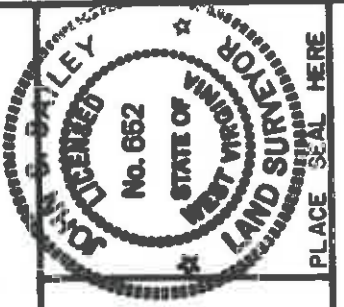


PREPARED BY MSES CONSULTANTS
 FILE NO. MSES 84-344
 DRAWING NO. _____
 SCALE 1"=1000'
 MINIMUM DEGREE OF ACCURACY 1/16"=200'
 PROVEN SOURCE OF ELEVATION ROAD JCI.RI.40.B.RI.23. EL. 966

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) John S. Bailey L.I.S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6
 (8-78)



DATE APRIL 3 19 84
 OPERATOR'S WELL NO. CNGD 819
 API WELL NO. 47-017-03307
 STATE WV COUNTY PERMIT

Department of Mines
 Oil & Gas Division

WELL TYPE: OIL X GAS X LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS", PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
 LOCATION: ELEVATION 1117.37 WATER SHED SOUTH FORK HUGHES RIVER
 DISTRICT SOUTHWEST COUNTY DODDRIDGE
 QUADRANGLE OXFORD 7.5' (1976) ACREAGE 723
 SURFACE OWNER A.S. SCHWARTZMAN
 OIL & GAS ROYALTY OWNER D.C. STOUT HEIRS LEASE NO. 41996 LEASE ACREAGE 161

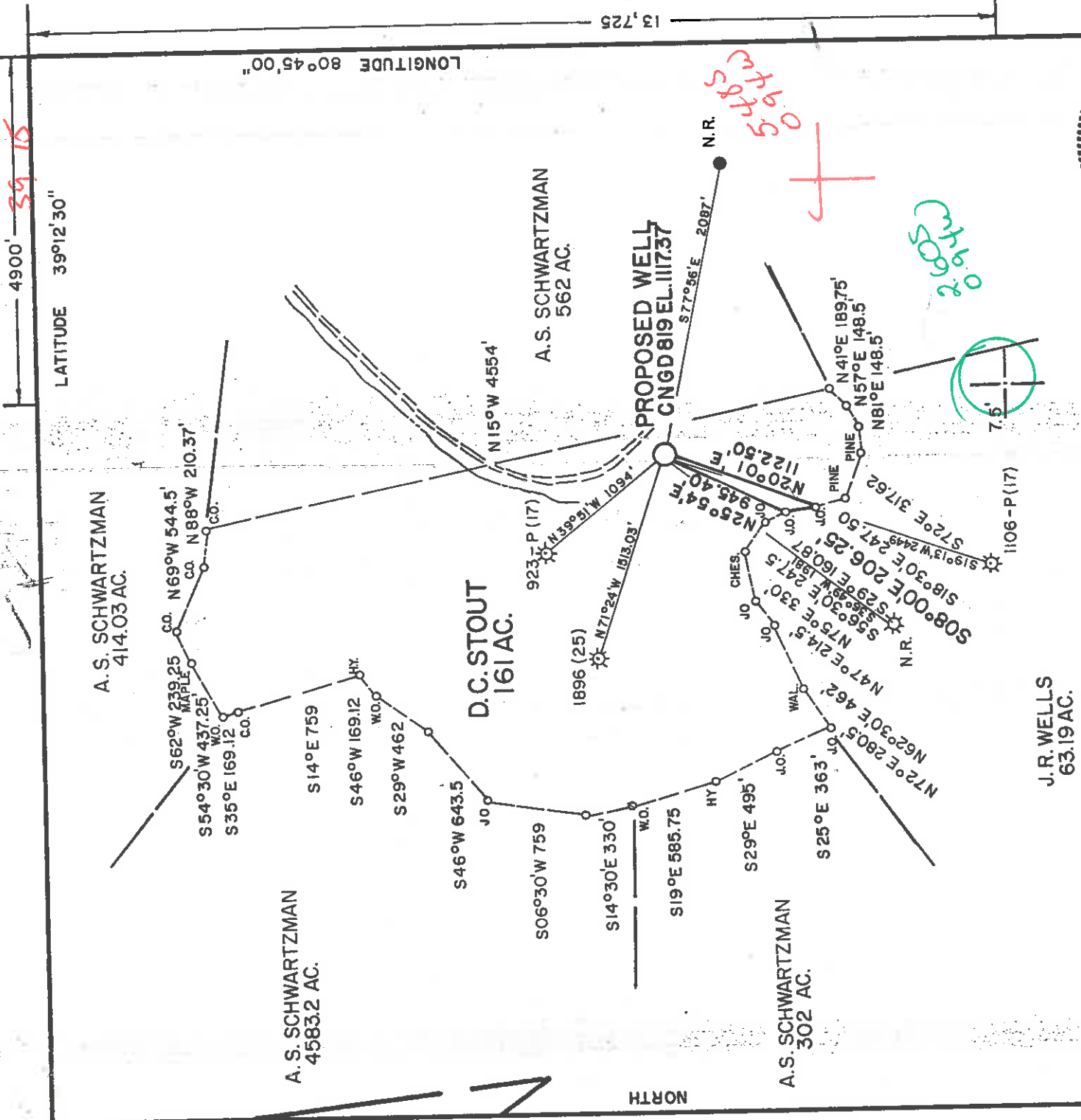
PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE _____
 PLUG OFF OLD FORMATION _____ PERFORATE NEW APR 10 1986
 FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON _____ CLEANOUT AND REPLUG _____ ESTIMATED DEPTH 5500' with alpha
 TARGET FORMATION ALEXANDER

CNG Producing Company
 Rt. 2, Box 698, Gresswind Corp. park
 Bridgeport, Wva. 26330-0698

Redney J. Biggs, Agent
 Same Address
 PH: 304-623-8840

m, WV

DODD. 3330



PREPARED BY MSES CONSULTANTS

FILE NO. MSES 84-344

DRAWING NO. _____

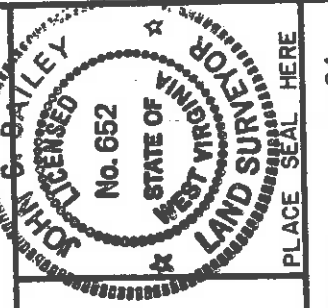
SCALE 1"=1000'

MINIMUM DEGREE OF ACCURACY 1/16" IN 200

PROVEN SOURCE OF ELEVATION ROAD JCT. RT. 40.8 RT. 23
EL. 966

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) John S. Bailey
L.S.S. 652



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

FORM IV-6
(8-78)

DATE APRIL 3, 19 84

OPERATOR'S WELL NO. CNGD 819

API WELL NO. 47-017-3330-F

STATE WV COUNTY PUTNAM PERMIT

Department of Mines
Oil & Gas Division

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL SHALLOW DEEP

(IF "GAS", PRODUCTION STORAGE WATER SHED SOUTH FORK HUGHES RIVER

LOCATION: ELEVATION 1117.37 DISTRICT SOUTHWEST COUNTY DODDRIDGE

QUADRANGLE OXFORD 7.5 (1976) ACREAGE 723

SURFACE OWNER A.S. SCHWARTZMAN LEASE NO. 41996

OIL & GAS ROYALTY OWNER D.C. STOUT HEIRS LEASE ACREAGE 161

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

PLUG AND ABANDON CLEAN OUT AND REPLUG ESTIMATED DEPTH 5500'

TARGET FORMATION ALEXANDER DESIGNATED AGENT GARY A. NICHOLAS

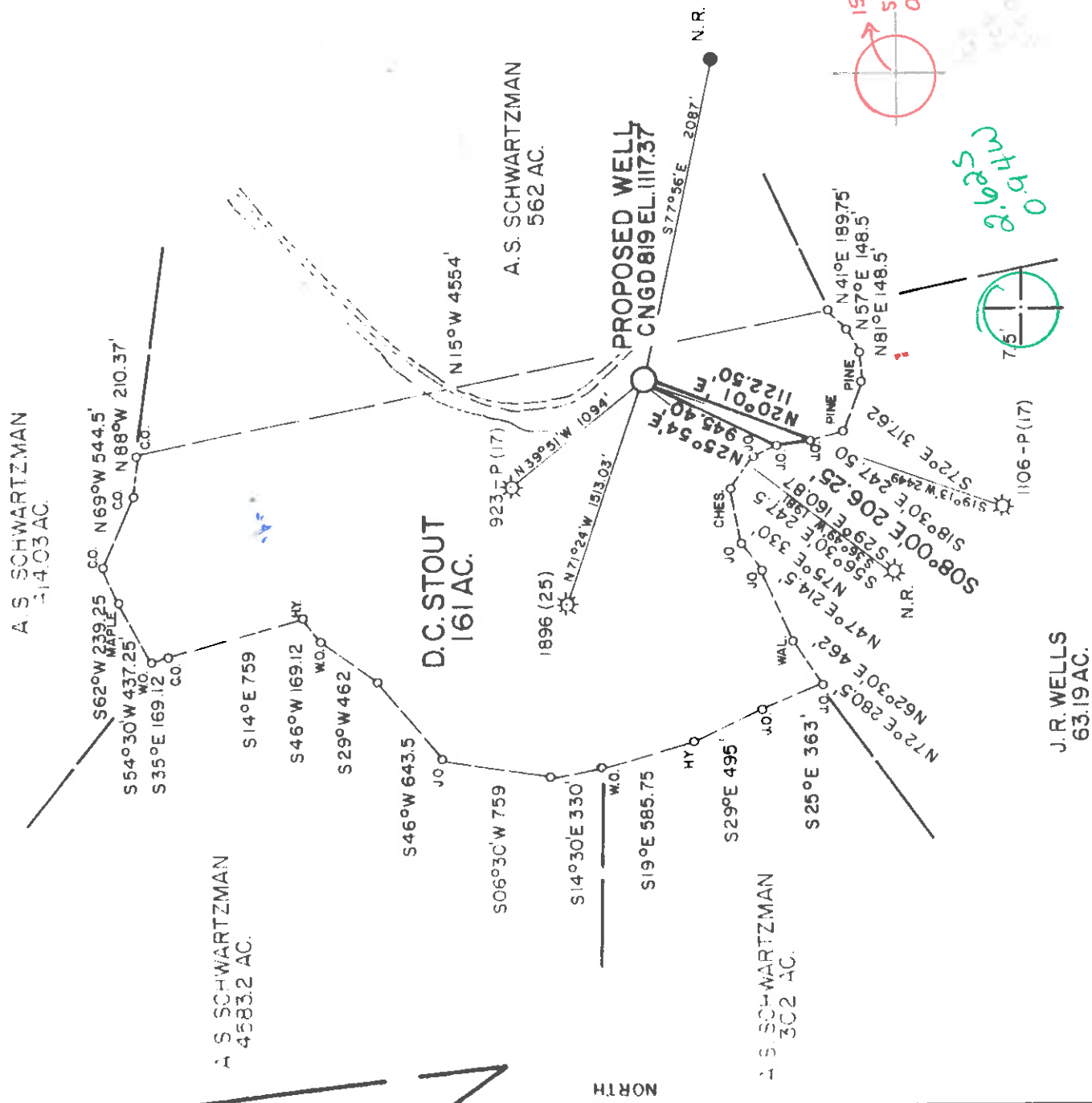
WELL OPERATOR CNG DEVELOPMENT COMPANY ADDRESS CROSSWIND CORPORATE PARK

ADDRESS ONE PARK RIDGE CENTER ADDRESS BRIDGEPORT, WV 26330

PITTSBURGH, PA 15244

ALLEN BLUEPRINT Co. 4/17/84 Charleston, WV

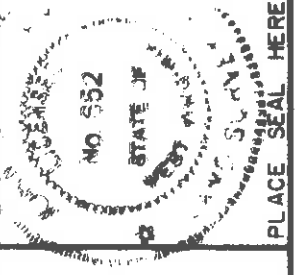
LATITUDE 39°12'30" LONGITUDE 80°45'00"



PREPARED BY MSES CONSULTANTS

FILE NO. MSES 84-344
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/16" 200'
 PROVEN SOURCE OF ELEVATION ROAD JCT. RT. 40 & RT. 23 EL. 966'

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) Robt. A. Bailey
 P.E. L.L.S. 652



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 FORM IV - 6
 (8 - 78)



Department of Mines
 Oil & Gas Division

DATE APRIL 3, 1984
 OPERATOR'S WELL NO. CNGD 819
 API WELL NO. 47 - 017 - 3330
 STATE WV COUNTY JEFFERSON PERMIT 3330

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____
 (IF "GAS" PRODUCTION STORAGE _____ DEEP _____ SHALLOW _____
 LOCATION ELEVATION 1117.37 WATER SHED SOUTH FORK HUGHES RIVER
 DISTRICT SOUTHWEST 7 COUNTY DODDRIDGE 17 NE 3
 QUADRANGLE OXFORD 7.5 (1976) 526 HOLBROOK 030 15' ACREAGE 723
 SURFACE OWNER A.S. SCHWARTZMAN
 OIL & GAS ROYALTY OWNER D.C. STOUT HEIRS LEASE ACREAGE 161
 LEASE NO. 41996

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

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____ ESTIMATED DEPTH 5500'
 TARGET FORMATION ALEXANDER
 WELL OPERATOR CNG DEVELOPMENT COMPANY DE SIGNED AGENT GARY A. NICHOLAS
 ADDRESS ONE PARK RIDGE CENTER BRIDGEPORT, WV. 26330

ALLEN BLUEPRINT Co. 6-6 Straight Fork, West Virginia (133) MAY 21 1984
 Charleston, WV

3

end

arr

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

JUN 07 1996

Permitting Well Operator's Report of Well Work

Office of Oil & Gas

Farm name: MORRIS, I.L.

Operator Well No.: CNGP 819

LOCATION: Elevation: 1,282.56 Quadrangle: OXFORD

District: SOUTHWEST County: DODDRIDGE
Latitude: 14600 Feet South of 39 Deg. 15Min. 0 Sec.
Longitude 8775 Feet West of 80 Deg. 45 Min. 0 Sec.

Company: CNG PRODUCING COMPANY

ROUTE 2, BOX 698
BRIDGEPORT, WV 26330-0698

Agent: RODNEY J. BIGGS

Inspector: MIKE UNDERWOOD

Permit Issued: 04/18/96

Well work Commenced: 05/02/96

Well work Completed: 05/30/96

Verbal Plugging

Permission granted on: Rig

Rotary Cable 5236'

Total Depth (feet) 5236'

Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N)?

Coal Depths (ft):

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
Installed 157 Jts. 2.375" Tbg. = 5113'			

OPEN FLOW DATA

Big Injun.

Producing formation Maxton

1995-2007

Gas: Initial open flow MCF/d Oil: Initial open flow (ft) 1669-1686 Bbl/d

Final open flow * 400 MCF/d Final open flow n/a Bbl/d

Time of open flow between initial and final tests 4 Hours

Static rock Pressure 127 psig (surface pressure) after 12 Hours

* Comingle with existing production

Second producing formation

Gas: Initial open flow MCF/d Oil: Initial open flow (ft) 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.

Rodney J. Biggs

Rodney J. Biggs

For: CNG PRODUCING COMPANY

By: Rodney J. Biggs, Production Manager, Appalachian Region

Date: 05-31-96

JUN 14 1996

nk

CNGP WORKOVER 819
5/2/96 - Young Wireline perforated

Big Injun, 1995 - 2007', 32 holes
Maxton, 1669-1686', 24 holes

5/3/96 - Nowsco Fraced

	Injun	Maxton
Plug	2037'	1692
T. Fluid	426	456
T. Sand	5 + 20	5 + 25
T. Acid	750	500
Ave. Rate	30	26
Ave. Press.	1950	2350
F. G.	.93	1.2

5/28/96 - Installed 157 Jts. 2.375" Tbg. = 5115

5/30/96 - F.O.F. = 400 MCFD

5/30/96 - T.B.I.L.

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JUL 30 1986



IV-35
(Rev 8-81)

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia

Department of Mines

Oil and Gas Division

Date July 10, 1984

Operator's

Well No. CNGD 819

Farm Stout

API No. 47 - 017 - 3330

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 X /)

LOCATION: Elevation: 1117.37 Watershed South Fork Hughes River

District: Southwest County Doddridge Quadrangle Oxford

COMPANY CNG DEVELOPMENT COMPANY

ADDRESS P. O. Box 15746, Pittsburgh, Pa 15275

DESIGNATED AGENT Gary A. Nicholas

ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330

SURFACE OWNER A. S. Schwartzman

ADDRESS 2520 30th Street

Washington, DC 20008

MINERAL RIGHTS OWNER Jean S. Mary S. Gulnak

ADDRESS 19842 W Ave/Oaks 32 Luther Ln

Newhall, CA 91321 Hannibal, MO

64301

OIL AND GAS INSPECTOR FOR THIS WORK

Howard Rt. 2 Box 114

Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED 5-14-84

DRILLING COMMENCED 5-31-84

DRILLING COMPLETED 6-6-84

IF APPLICABLE: PLUGGING OF DRY HOLE ON

CONTINUOUS PROGRESSION FROM DRILLING OR

REWORKING. VERBAL PERMISSION OBTAINED

CN

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1555	1555	To Surf
7			
5 1/2			
4 1/2	5303	5303	515 sks
3			
1 1/2	5115	5115	--
Liners used			

GEOLOGICAL TARGET FORMATION Alexander ⁴⁰ Depth 5500 feet

Depth of completed well 1805 feet Rotary X / Cable Tools

Water strata depth: Fresh 1855 feet; Salt feet

Coal seam depths: 1310 - 1315 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Speechly 5131 - 5211 3302 - 3368 feet

Gas: Initial open flow - Mcf/d Oil: Initial open flow - Bbl/d

Final open flow 368 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 500 psig (surface measurement) after 24 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

DEC 15 1980

(Continue on reverse side)

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

Perfo Perforated - Alexander; 5131 - 5211; 12 holes (.39)
 Speechly; 3302 - 3368; 9 holes (.39)
 Halliburton Foam Fractured - Alexander; 500 gal MOD 202 Acid, 55,000# Sand, 864 BBL Foam &
 750,000 SCFN₂
 Halliburton Water Fractured - Speechly; 500 gal MOD 202 Acid, 50,000# Sand, 624 BBL Water,
 100,000 SCFN₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
Clay			0	10	Including indication of all fresh and salt water, coal, oil and gas
Sh, sd, & RR			10	1310	1" Stream Water @ 40' Hole Damp @ 1805'
Coal			1310	1315	Soap Pump on hole @ 1855'
Sh, sd & RR			1315	1855	
Big Lime			1855	1935	
Injun			1935	2050	
Sh & Sd			2050	5350	
<u>LOG TOPS</u>					
L. Lime			1850	1865	
B. Monday			1883	1903	
B. Lime			1906	1950	
B. Injun			1960	2046	
Weir			2180	2293	
Gantz			2385	2393	
Gordon Stray/Gordon			2590	2745	
4th			2756	2785	
5th			2850	2904	
Warren			3254	3281	
U. Speechley			3492	3526	
Balltown Section			3820	4062	
Bradford			4360	4455	
Riley			4633	4790	
Benson			4866	4872	
Leopold			4984	5008	
Alexander			5112	5216	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By:



Date: July 10, 1984

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 wells, encountered in the drilling of a well."

RECEIVED
DEC 10 1986

IV-35
(Rev 8-81)
DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY



State of West Virginia
Department of Mines
Oil and Gas Division

Date November 6, 1986
Operator's
Well No. CNGD WN 819
Farm Stout
API No. 47 - 017 - 3330-F

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 X /)

LOCATION: Elevation: 1117.37 Watershed South Fork Hughes River
District: Southwest County Doddridge Quadrangle Oxford

COMPANY CNG Development Company
ADDRESS P.O. Box 15746
Pittsburgh, PA 15244
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Rt. 2 Box 698
Bridgeport, WV 26330
SURFACE OWNER A. S. Schwartzman
ADDRESS 2520 30th Street
Washington, DC 20008
MINERAL RIGHTS OWNER Jean S. Mark S.
Guinak
ADDRESS 19842 W Ave/Oaks 32 Luther Lane
Newhall, CA 91321 Hannibal, MO
64301

OIL AND GAS INSPECTOR FOR THIS WORK

Mike Underwood ADDRESS Rt. 2, Box 1426
Salem, WV 26426

PERMIT ISSUED August 21, 1986

DRILLING COMMENCED May 31, 1984 8/21/86

DRILLING COMPLETED June 6, 1984 8/21/86

IF APPLICABLE: PLUGGING OF DRY HOLE/ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8			
7			
5 1/2			
4 1/2			
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION _____ Depth _____ feet

Depth of completed well _____ feet Rotary _____ / Cable Tools _____

Water strata depth: Fresh _____ feet; Salt _____ feet

Coal seam depths: _____ Is coal being mined in the area? _____

OPEN FLOW DATA

Producing formation _____ Well _____ Pay zone depth 2190-2284 _____ feet

Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d

Final open flow 103 Mcf/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ hours

Static rock pressure 110 psig (surface measurement) after 24 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

(Continue on reverse side) DFC 154986

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

Perforated Well: 2284 - 2274, 10 shots, 2269 - 2252, 22 shots, 2231 - 2224, 10 shots, 2216 - 2209, 12 shots, 2197 - 2190, 8 shots.

Halliburton Foam Frac - Breakdown 2400, Ave HHP 4 pumps, Ave Rate 30 BPM, Ave Pres. 2750
 Max Tr Pres. 2980, Total Acid 1000 gal, Total Sand 155,000# 20/40, 10,000# 80/100,
 Max. Conc. 7#/gal, Total Fluid 635, SL Fluid 527, ISIP 2100, 5 min 2075, Total Nit. 850.

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fies and salt water, coal, oil and ga

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY
Well Operator

By:



Date:

November 6, 1986

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."

RECEIVED



IV-35
(Rev 8-81)

AUG - 9 1984

State of West Virginia

OIL & GAS DIVISION
DEPT. OF MINES

Department of Mines
Oil and Gas Division

Date July 10, 1984

Operator's
Well No. CNGD 819

Farm Stout

API No. 47 - 017 - 3330

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 X /)

LOCATION: Elevation: 1117.37 Watershed South Fork Hughes River
District: Southwest County Doddridge Quadrangle Oxford

COMPANY CNG DEVELOPMENT COMPANY
ADDRESS P. O. Box 15746, Pittsburgh, Pa 15275
DESIGNATED AGENT Gary A. Nicholas
ADDRESS Rt. 2 Box 698, Bridgeport, WV 26330
SURFACE OWNER A. S. Schwartzman
2520 30th Street
ADDRESS Washington, DC 20008
MINERAL RIGHTS OWNER Jean S. Mary S.
19842 W Ave/Oaks Gulnak
ADDRESS Newhall, CA 91321 JZ Turner In
Hannibal, MO 64501

OIL AND GAS INSPECTOR FOR THIS WORK
Howard Rt. 2 Box 114
Underwood ADDRESS Salem, WV 26426

PERMIT ISSUED 5-14-84

DRILLING COMMENCED 5-31-84

DRILLING COMPLETED 6-6-84

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
CN

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16 Cond.			
13-10"			
9 5/8			
8 5/8	1555	1555	To Surf
7			
5 1/2			
4 1/2	5303	5303	515 sks
3			
1 1/2	5115	5115	--
Liners used			

GEOLOGICAL TARGET FORMATION Alexander⁴⁰ Depth 5500 feet

Depth of completed well 1805 feet Rotary X / Cable Tools

Water strata depth: Fresh 1855 feet; Salt feet

Coal seam depths: 1310 - 1315 Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Alexander Speechly Pay zone depth 5131 - 5211 / 3302 - 3368 feet

Gas: Initial open flow - Mcf/d Oil: Initial open flow - Bbl/d

Final open flow 368 Mcf/d Final open flow Bbl/d

Time of open flow between initial and final tests hours

Static rock pressure 500 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow :cf/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 4 1984 (Continue on reverse side)

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

Perfo Perforated - Alexander: 5131 - 5211; 12 holes (.39)
 Speechly: 3302 - 3368; 9 holes (.39)
 Halliburton Foam Fractured - Alexander: 500 gal MOD 202 Acid, 55,000# Sand, 864 BBL Foam &
 750,000 SCFN₂
 Halliburton Water Fractured - Speechly: 500 gal MOD 202 Acid, 50,000# Sand, 624 BBL Water,
 100,000 SCFN₂

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all fresh and salt water, coal, oil and gas
Clay			0	10	1" Stream Water @ 40'
Sh, Sd, & RR			10	1310	Hole Damp @ 1805'
Coal			1310	1315	Soap Pump on hole @ 1855'
Sh, Sd & RR			1315	1855	
Big Lime			1855	1935	
Injun			1935	2050	
Sh & Sd			2050	<u>5350</u>	
<u>LOG TOPS</u>					
L. Lime			1850	1865	
B. Monday			1883	1903	
B. Lime			1906	1950	
B. Injun			1960	2046	
Weir			2180	2293	
Gantz			2385	2393	
Gordon Stray/Gordon			2590	2745	
4th			2756	2785	
5th			2850	2904	
Warren			3254	3281	
U. Speechley			3492	3526	
Balltown Section			3820	4062	
Bradford			4360	4455	
Riley			4633	4790	
Benson			4866	4872	
Leopold			4984	5008	
Alexander			5112	5216	

(Attach separate sheets as necessary)

CNG DEVELOPMENT COMPANY

Well Operator

By: 

Date: July 10, 1984

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
 well, encountered in the drilling of a well."



1) Date: July 14, 1986
 2) Operator's Well No. 819 W
 3) API Well No. 47-017-3330-F
 State County Permit

RECEIVED
 JUL 30 1986

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

4) WELL TYPE: A Oil Gas Underground storage Deep Shallow
 B (If "Gas", Production South Fork Hughes River
 Elevation: 1117.37 Watershed: Oxford 525
 District: Southwest 467 County: Doddridge
 5) LOCATION: DESIGNATED AGENT Gary Nicholas
 6) WELL OPERATOR: CNG Development Co. CODE: 10110 Address: Crosswind Corporate Park
 Rt. 2, Box 698, Bridgeport, WV 26330
 Address: Paul W. Garrett, P.O. Box 15746
 Pittsburgh, PA 15244
 7) DRILLING CONTRACTOR:
 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name: Sam-Jack Drilling Co.
 Address: P.O. Box 48
 Buckhannon, WV 26201
 Address: Salem, WV 26426 Redrill Stimulate

10) PROPOSED WELL WORK: Drill deeper Plug off old formation Perforate new formation
 Other physical change in well (specify) See attached sheet

11) GEOLOGICAL TARGET FORMATION, Weir 387 feet
 12) Estimated depth of completed well, 2280 feet
 13) Approximate trata depths: Fresh, salt, Is coal being mined in the area? Yes No
 14) Approximate coal seam depths:

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS		New	Used	FOOTAGE INTERVALS		PACKERS
	Size	Grade			Weight per ft.	For drilling	
Conductor							
Fresh water							
Coal	8 5/8				1555	CTS	
Intermediate	4 1/2				5303	515 SKS	
Production	1 1/2				5115		
Tubing							
Lin.							

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3330-F W Date August 21, 1986

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 August 21, 1988 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: ✓	Agent: ALB	Plat: BS	Casing Fee: 1467	WPCP Fee: 134	SEP	Other
---------	------------	----------	------------------	---------------	-----	-------

NOTE: Keep one copy of this permit posted at the drilling location.
 Director, Division of Oil and Gas File

1467

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.



1) Date: April 24, 19 84
 2) Operator's Well No. 819
 3) API Well No. 47 - 017 - 3330 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 Underground storage Deep Shallow
 B (If "Gas", Production
 Elevation: 1117.37 Watershed: South Fork Hughes River
 District: Southwest County: Doddridge Quadrangle: Oxford
 7) DESIGNATED AGENT Mr. Gary Nicholas
 Address Crosswind Corporate Park
Rt. 2, Box 698, Bridgeport, WV 26330
 9) DRILLING CONTRACTOR:
 Name Sam Jack Drilling Company
 Address P. O. Box 48
Buckhannon, WV
Stimulate

10) PROPOSED WELL WORK: Drill deeper Redrill Perforate new formation
 Plug off old formation Other physical change in well (specify) _____
Alexander

11) GEOLOGICAL TARGET FORMATION, Alexander 5300 feet
 12) Estimated depth of completed well, 141, 1221, 1365 feet; salt, _____
 13) Approximate strata depths: Fresh, 1221-26, 1411-13 is coal being mined in the area? Yes _____
 14) Approximate coal seam depths: 1416-18, 1441-45

CASING OR TUBING TYPE	Size	Grade	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cubic feet)	PACKERS
			Weight per ft.	New	Used	Left in well		
Conductor	11-3/4	H-40	42	X		40	To surface	By Rule 15.05
Fresh water								
Coal	8-5/8	X-42	23	X	1525	1525	To surface	By Rule 15.05
Intermediate	4-1/2	J-55	10.5	X	5300	5300	200-400 sks	Depths set By Rule 15.01
Production	1-1/2	CN-55	2.75	X				Perforations: Top _____ Bottom _____
Tubing								
Liners								

OFFICE USE ONLY
 DRILLING PERMIT

Permit number 47-017-3330 Date May 14, 1984

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. May 14, 1986 unless well work is commenced prior to that date and prosecuted with due diligence.
 Permit expires _____

Bond: <u>BLANKET</u>	Agent: <u>[Signature]</u>	Plat: <u>T-5</u>	Casing <u>TS</u>	Fee <u>001-041</u>
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[Signature]
 Administrator, Office of Oil and Gas

NOTE: Keep one copy of this permit posted at the drilling location.
 See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

File

017-3330-Frac

RECEIVED
WV Division of
Environmental Protection

FORM WW-2B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

APR 02 1998 WELL WORK PERMIT APPLICATION

526

Permitting 0146

3) Elevation: 1117.37'

1) Well Operator: CNGP 819W

2) Operator's Well Number: 0146 or Gas X

Well type: (a) Oil / or Gas X / Underground Storage
(b) If Gas: Production X / Deep 371 / Shallow

21802

Maxton, Big Injun

Proposed Target Formation(s): 1672-1688 feet

Proposed Total Depth: 1996-2010 feet

Approximate fresh water strata depths: _____

Approximate salt water depths: _____

Approximate coal seam depths: _____

8) Approximate coal seam depths: _____ Yes / No /

9) Approximate coal seam depths: _____

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

11) Proposed Well Work: Perforate and Frac proposed zones. Clean well up. Commingle with existing zones.

12) _____

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft.	For drilling	Left in well	
Conductor						
Fresh Water						
Coal				1555'	1555'	To surf.
Intermediate	8 5/8"			5303'	5303'	515 sks.
Production	4 1/2"			5115'	5115'	---
Tubing	1 1/2"					
Liners						

PACKERS : Kind _____

Sizes _____

Depths set _____

01910
01911
01912
01913
01914
01915
01916
01917
01918
01919
01920

Fee(s) paid: _____

plat _____

WW-9 _____

Bond _____

(Type) _____

For Division of Oil and Gas Use Only

Reclamation Fund

WPCP Agent

RECEIVED
WV Division of
Environmental Protection
APR 02 1996

1) Date: 3-28-96
2) Operator's Well Number
CNGP 819W
3) API Well No: 47 - 017 - 3330

Permitting
Office of Gas

STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT
DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

State County Permit

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4)

Surface Owner(s) to be served:

(a) Name I. L. Morris

Address P. O. Box 397

Glennville, WV 26351

(b) Name _____
Address _____

(c) Name _____
Address _____

5) (a) Coal Operator:
Name _____
Address _____

(b) Coal Owner(s) with Declaration
Name I. L. Morris
Address P. O. Box 397
Glennville, WV 26351

Name _____
Address _____

(c) Coal Lessee with Declaration
Name _____
Address _____

6) Inspector Mike Underwood
Address _____

Telephone (304) - 288-4604 (Cellular)

782-1043 (Home)

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

8(d) of the Code of West Virginia required by Chapter 22, Article 6, Section

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 agree

familiar with the information submitted on this application form and am

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 Rodney J. Biggs

By: CNG Producing Company

Its: Designated Agent - Production Manager, Appalachian Region

Address Rt. 2, Box 698, Crosswind Corp. Park

Bridgeport, WV 26330

Telephone (304) 623-8840



Subscribed and sworn before me this 28th day of March, 1996

Nancy D. Colton
My Commission expires _____

09-26-2003

Nancy D. Colton

Notary Public

NR