was commenced on the 18th day of April, 2000, and that the well was plugged and filled in the following manner:

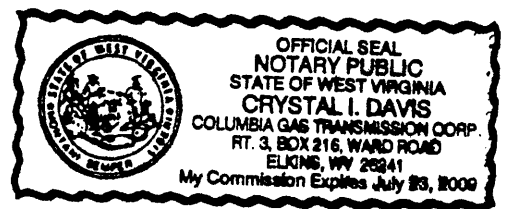
TYPE	FROM	TO	PIPE REMOVED	LEFT
Jet cut & removal	2-3/8" tbg from	6,423' (wireline measurement)	left approx. 8' of 4-7/8" tbg & packer in hole (pkr set @ 6,432')	
Set cast iron bridge plug (7" Alpha plug) in	7" 23 9/16" N-80 & K-55 Csg @	6,398' (wireline measurement)	(6,396' - 6,398')	
6" bentonite gel plug	6,390' - surf.	bentonite circulated in 7" (excluding cement plugs)		
Standard Cement	6,390'	6,060'	80 SKS std cmt / 94.4 cu. ft. (30% excess)	15.6 ppg
Standard Cement	2,673'	2,573'	24 SKS std cmt / 28.28 cu. ft. (30% excess)	15.6 ppg
Standard Cement	100'	surf.	24 SKS std cmt / 28.32 cu. ft. (30% excess)	15.6 ppg
Left in hole -	① 13-3/8" 48 5/16" H-40 Csg set @ 31' Cmt to surf @ 2,958' 3/4" 4" K-55 Csg set @ 2,620' Cmt 75 SKS to surf.			
③ 7" 23 9/16" K-55 & N-80 Csg	set @ 6,455' Cmt / w/ 1,360 SKS to surf @ 2-3/8" 4-7/8" tbg approx 8' & Baker R-3 pkr @ 6,432'			

Description of monument: 7" Csg 4' above ground level w/ API No. on welded steel plate and that the work of plugging and filling said well was completed on the 20th day of April, 2000

And further deponents saith not. x William H. Foraker
x Tracy Weekley

Sworn and subscribe before me this 2nd day of August, 2000
My commission expires: July 23, 2009

Crystal Davis
Notary Public
Oil and Gas Inspector: Craig Duckworth



PRE D/16/0

8/28/00

SEP 01 2000