



FORM TV-35 SEP 12 1983

ttom Hole

Pf=861 psi

Date: September 2 , 19 83 Operator's Well No. J-650 API Well No. 47 - 077 - 1790 Permit

## GIL & GAS DIVISION DEPARTMENT OF MENT MERGINIA DEPT. OF MINES

WELL OPERATOR'S REPORT

OP

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL THANGE

|                          | Llevatio            | <b>n:</b> _ `    | 1730               |  | Watershed:      | Sandy Cree      | K.                        |                 |
|--------------------------|---------------------|------------------|--------------------|--|-----------------|-----------------|---------------------------|-----------------|
| :                        | District            | :R               | eno                |  | County: Pre     | eston           | adrangle: F               | ellowsville     |
|                          |                     |                  |                    |  |                 |                 | Richard                   |                 |
| Address                  |                     |                  |                    |  |                 | Address         | P.O. Bo                   | x 48            |
| ,                        | Bu                  | ıckhan           | non, V             | wv 262   | 01              |                 | Buckhar                   |                 |
| PERMITTED WI             | Plu                 | ig off           | old for            | rmation  | /               | rate new format | rill/ Frac                |                 |
| PERMIT ICSU              | ED ON               | 9/8              |                    | ,  | 19_83_          | OIL & GAS INS   | SPECTOR FOR THIS          | WORK:           |
| /IF APPLICA              | BLE: PL             | UGGING           | OF DRY             | HOLE (   | on .            | Name Wr         | n. Blosser                |                 |
| CONTIN<br>REWORK         | JOUS PRO<br>ING. VE | GRESSI<br>RBAL P | ON FROM<br>ERMISSI | CEEC NO.   | ING OR<br>AINED | Address         | Rt. # 4, Bo               | 0x 317          |
|                          |                     |                  |                    |  |                 |                 | Fairmont,                 | WV 26564        |
|                          |                     |                  |                    |  | Haverty         |                 | Depth _525                | 5-60feet        |
|                          |                     |                  |                    |  |                 |                 | Cable Tools               |                 |
|                          |                     |                  |                    |  |                 | ,Ofeet.         |                           |                 |
|                          |                     | -                |                    |  |                 |                 | the area: NO              |                 |
|                          |                     |                  |                    |  |                 |                 |                           |                 |
| Work w                   | as comme            | enced _          |                    | 6/16   | , 19 <u>.83</u> | _, and complete | d <u>6/24</u>             | , 19 <u>03</u>  |
| CASING AND               |                     | PROGRAN          | 4                  |  |                 |                 |                           |                 |
|                          |                     |                  |                    | ONS  | # FOOTA         | E INTERVALS     | CEMENT FILL-UF            | N PACKET        |
| CASING OR<br>TUBING TYPE |                     | 37 <u>=</u> 62   | Weight             | J., J.   |                 |                 | OR SACKS<br>(Cubic feet)  |                 |
| Conductor                |                     |                  |                    |  | **              | 0               | 0 sks.                    |                 |
| Fresh water              | 11                  |                  | 1                  |  |                 | 1260.86         | 8                         |                 |
|                          | il                  | 1                | ì                  | 1 1  |                 | 1260.86         | 215 aka                   | Sizes           |
| Ccal                     | - 11                | ERW              | 23                 | <del>                                     </del> | 1260.86         | 1200.00         |                           |                 |
| <u>Intermedia</u>        | 45                  | J-55             | 10.5               | x  | 5649.70         | 5649.70         | 525 sks.                  | Cesths set      |
| Production               | <u> </u>            |                  |                    | ++   |                 |                 |                           |                 |
| Tubing                   |                     |                  |                    | +-+  | -               |                 | 1                         | Perforations:   |
| Liners                   |                     |                  |                    |  |                 |                 |                           | II .            |
|                          | -                   |                  |                    | ++   |                 |                 |                           | 5485 5          |
|                          | #                   | <del> </del>     | <u> </u>           | ┼┼   |                 | _               |                           | 5130 5          |
|                          |                     | <u> </u>         | <u> </u>           |  | <u> </u>        |                 |                           | 4416 4          |
| ODEN FLOW                | 2.72                |                  |                    |  |                 |                 |                           | 4189 4          |
| OPEN FLOW                |                     |                  |                    |  | Havertv         |                 | Pay zone dept             | h 5485-5544     |
|                          | das: In             |                  |                    |  |                 |                 | al open flow,             |                 |
|                          |                     |                  |                    |  |                 |                 | open flow,                | •               |
| COM                      | Tued : 1            |                  |                    |  |                 |                 | ests, 4 hour              |                 |
|                          | _                   |                  | _                  |  |                 |                 |                           |                 |
|                          | Static r            | ock br           | essure,            | 790  | psig (surf      | toe measurement | ) after <u>96</u> ho<br>: | <u>(5130-34</u> |
| III a                    | es licabi           | e iue            | to mult            | iple of  | ompletion]      | poe vace        | :                         | 4416-21         |
|                          | •                   | _                |                    |  |                 |                 | Pay zone dept             | 1               |
|                          |                     |                  |                    |  |                 |                 | al open flow, _           |                 |
|                          | 7:                  |                  |                    |  |                 |                 | open flow,                |                 |
|                          |                     | 71=              |                    |  |                 |                 | ests, hour                |                 |
|                          |                     |                  |                    |  |                 |                 |                           |                 |
| Pressure                 | Eratio :            | rock pr          | e:5_re             |  | psig (surf      | ace measurement | after h                   | ours shit in    |
| GLS                      |                     |                  |                    | ٦.   | 3               |                 | after had                 |                 |

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STITULATING, PHYSICAL THANGE, ETC.

Haverty: Perforations: 5485-86 (3 holes) 5534-36 (6 holes) 5542-44(6 holes) Fracturing: 5,000 lbs. 80/100 sand: 25,000 lbs. 20/40 sand: 500 gal. Acid:

480 Bbls. fluid.

4th ELk: Perforations: 5130-34 (16 holes)
Fracturing: 5,000 lbs. 80/100 sand: 26,000 lbs. 20/40 sand: 500 gal. Acid:

480 Bbls. fluid.

1st. ELk: Perforations: 4416-21 (15 holes)

Fracturing: 5,000 lbs. 80/100 sand: 24,000 lbs. 20/40 sand: 500 gal. Acid:

480 Bbls. fluid. alexander

Benson: Perforations: 4189-90 (3 holes) 4195-98(9 hoels)
Fracturing: 5,000 lbs. 80/100 sand: 24,000 lbs. 20/40 sand: 500 gal. Acid:

480 Bbls. fluid.

**WELL 103** 

|                    |           | ı               | l                 |                | Remarks Including indication of all freen                           |
|--------------------|-----------|-----------------|-------------------|----------------|---|
| FORMATION          | Color     | Hard or<br>Soft | Too Feet          | Bottom<br>Feet | Including indication of all freen and salt water, coal, oil and gas |
|                    | 0013.     |                 | 0                 | 75             | 1.0 321 72.0., 552, 52. 1.7 432                                     |
| Shale & red rock   | . abala   |                 | 75                | 120            | Damp @ 45'  |
| Shale, sand & sand | Share     |                 | 120               | 160            | Damp 6 43   |
| Red rock & shale   |           |                 | 160               | 200            | ئ" stream @ 100'  |
| Sandy shale & red  | rock      | ł               | 200               | 610            | 2 Stream e 100  |
| Sand & shale       |           |                 | 610               | 620.           | ½" stream @ 400'  |
| Black shale        |           |                 | 1                 | 880            | 2 Stream e 400  |
| Sand & shale       |           |                 | 620<br>880        | 910            | ½" stream @ 1750  |
| Black shale        |           |                 | 1                 |                |   |
| Sand, sandy shale  |           |                 | 910               | 1200           | Gas ck @ 1838 No show   |
| Sandy shale, red r |           |                 | 1200              | 1270           |   |
| Sandy shale, red r | bck and s | and             | 1270              | 1490           | Gas ck @ 2416 No show   |
| Little lime        |           |                 | 1490              | 1510           |   |
| Red rock and shale |           | ·               | 1510              | 1520           | Gas ck @ 2925 No show   |
| Big Lime           |           | İ               | 1520              | 1550           |   |
| Red rock & shale   |           |                 | 1550              | 1620           | Gas ck @ 3631 No show   |
| Injun              |           |                 | 1620              | 1755           |   |
| Shale, sand & red  | rock      |                 | 1755              | 2820           | Show of oil @ 3900  |
| Shale & sand       |           |                 | 2820              | 3305           |   |
| Balltown           |           |                 | 3305              | 3460           | Gas ck @ 4208 No show   |
| Shale & sand       |           |                 | 3460              | 4189           |   |
| Benson             |           |                 | 4189              | 4198 ·         | Gas ck @ 4301 No show   |
| Sandy shale        |           |                 | 4198              | 4416           |   |
| lst Elk            |           |                 | 4416              | 4421           | Gas ck @ 4780 No show   |
| Shale              |           |                 | 4421              | 4630           |   |
| 2nd ELk            |           |                 | 4630              | 4660           | Gas ck @ 5227 No show   |
| Sandy shale        |           |                 | 4660 <sup>-</sup> | 5130           | dab on c 522, its bile.   |
| 4th Elk            |           | į.              | 5130              | 5134           | Gas ck @ 5734 No show   |
| Sandy shale        |           | 1               | 5134              | 5485           |   |
| Haverty            |           |                 | 5485              | 5544           | Gas ck @ Drill collars No s   |
| Sandy shale        |           |                 | 5544              | 5860           | 000 011 0011110 110 1   |
|                    |           |                 |                   | T.D.           | Prallier @ TD.  |
|                    |           |                 |                   |                | - Succession 12.  |

(Attack separate sheets to complete as necessary.

J&J Enterprises, Inc. Robert Danlin <del>Ceologist</del>

Regulation 2.32(i) provides as follows:

"The term 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including soal, encountered in the inighting of a well."

(6-82)

DRILLING CONTRACTOR:

Drilling Co.



| 1) | Date:      | February | 18 | , 19 | 3. |
|----|------------|----------|----|------|----|
| 2) | Omerator's |          |    |      |    |

Well No. 47 238

3) API Well No. Fermit

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

## OIL AND GAS WELL PERMIT APPLICATION

| District:  | WELL TYPE   |  | 'Gas'', Pro   |   |                         |  | Underground st   | orage  | _/ Deep  | / Shallow/)   |
|--|---|--|---|---|-------------------------|--|--|--|--|---|
| WELL OPERATOR  Address  Addres | LOCATION:   | Eleva  | tion:   | 1730  |                         |  | Watershed:   | Sandy C  | rock   |   |
| Address  OIL & GAS  ROYALTV OWNER  Totogreather Lumber Co.  Address  Addres |   |  |   | 2251727   |                         |  | The state of the s | 10.0011  |  |   |
| COAL OPERATOR MORE Address  Acreage  SURFACE OWNER Address  Acreage  SURFACE OWNER Address  Acreage  Address  Acreage  Address  A |   | ATOR   | 363 Er  | terpri  | ses,                    | Inc.   | 11   |  |  |   |
| Address Addres | Addiess   |  | Pack be   | OX AU   | 1007 S                  | 6201   |  | Address _  | 2 400 400  | 200   |
| Address  SURFACE OWNER  Acreage  Address  Addres | OIL & GAS   |  |   | dillour   |                         | SHAM   |  |  | -  |   |
| Actress SURFACE OWNER Address SURFACE OWNER Address SURFACE OWNER Actress SURFACE Actress SURFACE OWNER Actress SURFACE Actress SURFACE Actress SURFACE Actress SURFACE Actress SURFACE Actress Address SURFACE Actress Address  |   | WNER _   |   |   |                         | r Co.  | 12   |  | OR None  |   |
| Acreage Acreage Acreage Acreage Address Addres | Address   |  |   |   |                         | 0.0000   |  | Address _  |  |   |
| SURFACE OWNER TRANSPORTER TO BE NOTIFIED  Address Summaria Summaria Address Summaria Summ | Acreage   |  |   | wood,   | 100                     | ZB33/  |  | COAL OWNER   | S) WITH DECLAR   | ATION ON RECORD:  |
| Address Addres |   | WNER_  |   | tate I  | ambe                    | or Co.   |  |  |  |   |
| Address Addres |   |  |   |   |                         |  |  |  |  |   |
| FIELD SALE (IF MADE) TO:  Address  14) COAL LESSEE WITH DECLARATION ON RECORD:  Name  Address   |  | Kingsac   | od, M   | 2 28                    | 537  |  | _  | Pittsburch   | Pa. 15219   |
| OIL & GAS INSPECTOR TO BE NOTIFIED  Name  Address  Address  Address  Address  Address  Address  Address  Address  Address  PROPOSED WORK: Drill.   |   | and the same   |   |   |                         |  |  |  |  |   |
| OIL & GAS INSPECTOR TO BE NOTIFIED  Name  Address  Address  Address  Address  Address  PROPOSED WORK: Drill  |   | (IF MAD  |   |   |                         |  |  | Address _  |  |   |
| OIL & GAS INSPECTOR TO BE NOTIFIED  Name  Address  PROPOSED WORK: Drill   Drill deeper   Redrill   Fracture or stimulate.   PROPOSED WORK: Drill   Drill deeper   Redrill   Fracture or stimulate.   PROPOSED WORK: Drill   Drill deeper   Redrill   Fracture or stimulate.   Other physical change in well (specify)  GEOLOGICAL TARGET FORMATION,   Feet   19) Approximate vater strata depth of completed well,   Feet   19) Approximate vater strata depths: Fresh,   50   | Address   | -  | Unknos  | m   |                         |  | 1/   | COALLESSEE   | WITH DECLAPATI   | ON ON PECOPD.   |
| Name Address  PROPOSED WORK: Drill Drill deeper / Redrill / Fracture or stimulate / Drill deeper / Redrill / Fracture or stimulate / Perforate new formation Other physical change in well (specify)  GEOLOGICAL TARGET FORMATION,   | OIL & GAS I   | NSPECTO  | R TO BE   | NOTIFIE   | D                       |  |  |  |  | ON ON RECORD.   |
| PROPOSED WORK: Drill   |   |  |   |   |                         |  |  |  |  |   |
| PROPOSED WORK: Drill   | Address   |  | 100000000000000000000000000000000000000   |   |                         |  |  |  |  |   |
| Plug off old formation Perforate new formation GEOLOGICAL TARGET FORMATION,  (T) Estimated depth of completed well, feet; salt, feet; salt, feet; salt, feet.  (B) Approximate coal seam depths: see on the feet; salt, feet; salt, feet.  (S) Approximate coal seam depths: see on the feet; salt, feet; salt, feet.  (S) Approximate coal seam depths: see on the feet; salt, feet.  (S) Approximate coal seam depths: see on the feet; salt, feet.  (S) Approximate coal seam depths: see on the feet; salt, feet.  (S) Approximate coal seam depths: see on the feet; salt, feet.  (ASING AND TUBING PROGRAM  (ASING OR TUBING PROGR |   |  |   |   |                         |  |  | P 16 18  |  | THE PERSON NAMED IN   |
| Other physical change in well (specify)    Feet   Content   Conten | PROPOSED  | WORK:  |   |   |                         | - 6  |  |  |  |   |
| GEOLOGICAL TARGET FORMATION,  17) Estimated depth of completed well,  18) Approximate water strate depths:  18) Casinate water strate depths:  19) Approximate water strate depths:  18) Estimated water strate depths:  18) Estimated water strate depths:  18) Separative water water water strate water w |   |  |   |   |                         |  |  | ew formation   |  |   |
| 17) Estimated depth of completed well,   | GEOLOGICA   | AL TARGE   |   |   | -                       | ven (spec  |  |  |  |   |
| 18) Approximate water strata depths: Fresh,  |   |  |   |   |                         | 550  |  |  |  |   |
| CASING AND TUBING PROGRAM  CASING OR TUBING TYPE  Size  Grade  Gr |   |  |   |   |                         |  |  | salt,  | feet.  |   |
| Conductor TUBING TYPE Size Grade per ft. New Used Per drilling Left in well Conductor  | 19) Approxir  | nate coal se   | am depths   | 30  | 10                      |  | Is coa   | being mined in the a   | rea? Yes   | / No  |
| TUBING TYPE   Size   Orade   Perft.   New   Used   For drilling   Left in well   Cobbe feet   Kinds  | CASING AN   | D TUBINO   | PROGR.  | AM  |                         |  |  |  |  |   |
| TUBING TYPE   Size   Grade   per ft.   New   Used   For drilling   Left in well   Clubbe feet   Kinds  |   | 11   |   |   | 10                      | 11   | FOOTAG   | n manage of the state of the st | CELUENT BUY UP   | II DACVERS  |
| 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.    Perforations:   Top   Bottom  |   | 01   |   | Weight  |                         | Treed.   |  |  | OR SACKS   | PACKERS   |
| 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 22-41-(c) (1) through (4). (See reverse side for specifics.)  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 a 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 extract produced or marketed? Yes   No    Reaquired Copies (See reverse side.)  Copies of this Permit Application and the enclosed plat and realamation plan have been mailed by registered mail or delivered by hand to the abnumed 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 Mines at Charleston, West Virginia.  Notary  OFFICE USE ONLY  DRILLING PERMIT  Date  Signed:  Its:  Department overing the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal rements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector.  The requirement of contraction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify per district oil and gas inspector 24 hours before actual permitted work has commenced.   | Conductor   |  |   |   |                         | Used   |  |  |  | Vinde   |
| 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 22-41-(c) (1) through (4). (See reverse side for specifics.)  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 a 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 extract produced or marketed? Yes \( \) No \( \) he answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.  Required Copies (See reverse side.)  Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the abnamed 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 Mines at Charleston, West Virginia.  Notary:  OFFICE USE ONLY  DRILLING PERMIT  Date  Its:  OFFICE USE ONLY  Date  Its:  Date  Its:  OFFICE USE ONLY  Date  Its:  Date  Its:  Its:  OFFICE USE ONLY  Date  Its:  Its:  OFFICE USE ONLY  Date  Its:  OFFICE USE ONLY  Date  Its:  OFFICE USE ONLY  Date  Its:  Its:  OFFICE USE ONLY  Date  Its:  OFFICE USE ONLY  Are an an analysing the well operator or his contractor shall notify gere |   | -  |   |   | ×                       |  |  |  |  | Kilius  |
| Production Tabling Liners  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 specifies.) 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 a 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 extract produced or marketed? Yes   No    the answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.) Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the abornamed 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 Mines at Charleston, West Virginia.  Notary:  OFFICE USE ONLY  Date  Signed:  Its:  OFFICE USE ONLY  Date  The requirement of Code 22-4-1-(c) (1) through (4). (See reverse side for specifies.)  Part of this Permit Application to the Department of the province of the provin |   | 8 5.6  | ERM   | 23  | ×                       |  |  |  |  | Sizes   |
| 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.)  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 a 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 extract produced or marketed? Yes No Required Copies (See reverse side.)  Required Copies (See reverse side.)  Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the aboramed 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 Mines at Charleston, West Virginia.  Notary Royald Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the aboramed 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 Mines at Charleston, West Virginia.  Notary Royald Application and the providence of permission granted to drill in accordance with the pertinent legal rements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector.  Providence of permission granted to drill in accordance with the pertinent legal rements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector.  Providence of the District Oil and Gas Inspector.  Required Construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the permit expires.  Unless dril | Intermediate  |  |   |   |                         |  |  |  |  |   |
| 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.)  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 a 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 extract produced or marketed? Yes No he answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60. Required Copies (See reverse side.)  Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the about a coal owner(s), and coal lessee on or before the day of the mailing or delivery of this Permit Application to the Department Mines at Charleston, West Virginia.  Notary:  OFFICE USE ONLY  DRILLING PERMIT  Date  Signed:  Its:  Date  Signed:  Its:  OFFICE USE ONLY  Drive to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. Fee 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 per district oil and gas inspector 24 hours before actual permitted work has commenced.)  unless drilling is commenced prior to that date and prosecuted with due dilige.  | Production  | 44   | 3-89  | 10.5  | 21                      |  | 5550   | 5550   | 400 ales.  | Depths set  |
| 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 22-41-(c) (1) through (4). (See reverse side for specifics.)  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 a 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 extract produced or marketed? Yes \  No \  he answer above is No, nothing additional is needed. If the answer is Yes, you may use Affidavit Form IV-60.  Required Copies (See reverse side.)  Copies of this Permit Application and the enclosed plat and reclamation plan have been mailed by registered mail or delivered by hand to the abornamed 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 Mines at Charleston, West Virginia.  Notary:  OFFICE USE ONLY  DRILLING PERMIT  Date  OFFICE USE ONLY  DRILLING PERMIT  Top  Bottom  Top  | Tubing  |  |   |   |                         |  |  |  |  |   |
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| 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.)    ROYALTY PROVISIONS   |   |  |   |   |                         |  |  |  |  | Top Bottom  |
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| rements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector.  fer 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 per district oil and gas inspector 24 hours before actual permitted work has commenced.)  mit expires   | Include The rec ROYALTY P Is the right to similar provisi produced or n he answer abov Required Cop Copies of this named coal op Mines at Char Notary: My Commission mit number | ed is the lead quirement of ROVISION extract, profine for commarketed? The is No, no cies (See rev. Permit Apperator, conflector, we have a conflector, we have a conflector of the conflector o | ase or lease of Code 22 NS oduce or m mpensation Yes  thing addit verse side.) oplication a al owner(s) | arket the or to the own No tional is not the end, and coal. | oil or gavner of eeded. | gh (4). (5) s based u the oil of the and plat an | See reverse side for pon a lease or other gas in place who swer is Yes, you reclamation plan I fore the day of the FFICE USE CRILLING PER  | r specifics.)  r continuing contract the is not inherently may use Affidavit For the inaction in the inherently may use Affidavit For the inaction in the inherently may use Affidavit For the inaction in the inherently may use Affidavit For the inherently may use Affidav | t or contracts providing related to the volume rm IV-60.  registered mail or del of this Permit Applied. | ng for flat well royalty or a e of oil or gas so extracte ivered by hand to the abocation to the Department |
| rements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector.  fer 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 oper district oil and gas inspector 24 hours before actual permitted work has commenced.)  multiple of the Condition of the District Oil and Gas Inspector.  unless drilling is commenced prior to that date and prosecuted with due diligeration.  | is permit coveri  | ng the well  | operator a  | and well lo   | ocation                 | shown b  | elow is evidence o   | f permission granted   | to drill in accordance   | ce with the pertinent legal   |
|  | rements subject<br>fer to No. 10) P   | to the con   | ditions con   | ntained he<br>n of roads                                    | rein an<br>, locati     | d on the   | reverse hereof. No its for any permitt   | tification must be gi<br>ed work. In addition  | ven to the District Oi   | il and Gas Inspector.   |
| Bond: Agent: Plat: Casing Fee  | mit expires   | Nove   | mber 3  | , 1983  | }                       | *1   | unless dr  | illing is commenced p  | prior to that date and p   | prosecuted with due diliger   |
|  | Bond:   | Agen   | t:  | Plat:   |                         | Casing   | Fee  |  |  |   |

## 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 then 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
  - 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).
  - 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.

| days of                                 | receipt thereof.                            |   |   | • • •                   |  |   |
|---|---|---|---|-------------------------|--|---|
| •                                       |   |   | WAIVER                                  | •                       |  |   |
| amined this propose added to the mine m | ed well location. If a nap. The undersigned | mine map exists w<br>d has no objection | hich covers the area to the work propos | a of the well location, | er this well location has ex<br>the well location has been<br>ocation, provided, the well<br>ning regulations. | n |
| Date:                                   | , 19  |   | Ву                                      |                         |  |   |
|   |   |   | Its                                     |                         | :  | • |