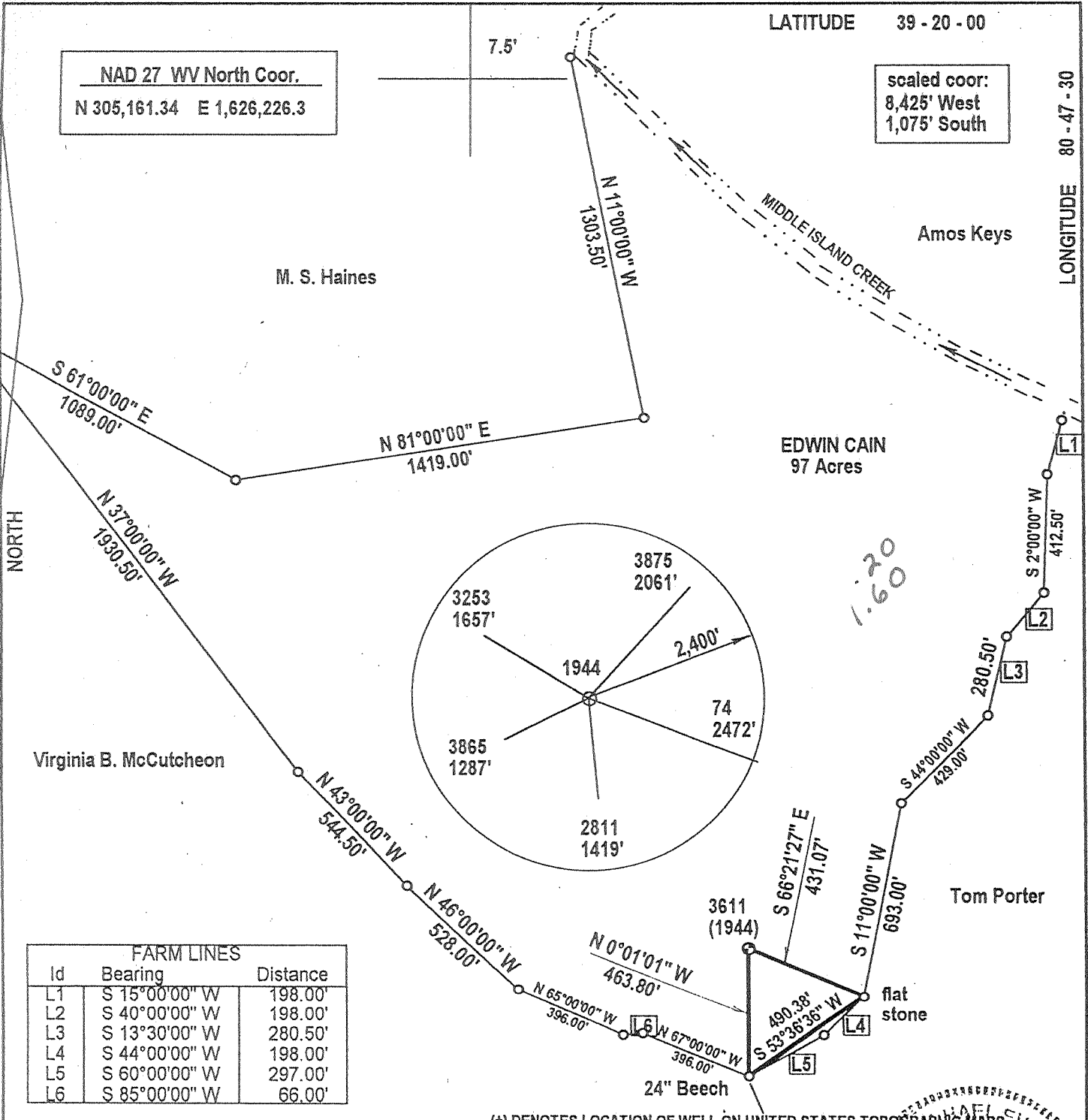


A-17



NAD 27 WV North Coor.
N 305,161.34 E 1,626,226.3

scaled coor:
8,425' West
1,075' South

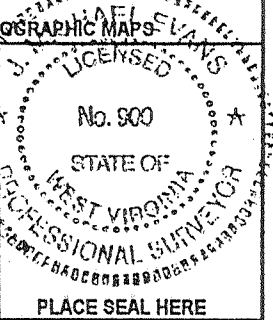
FARM LINES		
Id	Bearing	Distance
L1	S 15°00'00" W	198.00'
L2	S 40°00'00" W	198.00'
L3	S 13°30'00" W	280.50'
L4	S 44°00'00" W	198.00'
L5	S 60°00'00" W	297.00'
L6	S 85°00'00" W	66.00'

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

FILE NUMBER: _____
 DRAWING NUMBER: _____
 SCALE: 1" = 500'
 MINIMUM DEGREE OF ACCURACY: 1 in 2500
 PROVEN SOURCE OF ELEVATION: GPS Survey
 (submeter unit)

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) J. Michael Evans
 J. Michael Evans, PS 900



STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 #10 McJUNKIN ROAD
 NITRO, WV 25143-2506
 FORM WW-6

LAND SURVEYING SERVICES
 21 CEDAR LANE, BRIDGEPORT, WV 26330
 PHONE: 304-842-2018 OR 842-5762

DATE: September 17, 2001

OPERATORS WELL NO.: 3611

API WELL NO. 47-017-1944 F

STATE COUNTY PERMIT

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

LOCATION: ELEVATION 955' WATERSHED Middle Island Creek
 DISTRICT West Union COUNTY Doddridge

QUADRANGLE West Union LEASE NUMBER 3358

SURFACE OWNER Donald L. Summers ACREAGE 91.31

OIL & GAS ROYALTY OWNER Edwin Cain LEASE ACREAGE 97

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE (SPECIFY) REWORK

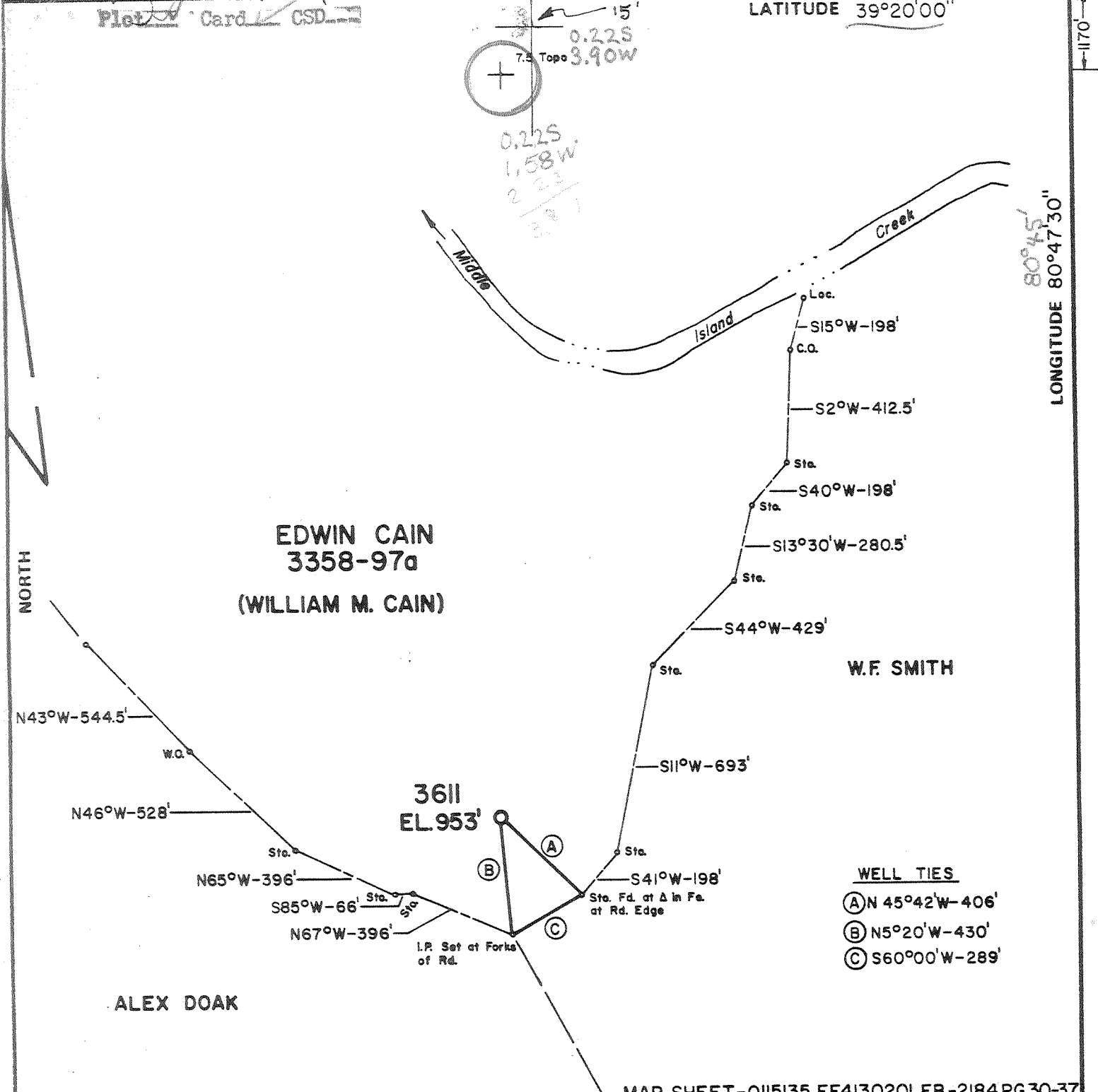
TARGET FORMATION _____ PLUG & ABANDON CLEAN OUT & REPLUG

WELL OPERATOR DOMINION TRANSMISSION, INC. DESIGNATED AGENT James D. Blasingame

ADDRESS 445 West Main St., Clarksburg, WV 26301 ADDRESS 445 West Main St., Clarksburg, WV 26301

COUNTY NAME PERMIT

NOV 06 2001



FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 500'
 MINIMUM DEGREE OF ACCURACY 1' in 200'
 PROVEN SOURCE OF ELEVATION U.S.G.S. B.M. on Nutter Fk. Brdg. West Union Topo 7.5' El. 752.0' (M-142) 1957

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 MINES.

(SIGNED) Danell M Radcliffe
 R.P.E. _____ L.L.S. 74

PLACE SEAL HERE

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION



DATE FEBRUARY 6, 19 84
 OPERATOR'S WELL NO. 3611
 API WELL NO. 47-017-1944-DD
 STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WELL TYPE: OIL ___ GAS ___ LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW ___
 LOCATION: ELEVATION 953' WATER SHED MIDDLE ISLAND CREEK
 DISTRICT WEST UNION COUNTY DODDRIDGE
 QUADRANGLE WEST UNION 7.5 ACREAGE 97a
 SURFACE OWNER DONALD D. LEMASTERS
 OIL & GAS ROYALTY OWNER EDWIN CAIN (now WILLIAM M. CAIN) LEASE ACREAGE 97a
 LEASE NO. 3358
 PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER X REDRILL ___ FRACTURE OR STIMULATE ___ PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION HAVERTY ESTIMATED DEPTH 5335
 WELL OPERATOR CON. GAS TRANS. CORP. DESIGNATED AGENT L.J. TIMMS JR.
 ADDRESS 445 WEST MAIN STREET ADDRESS 445 WEST MAIN STREET
CLARKSBURG, WEST VIRGINIA CLARKSBURG, WEST VIRGINIA

APR 2 1984

4419

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

Perforated
Autz

Well Operator's Report of Well Work

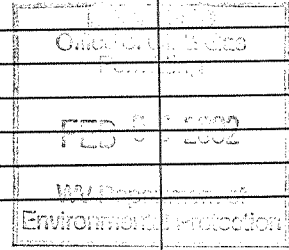
Farm name: Summers, Donald L. Operator Well No.: 3611

LOCATION: Elevation: 955' Quadrangle: West Union

District: West Union County: Doddridge
Latitude: 1,075 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 8,425 Feet West of 80 Deg. 47 Min. 30 Sec.

Company: Dominion Transmission, Inc

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 445 W Main Street Clarksburg, WV 26301				
Agent: Brian Sheppard				
Inspector: Tim Bennett				
Date Permit Issued: 10/24/2001		Please see	Original	
Date Well Work Commenced:		WR-35 for	Existing	
Date Well Work Completed: 12/14/2001		Casing	Program	
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Depth (feet): N/A				
Fresh Water Depth (ft.): N/A				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				



OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 2552-2562'
Gas: Initial open flow - MCF/d Oil: Initial open flow 0 Bbl/d
Final open flow 94 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 12 Hours
Static rock Pressure 280 psig (surface pressure) after 12 Hours

* Comingled w/previous formations

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: *Brian Sheppard*
By: Brian Sheppard
Date: 02-01-02

MR

MAR 08 2002

Done 1/14/02

COMPANY/WELL NO.: DTI 3611

12/14/01 PERFED AS FOLLOWS: TD AT 4404', TOC AT 1260'

01/22/2002

GORDON, 2552 - 2562', 20 HOLES, BD 1725#, AVG RATE 13 BPM, AVG PRESS 2104', 302 BBLs, TOT SAND
20,000#, ISIP 1850#



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(Rev) AUG 10 1984
OIL & GAS DIVISION
DEPT. OF MINES

Date August 5, 1984
Operator's Well No. 3611
Farm Edwin Cain
API No. 47 - 017 - 1044-DD

State of West Virginia
Department of Mines
Oil and Gas Division

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 953' Watershed Middle Island Creek
District: West Union County Doddridge Quadrangle West Union

COMPANY Consolidated Gas Transmission Corp.
ADDRESS 445 W. Main St., Clarksburg, WV
DESIGNATED AGENT W. A. Fox
ADDRESS 445 W. Main St., Clarksburg, WV
SURFACE OWNER Donald D. Lemasters
ADDRESS Middlebourne Star Rt., West Union, WV 26456
MINERAL RIGHTS OWNER William M. Cain
ADDRESS 204 Front St., West Union, WV 26456
OIL AND GAS INSPECTOR FOR THIS WORK Stephen Casev
ADDRESS Rt. 2, Box 232-D Jane Lew, WV 26301
PERMIT ISSUED March 29, 1984
DRILLING COMMENCED May 22, 1984
DRILLING COMPLETED June 2, 1984
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON

Casing & Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
6 5/8		1847	
5 1/2			
4 1/2	5340	5340	100 sks.
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Benson & Cedar Creek Depth See tops feet
Depth of completed well 5369 feet Rotary X / Cable Tools
Water strata depth: Fresh none feet; Salt feet
Coal seam depths: 559-560 Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Benson & Cedar Creek Pay zone depth See perf. feet
Gas: Initial open flow odor Mcf/d Oil: Initial open flow Bbl/d
Final open flow 179 Mcf/d Final open flow Bbl/d
Time of open flow between initial and final tests 2 hours
Static rock pressure 1560 psig (surface measurement) after 14 days hours-shut in
(If applicable due to multiple completion--)
Second producing formation Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

SEP 17 1984

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

Perforations: 5148 - 43, 5131 - 30 & 5128 - 22. Total 14 holes. *(Cedar Creek) Alexander*
Fractured with 720 bbls. water, 50,000# sand and 750 gals. acid.

Perforations: 4334 - 4330. Total 8 holes. *Riley?*
Fractured with 450 bbls. water, 30,000# sand and 750 gals. acid.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Pittsburgh Coal			559	560	
Dunkard			835	1025	
Salt			1375	1590	
Maxon			1690	1700	
Injun			1883	1995	
New Hole					
Shale			2010	2135	
Sand & Shale			2135	2550	
Sand			2550	2565	
Sand & Shale			2565	3235	
Sand			3235	3277	
Sand & Shale			3277	4408	
Sand & Shale Breaks			4408	4820	
Benson			4820	4850	
Shale			4850	5200	
Sand & Shale			5200	5230	
Shale			5230	5360	T.D.

*5360
2010

3350 DD ftg*

(Attach separate sheets as necessary)

Consolidated Gas Transmission Corp.

Well Operator

By: *J.P. Quinn* / Manager of Production

Date: _____ *W. E. Kelly*

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including coal, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
Oil and Gas Division
WELL RECORD

Quadrangle West Union
Permit No. 17-017-1944-Red

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

Company Consolidated Gas Supply Corp.
Address 445 W. Main St., Clarksburg, WV
Farm Edwin Cain Acres 97
Location (waters) Middle Island Creek
Well No. 3611 Elev. 938'
District West Union County Doddridge
The surface of tract is owned in fee by _____
Dale Moore, Jr.
Address Star Rt. 18 N, West Union, WV 26156
Mineral rights are owned by Edwin Cain Heirs
Address Various
Recondition Drilling - Commenced June 20, 1980
Recondition Drilling - Completed September 8, 1980
Initial open flow _____ cu. ft. _____ bbls.
Final production 0 cu. ft. per day _____ bbls.
Well open _____ hrs. before test _____ RP.

Casing and Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft. (Sks.)
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8			
7/ 6 5/8"		181.7	
5 1/2			
4 1/2			
3			
2	2000	2000	
Liners Used			

Attach copy of cementing record.

Well treatment details:
Pulled 2010' of 2" tubing. Bailed well.
Ran 2000' of 2" tubing with packer set at 1878'. 122' of anchor below packer.
Bailed well.
Could not get Open Flow Test - Not enough gas.

Coal was encountered at 559 Feet 12 Inches
Fresh water None Feet _____ Salt Water _____ Feet _____
Producing Sand Injun Depth _____

Formation	Color	Hard or Soft	Top Feet	Bottom Feet	Oil, Gas or Water	* Remarks
Pittsburgh Coal			559	560		
Dunkard			835	1025		
Salt			1375	1690		
Maxon			1690	1700		
Injun			1883	1995		
Total Depth				2010		

Consolidated Gas Supply Corp.
445 West Main Street
Clarksburg, West Virginia

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FEB - 4 1981

OIL & GAS DIVISION
DEPT. OF MINES

[Signature] Manager of Prod.
[Signature] February 3, 1981

MAR 9 1981



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

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JUN 23 1980

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 June 19, 1980

Surface Owner Dale Moore Jr.

Company Consolidated Gas Supply Corp.

Address Star Rt. 18, N. West Union, WV 26456

Address 445 W. Main St., Clarksburg, WV

Mineral Owner Edwin Cain Heirs

Farm Edwin Cain Acres 97

Address Various

Location (waters) _____

Coal Owner Unknown

Well No. 3611 Elevation 938'

Address _____

District West Union County Doddridge

Coal Operator None

Quadrangle West Union

Address _____

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 ^{re-}drilling. This permit shall expire if operations have not commenced by 2-25-81.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St., Clarksburg, WV

PHONE 622-3871

Robert S. [Signature]
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 April 28 1999 by Edwin Cain, et ux made to Carter Oil Company and recorded on the _____ day of _____ 19____, in Doddridge County, Book 16 Page 85

_____ NEW WELL _____ DRILL DEEPER _____ REDRILL _____ RECONDITION
_____ 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

Very truly yours,
(Sign Name) R. E. Bayne / dw
Well Operator

Address of Well Operator
Consolidated Gas Supply Corporation
Street
445 West Main Street
City or Town
Clarksburg, West Virginia 26301
State

BLANKET BOND

*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.

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

PROPOSED WORK ORDER TO _____ DRILL _____ DEEPEN X RECONDITION ~~RECONDITION~~
 DRILLING CONTRACTOR: (If Known) _____ RESPONSIBLE AGENT: _____
 NAME _____ Company Spudder NAME R. E. Bayne
 ADDRESS _____ ADDRESS Clarksburg, WV
 TELEPHONE _____ TELEPHONE 623-8440
 ESTIMATED DEPTH OF COMPLETED WELL: 2010 ROTARY _____ CABLE TOOLS X
 PROPOSED GEOLOGICAL FORMATION: Injun
 TYPE OF WELL: OIL _____ GAS X COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LIFT IN WELL	CEMENTED UP OR SACKS - CUBIC FT.
20 - 16	Pull 2" tubing, clean out to T.D. Log. Re-run tubing.		
13 - 10			
9 - 5/8			
8 - 5/8			
7			
5 1/2			
4 1/2			
3			
2			Perf. Top
Liners			Perf. Bottom
			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS _____ FEET SALT WATER _____ FEET
 APPROXIMATE COAL DEPTHS 550
 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



1) Date: March 26, 19 84
 2) Operator's Well No. ### 3611
 3) API Well No. 47 - 017 - 1944-DD
 State County Permit

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

- 4) WELL TYPE: A Oil / Gas X /
 B (If "Gas", Production X / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 938' Watershed: Middle Island Creek
 District: West Union County: Doddridge Quadrangle: West Union
 6) WELL OPERATOR Consolidated Gas Transmission Corp. 7) DESIGNATED AGENT William A. Fox
 Address 445 West Main Street Address 445 West Main Street
Clarksburg, West Virginia 26301 Clarksburg, West Virginia
 8) OIL & GAS INSPECTOR TO BE NOTIFIED 9) DRILLING CONTRACTOR:
 Name Stephen Casey Name S. W. Jack Drilling Co.
 Address Rt. 2, Box 232-D Address Indiana, Pa.
Jane Lew, WV 26378
 10) PROPOSED WELL WORK: Drill / Drill deeper X / Redrill / Stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) Drill all old casing.
 11) GEOLOGICAL TARGET FORMATION, Haverty
 12) Estimated depth of completed well, 5335 feet
 13) Approximate trata depths: Fresh, None feet; salt, feet.
 14) Approximate coal seam depths: 559-560 Is coal being mined in the area? Yes / No X

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 MAR 28 1984

OIL & GAS DIVISION
 DEPT. OF MINES

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS						FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS	
	Size	Grade	Weight per ft.	New	Used	For drilling	Left in well				
Conductor	1 3/4	H-40	10	X		600	###	600	###	To surface	Kinds
Fresh water											
Coal	7	H-40		X		1850		1850			
Intermediate											
Production	4 1/2	K55	10.5	X		5335		5335	250 Sks.		Depths set
Tubing											
Liners											Perforations:
											Top Bottom
											Unknown at this time.

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-1944-DD March 29, 19 84
 Date

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.

Permit expires March 29, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <u>BLANKET</u>	Agent: <u>[Signature]</u>	Plat: <u>[Signature]</u>	Casing: <u>[Signature]</u>	Fee: <u>000 - 257</u>
----------------------	---------------------------	--------------------------	----------------------------	-----------------------

[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.

Record of Shirley 9th District
Farm
 Well No. 3611
 Located on E. GAIN
 District West Union County Doddridge State W. Va.
 Location Made 7-24-14 First Work Done 7-24-14
 Rig Commenced 8-7-14 Rig Completed 8-14-14
 Drilling Commenced 9-17-14 Drilling Completed 10-12-14
 Rig Contractor Hope Natural Gas Co. Drilling Contractor F. J. Gillespie
 Drillers HARRY IRVINE F. J. Gillespie H. H. B. Co. Tool. String No.
 Tool Dressers EMERY TOOTHMAN Bert GAIN

85
12
60

FORMATION	TOP	BOTTOM	Steel Line Measurements	Water Found Depth	Oil Found Depth	Gas Found Depth	REMARKS
Native Coal	300	303	"				
Pittsburg Coal	559	560	"				
Little Dunkard	835	865	"				843 Not enough gas to test
Gas Sand	1190	1285	"				
First Salt	1375	1470	"				
Second Salt	1545	1690	"				
Maxon	1690	1700	"				
Little Lime	1785	1800	"				
Pencil Cave	1800	1811	"				
Big Lime	1811	1883	"				
Big Injun	1883	1890	"				1883 to 1890 Test 1/10 mercury b. opening
Squaw							
Berea							
Gantz							
Fifty Foot							
Thirty Foot							
Gordon Stray							
Gordon							
Fourth							
Fifth							
Seventh							
Total Depth	1893						Total depth cable measurements

SIZE	Charged to Well		Put in Well		Pulled Out		Left in Well		Transferred Below Completing		Left at Well Not in Use		If more than two strings of casing are left in hole, give reasons for leaving additional strings
	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	Foot	In.	
13" Csg.													
10" "	711	-	569	-	569	-					711	-	
8 1/2" "	1177	2	1090	-			1090				877		
6 5/8" "	1995	3	1847	-			1847				1483		
5 3/16" "													
Tbg.													

PACKER RECORD

SIZE	KIND	Amount Anchor	Amount Above Anchor	REMARKS
8 1/4"	Shoe			
8 1/4 x 6 5/8"	B.H. Packer			

SHOOTING RECORD (If shot before or upon completion of well)

DATE	Gauge	Top of Shell	Bottom of Shell	Diameter	Sand	Test Before Shot			Test After Shot			Test Taken After Shot No. Hours	By Whom Shot
						Reading	Liquid	Opening	Reading	Liquid	Opening		

CEMENTING RECORD

Date Cemented Not Cemented Hole Cemented..... Size Casing Cemented.....
 Top Pittsburg Coal..... Top Cementing..... Amount Cement Used.....
 Bottom Pittsburg Coal..... Bottom Cementing..... Amount Sand Used.....
 Mr. OCT 30 1914 H.E.S. of..... Coal Company on ground when coal was cemented
 Remarks:..... Signature of persons who cemented well

ENTERED
 WELL BOOK DEC. 1. 1914 G.A.
 LEASE RECORD
 LEASE DCKET
 WALL MAP OCT 25 1914 J.O.L.
 LOCATION BOOK OCT 30 1914 H.E.S.
 CONTRACTORS PLAT

Approved by C.P.A. N... Foreman
 PERMIT NO. - 017-1944