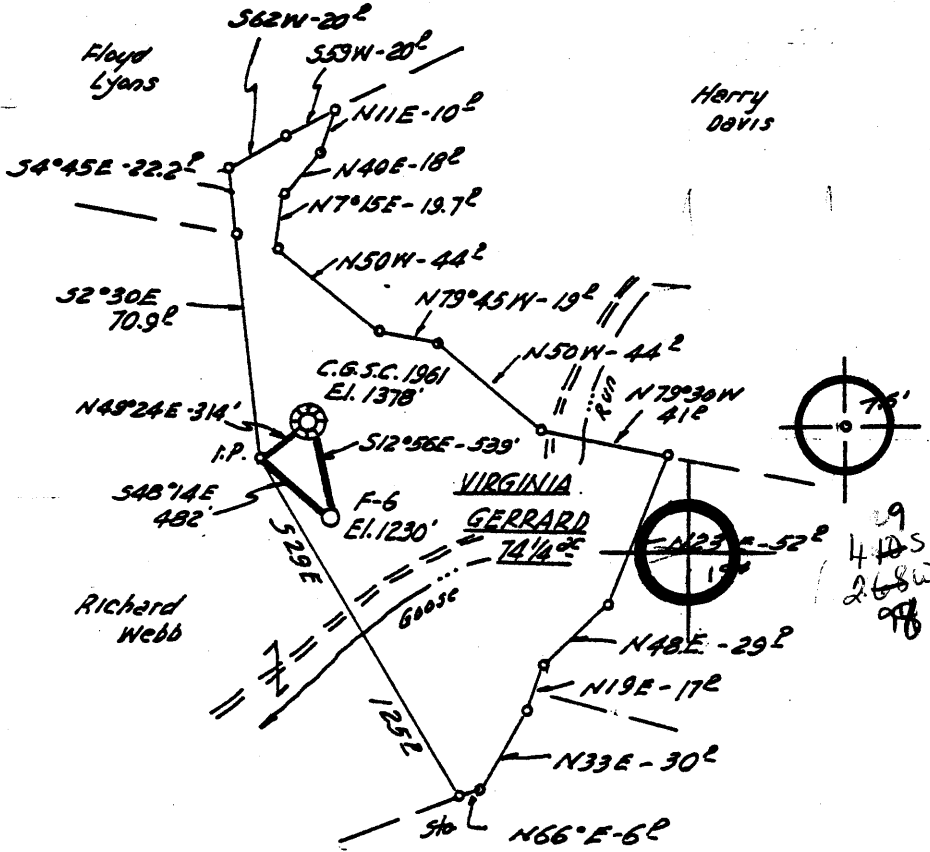


LATITUDE 39°27'30"
(15') 39°30'

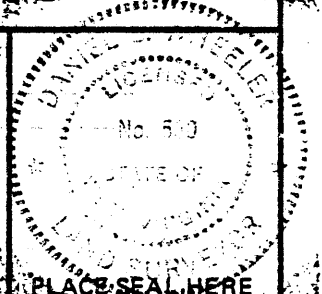
(15') 80°25'
LONGITUDE 80°27'30"

NORTH



FILE NO. _____
DRAWING NO. _____
SCALE 1"=1000'
MINIMUM DEGREE OF ACCURACY 1 PART IN 200
PROVEN SOURCE OF ELEVATION C.G.S.C. WELL 1961
ELEV. 1378'

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) Daniel L. Wheeler
R.P.E. _____ L.L.S. 530



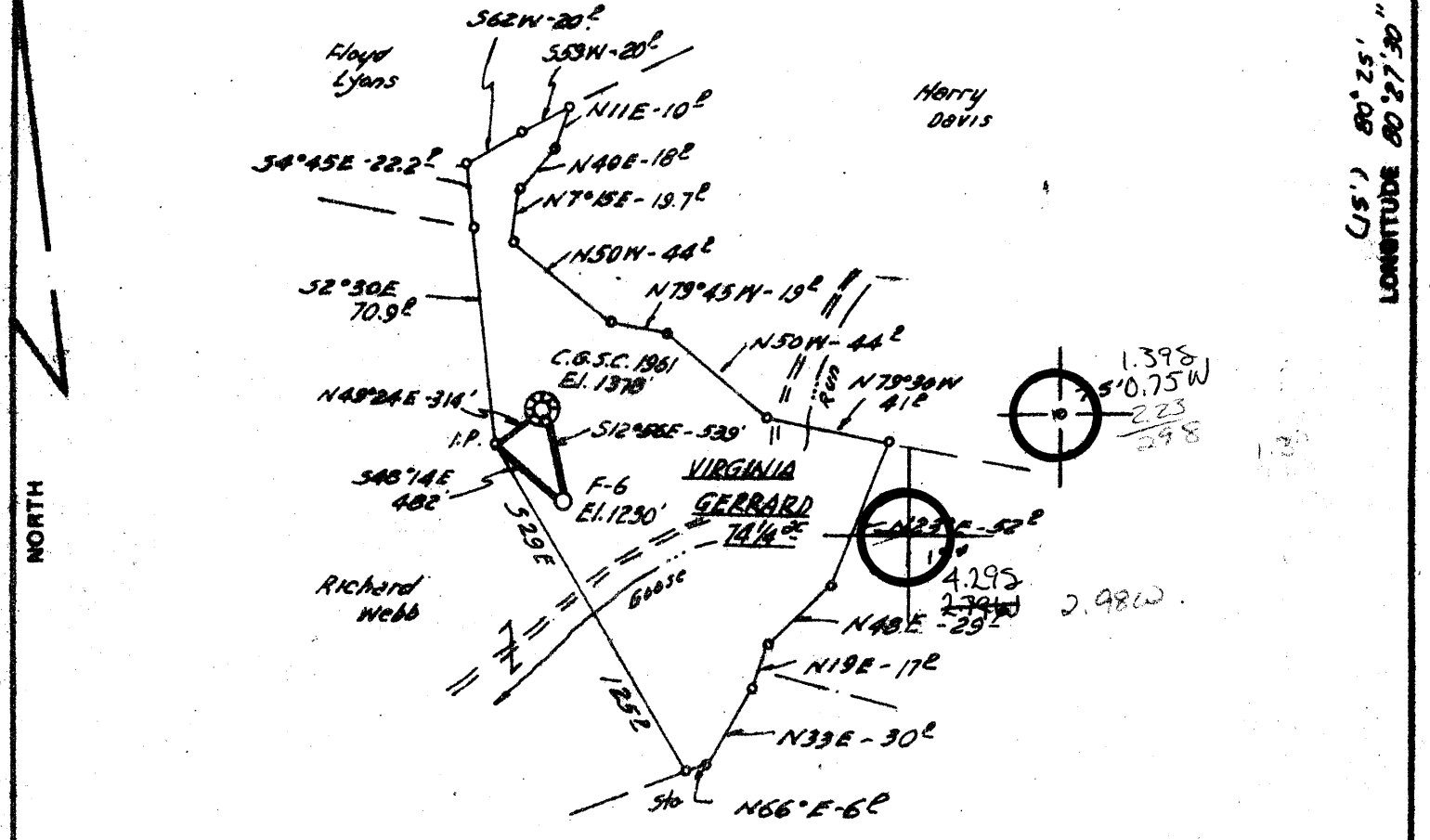
(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
FORM IV-6
(8-78)



DATE APRIL 21, 19 80
OPERATOR'S WELL NO. F-6 J-251
API WELL NO. 47 - 033 - 2540
STATE COUNTY PERMIT
Formerly 033 - 2354

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

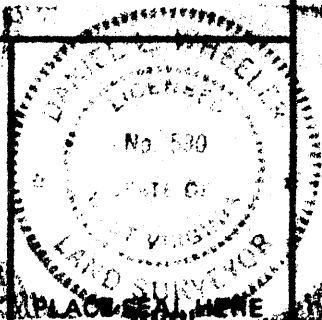
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1230' WATER SHED GOOSE RUN
DISTRICT SARDIS COUNTY HARRISON
QUADRANGLE WALLACE 7.5' CLARKSBURG 15' NW
SURFACE OWNER ALLEN GERRARD + VIRGINIA GERRARD ACREAGE 74 1/4
OIL & GAS ROYALTY OWNER VIRGINIA GERRARD LEASE ACREAGE 74 1/4
LEASE NO. F-6
PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5400'
WELL OPERATOR J.J. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BUCKHANNON, W. VA. 26201 BUCKHANNON, W. VA. 26201



NORTH

FILE NO. _____
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1 PART IN 200
 PROVEN SOURCE OF ELEVATION C.G.S.C. WELL 1961
ELEV. 1378'

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) Daniel L. Wheeler
 R.P.E. _____ L.L.S. 530



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



DATE APRIL 21, 19 80
 OPERATOR'S WELL NO. F-6 J-251
 API WELL NO. _____
47 - 033 - 2354
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
 (IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
 LOCATION: ELEVATION 1230' WATER SHED GOOSE RUN
 DISTRICT JARDIS COUNTY HARRISON
 QUADRANGLE NALLAGE 7.5' CLARKSBURG 15' NW
 SURFACE OWNER ALLEN GERRARD + VIRGINIA GERRARD ACREAGE 7 1/4
 OIL & GAS ROYALTY OWNER VIRGINIA GERRARD LEASE ACREAGE 7 1/4
 LEASE NO. F-6
 PROPOSED WORK: DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR
 STIMULATE X PLUG OFF OLD FORMATION ___ PERFORATE NEW
 FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON ___ CLEAN OUT AND REPLUG ___
 TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5000'
 WELL OPERATOR J.T. ENTERPRISES, INC. DESIGNATED AGENT HARRY BARNETT
 ADDRESS P.O. BOX 48 ADDRESS P.O. BOX 48
BECKLINGTON, W. VA. 26021 BECKLINGTON, W. VA. 26021

033 2540

RECEIVED

JUL 15 1983

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

Date: _____
Operator's Well No. J-251
API Well No. 47 033 2540
State County Permit

JUL 25 1983

OIL & GAS DIVISION
DEPT. OF MINES

WELL OPERATOR'S REPORT
OF
DRILLING, FRACURING 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: 1230' Watershed: Goose Run
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

WELL OPERATOR J&J Enterprises, Inc. DESIGNATED AGENT Richard Reddecliff
Address P.O. Box 48 Address P.O. Box 48
Buckhannon, WV 26201 Buckhannon, WV 26201

PERMITTED WORK: Drill X / Convert ___ / Drill deeper ___ / Redrill ___ / Fracture or stimulate ___
Plug off old formation ___ / Perforate new formation ___ /
Other physical change in well (specify) _____

PERMIT ISSUED ON 10/12, 19 82 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Stephen Casey
Address Rt. # 2, Box 232-D
Jane LEW, WV 26378

GEOLOGICAL TARGET FORMATION: Alexander Depth _____ feet
Depth of completed well, 4359 feet Rotary X / Cable Tools ___
Water strata depth: Fresh, 100 feet; salt, None feet.
Coal seam depths: 20-23, 335-38, 920-25 Is coal being mined in the area? No
Work was commenced 11/15, 19 82, and completed 11/21, 19 82

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		
Conductor	113/4	H-40	42	x		36	36	0 sks. Hinds
Fresh water	85/8	ERW	23	x		1299.20	1299.20	290 sks.
Coal	85/8	ERW	23	x		1299.20	1299.20	290 sks. Sizes
Intermediate								
Production	4 1/2	J-55	10.5	x		3212	3212	135 sks. Centins set
Tubing								
Liners								Perforations:
								Top Bottom
								3011 3052
								2813 2827
								2894 2896

OPEN FLOW DATA

Producing formation Gordon & Gordon Stray *del* 6000 pay zone depth 3011-3052
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ bbl/d
Combined Final open flow, 30 Mcf/d Final open flow, _____ bbl/d
Time of open flow between initial and final tests, 4 hours
Static rock pressure, 220 psig (surface measurement) after 96 hours shut in
(If applicable due to multiple completion--)
Second producing formation 30ft., 50ft. and 5th Sand pay zone depth 2813 - 27
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

Bottom Hole Pressure Static rock pressure, _____ psig (surface measurement) after _____ hours shut in
Pf=PweXGLS
 $t=60 + (0.0075 \times 3212) + 459.7 = 543$ $x=53.35 \times 543 = 29011$ $=0.000345$ $Pf=220 \times 2.72 (0.000345)$
 $(0.660) (2933) (0.9) = 220 \times 2.72^{0.06} = 220 \times 1.06 = 234$
Pf=234 psi

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-251
API Well No. 47 - 033
State County Per
old No. 2540
RENEWAL
Deep / Shallow X /

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage /
LOCATION: Elevation: 1230 Watershed: Goose Run
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

WELL OPERATOR J & J Enterprises, Inc.
Address Box 48
Buckhannon, WV 26201

DESIGNATED AGENT Richard M. Reddecliff
Address Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Virginia Gerrard
Address 1401 Glenback Ave.
Dayton, Ohio 45409
Acreage 74.25

COAL OPERATOR None
Address

SURFACE OWNER Virginia Gerrard
Address 1401 Glenback Ave.
Dayton, Ohio 45409
Acreage 74.25

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Virginia Tetrick/W.Guy Tetrick
Address Union National Bank Center
Clarksburg, WV 26301
Name
Address

FIELD SALE (IF MADE) TO:
Name
Address

COAL LESSEE WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address Rt.s 48 & 119
Morgantown, WV 26505

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated Sept. 27, 1979, to the undersigned well operator from Virginia Gerrard

[If said deed, lease, or other contract has been recorded:]
Recorded on Dec. 13, 1979, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & Gas Lease Book 1086 at page 1021. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.
The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and declaration shall have been sent by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines, Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1614 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

RECEIVED

OCT 12 1982

J & J Enterprises, Inc.
Well Operator

OIL & GAS DIVISION
DEPT. OF MINES
By Peter Battles
Its Peter Battles
Geologist

BLANKET BOND

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling, Company

Address Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary / Cable tools

Approximate water strata depths: Fresh, 1100 feet; salt, 1200 feet.

Approximate coal seam depths: 940 Is coal being mined in the area? Yes No

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		Kinds	None
Conductor	1 13/4	H-40	42	x		30	30	0 sks	Kinds	None
Fresh water	8 5/8	ERW	23	x		1500	1500	325 sks		
Coal	8 5/8	ERW	23	x		1500	1500	325 sks	Cases	
Intermediate										
Production	4 1/2	J-55	10.5	x		5450	5450	400 sks	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or drilling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well where fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

THIS PERMIT MUST BE POSTED AT THE WELL SITE

ALL PROVISIONS BEING IN ACCORDANCE WITH CHAPTER 22,

ARTICLE 4 OF THE W. VA. CODE, THE LOCATION IS HEREBY

APPROVED FOR drilling renewed THIS PERMIT SHALL EXPIRE

IF OPERATIONS HAVE NOT COMMENCED BY 6-27-83

BY [Signature]

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator, owner, lessee / of the coal under this well location has examined this proposed well location. If a title map exists which covers the area of the well location, the well location has been added to the title map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the applicable regulations.

Date: April 25, 1980

Continental Coal Company

By [Signature]

Its Senior Mining Engineer

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's Well No. J-251
API Well No. 47 - 033 2354
State County Permit

WELL TYPE: Oil / Gas /
(If "Gas", Production / Underground storage / Deep / Shallow) 2540

LOCATION: Elevation: 1230 Watershed: Goose Run
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

WELL OPERATOR J & J Enterprises, Inc.
Address Box 48
Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett
Address Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Virginia Gerrard
Address 1401 Glenback Ave.
Dayton, Ohio 45409

COAL OPERATOR None
Address _____

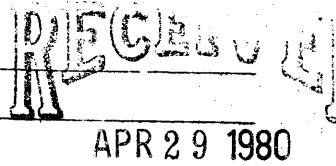
Address 1401 Glenback Ave.
Dayton, Ohio 45409
Acreage 74.25

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Virginia Tetrick/W.Guy Tetrick
Address Union National Bank Center
Clarksburg, WV 26301

SURFACE OWNER Virginia Gerrard
Address 1401 Glenback Ave.
Dayton, Ohio 45409
Acreage 74.25

Name _____
Address _____

FIELD SALE (IF MADE) TO:
Name _____
Address _____



COAL LESSEE WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address Rt.s 48 & 119

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

OIL & GAS DIVISION
DEPT. OF MINES

Morgantown, WV 26505

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease / other contract / dated Sept. 27, 1979, to the undersigned well operator from Virginia Gerrard

[If said deed, lease, or other contract has been recorded:]
Recorded on Dec. 13, 1979, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & Gas Lease Book 1086 at page 1021. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 22-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing/delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1615 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3000

J & J Enterprises, Inc.
Well Operator
By Peter Battles
Peter Battles
Its Geologist

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling, Company

Address Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 1100 feet; salt, 1200 feet.

Approximate coal seam depths: 940 Is coal being mined in the area? Yes / No

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		Kinds	None
Conductor	1 13/4	H-40	42	x		30	30	0 sks	Kinds	None
Fresh water	8 5/8	ERW	23	x		1500	1500	325 sks		
Coal	8 5/8	ERW	23	x		1500	1500	325 sks	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	x		5450	5450	400 sks	Depths set	
Tubing										
Liners									Perforations:	
									Top	Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-8a from the owner of any water well or dwelling within 200 feet of the proposed well.

A separate Form IV-2 shall not be required for fracturing or stimulating a well and such fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the permit in connection therewith.

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 drilling.

This permit shall expire if operations have not commenced by 1-13-81.

Robert T. [Signature]
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by any coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator, [Signature] owner [Signature] / lessee [Signature] / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: April 25, 1980

Consolidation Coal Company
By Donald D. Berry
Its Senior Mining Engineer

[08-78]

OIL AND GAS WELL PERMIT APPLICATION

Operator's (Re-Apply) Well No. J-251

API Well No. 47 - 033 2540
State County Perm
old No. 2354

WELL TYPE: Oil / Gas X /
(If "Gas", Production X / Underground storage / Deep / Shallow X /)

LOCATION: Elevation: 1230 Watershed: Goose Run
District: Sardis County: Harrison Quadrangle: Wallace 7.5'

WELL OPERATOR J & J Enterprises, Inc.
Address Box 48
Buckhannon, WV 26201

DESIGNATED AGENT H.L. Barnett
Address Box 48
Buckhannon, WV 26201

OIL & GAS ROYALTY OWNER Virginia Gerrard
Address 1401 Glenback Ave.
Dayton, Ohio 45409

COAL OPERATOR None
Address

ACREAGE 74.25
SURFACE OWNER Virginia Gerrard
Address 1401 Glenback Ave.
Dayton, Ohio 45409

COAL OWNER(S) WITH DECLARATION ON RECORD:
Name Virginia Tetrick/W.Guy Tetrick
Address Union National Bank Center
Clarksburg, WV 26301

FIELD SALE (IF MADE) TO:
Name
Address

Name
Address

OIL & GAS INSPECTOR TO BE NOTIFIED
Name Paul Garrett
Address 321 Beech St.
Clarksburg, WV 26301

COAL LESSEE WITH DECLARATION ON RECORD:
Name Consolidation Coal Company
Address Rt.s 48 & 119
Morgantown, WV 26505

The undersigned well operator is entitled to operate for oil or gas purposes at the above location under a deed / lease X / other contract / dated Sept. 27, 1979, to the undersigned well operator from Virginia Gerrard

[If said deed, lease, or other contract has been recorded:]

Recorded on Dec. 13, 1979, in the office of the Clerk of the County Commission of Harrison County, West Virginia, in Oil & Gas Lease Book 1086 at page 1021. A permit is requested as follows:

PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify)

--planned as shown on the work order on the reverse side hereof.

The above named coal operator, coal owner(s), and coal lessee are hereby notified that any objection they wish to make or are required to make by Code § 27-4-3 must be filed with the Department of Mines within fifteen (15) days after the receipt of this Application by the Department.

Copies of this Permit Application and the enclosed plat and declaration have been mailed by registered mail or delivered by hand to the above named coal operator, coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department of Mines, Charleston, West Virginia.

RECEIVED

JAN - 7 1981

J & J Enterprises, Inc.
Well Operator

PLEASE SUBMIT COPIES OF ALL GEOPHYSICAL LOGS DIRECTLY TO:
WEST VIRGINIA OIL AND GAS CONSERVATION COMMISSION
1619 WASHINGTON STREET EAST
CHARLESTON, WV 25311
TELEPHONE: (304) 348-3092

OIL & GAS DIVISION
DEPT. OF MINES

Peter Battles
Peter Battles
Geologist

BLANKET BOND

[08-78]

PROPOSED WORK ORDER

THIS IS AN ESTIMATE ONLY:
ACTUAL INFORMATION MUST BE SUBMITTED ON FORM IV-35 UPON COMPLETION

DRILLING CONTRACTOR (IF KNOWN) S.W. Jack Drilling, Company
Address Box 48
Buckhannon, WV 26201

GEOLOGICAL TARGET FORMATION, Alexander

Estimated depth of completed well, 5500 feet Rotary / Cable tools /

Approximate water strata depths: Fresh, 1100 feet; salt, 1200 feet.

Approximate coal seam depths: 940 TS coal being mined in the area? Yes / No

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		Kinds	None
Conductor	113/4	H-40	42	x		30	30	0 sks	Kinds	None
Fresh water	8 5/8	ERW	23	x		1500	1500	325 sks		
Coal	8 5/8	ERW	23	x		1500	1500	325 sks	Sizes	
Intermediate										
Production	4 1/2	J-55	10.5	x		5450	5450	⁵⁰⁰ 400 sks	Depths set	
Tubing								<i>or as reqd by rule 15.01</i>		
Liners									Perforations:	
									Top	Bottom

NOTE: Regulation 7.02 of the Department of Mines provides that the original and four copies of Form IV-2 must be filed with the Department, accompanied by (i) a plat in the form prescribed by Regulation 11, (ii) a bond in one of the forms prescribed by Regulation 12, or in lieu thereof the other security allowed by Code § 22-4-2, (iii) Form IV-9, "Reclamation Plan", applicable to the reclamation required by Code § 22-4-12b and Regulation 23, (iv) unless previously paid on the same well, the fee required by Code § 22-4-12a, and (v) if applicable, the consent required by Code § 22-4-9a from the owner of any water well or drilling within 200 feet of the proposed well.

THIS PERMIT MUST BE POSTED AT THE WELLSITE. Fracturing or stimulating is not to be required for fracturing or stimulating a well. Fracturing or stimulating is to be part of the work for which a permit is sought and is noted as such on the Form IV-2 filed in connection therewith.

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 9-9-81.

J. Murphy
Deputy Director - Oil & Gas Division

The following waiver must be completed by the coal operator and by the coal owner or coal lessee who has recorded a declaration under Code § 22-4-20, if the permit is to be issued within fifteen (15) days of receipt thereof:

W A I V E R

The undersigned coal operator owner / lessee owner / of the coal under this well location has examined this proposed well location. If a mine map exists which covers the area of the well location, the well location has been added to the mine map. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: April 25, 1980

Continental Coal Company
BY David A. Berr
Its Senior Mining Engineer