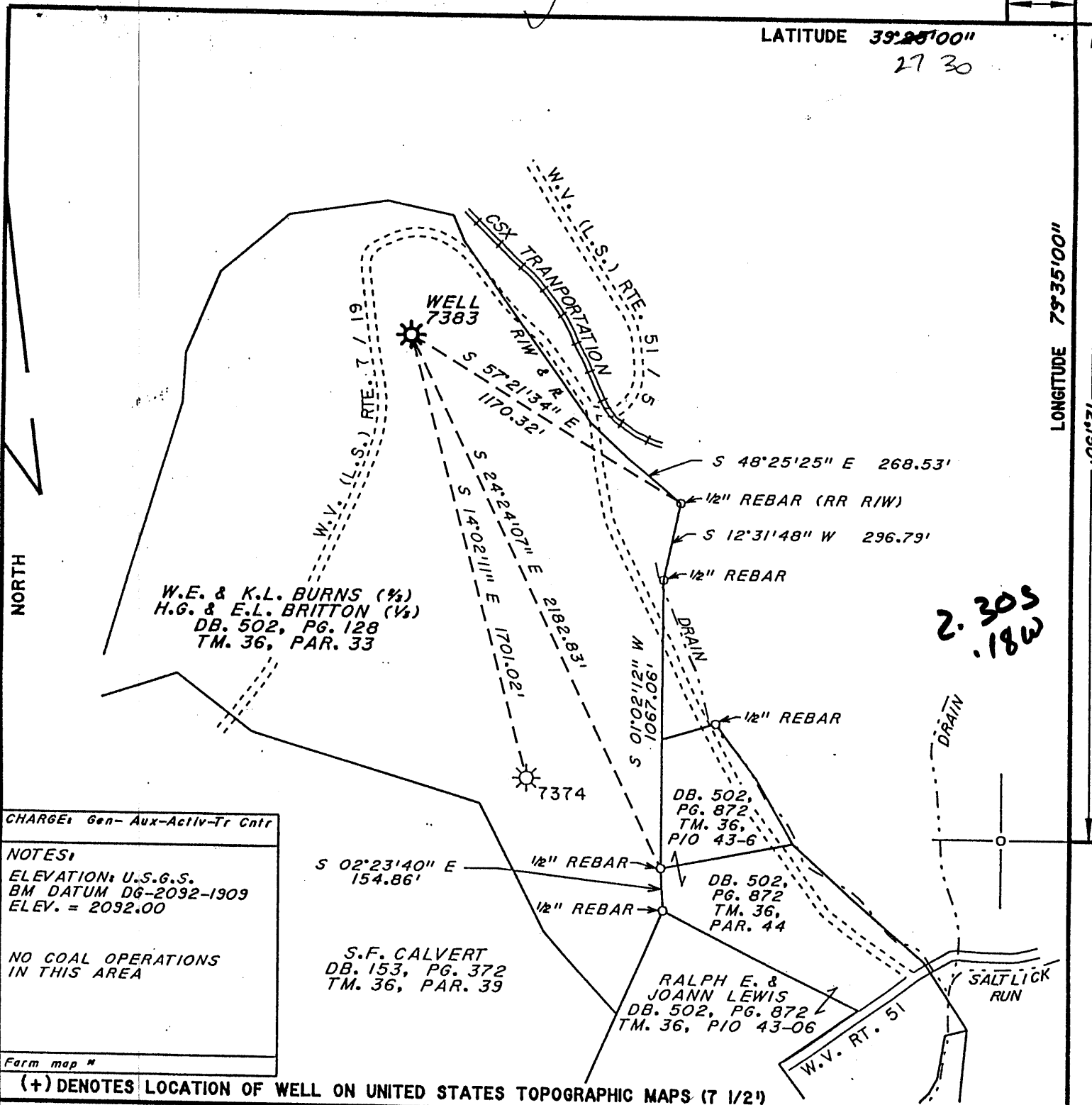


LATITUDE 39°25'00"

27 30

LONGITUDE 79°35'00"

12,150'



2.305
.18W

CHARGE: Gen-Aux-Activ-Tr Cntr

NOTES:
ELEVATION: U.S.G.S.
BM DATUM DG-2092-1909
ELEV. = 2092.00

NO COAL OPERATIONS
IN THIS AREA

Farm map #

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1:200
PROVEN SOURCE OF ELEVATION SEE ABOVE

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) Sh. Nick
R.P.E. 9936 L.L.S. 798

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION



DATE MAY 4, 2001
OPERATOR'S WELL NO. 7383
API WELL NO. _____

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

LOCATION: ELEVATION 2198.77 WATER SHED SALT LICK RUN
DISTRICT PORTLAND COUNTY PRESTON
QUADRANGLE TERRA ALTA COORDINATES LAT 39°25'29" LONG 79°35'12"

SURFACE OWNER W.E. & K.L. BURNS (1/4) / H.G. & E.L. BRITTON (1/4) ACREAGE _____
OIL & GAS ROYALTY OWNER SAMUEL F. CALVERT, HRS. LEASE ACREAGE 49.05
COAL OWNER SAMUEL F. CALVERT, HRS. LEASE NO. 90398

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___

TARGET FORMATION ORISKANY ESTIMATED DEPTH 5633

WELL OPERATOR Columbia Gas Transmission Corp DESIGNATED AGENT PAUL AMICK
ADDRESS PO Box 1273, Charleston, W.V. 25325-1273 ADDRESS PO Box 1273, Charleston, W.V. 25325-1273

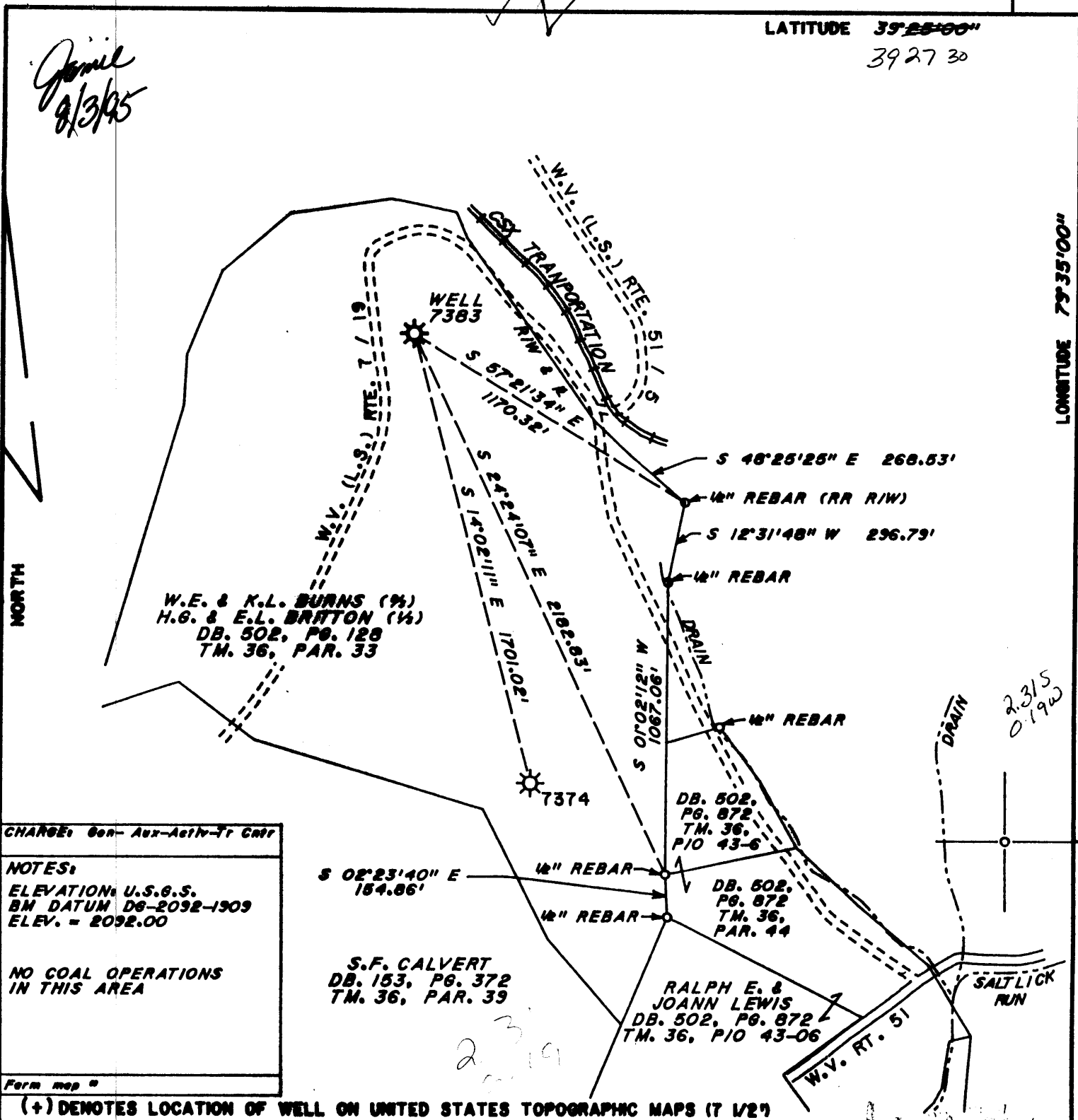
PRESTON
COUNTY NAME
55 W
PERMIT

9-0 TERRA ALTA (280)

MAY 12 2001

LATITUDE 39°25'00"
39 27 30

Jamil
9/3/95



CHARGE: Gen - Aux - Act - Tr - Cont

NOTES:
ELEVATION: U.S.G.S.
BM DATUM DG-2092-1909
ELEV. = 2092.00

NO COAL OPERATIONS
IN THIS AREA

Form map "

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

FILE NO. _____
DRAWING NO. _____
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY 1:200
PROVEN SOURCE OF
ELEVATION SEE ABOVE

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 Nichols*
R.P.E. 9936 L.L.S. 790

PLACE SEAL HERE

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY
OIL AND GAS DIVISION

DATE 27 JAN, 1995
OPERATOR'S WELL NO. 7383
API WELL NO. 47 077 00055W

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

LOCATION: ELEVATION 2198.77 WATER SHED SALT LICK RUN
DISTRICT PORTLAND COUNTY PRESTON
QUADRANGLE TERRA ALTA COORDINATES LAT: 39°25'29" LONG: 79°35'12"

SURFACE OWNER W.E. & K.L. BURNS (1/4) / H.G. & E.L. BRITTON (1/4) ACREAGE _____
OIL & GAS ROYALTY OWNER SAME AS SURFACE LEASE ACREAGE 49.05
COAL OWNER _____ LEASE NO. _____

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

PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ORISKANY ESTIMATED DEPTH 5633

WELL OPERATOR Columbia Gas Transmission Corp DESIGNATED AGENT RICHARD L. COTY
ADDRESS PO Box 1273, Charleston, W.V. ADDRESS PO Box 1273, Charleston, W.V.
25325-1273 25325-1273

3-AI FORM 1

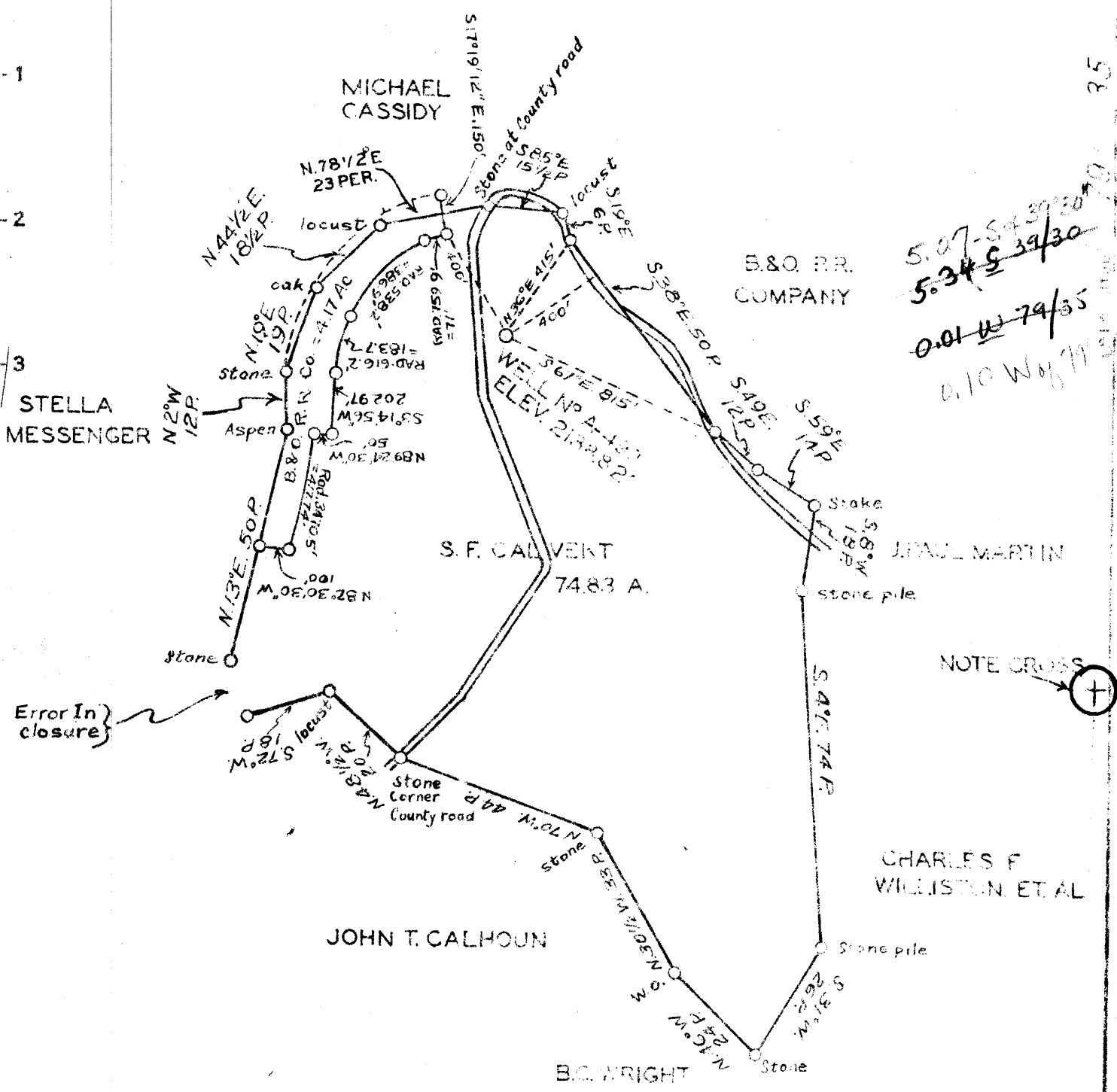
COUNTY NAME PRESTON

PERMIT 39

DEEP WELL

175

AUG 1 - 1995



COAL OWNED BY

NEW LOCATION

DRILL DEEPER

ABANDONMENT

COMPANY CUMBERLAND AND ALLEGHENY GAS

ADDRESS 800 UNION TRUST BLDG, PITTSBURGH, PA.

FARM S.F. CALVERT

TRACT 1 ACRES 74.83 LEASE NO. 7713

WELL (FARM) NO. 2 SERIAL NO. A-499

ELEVATION (SPIRIT LEVEL) 2'38.82'

QUADRANGLE KINGWOOD **NC** QUARTER **NC**

COUNTY PRESTON DISTRICT PORTLAND

ENGINEER Thomas & Virgin

ENGINEER'S REGISTRATION NO. 1503

FILE NO. DRAWING NO. T-13-781

DATE OCTOBER 2, 1952 SCALE 1" = 500'

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

WELL LOCATION MAP

F.I.D. NO. Pres-55

↑ DENOTES LOCATION OF WELL ON UNITED STATES GEOGRAPHIC MAPS, SCALE 1:62,500 LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

— DENOTES ONE INCH SPACES ON SURFACE OF ORIGINAL TRACING.

Storage

2-0-280

Deep well

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

M 13

Well Operator's Report of Well Work

Farm name: William & Cathy Burns

Operator Well No.: Terra Alta #7383

LOCATION: Elevation: 2198.77'

Quadrangle: Terra Alta, WV

District: Portland County: Preston
Latitude: _____ Feet South of 39 Deg. 25 Min. 29 Sec.
Longitude _____ Feet West of 79 Deg. 35 Min. 12 Sec.

Company: Columbia Gas Transmission

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: RR 2 Box 138				
Sandyville, WV 25275				
Agent: Paul Amick				
Inspector: Terry Urban				
Date Permit Issued: 7/10/01	4-1/2"	5335'	5335'	340 sx
Date Well Work Commenced: 11/2/01				
Date Well Work Completed: 7/11/03				
Verbal Plugging:				
Date Permission granted on:				
Rotary Cable Rig				
Total Depth (feet): 5633				
Fresh Water Depth (ft.):				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.):				

RECEIVED
Office of Oil & Gas
Office of Chief
MAR 15 2004
WV Department of
Environmental Protection

OPEN FLOW DATA

Producing formation **Chert** Pay zone depth (ft) **5496' to 5523'**
Gas: Initial open flow **N/A Gas Storage** MCF/d Oil: Initial open flow **N/A Gas Storage** Bbl/d
Final open flow **N/A Gas Storage** MCF/d Final open flow **N/A Gas Storage** Bbl/d
Time of open flow between initial and final tests **N/A Gas Storage** Hours
Static rock Pressure **N/A Gas Storage** psig (surface pressure) after **N/A Gas Storage** 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.

Signed: *JVM*
By: John V. McCallister
Date: 3/12/04

PRE 0055

APR 30 2004

- 11/12/01 - Ran 5335.41' of 4-1/2" 11.6 ppf J-55 casing.
Casing packer at 5336.53'
- 7/1/03 - Casing packer failed.
Perforated 4-1/2" casing with 6 squeeze holes from 5316' to 5317.4'
- 7/4/03 - Cemented 4-1/2" casing with 340 sx Class A cement with 10% salt, 1% Halad 322

No earthen pit constructed.
All fluids hauled to L.A.D. in Wheeling, WV

RECEIVED
WV Division of
Environmental Protection

JAN 07 1997

12/4/96
API # 47-077-00055

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: Wm. E. & Kathryn L. Burns (2/3) Operator well no.: 7383
Harris G. & Edna L. Britton (1/3)
LOCATION Elevation: 2198.77' Quadrangle: Terra Alta
District: Portland County: Preston
Latitude: 12150 Feet South of 39 Deg. 25 Min. 0 Sec.
Longitude: 1000 Feet West of 79 Deg. 35 Min. 0 Sec.

Company: Columbia Gas Transmission
P.O. Box 1273
Charleston, WV 25325-1273
Agent: Richard L. Coty
Inspector: Phil Tracey
Permit Issued: 7/19/95
Well Work Commenced: 6/6/96
Well Work Completed: 8/1/96
Verbal Plugging
Permission granted on:
Rotary Yes Cable _____ Rig
Total Depth (ft) 5570**
Fresh water depths (ft) See previous records

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
13 3/8"	21'	21'	Driven
10 3/4"	510'	510'	63 bbls surf ret. ***
8 5/8"	2160'	2160'	225 sxs surf ret. ***
7"	5548'	4013'***	260 sxs Est. 2620
7"***	1496'	1496'	Same as above

Salt water depths (ft) See previous records
Is coal being mined in the area (Y/N) ? N
Coal Depths (ft) N/A

Open Flow Data

Producing formation	<u>Chert</u>	Pay zone depth (ft)	<u>5496'-5523'</u>
Gas: Initial open flow	<u>N/A</u> MCF/d	Oil: Initial open flow	<u>N/A</u> Bbl/d
Final open flow	<u>N/A</u> MCF/d	Final open flow	<u>N/A</u> Bbl/d
Time of open flow	<u>between initial and final tests</u>		<u>N/A</u> Hours
Static rock Pressure	<u>N/A</u> psig	(surface pressure) after	<u>N/A</u> Hours
Second producing formation	<u>N/A</u>	Pay zone depth (ft)	<u>N/A</u>
Gas: Initial open flow	<u>N/A</u> MCF/d	Oil: Initial open flow	<u>N/A</u> Bbl/d
Final open flow	<u>N/A</u> MCF/d	Final open flow	<u>N/A</u> Bbl/d
Time of open flow	<u>between initial and final tests</u>		<u>N/A</u> Hours
Static rock Pressure	<u>N/A</u> psig	(surface pressure) after	<u>N/A</u> Hours

NOTE: On the 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.

Notes: * TD prior to workover was 5634'
** Changed out 1496' of 7". Did not cement.
** *Cemented during current workover.

For: Columbia Gas Transmission Corp.
By:
Date:

JAN 10 1997

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

Well Operator's Report of Well Work

Western Atlas rigged up on the well and set a retrievable 7" CIBP @ 5466' in the well. The pump and bleed technique was utilized to place 155 bbls of 2% KCL water on the plug. Atlas ran a CBL and Vertilog in the 7" casing to evaluate the casing and to determine the location of the free pipe. A 30' sand plug was dump bailed on the retrievable bridge plug. A field review of the casing inspection log showed 60-80% corrosion in several spots to a maximum depth of 3530'. The top of cement as indicated by the CBL was @ 5250'. The concrete block around the wellhead was removed. The slip on weld head was removed from the 10 3/4" casing. Atlas ran a freepoint tool and determined that the 7" casing was 90% free @ 1500' and 100% stuck @ 2000'. While on location, Atlas dump bailed 40' of cement on top of the sand plug on the retrievable cast iron bridge plug @ 5466'. Atlas ran Great Lakes' directional survey on the well. Bakers' hydraulic back off tool was tripped into the hole on 2 7/8" drill pipe and used to back off the 7" casing @ 1495'. Atlas ran a Vertilog and CBL on the 8 5/8" casing from 1475' to surface. The Vertilog only indicated slight external corrosion. The worst corrosion was from 1319'-21' and was < 28%. Atlas ran a gauge ring and junk basket to 1495' and set an 8 5/8" retrievable bridge plug @ 1487'. Atlas dump bailed 6' of sand and 9' of cement on top of the BP. Atlas perforated the 8 5/8" casing in a 2' interval from 1435'-1437' with a 4" PPG loaded at 4 SPF w/22 gram charges phased at 90 deg.. Circulation was established between the squeeze perforations and the surface. A drillable cement retainer was run in the hole on the end of the 2 7/8" drill pipe and set @ 1395'. Halliburton cemented the 8 5/8" x 10 3/4" annulus with 225 sxs of Standard cement with additives. There was a trace of cement returns at the surface. An attempt was made to perforate a 2' interval from 465'-467' through the 8 5/8" casing and the 10 3/4" casing with a 4" PPG loaded at 4 SPF w/22 gram charges phased at 90 deg.. An attempt was made to place cement outside of the 10 3/4" casing and into the 10 3/4" x 13 3/8" annulus. The squeeze perforations were cemented with 5 bbls of 13.5 ppg Standard cement and 58 bbls of 15.6 ppg Standard cement. There were good cement returns at the surface. Cementing operations indicated the possibility of a hole or casing part in the 10 3/4" casing close to the surface. A 7 7/8" bit was used to clean out the hole to 468'. An attempt was made to use a Baker cement retainer plucker to retrieve the 8 5/8" retrievable cement retainer @ 1395'. The Baker plucker did not recover the cement retainer. A new 8 5/8" slip on weld head was installed. The cement retainer was eventually recovered with a tapered tap on the end of the 2 7/8" drill pipe. A 7 7/8" bit was used to clean out the hole down to the top of the retrievable bridge plug set @ 1478'. Atlas ran a BAL from 1487' to the surface. The 8 5/8" bridge plug was retrieved from 1487'. 1496' of new 7", 23#, K-55, LT&C with a cut lip guide was tripped into the hole and reconnected to the existing casing. A 7" test packer was used to pressure test the 7" casing with 2450 psi surface pressure. A 6 1/8" bit was used to drill up cement and clean out the hole to 5465'. The workover fluid was displaced from the hole with treated water. The service rig was rigged down.

Halliburton's coiled tubing unit was rigged up. The coiled tubing was used to wash out the fill in the well down to the 7" retrievable cast iron bridge plug set @ 5459'. The coiled tubing was also used to retrieve the bridge plug. The well was bullhead killed with treated water. Atlas ran a Hex-Dip and Density/Neutron log while Halliburton kept the hole full by pumping 1/2 BPM. The 1 3/4" coiled tubing was used to wash the open hole w/ 10 bbls of treated water, 48 bbls of 15% FE acid w/ additives and 10 bbls of treated water. The well was blown to a 500 bbl frac. tank to clean it up. The well was placed back in service on 8/1/96.



STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 DRILL DEEPER
WELL RECORD

Quadrangle Kingwood
 Permit No. PRES. 55-D

Oil or Gas Well Gas
 (KIND)

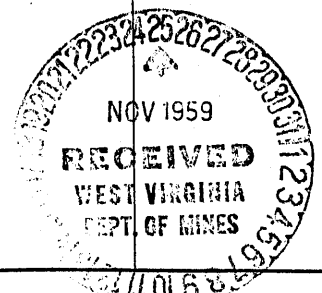
Company Atlantic Seaboard Corp.
 Address P.O. Box 1273; Charleston 25, W. Va.
 Farm S.F. Calvert, et al Acres 80
 Location (waters) Saltlick Creek
 Well No. 7383 Elev. 2198.70'
 District Portland County Preston
 The surface of tract is owned in fee by _____
 Address _____
 Mineral rights are owned by Jessie F. Calvert, et al
Box 373 Address Masontown, W. Va.
 Drilling commenced _____
 Drilling completed _____
 Date Shot NO 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			None
13		21'	Size of _____
10		510	Depth set _____
8 1/4		2160	Perf. top _____
8 3/4 7		5548'	Perf. bottom _____
5 3/16			Perf. top _____
3			Perf. bottom _____
2			
Liners Used			

CASING CEMENTED Yes SIZE 7" No. Ft. _____ Date _____
to within 2600 feet to top of hole
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

RESULT AFTER TREATMENT Storage Well
 ROCK PRESSURE AFTER TREATMENT _____
 Fresh Water _____ Feet Salt Water _____ Feet

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth	Remarks
Drill Deeper Record From ²³ 5544				5633'			
Chert				(463)	5633 5523 (110) rem. ft.		
Well Surveys Run			5473				
Gamma Ray			2139				
			3334				





STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION 12

Kingwood

WELL RECORD

Permit No. PRES-55

Oil or Gas Well Gas
(KIND)

Company Cumberland and Allegheny Gas Company
Address 800 Union Trust Building, Pgh., Penna.
Farm S. Fletcher Calvert Acres 80
Location (waters) _____
Well No. 499 Elev. 2138.82'
District Portland County Preston
The surface of tract is owned in fee by _____
Address _____
Mineral rights are owned by _____
Address _____
Drilling commenced December 29, 1952
Drilling completed April 13, 1953
Date Shot _____ From _____ To _____
With _____

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
16			
18	21'0"	21'0"	
10	510'2"	510'2"	Size of
8 1/2	2160'0"	2160'0"	
8 3/4	5548'0"	5548'0"	Depth set
5 3/16			
8			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

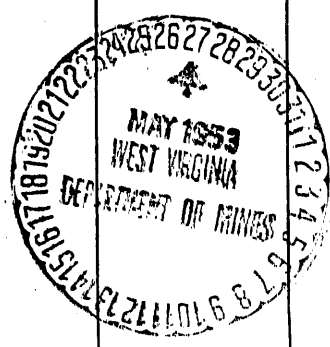
Open Flow _____ /10ths Water in _____ Inch
84 /10ths Merc. in 6 1/4 Inch
Volume 17,000,000 Cu. Ft.
Rock Pressure 590 lbs. 48 hrs.
Oil _____ bbls., 1st 24 hrs.
Fresh water _____ feet
Salt water _____ feet

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

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

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	100			
Lime			100	120			
Slate & Shells			120	150			
Shale			150	155			
Lime Sand			155	182			
Slate & Shells			182	205			
Sand			205	229			
Lime			229	345			
Slate & Shells			345	408			
Lime			408	475			
Slate & Shells			475	495			
Sand			495	513			
Slate & Shells			513	566			
Lime			566	747			
Sand			747	819			
Slatw			819	880			
Lime			880	1300			
Slate			1300	1310			
Lime			1310	1435			
Slate			1435	1485			
Lime			1485	1550			
Slate			1550	1619			
Lime			1619	1622			
Shale			1622	1760			
Lime			1760	1800			
Shale Shells			1800	1825			
Benson Sand			1825	1860			
Slate & Shells			1860	1945			
Shale			2130	2187			
Lime			2187	2235			
Shale Shells			2235	2340			
Slate & Shells			2340	4222			
Lime (Grey)			4222	4249			
Lime (Black)			4249	4275			
Slate (Dark)			4275	4465			
Shale (Brown)			4465	4615			
Lime			4615	4680			
Shale (Brown)			4680	4813			

Water at 770', 1/2 Bailer per hour



5473
2139
-3334

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks	
Tully			4813	4839				
Lime (Hard)			4839	5004				
Brown Shale			5004	5022				
Lime			5022	5208				
Shale (Brown)			5208	5471				
Shale (Black)			5471	5473				
Brown Break			5473	5496				
Onedago Lime			5496	5523				
Chert			5523					
Total Depth			5523					
			463					
					Gas 5496' tested 56/10W-1"			
					Pick Up:			
				1 Min.	2 Min.	3 Min.	4 Min.	5 Min.
				0	2	5	6	8
				30 Min.	60 Min.	24 Hr.	48 Hr.	
				35	63	580	600	
						Gas 5497 - 5500' tested 90/10W-1"		
						Gas 5500 - 5503' tested 28/10M-2"		
						Gas 5503 - 5506' tested 30/10M-2"		
						Pick Up:		
				1 Min.	2 Min.	3 Min.	4 Min.	5 Min.
				5	-	17	-	30
								580#
						Gas 5514 - 5516' tested 94/10M-2"		
						Gas 5516 - 5522' tested 42/10M-2 $\frac{1}{2}$ "		
						Gas 5522 - 5523' tested 84/10M-6 $\frac{1}{4}$ "		
						Pick Up:		
				1 Min.	2 Min.	3 Min.	4 Min.	5 Min.
				320	320	400	425	435
								590#

Date May 26, 1953

APPROVED CUMBERLAND AND ALLEGHENY GAS COMPANY Owner

By [Signature]
LAND AGENT

Cumberland & Allegheny Gas Company
Company

Make copy
Case

Division 4
Record of well No. 499 on S. Fletcher Calvert Farm 80 Acres
Terra Alta Field Portland Dist. Preston County W. Va. State
Rig Commenced 12-8 1952, Completed 12-19 1952
Drilling Commenced 12-29 1952, Completed 4-9/3 1953
Contractor W.H. Patten Address Millersburg, Ohio
Driller's Name Asa M. Seaman and Ralph Snyder

CASING AND TUBING RECORD

Conductor	13"	10"	8 1/4"	7"	6 1/8"	5 3/16"	4"	3"	
Used in Drig	=	21'0"	510'2"	2160'0"	5548'0"	-	-	-	-
Left in well	=	21'0"	510'2"	2160'0"	5548'0"	-	-	-	Thds. on

PACKER RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH		Volume Before Co. Ft.	Volume After Co. Ft.
						Top	Bottom		

SHOOTING RECORD

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN					24 Hour R. P.	Max. R. P.	48 Hours
						1	2	5	10	15			
4-27-53	84/10	Mercury	6 1/2" Csn	17,000,000	Chert	220	320	400	425	435	-	-	590 1/2

TOTAL INITIAL OPEN FLOW 17,000,000 Cuft. CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Clay	0	100	100	
Lime	100	120	20	
Slate & Shells	120	150	30	
Shale	150	155	5	
Lime Sand	155	182	27	
Slate & Shells	182	205	23	
Sand	205	229	24	
Lime	229	345	116	
Slate & Shells	345	408	63	
Lime	408	475	67	
Slate & Shells	475	495	20	
Sand	495	513	18	
Slate & Shells	513	566	53	
Lime	566	747	181	
Sand	747	819	72	
Slate	819	880	61	Water at 780', 1/2 Bailer per hour
Lime	880	1300	420	
Slate	1300	1310	10	
Lime	1310	1435	125	
Slate	1435	1485	50	
Lime	1485	1550	65	
Slate	1550	1619	69	
Lime	1619	1622	3	
Shale	1622	1760	138	
Lime	1760	1800	40	
Shale Shells	1800	1825	25	
Season Sand	1825	1860	35	
Slate & Shells	1860	1945	85	

Calculated by [Signature]
Apr 27 1953

Examined above information and measurements and found to be correct by W.H. Patten Contractor
Examined and Approved by [Signature] Field Superintendent

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompany, when presented for payment of the well log drilling. All formations and known sands must be given by their proper names, with steel line measurements, and under the head of "Remarks" must be recorded in what sand and at what depth Oil, Gas or water was found, the quantity of same, the quality of the sand, and thickness of pay.

1953 1997

Cumberland & Allegheny Gas Company
Company

Division **4**
 Record of well No. **499** on **S. Fletcher Calvert Farm 80**
Terra Alta Field Fortland ~~W. Va.~~ **Preston County W. Va.**
 Rig Commenced **12-8 1952**, Completed **12-19 1952**
 Drilling Commenced **12-29 1952**, Completed **4-2-53 1953**
 Contractor **W.H. Patten** Address **Millersburg, Ohio**
 Driller's Name **Ass M. Seaman and Ralph Snyder**

CASING AND TUBING RECORD

	Conductor	13"	16"	21 1/4"	7"	6 5/8"	6 3/16"	4"
Used in Drilg.	-	21'0"	510'2"	2160'0"	5548'	-	-	-
Left in well	-	21'0"	510'2"	2160'0"	5548'0"	-	-	-

PACKER RECORD

SHOOTING RECORD

Size	Depth Set	Type Packer	Date	Type Explosive	Amount	DEPTH	
						Top	Bottom

VOLUME AND PRESSURE

Date	Reading in Inches	Liquid	Size Orifice	Volume	Sand	PRESSURE IN MIN.				
						1	2	3	4	5
4-27-53	84/10	Mercury	6 1/2" Csn	17,000,000	Chert	220	320	400	425	435

TOTAL INITIAL OPEN FLOW **17,000,000** CUBIC FEET PER 24 HOURS

FORMATION	TOP	BOTTOM	THICKNESS	REMARKS
Shale	2130	2187	57	
Lime	2187	2235	48	
Shale Shells	2235	2340	105	
Slate & Shells	2340	4222	1882	
Lime (Grey)	4222	4249	27	
Lime (Black)	4249	4275	26	Gas 5496' tested 56/100
Slate (Dark)	4275	4465	190	Pick Up:
Shale (Brown)	4465	4615	150	1Min. 2Min. 3Min. 4Min. 5Min. 10Min.
Lime	4615	4680	65	0 2 5 6 8
Shale (Brown)	4680	4813	133	30Min 60Min. 24Hr. 400
Lime (Hard)	4813	4839	26	35 63 580 600
Brown Shale	4839	5004	265	
Lime	5004	5022	18	Gas 5497-5500' tested 90/100
Shale (Brown)	5022	5208	186	Gas 5500-5503' " 28/100
Shale (Black)	5208	5471	263	Gas 5503-5506' " 30/100
Brown Break	5471	5473	2	Pick Up:
Onedago Lime	5473	5496	23	1Min. 2Min. 3Min. 4Min. 5Min.
Chert	5496	5523	27	5 - 17 - 20
Total Depth	5523			
				Gas 5514-5516' 94/100
				Gas 5516-5522' tested 10/100
				Gas 5522-5523' " 10/100
				Pick Up:
				1Min. 2Min. 3Min. 4Min. 5Min. 48
				320 320 400 425 435 590

Examined above information and measurements and found to be correct by

Examined and Approved by

W.H. Patten Contractor

J.P. Lee

NOTE—The above blank must be filled out carefully by the contractor, with a complete and accurate record of the well, and accompanied by all necessary data. All formations and known sands must be given by their proper name, with coal line measurements, and under the heading of sand and at what depth Oil, Gas or water was found, the quantity of sand, the quality of the sand, and thickness of pay.

RECEIVED

WV Division of
Environmental Protection

JUN 22 1995

- 1) Date: 3/17/95
- 2) Operator's well number 7383
- 3) API Well No: 47 - 077 - 00055
State - County - Permit

Permitting
Office of Oil & Gas

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 WILLIAM E. & KATHRYN BURNS
Address 206 SECOND ST.
TERRA ALTA, WV 26764 (2/3)
 - (b) Name HARRIS G. & EDNA L. BRITTON
Address 206 SECOND ST.
TERRA ALTA, WV 26764 (1/3)
 - (c) Name _____
Address _____
- 5) (a) Coal Operator:
 - Name _____
Address _____
 - (b) Coal Owner(s) with Declaration
Name JESSIE F. CALVERT HEIRS (BETTY JANE CALVE
Address 2257 RANKIN AVE.
COLUMBUS, OH 43211
 - Name _____
Address _____
 - (c) Coal Lessee with Declaration
Name _____
Address _____
- 6) Inspector PHILLIP TRACY
Address ROUTE 2, BOX 37A
MONTROSE, WV 26283
Telephone (304)-636-8798

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

Copy of Lease in Columbia Gas Office
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 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)
- 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.

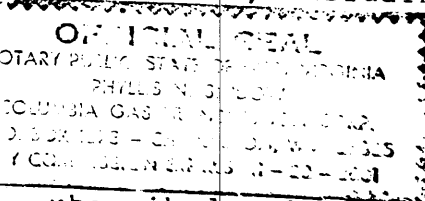
I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator COLUMBIA GAS TRANSMISSION CORP.
By: Richard L. Coyle
Its: MANAGER - WELL SERVICES
Address P. O. BOX 1273
CHARLESTON, WV 25325-1273
Telephone 304-357-3034

Subscribed and sworn before me this 16th day of May, 1995

Phyllis M Snider

My commission expires November 20, 2001 Notary Public



RECEIVED
WV Division of
Environmental Protection

077 55W
Issued 07/19/95

FORM WW-2B

JUN 22 1995

Page 1 of 1

Expires 07/19/97

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
Office of Oil & Gas WELL WORK PERMIT APPLICATION

20828

- 1) Well Operator: ¹⁷⁵ COLUMBIA GAS TRANSMISSION CORP. 10450 (5) 637
- 2) Operator's Well Number: 7383 3) Elevation: 2198.77
- Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production ___ / Underground Storage X /
 Deep X / Shallow ___ /
- 5) Proposed Target Formation(s): ⁴⁷⁵ CHERT-ORISKANY
- 6) Proposed Total Depth: 5785 feet (DRILL DEEPER)
- 7) Approximate fresh water strata depths: 450' (EST.)
- 8) Approximate salt water depths: 770' (EST.)
- 9) Approximate coal seam depths: NONE
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: KILL WELL; DRILL DEEPER THROUGH ORISKANY; LOG; RUN 5-1/2" FLUSH JOINT LINER; CEMENT; PERFORATE; ACIDIZE/FRACTURE.
- 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	13-3/8"	UNKNOWN		21'	21'	DRIVEN
Fresh Water	10-3/4"	UNKNOWN		510'	510'	NO RECORD
Coal						
Intermediate	8-5/8"	UNKNOWN		2160'	2160'	NO RECORD
Production	7"	UNKNOWN	23	5548'	5548'	
Tubing						38CSRA/111
Liners	5-1/2"		15.5'			VOLUME TO BE DETERMINED

PACKERS : Kind NONE
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

6260
 Fee(s) paid: 31 Well Work Permit 31 Reclamation Fund 31 WPCP
31 Plat 31 WW-9 31 WW-2B 31 Bond Blanket 31 Agent
 (Type)