



1) Date: March 30, 1983
 2) Operator's Well No. Bogart # 4
 3) API Well No. 47 001 1935
 State County Permit

DRILLING CONTRACTOR:

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

S.W. Jack Drilling Company
Box 48
Buckhannon, WV 26201

OIL AND GAS WELL PERMIT APPLICATION

- 4) WELL TYPE: A Oil / Gas
 B (If "Gas", Production / Underground storage / Deep / Shallow)
 5) LOCATION: Elevation: 1563.2 Watershed: Tygart Valley River
 District: Philippi County: Barbour Quadrangle: Philippi
 6) WELL OPERATOR Bogart Coal & Gas 11) DESIGNATED AGENT Raymond K. Bogart
 Address Rt. # 6, Box 443 Address Rt. # 6, Box 443
Buckhannon, WV 26201 Buckhannon, WV 26201
 7) OIL & GAS ROYALTY OWNER Raymond K. Bogart 12) COAL OPERATOR _____
 Address Rt. # 6, Box 443 Address _____
Buckhannon, WV 26201
 Acreage 120
 8) SURFACE OWNER Raymond K. Bogart 13) COAL OWNER(S) WITH DECLARATION ON RECORD:
 Address Rt. # 6, Box 443 Name Raymond K. Bogart
Buckhannon, WV 26201 Address Rt. # 6, Box 443
 Acreage 120 Buckhannon, WV 26201
 Name _____
 9) FIELD SALE (IF MADE) TO: Address _____
 Address Unknown
 10) OIL & GAS INSPECTOR TO BE NOTIFIED 14) COAL LESSEE WITH DECLARATION ON RECORD:
 Name Robert Stewart Name Badger Coal Company
 Address P.O. Box 345 Address Depot St.
Jane Lew, WV 26378 Philippi, WV 26416
 15) PROPOSED WORK: Drill / Drill deeper / Redrill / Fracture or stimulate
 Plug off old formation / Perforate new formation
 Other physical change in well (specify) _____
 16) GEOLOGICAL TARGET FORMATION, Haverty
 17) Estimated depth of completed well, 5500 feet
 18) Approximate water strata depths: Fresh, 65 feet; salt, 1000 feet.
 19) Approximate coal seam depths: 260-65 Is coal being mined in the area? Yes / No

20) 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 | 11 3/4 | H-40 | 42 | x | | 30 | 0 | 0 sks. | | Kinds |
| Fresh water | 8 5/8 | ERW | 23 | x | | 1000 | 1000 | To surface | | |
| Coal | 8 5/8 | ERW | 23 | x | | 1000 | 1000 | To surface | | Sizes <u>NEAT</u> |
| Intermediate | | | | | | | | | | |
| Production Tubing | 4 1/2 | J-55 | 23 | x | | 5450 | 5450 | 450 sks. | | Depths set |
| Liners | | | | | | | | | | Perforations: Top Bottom |

- 21) EXTRACTION RIGHTS
 Check and provide one of the following:
 Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil or gas.
 The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifics.)
 22) ROYALTY PROVISIONS
 Is the right to extract, produce or market the oil or gas based upon a lease or other continuing contract or contracts providing for flat well royalty or any similar provision for compensation to the owner of the oil or gas in place which is not inherently related to the volume of oil or gas so extracted, produced or marketed? Yes No
 If the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.
 23) Required Copies (See reverse side.)
 24) 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 or delivery of this Permit Application to the Department of Mines at Charleston, West Virginia.

Notary: Judith S. Canfield
 My Commission Expires October 16, 1989

Signed: R. K. Bogart
 Its: Designated Agent

OFFICE USE ONLY

Permit number 47-001-1935 **DRILLING PERMIT** Date May 28 1983

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. 10) 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.)

Permit expires January 28, 1984 unless drilling is commenced prior to that date and prosecuted with due diligence.

| | | | | |
|-----------------|------------------|-----------------|-------------------|------------------|
| Bond: <u>RB</u> | Agent: <u>ok</u> | Plat: <u>AD</u> | Casing: <u>AD</u> | Fee: <u>1235</u> |
|-----------------|------------------|-----------------|-------------------|------------------|

Administrator, Office of Oil and Gas

Line Item Explanation



- 1) Date of Application
- 2) Your well name and number
- 3) To be filled out by office of oil & gas
- 4A) "Oil" means natural crude oil or petroleum and other hydrocarbons, regardless of gravity, which are produced at the well in liquid form by ordinary production methods and which are not the result of condensation of gas after it leaves underground reservoirs: "Gas" means all natural gas and all other fluid hydrocarbons not defined as oil.
- 4B) "Shallow well" means any well drilled and completed in a formation above the top of the uppermost member of the "Onondaga Group" or a depth less than six thousand feet, whichever is shallower.
"Deep well" means any well drilled and completed in a formation at or below the top of the uppermost member of the "Onondaga Group" or at a depth less than six thousand feet, whatever is shallower.
- 5) Where well is located
- 6) Before a permit can be issued in a corporation, company partnership, or fictitious name, the name must be registered with the Secretary of State Office
- 7) Use separate sheet if necessary
- 8) Present surface owner at time application is filed.
- 9) Optional
- 11) See Reg. 7.01 relating to code §22-4-1k
- 12) "Coal Operator" means any persons, firm, partnership, partnership association or corporation that proposes to or does operate a coal mine. See Note 24
- 13 & 14) As per §22-4-20; See Note 24
- 15) Work that will be attempted—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.
- 16) Anticipated formation for which well will be completed
- 17) Self explanatory
- 18) Depth to deepest freshwater, and shallowest salt water, taken from nearby wells corrected for differences in elevation
- 19) All coal seam depths
- 20) Proposed casing program and cementing refer to Code 22-4-5, 22-4-6, 22-4-7, 22-4-8, 22-4-8a Reg 9.01, 15.01, 15.02, 15.03, 15.04, 25.01, 25.02, 25.03, 25.04
- 21) Code 22-4-11(c) - In lieu of filing the lease or leases or other continuing contract or contracts, the applicant for a permit described herein may file the following:
 - (1) A brief description of the tract of land including the district and county wherein the tract is located;
 - (2) The identification of all parties to all leases or other continuing contractual agreements by which the right to extract, produce or market the oil or gas is claimed;
 - (3) The book and page number wherein each such lease or contract by which the right to extract, produce or market the oil or gas is recorded;
 - (4) A brief description of the royalty provisions of each such lease or contract.
- 22) Code 22-4-11(d) and 22-4-11(e).
- 23) 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.

24) 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.

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.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / 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: _____, 19_____

By _____

Its _____

ATTACHMENT TO
FORM IV-2 (6-82)
OIL & GAS WELL PERMIT APPLICATION

WELL OPERATOR Bogart Coal & Gas

API#: 47- 001 - _____

ITEM # 21 - EXTRACTION RIGHTS

CODE 22-4-11 (C)

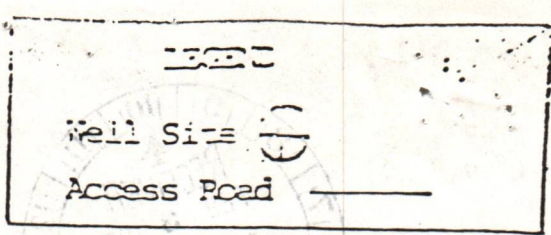
120 ACRES Philippi DISTRICT Barbour COUNTY, WV

| LESSORS & ADDRESS | PERCENT OGM ROYALTY INTEREST (of 1/8ths) | RECORDING | |
|---|---|-----------|-----|
| | | BK | PG |
| Raymond K. Bogart Rt. # 6, Box 443 Buckhannon, WV 26201 | 100% | 230 | 325 |
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APR 5 - 1983

OIL & GAS DIVISION
DEPT. OF MINES

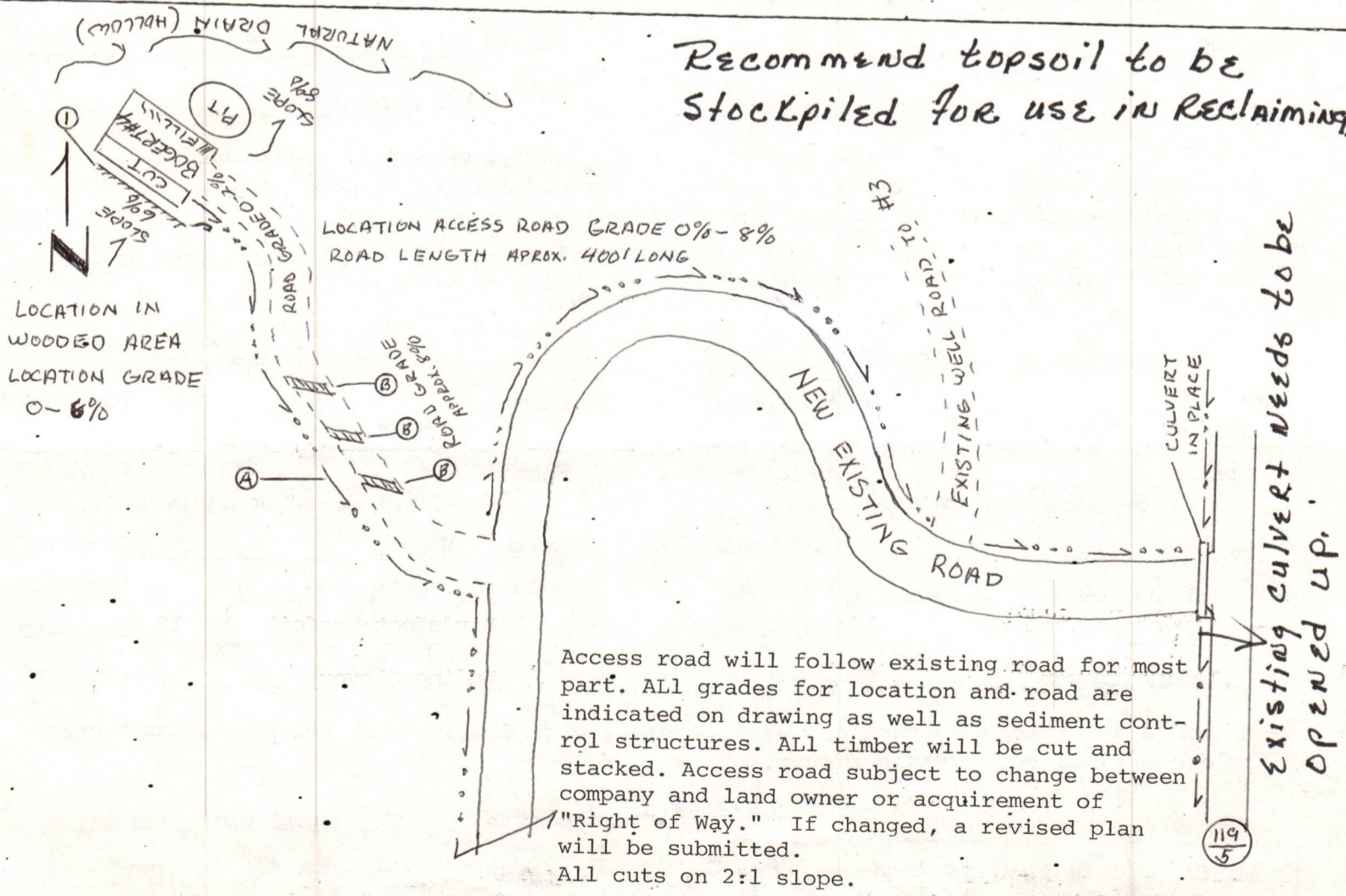


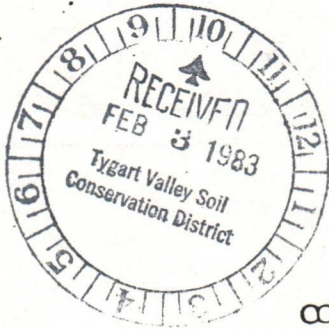
WELL SITE PLAN

Sketch to include well location, existing access road, roads to be constructed, wells, drilling pits and necessary structures numbered or lettered to correspond with the first part of this plan. Include all natural drainage.

LEGEND

- | | |
|-------------------|------------|
| Property boundary | Diversion |
| Road | Spring |
| Existing fence | Wet spot |
| Planned fence | Building |
| Stream | Drain pipe |
| Open ditch | Waterway |





DATE 2/1/83

WELL NO. Bogert # 4

State of West Virginia

API NO. 47 - 001 - 1935

Department of Mines
Oil and Gas Division

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME J & J Enterprises, Inc.

DESIGNATED AGENT Raymond Bogert

Address P.O. Box 48

Address Rt. 6 Box 443 Buckhannon, WV

Telephone Buckhannon, WV 26201

Telephone 472-0612

LANDOWNER Raymond Bogert

SOIL CONS. DISTRICT Tygart Valley

Revegetation to be carried out by Robert Rogers (Agent)

This plan has been reviewed by Tygart Valley SCD. All corrections and additions become a part of this plan: 2/7/83

(Date)
Jean Freeman
(SCD Agent)

ACCESS ROAD

LOCATION

Structure Drainage Ditch

(A) Structure Diversion Ditch (1)

Spacing To be constructed along road

Material soil

Page Ref. Manual 2-10

Page Ref. Manual 2-12

Structure Cross Relief Drains

(B) Structure RECEIVED (2)

Spacing 50 ft. to 400 ft. apart

Material APR 5 - 1983

Page Ref. Manual 2:4

Page Ref. Manual DIL & GAS DIVISION

Structure _____

(C) Structure _____ (3)

Spacing _____

Material _____

Page Ref. Manual _____

Page Ref. Manual _____

DIL & GAS DIVISION
DEPT. OF MINES

All structures should be inspected regularly and repaired if necessary. All commercial timber is to be cut and stacked and all brush and small timber to be cut and removed from the site before dirt work begins.

Note: Drainage to be maintained after completion of well and seeding to commence within 3 months after completion of well.

REVEGETATION

Treatment Area I

Treatment Area II

Lime 3 Tons/acre
or correct to pH 6.5

Lime 3 Tons/acre
or correct to pH 6.5

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Fertilizer 600 lbs/acre
(10-20-20 or equivalent)

Mulch Hay 2 Tons/acre

Mulch Hay 2 Tons/acre

Seed* Ky-31 Tall Fescue 30 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

Seed* Ky-31 Tall Fescue 30 lbs/acre
Birdsfoot Trefoil 10 lbs/acre

Ladino Clover 5 lbs/acre

Ladino Clover 5 lbs/acre

*Inoculate all legumes such as vetch, trefoil and clovers with the proper bacterium. Inoculate with 3X recommended amount.

PLAN PREPARED BY Ed Summerfield

ADDRESS P.O. Box 48

Buckhannon, WV 26201

PHONE NO. 472-9403

NOTES: Please request landowners' cooperation to protect new seedling for one growing season. Attach separate sheets as necessary for comments.

H 3 5 8
Chart Order

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 / Liquid Injection / Waste Disposal
(If "Gas", Production / Underground storage / Deep / Shallow)
LOCATION: Elevation: 1563.2 Watershed: Tygart Valley River
District: Philippi County: Barbour Quadrangle: Philippi

WELL OPERATOR Raymond K. Bogart DESIGNATED AGENT Raymond K. Bogart
Address Rt. # 6, Box 443 Address Rt. # 6, Box 443
Buckhannon, WV 26201 Buckhannon, WV 26201

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

PERMIT ISSUED ON 3/28, 1982 OIL & GAS INSPECTOR FOR THIS WORK:
(IF APPLICABLE: PLUGGING OF DRY HOLE OR CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED) Name Robert Stewart
Address P.O. Box 345
Jane Lew, WV 26378.

GEOLOGICAL TARGET FORMATION: Haverty Depth 5368-5545 feet
Depth of completed well, 5800 feet Rotary / Cable Tools
Water strata depth: Fresh, 80 feet; salt, 0 feet.
Coal seam depths: 475-78 Is coal being mined in the area? No
Work was commenced 6/23, 1983, and completed 6/29, 1983

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 | 113/4 | H-40 | 42 | x | | 32 | 0 | 0 sks. | Winds |
| Fresh water | 85/8 | ERW | 23 | x | | 1589 | 1589 | 420 sks. | |
| Coal | 85/8 | ERW | 23 | x | | 1589 | 1589 | 420 sks. | Sizes |
| Intermediate | | | | | | | | | |
| Production | 4 1/2 | J-55 | 10.5 | x | | 5600.55 | 5600.55 | 415 sks. | Depth set |
| Tubing | | | | | | | | | |
| Liners | | | | | | | | | Perforations: |
| | | | | | | | | | Top Bottom |
| | | | | | | | | | 5368 5545 |
| | | | | | | | | | 4624 4634 |
| | | | | | | | | | 3974 3982 |

OPEN FLOW DATA

Producing formation Haverty Pay zone depth 5368-5545 feet
Gas: Initial open flow, _____ Mcf/d Oil: Initial open flow, _____ Bbl/d
Final open flow, 348 Mcf/d 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
[If applicable due to multiple completion--]
Second producing formation Elk, Benson Pay zone depth 4624-34 feet
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 measurement) after _____ hours shut in

BAR. 1935

Bottom Hole Pressure
P_w = P_weXGLS

8-8j

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

Haverty: Perforations: 5368-5545 (15 holes)
Fracturing: 5,000 lbs. 80/100 sand: 36,000 lbs. 20/40 sand: 500 gal. Acid: 649 Bbls. fluid.

Elk: Perforations: 4624-4634 (16 holes)
Fracturing: 5,000 lbs. 80/100 sand: 50,000 lbs. 20/40 sand: 500 gal. Acid: 741 Bbls. Fluid.

Benson: Perforations: 3974-3982 (12 holes)
Fracturing: 2500 lbs. 80/100 sand: 25,452 lbs. 20/40 sand: 500 gal. Acid: 407 Bbls. fluid.

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| FORMATION | Color | Hard or Soft | Top Feet | Bottom Feet | Remarks Including indication of all fresh and salt water, coal, oil and gas |
|---------------------------------|-------|--------------|----------|-------------|--|
| Shale & sand | | | 0 | 80 | |
| Shale, sand & sandy shale | | | 80 | 375 | |
| Black shale | | | 375 | 475 | 1/4" stream @ 80' |
| Coal | | | 475 | 478 | |
| White sand & shale | | | 478 | 790 | 2" stream in Gantz |
| Red rock, shale & sand | | | 790 | 1050 | Gas ck @ 3994 10/10-1" w/water 33.33 |
| Shale & sand | | | 1050 | 1130 | |
| Shale & red rock | | | 1130 | 1220 | |
| Big Lime | | | 1220 | 1310 | Gas ck @ 4489 10/10-1" w/water 33.33 |
| Injun | | | 1310 | 1425 | |
| Sandy shale, white sand & shale | | | 1425 | 1670 | |
| Shale & sand | | | 1670 | 1860 | Gas ck @ 5015 8/10-1" w/water 29.50 |
| Red sand | | | 1860 | 1880 | |
| Gray sand | | | 1880 | 2100 | |
| Sand, shale & red rock | | | 2100 | 3974 | Gas ck @ 5514 4/10-1" w/water 21.04 |
| Benson | | | 3974 | 3982 | |
| Shale | | | 3982 | 4624 | |
| Elk | | | 4624 | 4634 | Final ck 2/10-1" w/water 14.90 |
| Sand | | | 4634 | 5368 | |
| Haverty | | | 5368 | 5545 | |
| Sandy shale | | | 5545 | 5800 | |
| | | | | T.D. | |

(Attach separate sheets as complete as necessary.)

Well Operator _____

By _____

Its Designated Agent _____

REG. Regulation 2.02(d) 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 WELLS DIVISION
INSPECTOR'S PLUGGING REPORT

Permit No. _____

Well No. _____

COMPANY _____ ADDRESS _____

FARM _____ DISTRICT _____ COUNTY _____

Filling Material Used _____

| Liner | | Location | | Amount | Packer | Location | |
|-----------------------------|-----------|----------|-----------------------|--------|-----------|-------------------|------|
| PLUGS USED AND DEPTH PLACED | | | BRIDGES | | | CASING AND TUBING | |
| CEMENT-THICKNESS | WOOD-SIZE | LEAD | CONSTRUCTION-LOCATION | | RECOVERED | SIZE | LOST |
| | | | | | | | |
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Drillers' Names _____

Remarks: _____

DATE _____ I hereby certify I visited the above well on this date.

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

RECEIVED
JUN 24 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-1935

Oil or Gas Well _____
(KIND)

| | | | | |
|---|---|------------------|--------------|----------------------|
| Company <u>BOGART COAL</u> | CASING AND TUBING | USED IN DRILLING | LEFT IN WELL | PACKERS |
| Address <u>BUCK HANNON</u> | Size | | | |
| Farm <u>RAYMOND BOGART</u> | 16 | | | Kind of Packer _____ |
| Well No. <u># 4</u> | 13 | | | |
| District <u>PHILIPPI</u> County <u>BARBOUR</u> | 10 | | | Size of _____ |
| Drilling commenced <u>6-23-83</u> | 8 1/4 | | | |
| Drilling completed _____ Total depth _____ | 6 1/2 | | | Depth set _____ |
| Date shot _____ Depth of shot _____ | 5 3/16 | | | |
| Initial open flow _____ /10ths Water in _____ Inch | 3 | | | Perf. top _____ |
| Open flow after tubing _____ /10ths Merc. in _____ Inch | 2 | | | Perf. bottom _____ |
| Volume _____ Cu. Ft. | Liners Used | | | Perf. top _____ |
| Rock pressure _____ lbs. _____ hrs. | | | | Perf. bottom _____ |
| Oil _____ bbls., 1st 24 hrs. | CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____ | | | |
| Fresh water _____ feet _____ feet | NAME OF SERVICE COMPANY _____ | | | |
| Salt water _____ feet _____ feet | COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES | | | |
| | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |
| | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |

Drillers' Names S. W. JACK RIG 12

Remarks:

Move RIG SPD

6-23-83

DATE

Robert Stewart

DISTRICT WELL INSPECTOR

57

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

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JUL - 5 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-1935

Oil or Gas Well _____
(KIND)

| | | | | |
|---|---|------------------|--------------|----------------------|
| Company <u>BOGART COAL</u> | CASING AND TUBING | USED IN DRILLING | LEFT IN WELL | PACKERS |
| Address <u>BUCK HANNON</u> | Size | | | |
| Farm <u>R BOGART</u> | 16 | | | Kind of Packer _____ |
| Well No. <u># 4</u> | 13 | | | |
| District <u>PHILIPPI</u> County <u>BARBOUR</u> | 10 | | | Size of _____ |
| Drilling commenced <u>6-23-83</u> | 8 1/4 | | | |
| Drilling completed <u>6-30-83</u> Total depth <u>5800</u> | 6 5/8 | | | Depth set _____ |
| Date shot _____ Depth of shot _____ | 5 3/16 | | | |
| Initial open flow _____ /10ths Water in _____ Inch | 3 | | | Perf. top _____ |
| Open flow after tubing _____ /10ths Merc. in _____ Inch | 2 | | | Perf. bottom _____ |
| Volume _____ Cu. Ft. | Liners Used | | | Perf. top _____ |
| Rock pressure _____ lbs. _____ hrs. | | | | Perf. bottom _____ |
| Oil _____ bbls., 1st 24 hrs. | CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____ | | | |
| Fresh water _____ feet _____ feet | NAME OF SERVICE COMPANY _____ | | | |
| Salt water _____ feet _____ feet | COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES | | | |
| | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |
| | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |

Drillers' Names S.W. JACK RIG #12

Remarks:

T. D. & MOUR

6-30-83

DATE

Robert Stewart

DISTRICT WELL INSPECTOR

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

RECEIVED

AUG - 3 1983

INSPECTOR'S WELL REPORT

OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 001-1935

Oil or Gas Well _____
(KIND)

Company Borgst Coal
 Address _____
 Farm Raymond Borgst
 Well No. 4
 District Phillips County Barbour
 Drilling commenced _____
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

| CASING AND TUBING | USED IN DRILLING | LEFT IN WELL | PACKERS |
|-------------------|------------------|--------------|----------------------|
| Size | | | |
| 16 | | | Kind of Packer _____ |
| 13 | | | |
| 10 | | | Size of _____ |
| 8 1/4 | | | |
| 6 5/8 | | | Depth set _____ |
| 5 3/16 | | | |
| 3 | | | Perf. top _____ |
| 2 | | | Perf. bottom _____ |
| Liners Used | | | Perf. top _____ |
| | | | Perf. bottom _____ |

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY _____
 COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES
 _____ FEET _____ INCHES _____ FEET _____ INCHES

Drillers' Names _____

Remarks: Checking reclamation.

Aug 4, 83
DATE

Philip Terry
DISTRICT WELL INSPECTOR



RECEIVED

MAY 20 1985

OIL & GAS DIVISION
DEPT. OF MINES

State of West Virginia
Department of Mines
Oil and Gas Division
Charleston 25305

RECEIVED

MAY 20 1985

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 5, 1985

COMPANY Raymond E. Bogert
Route 6, Box 443
Buckhannon, West Virginia 26201

PERMIT NO 001-1935
FARM & WELL NO Bogart #4
DIST. & COUNTY Philippi/Barbour

| RULE | DESCRIPTION | IN COMPLIANCE | |
|-------|---|-------------------------------------|--------------------------|
| | | YES | NO |
| 23.06 | Notification Prior to Starting Work | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 25.04 | Prepared before Drilling to Prevent Waste | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 25.03 | High-Pressure Drilling | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 16.01 | Required Permits at Wellsite | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 15.03 | Adequate Fresh Water Casing | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 15.02 | Adequate Coal Casing | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 15.01 | Adequate Production Casing | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 15.04 | Adequate Cement Strength | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 15.05 | Cement Type | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 23.02 | Maintained Access Roads | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 25.01 | Necessary Equipment to Prevent Waste | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 23.04 | Reclaimed Drilling Pits | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 23.05 | No Surface or Underground Pollution | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 23.07 | Requirements for Production & Gathering Pipelines | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 16.01 | Well Records on Site | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 16.02 | Well Records Filed | <input type="checkbox"/> | <input type="checkbox"/> |
| 7.05 | Identification Markings | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

I HAVE INSPECTED THE ABOVE CAPTIONED WELL AND RECOMMEND THAT IT BE RELEASED:

SIGNED Donald B. Blair
DATE 5-14-85

Your well record was received and reclamation requirements approved. In accordance with Chapter 22, Article 4, Section 2, the above well will remain under bond coverage for the life of the well.

T. L. v. B.
Administrator-Oil & Gas Division

May 24, 1985
DATE

FERC-121

| | | | | |
|---|--|---------------|---|----------------------------------|
| 1.0 API well number: (If not available, leave blank. 14 digits.) | 47-001-1935 | | | |
| 2.0 Type of determination being sought: (Use the codes found on the front of this form.) | 103 Section of NGPA | Category Code | | |
| 3.0 Depth of the deepest completion location: (Only needed if sections 103 or 107 in 2.0 above.) | 5545 feet | | | |
| 4.0 Name, address and code number of applicant: (35 letters per line maximum. If code number not available, leave blank.) | Bogart Coal & Gas Name Route #6, Box 443 Street Buckhannon WV 26201 City State Zip Code | | | Seller Code |
| 5.0 Location of this well: [Complete (a) or (b).] (a) For onshore wells (35 letters maximum for field name.) | Philippi Field Name Barbour WV County State | | | |
| (b) For OCS wells: | N/A Area Name Block Number | | | |
| | Date of Lease: N/A Mo. Day Yr. OCS Lease Number | | | |
| (c) Name and identification number of this well: (35 letters and digits maximum.) | Bogart No. 4 Well | | | |
| (d) If code 4 or 5 in 2.0 above, name of the reservoir: (35 letters maximum.) | N/A | | | |
| 6.0 (a) Name and code number of the purchaser: (35 letters and digits maximum. If code number not available, leave blank.) | Consolidated Gas Supply Corp. Name | | | 004030 Buyer Code |
| (b) Date of the contract: | 07, 18, 69 (Amended 3/4/84) Mo. Day Yr. | | | |
| (c) Estimated annual production: | 10 MMcf. | | | |
| | (a) Base Price (\$/MMBTU) | (b) Tax | (c) All Other Prices [Indicate (+) or (-).] | (d) Total of (a), (b) and (c) |
| 7.0 Contract price: (As of filing date. Complete to 3 decimal places.) | 2.909 | 0.335 | 0.010 | 3.254 |
| 8.0 Maximum lawful rate: (As of filing date. Complete to 3 decimal places.) | 2.909 | 0.335 | 0.010 | 3.254 |
| 9.0 Person responsible for this application: | Bogart Coal & Gas | | | |
| Agency Use Only Date Received by Juris. Agency JUL 25 1984 Date Received by FERC | Name R. K. Bogart, Jr., Owner Signature | | | Title Owner |
| | July 23, 1984 Date Application is Completed | | | (304) 472-1395 Phone Number |

U.S. DEPARTMENT OF ENERGY
 Federal Energy Regulatory Commission
 Washington, D.C. 20426

APPLICATION FOR DETERMINATION OF THE MAXIMUM LAWFUL
 PRICE UNDER THE NATURAL GAS POLICY ACT (NGPA)
 (Sections 102, 103, 107 and 108)

PLEASE READ BEFORE COMPLETING THIS FORM: 010 3.584

General Instructions:

Complete this form if you are applying for price classification under sections 102, 103, 107 or 108 of the NGPA. A separate application is required for each well. If any reservoir qualifies for a category which differs from the category applicable to the producing well, separate applications must be made for the producing well and the reservoir. Complete each appropriate item on the reverse side of this page. The code numbers used in items 4.0 and 6.0 can be obtained from the Buyer/Seller Code Book. If there is more than one purchaser or contract, identify the additional information in the space below. Enter any additional remarks in the space below.
 Submit the completed application to the appropriate Jurisdictional Agency as listed in title 18 of the CFR, part 270.103. If there are any questions, call (202) 275-4539.

Specific Instructions for Item 2.0, Type of Determination:

| Section of NGPA | Category Code | Description |
|-----------------|---------------|---|
| 102 | 1 | New OCS Lease |
| 102 | 2 | New onshore well (2.5 mile test) |
| 102 | 3 | New onshore well (1,000 feet deeper test) |
| 102 | 4 | New onshore reservoir |
| 102 | 5 | New reservoir on old OCS Lease |
| 103 | - | New onshore production well |
| 107 | - | High cost natural gas |
| 108 | - | Stripper well |

Other Purchasers/Contracts:

Contract Date (Mo. Day Yr.) _____
 Purchaser _____
 Buyer Code _____

Remarks:

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

Date July 23, 1984

Operator's Well No. Bogart #4

API Well No. 47 - 001 - 1935
State County Permit

WELL CLASSIFICATION FORM
NEW ONSHORE PRODUCTION WELL
NGPA Section 103

DESIGNATED AGENT R. K. Bogart, Jr.

ADDRESS Route #6, Box 443
Buckhannon, WV 26201

WELL OPERATOR Bogart Coal & Gas
ADDRESS Route #6, Box 443
Buckhannon, WV 26201

LOCATION: Elevation 1563.2'

Watershed Tygart Valley River

Dist. Philippi County Barbour Quad. Philippi

GAS PURCHASER Consolidated Gas Supply Corp.
ADDRESS 445 West Main Street
Clarksburg, WV 26301

Gas Purchase Contract No. 3436

Meter Chart Code H358

Date of Contract 7/18/69 (Amended 2/4/84)

* * * * *

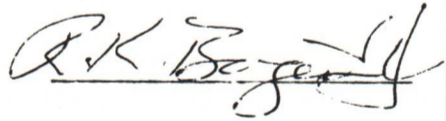
Date surface drilling was begun: June 23, 1983

Indicate the bottom hole pressure of the well and explain how this was calculated:

BHP = $P_1 + P_1 (e^{GL/53.34T} - 1)$
 $P_1 = 1314.73$ psia
 $G = 0.60$
 $L = 5545'$
 $T = 120^\circ F$
BHP = 1464 psia

AFFIDAVIT

I, R. K. Bogart, Jr., having been first sworn according to law state that surface drilling of the well for which this determination is sought was begun on or after February 19, 1977; the well satisfies applicable state or federal well spacing requirements and the well is not within a proration unit, in existence at the time surface drilling began, which was applicable to the reservoir from which gas is or will be produced and which applied to any other well producing gas in commercial quantities or on which surface drilling began on or after February 19, 1977, and which was capable of producing gas in commercial quantities. I state, further, that I have concluded, to the best of my information, knowledge and belief, that the well for which this determination is sought is a new onshore production well and that I am not aware of any information not described in the application which is inconsistent with this conclusion.



STATE OF WEST VIRGINIA,

COUNTY OF GILMER, TO WIT:

I, J. Ellen Adams, a Notary Public in and for the state and county aforesaid, do certify that R. K. Bogart, Jr. whose name is signed to the writing above, bearing date the 23rd day of July, 19 84 has acknowledged the same before me, in my county aforesaid.

Given under my hand and official seal this 23rd day of July, 19 84

My term of office expires on the 9th day of February, 19 88.

[NOTARIAL SEAL]


Notary Public

STATE OF WEST VIRGINIA

DEPARTMENT OF MINES, OIL AND GAS DIVISION

AUG 15 1984

COVER SHEET, STATE APPLICATION FOR WELL CLASSIFICATION

Date: July 23, 19 84

AGENCY USE ONLY

Applicant's Name: Bogart Coal & Gas

Address: Route #6, Box 443
Buckhannon, WV 26201

Gas Purchaser Contract No. 3436

Date of Contract 7/18/69 (Amended 3/4/84)
(Month, day and year)

First Purchaser: Consolidated Gas Supply Corp.

Address: 445 West Main Street
(Street or P.O. Box)
Clarksburg WV 26301
(City) (State) (Zip Code)

FERC Seller Code

WELL DETERMINATION FILE NUMBER
840725 -103-001-1935
Use Above File Number on all
Communications Relating to This Well

Designated Agent: R. K. Bogart, Jr.

Address: Route #6, Box 443
Buckhannon, WV 26201

FERC Buyer Code 004030

NAME AND TITLE OF PERSON TO WHOM QUESTIONS CONCERNING THIS APPLICATION SHALL BE ADDRESSED:

Name: R. K. Bogart, Jr. (Print) Owner
(Signature) (Title)

Signature: *R. K. Bogart, Jr.*

Address: Route #6, Box 443
(Street or P.O. Box)
Buckhannon WV 26201
(City) (State) (Zip Code)

Telephone: (304) 472-1395
(Area Code) (Phone Number)

(Certificate of Proof of Service to Purchaser)

Sent by Certified U.S. Mail postmarked July 24, 1984, Certification No. P-574-015-550, with return receipt.

NGPA Category Applied For

NGPA SECTION/SUBSECTION

- 102 New Natural Gas
 - 102-2 2.5 Mile Test
 - 102-3 1000 Foot Deeper Test
 - 102-4 New Onshore Reservoir

- 108 Stripper Well Natural Gas
 - 108- Stripper Well
 - 108-1 Seasonally Affected
 - 108-2 Enhanced Recovery
 - 108-3 Temporary Pressure Buildup

- 103 New Onshore Production Well
 - xxx 103 New Onshore Production Well

- 107 High Cost Natural Gas
 - 107-0 Deep (more than 15,000 feet)
 - 107-1 Geopressured Brine
 - 107-2 Coal Seams
 - 107-3 Devonian Shale
 - 107-5 Production enhancement
 - 107-6 New Tight Formation
 - 107-7 Recompletion Tight Formation

AGENCY USE ONLY

QUALIFIED

RECEIVED

JUL 25 1984

OIL & GAS DIVISION
DEPT. OF MINES

Date Received

AUG 15 1984

Determination Date

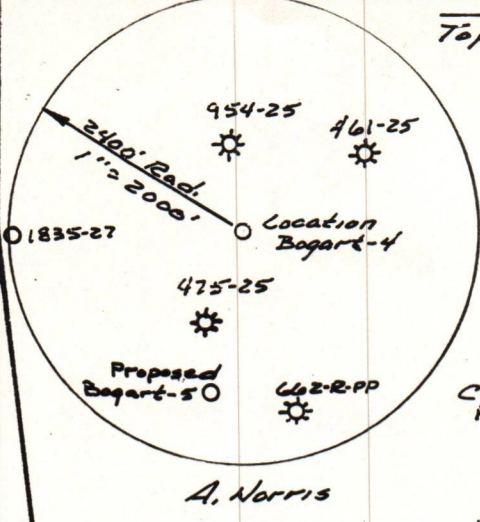
Topo 7 1/2 min.

LATITUDE 39°10'00"

9,725'

15'

LONGITUDE 80°00'00"



Corner Post

R.K. Bogart

LOCATION
BOGART-4
N 18500.00
E 48750.00

"X-2" Mine
Survey Marker
N 17941.16
E 50296.36

Raymond K. Bogart - FEE
Coal Operator: Badger Coal Co.
MINE #14 & 15
120 Ac.

Iron Rod
on Slate
Pile
N 17529.22
E 51066.05

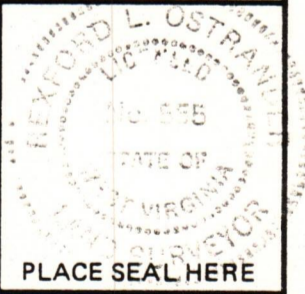
Proposed BOGART-5

119/5

TYGART VALLEY WITH RIVER

FILE NO. 346.01
DRAWING NO. 83-7
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY 1" in 10000'
PROVEN SOURCE OF ELEVATION "X-2" Mine Survey Marker, 61:1307.58

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) Rayford L. Ostrander
R.P.E. _____ L.L.S. 555
Buckhannon, WV



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION



DATE January 20, 1933
OPERATOR'S WELL NO. Bogart-4
API WELL NO. _____
47-001-1935
STATE COUNTY PERMIT

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS,") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X
LOCATION: ELEVATION 1563.2' WATER SHED Tygart Valley River
DISTRICT Philippi COUNTY Barbour
QUADRANGLE Philippi
SURFACE OWNER Raymond K. Bogart ACREAGE 120
OIL & GAS ROYALTY OWNER Raymond K. Bogart LEASE ACREAGE 120
LEASE NO. _____
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 Haverty ESTIMATED DEPTH 5500
WELL OPERATOR Bogart Oil & Gas DESIGNATED AGENT Raymond K. Bogart
ADDRESS Rt. 6 Box 443 ADDRESS Rt. 6 Box 443
Buckhannon, WV 26201 Buckhannon, WV 26201