



DECEIVE STATES OF THE STATES O

IV-35 (Rev 8-81)

DEPT. State of Mest Virginia

Bepartment of Mines Wil und Gas Invision

| | Date | Dece | ember | 19, | 1984 | |
|--|-------|-------|-------|-----|--------|-----|
| | | tor's | | | | |
| | Well | No | 35A - | 190 | 3 | |
| | Farm | Harry | McMul | lan | #35A | |
| | ADT N | 5 47 | - 083 | - | - 0792 | Ren |

WELL OPERATOR'S REPORT

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

| WEIL TYPE: Oil / Gas X / Liquid Injection (If "Gas," Production / Underground | / Wast ni Storag | e Disposal e/Deep | / / Sha | llow <u>x</u> /) |
|---|---------------------|---------------------------|-------------|----------------------------|
| LOCATION: Elevation: 2165 Watershed Cas | ssity For | c of Middle | Fork Riv | er |
| District: Roaring Creek County Randol | | | | |
| CAPANY UNION DRILLING, INC. | | | | |
| ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 | Casing | Used in | Left | Cerent |
| DESIGNATED AGENT Joseph C. Vanzant, Jr. | Tubing | 1 | in Well | fill up Cu. ft. |
| ADDRESS P.O. Drawer 40, Buckhannon, WV 26201 | Size | | | |
| SURFACE CWNER Westvaco Corp. | 20-16 Cord. | | | |
| ADDRESS 203 Randolph Ave. Elkins. WV 26241 | 13-10" | | | |
| MINERAL RIGHTS OWNER Harry McMullan | 9 5/8 | | | |
| ADDRESS P.O. Box 8, Washington, NC 27889 | 8 5/8 | 724.10' | 724.10 | 387 cf |
| OIL AND GAS INSPECTOR FOR THIS WORK | 7 | | | |
| Phil Tracy ADDRESS Forrest Fest.Apts., Elkins, WV 26241 | 5 1/2 | | | |
| PERMIT ISSUED 11/1/84 WV 26241 | 4 1/2 | | 4896.35' | 931 cf |
| DRILLING COMMENCED 10/31/84 | 3 | | | |
| DRILLING COMPLETED 11/3/84 | 2 | | | |
| IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR RE-ORKING. VERBAL PERMISSION OBTAINED ON | Liners used | | · | : |
| GEOLOGICAL TARGET FORMATION Elk | | Dep | th | _{500'} feet |
| Depth of completed well 5016' feet F | otary xx | / Cabl | e T∞ls_ | |
| Water strata depth: Fresh 50', 100' feet; | | | | |
| Coal seam depths: 315/19 | | | | area? no |
| OPEN FLOW DATA - Producing formation Balltown, Riley, Benson | al. Pa | exander, El Y zone dep | k oth468 | 8'feet |
| Gas: Initial open flow show Mcf/d | | | | |
| Final open flow 419 Mcf/d | Fi | nal open f | low | Bbl/d |
| Time of open flow between init: | | | | |
| Static rock pressure 1150# psig(surface | e measure | ment) afte | er 24 hou | urs shut in |
| (If applicable due to multiple completion |) | | | • |
| Second producing formation | Pa | y zone deg | oth | feet |
| Gas: Initial open flowMcf/d | Oil: Ir | uitial oper | n flow | Eb1/d |
| First open flowMcf/d | Oil: Fi | nal open : | flow | Bb1/d |
| Time of open flow between init | ial and f | inal test | 5h | ours |
| Static rock pressurepsig(surface | measure | ment) after AN 7 1989 | rhot | ırs shut ir everse side |

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

Nowsco - 4 stage Foam Frac - 11/14/84

2706/16 - Balltown - 45,000# sand, 555 Bbls water and 449,300 scf nitrogen

3364/70 - Riley - 45,000# sand, 540 Bbls water and 529,930 scf nitrogen 3446/52 - Benson

3742/46 - Alexander - 45,000# sand, 586 Bbls water and 528,000 scf nitrogen

4634/88 - 1st Elk - 45,000# sand, 596 Bbls water and 559,520 Bbls nitrogen

WELL LOG

| WELL ILG | | | | | | | | |
|---|---|--|--|--|--|--|--|--|
| FORMATION COLOR HARD OR SOFT | TOP FEET | BOTTOM FEET | REMARKS Including indication of all fresh and salt water, coal, oil and gas | | | | | |
| Sand & Shale Coal Sand & Shale Little Lime Big Lime Injun 5th Sand Bayard Balltown Riley Benson Alexander 1st Elk | 0 315 319 1001 1097 1232 1919 1996 2698 3362 3442 3729 4633 | 315 319 1001 1054 1224 1360 1981 2029 2719 3371 3463 3751 4703 5016' Brallin | l" stream water @50' l" stream water @100' l" stream salt water @1965' T.D. gas show | | | | | |
| • • • • • • • • • • • • • • • • • • • | | | | | | | | |

(Attach separate sheets as necessary)

UNION DRILLING, Well Operator

Joseph C.Pettey, Vice President of Production Date:

12/19/84

Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including on!, encountered in the drilling of a well." Note:

PORM IV-2(B) (Obverse) FILE COPY



| 1) | Date: Augu | <u>st 17</u> | | , 19_84 |
|----|------------------------|--------------|--------|------------------|
| 2) | Operator's Well No. 35 | SA - 190 | 3 | 300 71 M 800 c |
| 3) | API Well No. | 47 | 083 | 0792 −R E |
| • | | State | County | Dermit |

| OFFICE USE ONLY DRILLING PERMIT A7-083-0792-REN. Date It permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent leg irements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Ref. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the partict oil and gas inspector 24 hours before actual permitted work has commenced.) The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of verse hereof. November 1, 1986 BOBLANKE Agent: Plat: Casing Fee | | | | | DEPA | | STATE OF WEST | . — | ISION | |
|--|--|---|-------------------|---------------|----------------------|----------------------|---|---|---|--|
| DECATION: Elevation: Z165' District: Roaring Creek Watershed: Cassity Fork of Midle Fork River | an agent for any agent agent and after a fine and a fin | | | | | | | 4.275 | | |
| B (If 'Gat'), Production XX Underground storage Deep Shallow XX Very 2165' District: Roarling Creek County: Randolph Quadrangic: Cassity Fork of Midle Fork River County: Randolph Quadrangic: Cassity Fork of Midle Fork River Quadrangic: Cassity Fork of Midle Fork River County: Randolph Quadrangic: Cassity Fork of Midle Fork River Quadrangic: Cassity Fork of Midle Fork River Quadrangic: Cassity Fork of Midle Fork River Quadrangic: Cassity Pork Quadrangic: Cassity Pork Quadrangic: Cassity Pork Quadrangic: Cassity | WELL TY | PE: A O | il <u>150 200</u> | / G | s X | <u> </u> | | TICK ORA | ∡ Pyrodinamaso-dy | 1844 TENAKONE |
| DOCATION: Elevation: 2165' Watershed: Cassity Fork of Midle Fork River District: Roaring Creek County Randolph Quadrangle: Cassity Well OPERATOR Union Drilling, Inc. Address P. O. Drawer 40 Buckhannon, W 26201 Oll & GAS INSPECTOR TO BE NOTIFIED Address Forest Festival Terrace #24 Address Forest Festival Terrace #24 Elkins, W 26241 PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Work: Drill XX Drill deeper Redrill Stimulate. Proposed Well Well Redrill Stimulate. Proposed Well Redrill Stimulate. Proposed Well Redrill Stimulate. Proposed Well Redrill St | | | | | | | | | | |
| District: Roaring Creek WELL OPERATOR Union Drilling, Inc. Address P. O. Drawer 40 Buckhannon, W 26201 OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip Tracy Address Profest Pestival Terrace #24 Elkins, W 26241 PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate Discretified and the private damage in well (specify) GEOLOGICAL TARGET FORMATION, Elk Size of feet 13) Approximate coal seam depths: ? feet sail. ? feet 12) Estimated depth of completed well, 5200 feet 13) Approximate coal seam depths: ? lis coal being mined in the area? Yes OIL & GAS DIV CASING AND TUBING PROGRAM BUNG OFF Private of the Well operators and well seed of the private of permission granted to drill in accordance with the pertinent leg ments subject to the conditions contained herein and on the reverse hereof. Notification must be given to the Districtor of his Commenced prior to that date and prosecuted with due dilige ments subject to the conditions contained herein and on the reverse hereof. Notification must be given to the Districtor of his contractor shall notify the permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent leg ments subject to the conditions contained herein and on the reverse hereof. Notifications must be given to the Districtor of his contractor shall notify the permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the legitary. BEANKE Agent: Plat: Casing Fee | LOCATIO | N: Ele | vation: | 2165 | 5' | | Watershed: | Cassity For | k of Midle For | rk River |
| WELL OPERATOR Union Drilling, Inc. Address P. O. Drawer 40 Buckhannon, WV 26201 OIL & GAS INSPECTOR TO BE NOTHED Name Phillip Tracy Address Forest Festival Terrace #24 Elkins, WV 26241 PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate. PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate. Other physical change in well (specify) GEOLOGICAL TARGET FORMATION, Elk 13) Approximate coal seam depths: 7 feet. 14) Approximate coal seam depths: 7 feet. 14) Approximate coal seam depths: 7 feet. 15 coal being mined in the area? Yes OIL & GAS DIV CASING AND TUBINO PROGRAM INC GR STIFFLATIONS FOOTAGE INTERVALS COME IN SACES COAL WORK: New York New York New York Order Proposed Seams of the Proposed Seams | | | | | | | | | | |
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| OIL & GAS INSPECTOR TO BE NOTIFIED Name Phillip Tracy Address Porest Festival Terrace #24 | | *************************************** | | | | 6201 | | | | |
| Name Phillip Tracy Address Forest Festival Terrace #24 Address Forest Festival Terrace #24 PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate XX Drill Plug off old formation Perforate new formation Duckhannon, W 26201 PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate XX Drill Plug off old formation Perforate new formation Authority Redrill Stimulate XX Drill Plug off old formation Perforate new formation Duckhannon, W 26201 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 AUG 2 2 19 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 AUG 2 2 19 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 AUG 2 2 19 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 AUG 2 2 19 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 AUG 2 2 19 GEOLOGICAL TARGET FORMATION, Elk (Sective Perforate new formation Duckhannon, W 26201 AUG 2 2 19 AUG 2 2 19 AUG 2 2 19 Forest subject of the Control of Forest Perforation Planta Well Perforation: Vision Market Perforation Planta Well Perforation: Vision Market Perforation: Vision Perforation: | | | | | | | | O) DELLING | | 20201 |
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| PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate Stimulate Perforate new formation Other physical change in well (specify) GEOLOGICAL TARGET FORMATION, E1k AUG 22 19 33 Approximate trata depths: Fresh, Peet Salt Peet Salt Peet Peet | | | | | Ter | race | #2 4 | | | |
| PROPOSED WELL WORK: Drill XX Drill deeper Redrill Stimulate Plus off old formation Preforate new formation Depth of the property of the preforation of the | Addicas | | | | | <u> </u> | | Addiess | | |
| Plug off old formation Other physical change in well (specify) GEOLOGICAL TARGET FORMATION, Ellk 2) Estimated depth of completed well, 5200 feet all 2 feet, all 7 feet, all 7 feet, all 8 feet; salt, 7 feet, 9 feet; salt, 7 feet, 10 feet | DD 0 D 0 G E | | | | 73.7 | | | . = | | VV 20201 |
| Other physical change in well (specify) Elik 2) Estimated depth of completed well, 5200 feet 3) Approximate trata depths: Fresh, ? feet; salt, ? feet. 4) Approximate coal seam depths: ? Is coal being mined in the area? Yes OIL & GAS DIV CASING AND TUBING PROGRAM ING OR SEPECIFICATIONS ING OR SEPECIFICATIONS ING TYPE Size Grade Weght New Used Fee drilling Left in well (Cable feet) Size Grade Weght New Used Fee drilling Left in well (Cable feet) Size Grade Weght New Used Fee drilling Left in well (Cable feet) Size Grade Weght New Used Fee drilling Left in well (Cable feet) Size Grade Weght New Used Fee drilling Left in well (Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet) Size Grade Weght New Used Feet drilling Left in well Cable feet Left in well | PROPOSE | D WELL V | WORK: | | | | | | | ATT PIENTING |
| GEOLOGICAL TARGET FORMATION, Elk 5200 feet AUG 2219 2) Estimated depth of completed well, 5200 feet; salt, 2 feet. 4) Approximate road segments: 7 ls coal being mined in the area? Yes OIL & GAS DIV CASING AND TUBING PROGRAM INCOR SPECIFICATIONS OR SPECIFICATIONS IN TYPE Size Grade Part. New Used For drilling Left is well OR SACKS (Cable feet) addition, 113/4 X 201 201 Kinds water X 201 201 Kinds Sizes additate B 5/8 23# X 8501 8501 to SULFFACE tion 4 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 5200 450 Sks. Or Depths set at 1 1/2 10.5# X 5200 5200 5200 5200 5200 5200 5200 52 | | | | - | | | | | | NEGET A 15 |
| 2) Estimated depth of completed well, 5200 feet AUG 2 2 19 3) Approximate trata depths: Fresh, 2 feet; salt, 2 feet, salt, 3 feet, salt, 4 Approximate coal seam depths: Presh, 2 Is coal being mined in the area? Yes OIL & GAS DIV CASING AND TUBING PROGRAM INCO OR SPECIFICATIONS FOOTAGE INTERVALS CEMENT FILLLY FACKERS NOTIFE Size Grade peet New Used For drilling Left is well (Cashe feet) Kinds value Size Size toor 11 3/4 X 20¹ 20¹ 450 850 Cashe feet) Kinds value 4 1/2 10.5 | | | | _ | - | | in well (specify) | | | |
| Approximate trata depths: Fresh, | | | | | | | _ | | { | AUG 2 2 1984 |
| 4) Approximate coal seam depths: ? Is coal being mined in the area? Yes OIL & GAS DIV CASING AND TUBING PROGRAM NO OR NO TYPE Stare Grade Per ft. New Used For drilling Left in well (Cable faser) NO TYPE Stare Grade Per ft. New Used For drilling Left in well (Cable faser) No Start Star | - | = | - | - | | | | • | | A00 2 2 100 |
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| NG TYPE Size Grade Per ft. New Used For drilling Left in well Cable feet) Cable f | · •• | | • | | | • | Is co | oal being mined in t | he area? Yes | No X |
| ING TYPE Size Grade per ft. New Used For drilling Left in well OR SACKS stor 11 3/4 X 20¹ 20¹ 20¹ Kinds water Sizes Sizes ediate 8 5/8 23# X 850¹ 850¹ to SUFFACE stor 4 1/2 10.5# X 5200¹ 5200¹ 450 Sks. or Depths set Sizes S | CASING A | ND TUBII | NG PRO | GRAM | | | | | | EP1. OF MIIN |
| Sizes cettor 11 3/4 | | 1 , | SPEC | | i | | FOOTAGE | INTERVALS | | PACKERS |
| water clidate 8 5/8 23# X 850 850 to surface | | Size | Grade | | New | Used | For drilling | Left in well | | |
| OFFICE USE ONLY DRILLING PERMIT Anumber A7-083-0792-REN. Date Permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legatents subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Referentiated work, in addition, the well operator or his contractor shall notify the permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified or hereof. November 1, 1986 November 1, 1986 Plat: Casing Fee | ctor | 11 3/4 | | | X | L | 20' | 20' | | Kinds |
| OFFICE USE ONLY Date Top Bottom A7-083-0792-REN. Date ermit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legenents subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Ref Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pertinent down is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified or thereof. November 1, 1986 WANKE Agent: Plat: Casing Fee | vater | | | | | <u> </u> | | | | |
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| OFFICE USE ONLY Date Top Date Top Date Top is set in the perforations: Top Bottom OFFICE USE ONLY Date Top Date Top Top Date Top is set in the perforations: Top Bottom Top Bottom Top Date Top Date Top Top Date Top Top Top Top Top Top Top To | ediate | 8 5/8 | | 23# | X | | 850' | 850' | to surface | |
| OFFICE USE ONLY DRILLING PERMIT Agent: Agent: Agent: Perforations: Top Bottom November 1 19 Date Perforations: Top Bottom November 1 19 Date Perforations: Top Bottom November 1 19 Date Prior to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oli and Gas Inspector. (Rei oil and gas inspector 24 hours before actual permitted work. In addition, the well operator or his contractor shall notify the pt to il and gas inspector 24 hours before actual permitted work has commenced.) Prior to the construction of roads, locations and plis for any permitted work. In addition, the well operator or his contractor shall notify the pt to il and gas inspector 24 hours before actual permitted work has commenced.) Permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of the hereof. November 1, 1986 WANNET Agent: Plat: Casing Fee | tion | 4 1/2 | | 10.5 | Х | | 5200' | | | Depths set |
| OFFICE USE ONLY DRILLING PERMIT Agent: Perforations: Top Bottom OFFICE USE ONLY DRILLING PERMIT November 1 19 Date Permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent leg nents subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Rel prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the p toil and gas inspector 24 hours before actual permitted work has commenced.) Permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of the hereof. November 1, 1986 WANKE Agent: Plat: Casing Fee | - | | | | | | | | | |
| OFFICE USE ONLY DRILLING PERMIT Agent: Plat: Casing Fee November 1 Top Bottom Top B | | | 7 mag 20 8 8 8 | | | | | | | Perforations: |
| OFFICE USE ONLY DRILLING PERMIT 19 Date To sermit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legenents subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Ref. Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the ptroil and gas inspector 24 hours before actual permitted work has commenced.) The prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the ptroil and gas inspector 24 hours before actual permitted work has commenced.) The prior to the construction of roads, locations and pits for any permitted work in addition, the well operator or his contractor shall notify the ptroil and gas inspector 24 hours before actual permitted work has commenced.) The prior to the construction of roads, locations and pits for any permitted work in addition, the well operator or his contractor shall notify the ptroil and gas inspector 24 hours before actual permitted work has commenced.) The prior to the construction of roads, locations and pits for any permitted work in addition, the well operator or his contractor shall notify the ptroil and gas inspector. (Ref. Prior to the construction of roads, locations and pits for any permitted work in addition, the well operator or his contractor shall notify the ptroil and gas inspector 24 hours before actual permitted work in addition, the well operator or his contractor shall notify the ptroil and gas inspector 24 hours before actual permitted work in addition, the well operator or his contractor shall notify the ptroil and gas inspector. (Ref. Prior to the construction of roads, locations and pits for any permitted work in addition, the well operator to the District Oil and Gas Inspector. (Ref. Prior to the Construction of | | | | | | | | | | 1 |
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| DRILLING PERMIT 47-083-0792-REN. Date Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pt to il and gas inspector 24 hours before actual permitted work has commenced.) Permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of the hereof. November 1, 1986 WANKET Agent: Plat: Casing Fee Page 1990 Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pt to il and gas inspector 24 hours before actual permitted work has commenced.) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pt to il and gas inspector 24 hours before actual permitted work has commenced.) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pt to il and gas inspector 24 hours before actual permitted work has commenced.) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pt to il and gas inspector 24 hours before actual permitted work has commenced.) | | | | | | | 1 | 1 | | |
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| DRILLING PERMIT 47-083-0792-REN. Date Prior to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Ref. Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the part to il and gas inspector 24 hours before actual permitted work has commenced.) Permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the hereof. November 1, 1986 WANKET Agent: Plat: Casing Fee | | | | | 5-77- | - 7 (10) | OFFICE USE | ONLY | | |
| 47-083-0792-REN. Date rumber Date remit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent leg nents subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Ref Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the part to il and gas inspector 24 hours before actual permitted work has commenced.) Permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of the hereof. November 1, 1986 WANKET Agent: Plat: Casing Fee | | | | | | | | | | |
| Date ermit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent leg nents subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oli and Gas Inspector, (Ref. Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the part to il and gas inspector 24 hours before actual permitted work has commenced.) ermitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of the hereof. Expires November 1, 1986 unless well work is commenced prior to that date and prosecuted with due diligitations. HANKE Agent: Plat: Casing Fee | | 4 | 7-083 | -0792- | REN. | | | | November 1 | |
| ermit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legion to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oli and Gas Inspector, (Ref. Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pit oil and gas inspector 24 hours before actual permitted work has commenced.) Exermitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of the hereof. November 1, 1986 WANKET Agent: Plat: Casing Fee | number_ | | | | | | - | | | 19 |
| Prior to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector, (Rel Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the part to il and gas inspector 24 hours before actual permitted work has commenced.) The prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the part to il and gas inspector 24 hours before actual permitted work has commenced.) The prior to the conditions contained herein and on the reverse hereof. The prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the part to il and gas inspector 24 hours before actual permitted work has commenced.) The prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the part to illustrate the pits of | | | | | | | | | | |
| Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the pet oil and gas inspector 24 hours before actual permitted work has commenced.) ermitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of the hereof. November 1, 1986 unless well work is commenced prior to that date and prosecuted with due diligible. BLANKE Agent: Plat: Casing Fee | ermit cover | ring the we | il operato | or and well | locatio | n show | n below is evidence | of permission gran | ted to drill in accordan | ice with the pertinent legal re |
| toil and gas inspector 24 hours before actual permitted work has commenced.) ermitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of thereof. November 1, 1986 unless well work is commenced prior to that date and prosecuted with due dilighted work. NANKET Agent: Plat: Casing Fee | Prior to th | ie construct | tion of ro | eds. location | one and Referring | nits fo | ne reverse nercor. N | ourication must be k. In addition, the | given to the District Oil well operator or his con | I and Gas Inspector, (Refer to |
| ermitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified of hereof. November 1, 1986 unless well work is commenced prior to that date and prosecuted with due dilighted with the described of the prior to that date and prosecuted with due dilighted work. HANKE Agent: Plat: Casing Fee | | | | | | | | | p or mis von | the propi |
| t expiresNovember 1, 1986unless well work is commenced prior to that date and prosecuted with due dilig | ermitted wo | ork is as de | scribed in | the Notice | end A | policati | on, plat, and reclam | ation plan subject | to any modifications a | nd conditions specified on th |
| LANKE Agent: Plat: Casing Fee | | | | | | | on, plat, and rocial | milon plan, subject | to any mounications a | na conditions specified on th |
| HANKE Agent: Plat: Casing Fee | expires _ | | NOA | ember | 1, 1 | 986 | unless wel | l work is commence | ed prior to that date and | prosecuted with due diligence |
| MANKE Agent: Plat: Casing Fee | | | | | | | | | | |
| MAINTE Agent: Plat: Casing Fee | MANUEL | A | | Diat. | Ceri | | E | | | in the State of th |
| | PENNYL | Agent | 1 | riat: | Casin | | Fee | | | |
| 62 80 75 75 343 70 | 621 | V_{λ} | 0 1 7 | 151 | 73 | | | 1-0 | | |
| WINGOINET) / hon. | | | · | | | | <u> </u> | MY VILLA | ant) | 1 horse |
| I wight of the second | | | | ***** | | | | , july | wer with the second | WKI. |
| Keep one conv of this permit posted at the drilling location | . Kaan o | e conv of | this norm | it poeted a | t the d- | illine !- | retion | M | ministrator, Office of O | ni and Gas |
| Keep one copy of this permit posted at the drilling location. | . Keep of | ic copy of | nns beim | n posteu a | . me di | unig 10 | CELIUII. | // | | File |
| See the reverse side of the APPLICANT'S COPY for instructions to the well operator. | *** | | See | the reverse | side of | the Al | PEICANT'S CODE | for instructions | n the well assessor | rne |

DRILLING CONTRACTOR:

Union Drilling, Inc.

WIST V

| 1) | Date:3 | , 19 |
|----|------------|------|
| 2) | Operator's | |

Well No. 47 OB3 OF92

3) API Well No. 5tate County Permit

Harry McMullan #35A (1903)

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

| . Lirawei | E 40 | 701 | | OIL AN | ND GAS | WELL PERMIT | APPLICATION | | | |
|----------------------------|--|---------------|--------------------|-------------|-----------|-------------------------------|---------------------|---|-------------------|-------------|
| common, | | 201 | | 270 | | | May 1 1/1 2 300 | | | |
| WELL TYPE | | | _/ Gas _ | and a | _/ | | | | | 2000 |
| | | | oduction _ | AX | / | Underground sto | rage | _/ Deep | _/ Shallow | /) |
|) LOCATION: | | ict: | ing Cr | nonic | - | Watershed: | oInk | 0 1 1 | Cassity | |
| WELL OPER | | | rilling | . Inc | | County: | PEGLONIATED | Quadrangle: | C. Vanza | nt. Jr |
| WELL OPER | RATOR | O; Di | awer | 8 | | 11) | DESIGNATED | AGENT | Francer 10 | and are |
| Address | TOBU | ckhan | ion, hi | 1262 | 03. | The self self | Address | Bucidia | mon, W | 26201 |
| OII & CAS | - | _ | | | | | | | | |
| OIL & GAS ROYALTY C | WNER | Harry | McMul J | lan, J | r. B | state 12) | COAL OPERA | TOR | | |
| Address | Harr | ly recycle | illan, | lilly | Agen | 12) | Address | 100 | | |
| 8,663 | P. C |). Box | B. | | | | | | | |
| Acreage | Wash | ingtor | l, M. | 27889 | | 13) | COAL OWNER | R(S) WITH DECLAR | ATION ON RI | ECORD: |
| SURFACE O | WNER | Hestva | ico (o) | P | | | Name | Coal Company | | |
| Address | | 2013 KE | maorhi | Aven | ue | | Address | Ins. S. Merida | NAME AND ADDRESS. | |
| | 036 | ElEins | a W.V. | 2112-91 | | | | Indianapolis, | 13. WHILE | 10 |
| Acreage | 310 | | | | | _ | Name | Maria Company | | |
| FIELD SALE | E (IF MAD | E) TO: | ned at | this | timo | | Address | | | |
| Address | TANK DO | TARIEST SALES | HAY ME | Marie . | Prayme. | | | | | |
| OIL COL | INICODO C | D 70 - | Norm | D | | 14) | Into | WITH DECLARAT | ION ON RECO | ORD: |
| OIL & GAS | INSPECTO | OK TO BE | NOTIFIE | (82) | | | Name | 119 W. Washi | negon Ser | cer |
| Name | P. 10a | Box 3 | 15 | | | | Address | Lewisburg, W | 7-24001 | 1/2/2 |
| Address | Jane 1 | JON , WI | 2637 | 78 | | CONTRACTOR OF | | | TOPER | |
| PROPOSED | WORK. | Drill | CC / | Drill dos | | / Dodeill | / F | | | |
| PROPOSED | WORK: | | | | • | / Redrill_ _/ Perforate ne | | ture or stimulate | | |
| | | | ysical char | | | | Tormation | | | |
| GEOLOGICA | AL TARGE | | | 3777 | (speci | | | | | 7 |
| 17) Estimate | | | | | 299 | feet | The District | - | EFF | PER |
| 18) Approxim | | | | , | 3 | | alt, | feet. | | |
| 19) Approxir | nate coal se | am depths | : | 3 | | Is coal l | being mined in the | area? Yes | / No | X |
| CASING AN | D TURING | PROGR | AM | | | | | | | |
| | n Cobine | | | | 11 | | | | W | |
| CASING OR TUBING TYPE | | SPI | ECIFICATION Weight | NS I | | FOOTAGE | INTERVALS | CEMENT FILL-UP OR SACKS | PACKE | RS |
| | Size | Grade | per ft. | New | Used | For drilling | Left in well | (Cubic feet) | | 102 |
| Conductor | 1 3/4 | | | - | | | | | Kinds | |
| Fresh water | | 1000 | - | | | | | | | |
| Coal | 5/8 | | 238 | X | | 850 | 850 | to surface | Sizes | |
| Intermediate Production | 1/2 | | 10.5# | K | | | 5200 | 450 sks. or | | |
| Tubing | | | 1000000 | | | | | as required | Depths set | |
| Liners | | | | | | 4-14-14 | | | Perforations: | |
| 2,11013 | | | | | | | | | Top | Bottom |
| | | | | | | | | | Тор | Bottom |
| | | | | | | | | | | 112 |
| EXTRACTIO | N RIGHTS | S | | | - | The latest | No. | | | |
| Check and pro | ovide one o | of the follo | wing: | | | | | | | |
| | | | | | | | | right to extract oil or | gas. | |
| | The state of the s | | 2-4-1-(c) (1) | through | (4). (S | ee reverse side for | specifics.) | | | |
| ROYALTY P | | | oulest the o | Il on one b | | | | | 6 61-t 11 | |
| | | | | | | | | ct or contracts providing related to the volume | | |
| produced or n | | | No 🗆 | 1 -1 | 011 01 | Bus in place wine | a as not minoreman | y related to the volum | or on or gus | SO CALIACT |
| | | | | eeded. If | the ans | wer is Yes, you ma | ay use Affidavit F | orm IV-60. | | |
| Required Cop | | | | | | | | | | |
| | | | | | | | | registered mail or del | | |
| Mines at Char | | | | lessee of | or bei | ore the day of the | maining or deliver | y of this Permit Appli | cation to the D | epartment |
| Notary: | ST. A. | * | a Marie | | | | Signed: | elend - | sufficiently | 3 |
| | Dyning | Tay 22 | 1989 | | | HI TENED | Ital | G. Petters, V | ice stes | Wieler C |
| My Commission | Expires | d as 5 | haron | In No | lley | | Its: | | - roduct | -COR |
| | | | | | OF | FICE USE ON | NLY | | | |
| | 4 J. | 47-1 | 183 -01 | 792 | DR | ILLING PERI | MIT | Jul | 7 11 | |
| mit number | | | | | | | | Service Contract | | 19 |
| | PLS. | | | | | THE PARTY NAMED IN | | Date | | this part |
| rements subject | to the con | operator a | and well lo | cation sh | own bel | ow is evidence of | permission grante | d to drill in accordance | ce with the pert | inent legal |
| fer to No. 10) P | rior to the | construction | n of roads | location | s and nit | s for any permitted | d work. In addition | n, the well operator or | his contractor s | hall notify |
| per district oil a | and gas insp | pector 24 | hours befo | re actual | permitte | ed work has comm | nenced.) | n, the well operator or | | of house |
| mit expires | TIME | the day | 2004 | | | unless drill | ling is commenced | prior to that date and | prosecuted with | due diliger |
| Bond: | Agent | t: | Plat: | C | asing | Fee | William | MC | ADUL | 1 |
| | | | | | | 000 | Ad | ministrator. Office of | Oil and Gas | |



| 1) | Date: | May 29 | 91 |
|----|------------------------|-----------|----|
| 2) | Operator's Well No. | 1903-35A | |
| 21 | A DI Well No | //7 : 007 | |

State

STATE OF WEST VIDGINIA

RECPartial

Permit

County

| Peri | the perforated intervals in this length of the formations between 5,016 to 2,765-feet. 3) From 2,765' to surface the well will remain as OFFICE | plid concrete plug from 5,016 to 2,765-feet sealing ne well bore with 100% excess to squeeze off the |
|------|--|---|
| - | 2) Filling the 4-1/2" production piping with a so the perforated intervals in this length of the formations between 5,016 to 2,765-feet. 3) From 2,765' to surface the well will remain as OFFICE | olid concrete plug from 5,016 to 2,765-feet sealing ne well bore with 100% excess to squeeze off the scompleted. |
| | 2) Filling the 4-1/2" production piping with a so the perforated intervals in this length of the formations between 5,016 to 2,765-feet. 3) From 2,765' to surface the well will remain as | olid concrete plug from 5,016 to 2,765-feet sealing ne well bore with 100% excess to squeeze off the scompleted. |
| | 2) Filling the 4-1/2" production piping with a so the perforated intervals in this length of the formations between 5,016 to 2,765-feet. 3) From 2,765' to surface the well will remain as | olid concrete plug from 5,016 to 2,765-feet sealing ne well bore with 100% excess to squeeze off the scompleted. |
| | 2) Filling the 4-1/2" production piping with a so the perforated intervals in this length of th formations between 5,016 to 2,765-feet. | plid concrete plug from 5,016 to 2,765-feet sealing ne well bore with 100% excess to squeeze off the |
| | 2) Filling the 4-1/2" production piping with a so the perforated intervals in this length of th formations between 5,016 to 2,765-feet. | plid concrete plug from 5,016 to 2,765-feet sealing ne well bore with 100% excess to squeeze off the |
| | | |
| | | |
| | The existing well is producing from the Balltown (3,446' - 3,452'); Alexander (3,742' - 3,746') ar proposing to convert this well to a Class II D was waste disposal is the Balltown. Therefore, the waste disposal is the Balltown, Alexander, and 1s | (2,706' - 2,716'); Riley (3,364' - 3,370'); Benson and 1st Elk (4,634' - 4,688'). The well operator is aste disposal well. The zone to be used for this well operator proposes to plug the remaining st Elk) in the following manner: |
| 10) | WORK ORDER: The work order for the manner of plugging th | is well is as follows: ISS web \$15 91 |
| | 304/636-8798 | - LOCALITY OF THE CONTRACT OF |
| | Montrose, WV 26283 | Buckhannon, WV 26201 |
| | Name Mr. Phillip Tracy Address Route 3, Box 37-A | |
| 8) | OIL & GAS INSPECTOR TO BE NOTIFIED | 9) PLUGGING CONTRACTOR |
| • | Kingsport, TN 37660 | |
| | Address 1989 East Stone Drive 200 | Address P. O. Drawer 40 |
| 6) | District: <u>Roaring Creek</u> (%) WELL OPERATOR <u>Fourtable Resources</u> Excliging | County: Randolph Quadrangle: Cassity 7.5 Min |
| 5) | | Watershed: Cassity Fork of Middle Fork River |
| | B (If "Gas", Production | Underground storage)/ DeepShallow/) |
| 4) | WELL TYPE: A Oil/ Gas/ | JIC Section |
| | APPLICATION FOR A PERMI | 1 TO PLUG AND ABANDON A WELL |
| | | |
| | | BOR AND ENVIRONMENTAL RESOURCES ON OF ENERGY OF TO BUILD ARANDON A WELL |

The permitted work is as described in the Notice and Application, plat, subject to any modifications and conditions on the

reverse hereof. 8-5-93 unless plugging is commenced prior to that date and prosecuted with due diligence.

WPCP OTHER Bond: Agent:

Division of Oil & Gas

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

Permit expires

FORM WW-4(A)
Obverse

| | | | State | Count | у | Perm | nit |
|----|----------|------|-------|-------|---|------|-----|
| 3) | API Wel | l No | . 47 | 083 | - | 0792 | PP |
| | Well No | | | | | | |
| | Operato: | r's | | | | _ | |
| 1) | Date: | May | 29 | | , | 19 | 71 |

STATE OF WEST VIRGINIA DIVISION OF OIL AND GAS, DEPARTMENT OF ENERGY NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

| 4) SURI | FACE OWN | ER(S) OF RECORD TO BE SERVED | 5 (i) | COAL OPERATOR | |
|--------------|-------------|--|---|--|---|
| (:) | W | Hostvaca Corp | | Address | |
| | • | Westvaco Corp. 203 Randolph Avenue Elkins, WV 24241 | 5 (ii) | COAL OWNER(S) WITH DECLA Name AMAX Coal Company | |
| (11) | NameAddress | | | Address 105 S. Meridiam S | |
| | Address | | 5 (iii). | Indianapolis, IN COAL LESSEE WITH DECLARA | TION ON PECOPD. |
| (iii) | Name | | . (, | Name International Coal Co. | |
| | Address | | | Address 119 W. Washington | |
| | | | | Lewisburg, WV 249 | 901 |
| This No | tice of A | pplication is only for a partial pluggi | ng of Well | No. 1903-35A from total depth | to 2,765-feet. |
| | _ | TO THE PERSON(S) NAMED ABOVE: You should have (1) The Application to Plug and Abandon a parties involved in the work, and desplugging work order; and (2) The plat (surveyor's map) showing the | a Well on For scribes the w | m WW-4(B), which sets out the well and its location and the | RECEIVED Division of Energy Oil and Gas |
| | | THE REASON YOU RECEIVED THESE DOCUMENTS IS WHICH ARE SUMMARIZED IN THE "INSTRUCTIONS" ON (FORM WW-4(B)) DESIGNATED FOR YOU. HOWEVER, YOU | THE REVERSE S | IDE OF THE COPY OF THE APPLICATION | JUL 1 7 91 JIC Section |
| | | Take notice that under Chapter 22B of the proposes to file or has filed this Notice and A Permit to plug and abandon a well with the Dire Virginia Department of Energy, with respect to attached Application and depicted on the attack Application, and the plat have been mailed by a co the person(s) named above (or by publication of mailing or delivery to the Director. | Application a sector of the the well at med Form WW-6 registered or | nd accompanying documents for a Division of Oil and Gas, West the location described on the . Copies of this Notice, the certified mail or delivered by hand | |
| ***** | _ | _ | WELI | - " | _ |
| | | e information on the Notice and | OPE | RATOR Equitable Resources Ex | kploradion |
| | | verified and sworn to and the d on behalf of the Well Operator | r By | Du T. (1) hilestie | eld |
| in my Co | unty and | d State by | | Mr. Ben T. Whitefield | |
| \mathbb{B} | en T. | white field, | Its_ | President | |
| This | 1th da | y of July , 1991. | Addı | ress Two Executive Park Plac | e |
| My commi | | | | 1989 East Stone Drive | |
| | | - | | Kingsport, TN 37660 | |
| <u> </u> | Zuchi | ta F. Cinhin | | ALIGOPOLE, IN 37000 | |
| Notary P | ublic, | Sullum County, | Tele | ephone 615/378-5101 | |
| State of | | Denneme | | | |