



1) Date: February 4, 19 83
 2) Operator's Well No. 1
 3) API Well No. 47 073 1595
 State County Permit

DRILLING CONTRACTOR:
Union Drilling, Inc.
P.O. DRAWER 40
Buckhannon, WV 26201

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

- 4) WELL TYPE: A Oil / Gas _____
 B (If "Gas", Production _____ / Underground storage _____ / Deep _____ / Shallow _____)
- 5) LOCATION: Elevation: 909 Watershed: McElroy Run
 District: Grant County: Pleasants Quadrangle: Willow Island 7.5
- 6) WELL OPERATOR Jenkins Energy Corp. 11) DESIGNATED AGENT Carl Davis
 Address P.O. Box 980 Address P.O. Box 980
Bridgeport, WV 26330 Bridgeport, WV 26330
- 7) OIL & GAS ROYALTY OWNER Monongahela Power Co. et. al 12) COAL OPERATOR None
 Address _____ Address _____
 Acreage _____
- 8) SURFACE OWNER Monongahela Power Co. 13) COAL OWNER(S) WITH DECLARATION ON RECORD
 Name None Address _____
 Address _____ FEB 7 - 1983
 Acreage _____ Name _____
 9) FIELD SALE (IF MADE) TO: Address OIL AND GAS DIVISION
 Address _____ WV DEPARTMENT OF MINES
- 10) OIL & GAS INSPECTOR TO BE NOTIFIED
 Name Robert Lowther Address _____
 Address General Delivery
Middlebourne, WV 26140
- 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, Devonian Shale
- 17) Estimated depth of completed well, 4990 feet
 18) Approximate water strata depths: Fresh, 50' feet; salt, None feet.
 19) Approximate coal seam depths: None 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 | | Kinds | Depths set |
| Conductor | 11 3/4 | | | | X | 75' | All | CTS | | |
| Fresh water | | | | | | | | | | |
| Coal | | | | | | | | | | Sizes |
| Intermediate | 8 5/8 | J-55 | | X | | 700 | All | CTS | | |
| Production | 4 1/2 | J-55 | | X | | 4990 | | 550 | | Depths set |
| Tubing | | | | | | | | | | |
| 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: Patricia L. Moore Signed: Carlton Davis
 My Commission Expires Jan 13, 1993 Its: DESIGNATED AGENT

OFFICE USE ONLY
DRILLING PERMIT
 Permit number 47-073-1595 February 9 19 83
 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. 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 October 9, 1983 unless drilling is commenced prior to that date and prosecuted with due diligence.

Bond: Blanket Agent: [Signature] Plat: [Signature] Casing: [Signature] Fee: 1312
[Signature]
 Administrator, Office of Oil and Gas

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

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 _____

State of West Virginia

Department of Mines
Oil and Gas Division

#972

CONSTRUCTION AND RECLAMATION PLAN

COMPANY NAME DAVIS JENKINS DESIGNATED AGENT Carl Davis
Address P.O. BOX 980, BRIDGEPORT, W.V. 26330 Address P.O. BOX 980, BRIDGEPORT, W.V.
Telephone 622-3837 Telephone 622-3837
OWNER MONONGAHELA POWER CO. SOIL CONS. DISTRICT UPPER OHIO
Revegetation to be carried out by DAVIS JENKINS (Agent)

This plan has been reviewed by Upper Ohio SCD. All corrections and additions become a part of this plan:
8/4/82 (Date)
Dennette R. Mason (SCD Agent)

| ACCESS ROAD | LOCATION |
|---|---|
| Structure <u>DRAINAGE DITCH</u> (A) | Structure <u>DIVERSION DITCH</u> (1) |
| Material <u>N/A</u> | Material <u>EARTHEN</u> |
| Page Ref. Manual <u>2-12</u> | Page Ref. Manual <u>2-12</u> |
| Structure <u>CROSS DRAIN</u> (B) | Structure <u>SEDIMENT BARRIER</u> (2) |
| Material <u>AS REQUIRED PER SECTION</u> | Material <u>LOGS & BRUSH</u> |
| Page Ref. Manual <u>2-1</u> | Page Ref. Manual <u>2-1</u> |
| Structure <u></u> (C) | Structure <u></u> FEB 7 - 1983 (3) |
| Material <u></u> | Material <u></u> OIL AND GAS DIVISION WV DEPARTMENT OF MINES |
| Page Ref. Manual <u></u> | Page Ref. Manual <u></u> |

RECEIVED

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.

REVEGETATION

| Treatment Area I & II | Tons/acre | Treatment Area VII | Tons/acre |
|--|-----------|---|-----------|
| or correct to pH <u>6.5</u> | | or correct to pH <u></u> | |
| Fertilizer <u>600</u> lbs/acre (10-20-20 or equivalent) | | Fertilizer <u></u> lbs/acre (10-20-20 or equivalent) | |
| Hay <u>2</u> Tons/acre | | Mulch <u></u> Tons/acre | |
| * KY-31 <u>35</u> lbs/acre | | Seed* <u></u> lbs/acre | |
| LADINO CLOVER <u>5</u> lbs/acre | | <u></u> lbs/acre | |
| <u></u> lbs/acre | | <u></u> lbs/acre | |

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

PLAN PREPARED BY SMITH LAND SURVEYING
ADDRESS 111 SOUTH STREET
GLENVILLE W.V. 26351
PHONE NO. 462-5634

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

ATTACH OR PHOTOCOPY SECTION OF INVOLVED TOPOGRAPHIC MAP. QUADRANGLE WILLOW ISLAND 7.5'

LEGEND

Well Site ⊕

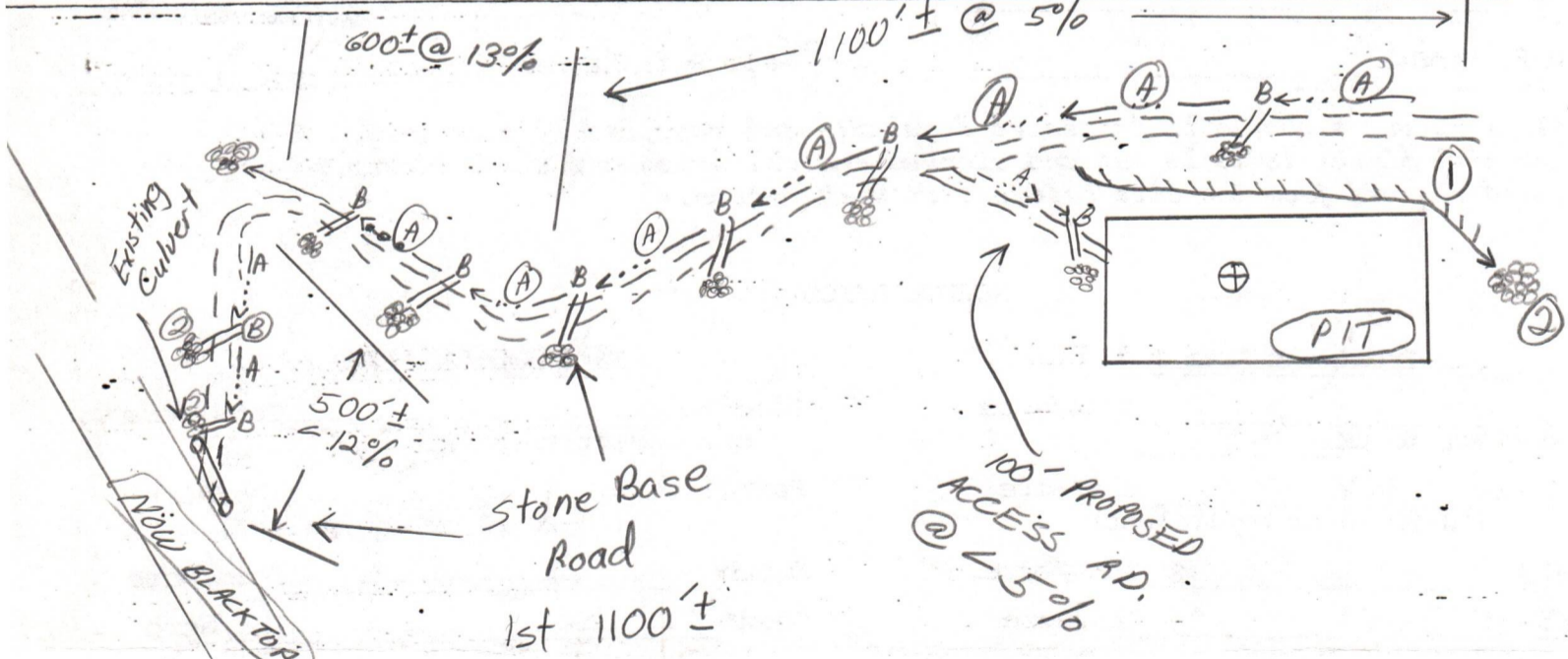
Access Road ———

WELL SITE PLAN

etch to include well location, existing access road, roads to be constructed, wellsite, filling 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 | —x—x—x—x— | Wet spot | ⊕ |
| Planned fence | —/—/—/—/— | Building | ■ |
| Stream | ~ ~ ~ ~ ~ | Drain pipe | ○→○→○→ |
| Open ditch |→.....→.....→ | Waterway | ⇄⇄⇄⇄⇄ |



NOTE: ALL EXISTING STRUCTURES WILL BE MAINTAINED. LOCATION TO BE BUILT ON FLAT NEAR ROAD.

Now ELROY'S ABANDONED BY RILL RD. State Rt. Dept. and Power

STATE OF WEST VIRGINIA
 REPRESENTED BY THE
 STATE OF WEST VIRGINIA GEOLOGICAL SURVEY
 AND OTHER STATE AGENCIES

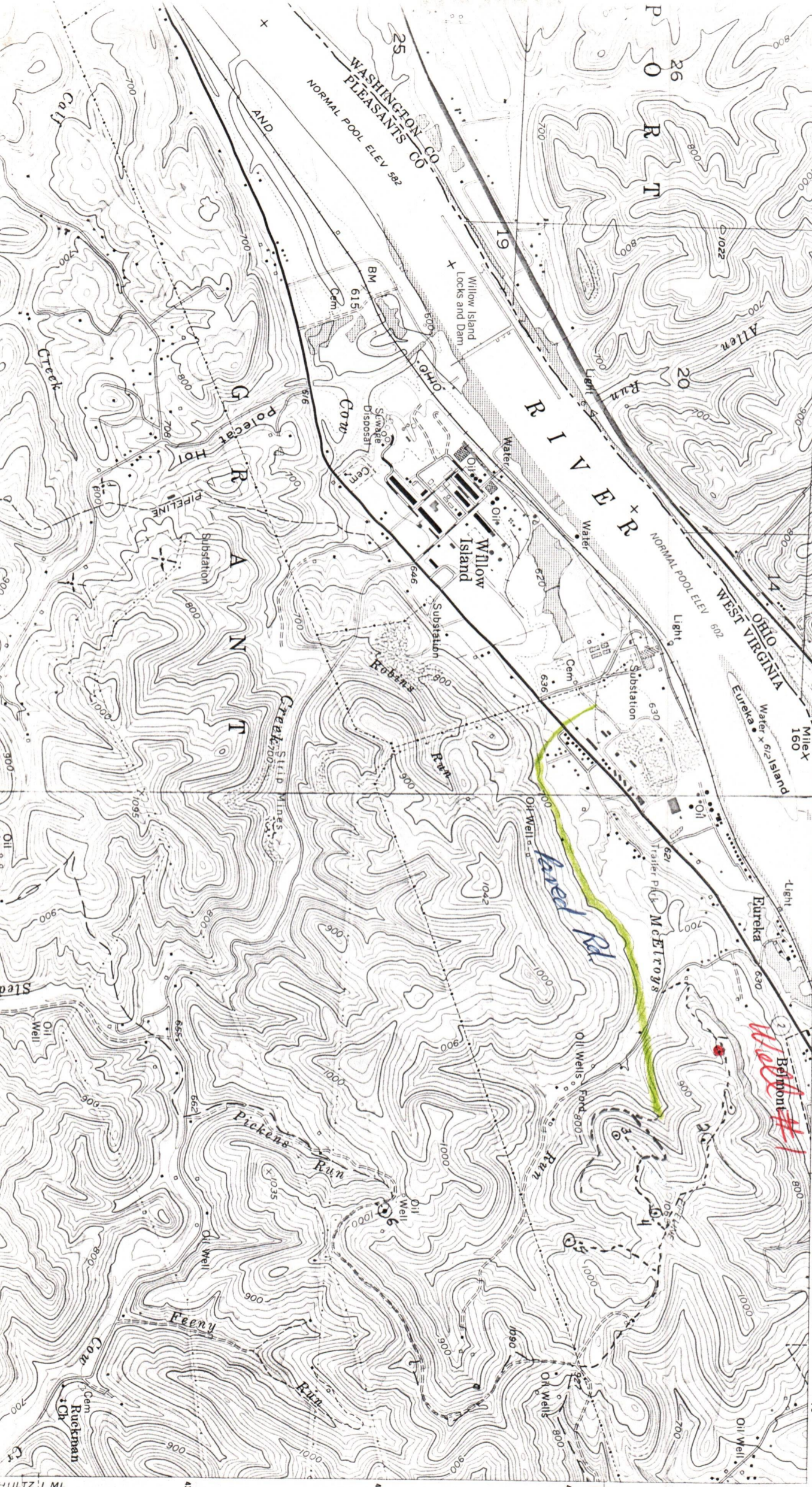
4762 IV NE
 (BELMONT)

NEW MATAMORAS 17 MI
 NEWPORT 4.8 MI

ST. MARYS 4 MI
 BELMONT 1 MI

WILLOW ISLAND QUADRANGLE
 WEST VIRGINIA—OHIO
 7.5 MINUTE SERIES (TOPOGRAPHIC)
 SE/4 MARIETTA 15' QUADRANGLE

4762 I NW
 (RAVEN ROCK)



471 20' 472 17'30"475 476 1 500 000 FEET (W. VA.) 477 478 81°15' 39°22'30"

320 000 FEET
 (W. VA.)

073-1595

Item 21

The lands to which this application applies are a part of a 1270.047 acre oil and gas lease, located in Pleasants Co. WV. The lands are a part of the Pleasants Power Station operated by Monongahela Power Company. The property is located in Grant District and lies southeast of State Route 2 on the waters of McElroy Run.

The lands to be developed are a part of that certain oil and gas lease by and between MONONGAHELA POWER COMPANY, an Ohio corporation, THE POTOMAC EDISON COMPANY, a Maryland and Virginia corporation, and WEST PENN POWER COMPANY, a Pennsylvania corporation, as lessors and GENE STALNAKER, INC. as lessee, recorded in Book 176, Page 88 in the County Clerks Office, Pleasants Co. WV. Said lease being further assigned to COLBURN ENERGY CORPORATION, a Delaware corporation which assignment of oil and gas lease is recorded in Book 178, Pages 526 to 552 in the County Clerks Office of Pleasants Co., WV.

JENKINS ENERGY CORPORATION rights to the leasehold estate are derived from a Drilling and Operating Agreement dated December 21, 1982. This agreement designates Jenkins Energy Corporation as operator of the property for and in behalf of Colburn Energy Corporation. This contract is not of record. Lessors retain 15.25% of the market value of all oil and gas produced as a royalty.

ITEM #21 EXTRACTION RIGHTS

CODE 22-4-11 (C)

Attachment to Form IV-2. (6/82)

Oil and Gas Well Permit Application

RECEIVED

FEB 7 - 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

CUSTOMER NO.



NOWSCO
WELL SERVICE
 3000 OLD AIRPORT ROAD
 WOOSTER, OHIO 44691
 (216) 264-8885

CEMENTING SERVICE ORDER
 No 4225

INVOICE NO.

CUSTOMER'S NAME Jenkins Energy Corp.
 MAILING ADDRESS PO Box 780 Bridgeport W.Va.

DATE 1983 3 6
 CUSTOMER'S ORDER NO. _____
 CONTRACTOR Salyaker RS

TYPE OF JOB/TREATMENT 8 5/8 Surface
 NAME OF WELL Mon Power # 1 PERMIT NO. 1295
 LOCATION: TWP. _____ COUNTY Pleasants STATE W.Va. FIELD _____
 SERVICE INSTRUCTIONS: Cement 8 5/8 casing

I HAVE READ, UNDERSTOOD AND AGREED TO THE TERMS AND CONDITIONS OF THE REVERSE SIDE HEREOF AND REPRESENT THAT I HAVE FULL AUTHORITY TO ACCEPT SAME AND SIGN THIS ORDER.
 RECEIPT OF MATERIALS & SERVICES ON THIS ORDER ARE HEREBY ACKNOWLEDGED.
 CUSTOMER BY S M Deal
 AUTHORIZED AGENT
C Champ
 NOWSCO REPRESENTATIVE

| PRICE LIST REFERENCE | MATERIAL & EQUIPMENT USED | QUANTITY | UNIT PRICE | AMOUNT | CUSTOMER COMMENTS |
|----------------------|--|----------------------|-----------------|--------|-------------------|
| 717-675 | Normal Cement | 100 | SACK | | |
| | Thixotropic | | SACK | | |
| 705-629 | NOWSCO POZMIX (50-50) | 150 | SACK | | |
| | Nowpoz | | LBS. | | |
| 717-689 | Bentonite <u>to Gel hole</u> | | LBS. | | |
| 717-684 | Calcium Chloride <u>9 SKS</u> | 540 | LBS. | | |
| | T-10 | | LBS. | | |
| | D-19, D-20 | | LBS. | | |
| | R-5, R-55 | | LBS. | | |
| | SAPP | | LBS. | | |
| | Cellophane | | LBS. | | |
| | Gilsonite | | LBS. | | |
| | NaCl | | LBS. | | |
| | Rubber Plugs/Wooden Plugs <u>8 5/8</u> | 1 | Each | | |
| | 7 1/2 | 1 | Each | | |
| | 7 1/2 | 1 | Each | | |
| 717-705 | <u>8 5/8 Centralizers</u> | 2 | Each | | |
| 717-750 | <u>8 5/8 Cement Baskets</u> | 2 | Each | | |
| 717-712 | <u>8 5/8 Guide Shoe</u> | 1 | Each | | |
| 717-723 | <u>8 5/8 Float Valve</u> | 1 | Each | | |
| 701-602 | Cement Service to <u>1025</u> | <u>Basic</u> 300 | FT. | | |
| 701-603 | Additional Footage | <u>Ft. Basic</u> 725 | | | |
| | Multi Stage Cementing | | | | |
| | Standby Cement Unit | | | | |
| | Extra Trucks Used to | FT. | | | |
| | Waiting Time | | hrs. | | |
| | Pump Time | | hrs. | | |
| 717-773 | Blending Charge | 259 | SACK | | |
| 717-771 | Hauling <u>11.4</u> Ton Bulk Materials <u>15</u> Miles | 170 | T.M. | | |
| | Cement Cartage on sacked cement | | | | |
| 705-622 | Distance on Cement Unit | 15 | Mi | | |

| UNIT NO. | EMP. NO. | OPERATOR |
|----------|----------|----------|
| 4023 | | C Rouse |
| 4002 | | C Champ |
| 4502 | | E Young |
| | | Jenkins |

Assoc. NowSCO Ref. No. _____
 STN. MGR. APPROVAL _____

TOTAL AMT. _____

NOWSCO WELL SERVICE

(HEREINAFTER CALLED "NOWSCO") GENERAL TERMS AND CONDITIONS OF SERVICE

The service consists of delivery to the Customer at the well of the NowSCO product requested by the Customer (hereinafter called "the product") by means of well connections furnished by the Customer, the quantities, pressures and times of delivery being subject to the Customer's directions. The Customer at all times has complete charge, custody, control and responsibility for all tubing or other connections or equipment furnished for the receipt of delivery of the product for the well, the conditions within the well, the drilling or production pipe or other equipment about or in the well and the premises about the well.

In consideration of the prices as set out in its current price schedule, it is understood that NOWSCO Service is offered, furnished and sold only under the following terms and conditions.

(1) A responsible representative of the Customer must be present at all times to designate and provide the point of connection into which the product is to be delivered and to designate the quantities of the product to be delivered, the pressures at which the same shall be delivered, and the times at which the same shall be delivered.

(2) If, in order to gain access to or to return from the well, it is necessary to repair roads or bridges or to provide tractors, vessels or other special means of transportation for NOWSCO equipment, material or personnel, such shall be arranged and paid for by the Customer. The Customer shall be fully responsible for and shall indemnify NOWSCO against any loss arising as a result of any damage to or loss of any of NOWSCO's equipment or materials while same are being transported to or from the well by means furnished or arranged for by Customer or while such equipment or materials are being loaded upon or attached to any special means of transportation furnished or arranged for by Customer.

(3) Except for damage caused solely by negligence of NOWSCO, its agents, servants or employees, Customer will indemnify and save NOWSCO harmless from any loss due to damage not customarily protected against by insurance and arising in the course of the movement of the equipment or materials between the well and the public highway used by NOWSCO in reaching or returning from the well or arising in the course of or in connection with performance of the services contracted for.

(4) While NOWSCO will render the services contracted for to the best of its ability, it does not guarantee any results and, except in the case of gross or willful negligence on its part, shall not be liable or responsible for any damage to the well or any well equipment, any subsurface damage or surface damage arising out of the subsurface damage or operations or for any loss or damage whatsoever including injury to or death of persons, reservoir loss or property damage growing out of or in any way connected with its operation and Customer shall absolve and hold NOWSCO harmless against all liability for any such loss or damage sustained or incurred by Customer or any third party irrespective of the cause.

(5) NOWSCO's equipment, including but not limited to, tubing, surface equipment and related instruments is designed to operate under normal conditions encountered at the service site, industrial facility, the well, on the rig or in the well bore. Under abnormal or bad conditions, NOWSCO's equipment may become stuck and/or chemicals, stranded or broken cables and debris and other hazards. When NOWSCO's equipment is lost during any service application, customer will pay for accrued service performed, up to the time of loss. Customer assumes full responsibility of fishing operations if same are necessary and all cost of recovering lost equipment and all repairs necessary upon recovery, if not recoverable, customer will pay for such lost equipment. Proper credit will be issued for any such equipment subsequently recovered and returned to NOWSCO.

(6) All statements rendered for services performed by NOWSCO shall be paid at its offices in Wooster, Ohio, within thirty days from date of statement. If not paid within thirty days, the unpaid amount of such bill shall bear interest at the rate of one and one-half percent per month (eighteen percent per annum) and, if necessary to be collected by an attorney, an additional amount equal to twenty percent of the total amount due shall become due and payable as attorney's fees.

(7) This contract shall be construed in accordance with the laws of the states in which the services are performed.

(8) All of the preceding terms and conditions shall apply in favor of any manufacturer or supplier of any equipment NOWSCO may use in the performance or attempted performance of any of its services.

(9) Prices listed in NOWSCO's current schedule do not include sales or similar taxes and it reserves the right to add such taxes, if any, to its published prices. Any tax based on or measured by the charges made for, or the cash receipts from the sale of materials or products or the rendering of services shall be added to the stated price.

Failure to enforce any or all of the above terms and conditions in a particular instance shall not constitute a waiver of or preclude subsequent enforcement.

No employee or agent of NOWSCO is empowered to alter or waive any of the terms and conditions.

Prices are subject to change without notice.



Date March 28, 1983
 Operator's
 Well No. One (1)
 Farm Monongahela Power
 API No. 47 - 073 - 1595

RECEIVED State of West Virginia
 Department of Mines
 Oil and Gas Division
 DEC 13 1983

OIL & GAS DIVISION
DEPT. OF MINES WELL OPERATOR'S REPORT
 OF
 DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE **RECEIVED**
 JAN 30 1984

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal **DEPT. OF MINES**
 (If "Gas," Production X / Underground Storage / Deep / Shallow /)

LOCATION: Elevation: 909 Watershed McElroy Run of Ohio River
 District: Grant County Pleasants Quadrangle Willow Island 7.5

COMPANY Jenkins Energy Corp.
 ADDRESS P.O. Box 980, Bridgeport, W.va.
 DESIGNATED AGENT Carlton Davis
 ADDRESS P.O. Box 980, Bridgeport, W.va.
 SURFACE OWNER Monongahela Power Co.
 ADDRESS
 MINERAL RIGHTS OWNER Monongahela Power Co.
 ADDRESS
 OIL AND GAS INSPECTOR FOR THIS WORK Robert Lowther
 ADDRESS Middlebourne, W.Va.
 PERMIT ISSUED February 4, 1983
 DRILLING COMMENCED March 5, 1983
 DRILLING COMPLETED March 11, 1983
 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. | | | |
| 11 3/4 | 75 | 75 | to surface |
| 9 5/8 | | | |
| 8 5/8 | 1012 | 1012 | to surface |
| 7 | | | |
| 5 1/2 | | | |
| 4 1/2 | | 4,888 | |
| 3 | | | |
| 2 | | | |
| Liners used | | | |

GEOLOGICAL TARGET FORMATION Hamilton Shale Depth 4990 feet
 Depth of completed well 4940 feet Rotary X / Cable Tools
 Water strata depth: Fresh 80 feet; Salt 700 feet
 Coal seam depths: Is coal being mined in the area?

OPEN FLOW DATA
 Producing formation Hamilton Shale Pay zone depth 4100 feet
 Gas: Initial open flow Show Mcf/d Oil: Initial open flow Bbl/d
 Final open flow 300 Mcf/d Oil: Final open flow Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure 800 psig (surface measurement) after 72 hours shut in
 (If applicable due to multiple completion--)
 Second producing formation Brallier Shale Pay zone depth 2640 feet
 Gas: Initial open flow 6.2M Mcf/d Oil: Initial open flow Show Bbl/d
 Final open flow 450 Mcf/d Oil: Final open flow Show Bbl/d
 Time of open flow between initial and final tests 4 hours
 Static rock pressure psig (surface measurement) after 72 hours shut in

PLAS 1595

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

3 stage treatment 40 holes per stage with 750,000 scf N₂ per stage.

- Perf 40 Holes 4575-4858 - Stimulate with 600,000 standard cubic feet of Nitrogen
- Perf 40 Holes 3488-4154 - Stimulate with 900,000 standard cubic feet of Nitrogen
- Perf 40 Holes 3030-3356 - Stimulate with 1,000,000 standard cubic feet of Nitrogen

WELL LOG

| FORMATION | COLOR | HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas |
|---|-------|--------------|----------|-------------|--|
| Top Soil, Surface Clay, Sand Shale and Lime Streaks | | | 0 | 1080 | |
| Big Lime | | | 1080 | 1164 | |
| Big Injun Sand | | | 1190 | 1310 | Oil & Gas |
| Berea Sand | | | 1696 | 1708 | Oil & Gas |
| Gordon Sand | | | 2096 | 2130 | Oil & Gas |
| Brallier Shale | | | 2640 | 3770 | Oil & Gas |
| Huron Shale | | | 3770 | 4100 | Gas |
| Hamilton Shale | | | 4100 | 4940 | Gas |

(Attach separate sheets as necessary)

Jenkins Energy Corp.

Well Operator

By: *John Mitchell*

Date: *11-10-83*

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 WELLS DIVISION

RECEIVED

MAR 9 - 1983

INSPECTOR'S WELL REPORT

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

Permit No. 073-1595

Oil or Gas Well _____
(KIND)

| | | | | |
|---|--|------------------|--------------|----------------------|
| Company <u>Jenkins Energy</u> | CASING AND TUBING | USED IN DRILLING | LEFT IN WELL | PACKERS |
| Address <u>Bridgeport W. Va</u> | Size | | | |
| Farm <u>monongahela power</u> | 16 | | | Kind of Packer _____ |
| Well No. <u>1</u> | 13 | | | |
| District <u>Grant</u> County <u>pleasant</u> | 10 | | | Size of _____ |
| Drilling commenced <u>3-4-83</u> | 8 1/4 | <u>1027</u> | <u>1027</u> | |
| Drilling completed _____ Total depth <u>1178</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 <u>8 1/4</u> SIZE <u>1027</u> No. FT. <u>3-6-83</u> Date | | | |
| Fresh water _____ feet _____ feet | NAME OF SERVICE COMPANY <u>nowaco</u> | | | |
| Salt water _____ feet _____ feet | COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES | | | |
| | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |
| | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |

Drillers' Names Gene Shalnaker contractor
Remarks: Broke Down

3-7-83
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR

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

RECEIVED

MAR 14 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1595

Oil or Gas Well _____
(KIND)

Company Jenkins Energy
 Address Bridgport W. Va.
 Farm monongahela power
 Well No. 1
 District Grant County pleasant
 Drilling commenced _____
 Drilling completed _____ Total depth 3833
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume Est 6,000,000 _____ 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 3/8 | | | 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 Frank Amos Toolpusher
Gene Stalnaker Contractor
 Remarks: well killed with water well drill deeper

3-10-83
DATE

R.A. Lowther
DISTRICT WELL INSPECTOR

Form 26
2/16/82

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: _____

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

DISTRICT WELL INSPECTOR

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

RECEIVED

MAR 17 1983

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES

INSPECTOR'S WELL REPORT

Permit No. 073-1595

Oil or Gas Well _____
(KIND)

| | | | | |
|---|--|------------------|--------------|----------------------|
| Company <u>Jenkins Energy</u> | CASING AND TUBING | USED IN DRILLING | LEFT IN WELL | PACKERS |
| Address <u>Bridgport w/Car</u> | Size | | | |
| Farm <u>monongahela power</u> | 16 | | | Kind of Packer _____ |
| Well No. _____ | 13 | | | Size of _____ |
| District <u>Grant</u> County <u>pleasant</u> | 10 | | | |
| Drilling commenced _____ | 8 1/4 | | | Depth set _____ |
| Drilling completed <u>3-11-83</u> Total depth <u>5000</u> | 6 5/8 | <u>4 1/2</u> | <u>4971</u> | |
| Date shot _____ Depth of shot _____ | 3 | | | Perf. top _____ |
| Initial open flow _____ /10ths Water in _____ Inch | 2 | | | Perf. bottom _____ |
| Open flow after tubing _____ /10ths Merc. in _____ Inch | Liners Used | | | Perf. top _____ |
| Volume _____ Cu. Ft. | | | | Perf. bottom _____ |
| Rock pressure _____ lbs. _____ hrs. | CASING CEMENTED <u>4 1/2</u> SIZE <u>4971</u> No. FT <u>3-12-83</u> Date | | | |
| Oil _____ bbls., 1st 24 hrs. | NAME OF SERVICE COMPANY <u>Howseco</u> | | | |
| Fresh water _____ feet _____ feet | COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES | | | |
| Salt water _____ feet _____ feet | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |
| | _____ FEET _____ INCHES _____ FEET _____ INCHES | | | |

Drillers' Names _____

Remarks: _____

3-14-83

DATE

R.A. Louth

DISTRICT WELL INSPECTOR



RECEIVED
JUN 27 1984

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

OIL & GAS DIVISION
DEPT. OF MINES

FINAL INSPECTION REPORT
INSPECTORS COMPLIANCE REPORT
February 6, 1984

COMPANY Jenkins Energy Corporation

PERMIT NO 073-1595 (2-83)

P. O. Box 980

FARM & WELL NO Monongahela Power #1

Bridgeport, West Virginia 26330

DIST. & COUNTY Grant/Pleasants

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

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

SIGNED

R. A. Lowther

DATE

June 26, 1984

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. H. v. B. B.
Administrator-Oil & Gas Division

July 23, 1984

DATE

2-7-83

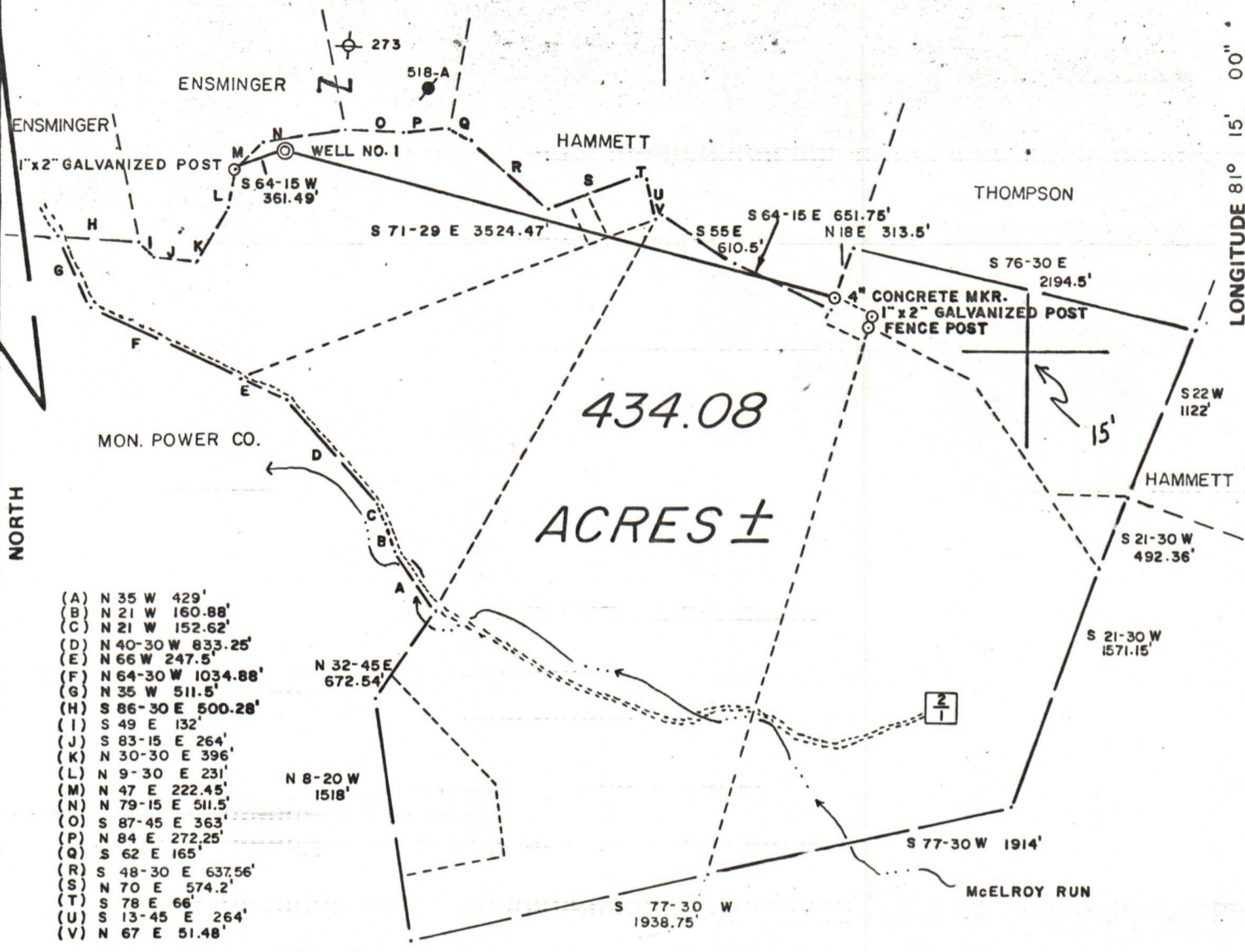
7390'

LATITUDE 39° 22' 30"
39° 25' 00"

1600'

LONGITUDE 81° 15' 00"

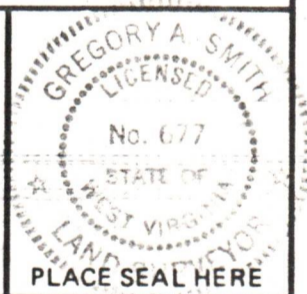
MON - POWER LEASE - WELL NO. 1



- (A) N 35 W 429'
- (B) N 21 W 160.88'
- (C) N 21 W 152.62'
- (D) N 40-30 W 833.25'
- (E) N 66 W 247.5'
- (F) N 64-30 W 1034.88'
- (G) N 35 W 511.5'
- (H) S 86-30 E 500.28'
- (I) S 49 E 132'
- (J) S 83-15 E 264'
- (K) N 30-30 E 396'
- (L) N 9-30 E 231'
- (M) N 47 E 222.45'
- (N) N 79-15 E 511.5'
- (O) S 87-45 E 363'
- (P) N 84 E 272.25'
- (Q) S 62 E 165'
- (R) S 48-30 E 637.56'
- (S) N 70 E 574.2'
- (T) S 78 E 66'
- (U) S 13-45 E 264'
- (V) N 67 E 51.48'

FILE NO. 8-1
 DRAWING NO. _____
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/200
 PROVEN SOURCE OF ELEVATION T.B.M. MON. POWER CO. ELEV. 826.61'

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) Gregory A. Smith
 R.P.E. _____ L.L.S. 677



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



DATE JUNE 29, 1982
 OPERATOR'S WELL NO. 1
 API WELL NO. _____
47 - 073 - 1595
 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 909' WATER SHED McELROY RUN
 DISTRICT GRANT COUNTY PLEASANTS
 QUADRANGLE WILLOW ISLAND 7.5'
 SURFACE OWNER MONONGAHELA POWER COMPANY ACREAGE 434.08
 OIL & GAS ROYALTY OWNER MONONGAHELA POWER COMPANY LEASE ACREAGE 1158.22
 LEASE NO. _____
 PROPOSED WORK: DRILL X 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 ___
 TARGET FORMATION DEVONIAN SHALE ESTIMATED DEPTH 4990'
 WELL OPERATOR JENKINS ENERGY CORP. DESIGNATED AGENT CARL DAVIS
 ADDRESS P.O. BOX 980 BRIDGEPORT, W.V. 26330 ADDRESS P.O. BOX 980 BRIDGEPORT, W.V. 26330