

## State of West Virginia DEPARTMENT OF ENERGY Division of Oil and Gas

## Jan 3 46W#1 19 Operator's Report of Well Work

KOELLISCH, DELLA ROSE Farm name: Operator Well No.: KOELISCH #1 LOCATION: Elevation: 1090.00 Quadrangle: PENNSBORO CENTERVILLE County: TYLER
6700 Feet South of 39 Deg. 20Min. 0 Sec.
3710 Feet West of 80 Deg. 52 Min. 30 Sec. District: Latitude: Longitude Company: APPALACHIAN ENERGY DEVELO ROUTE 2, BOX 499 GRAFTON, WV 26354-0499 Casing | Used in Left Cement Fill Up æ Tubing | Drilling | in Well | Cu. Ft. Agent: GEORGE WILLIAMS Size Inspector: GLEN P. ROBINSON 01/19/90 Permit Issued: 11 3/4 133 <u>:133\_\_\_\_</u> <u>| 65 sks</u> 1/02/91 Well work Commenced: 1/18/91 Well work Completed: Verbal Plugging 8/5/8 1774 1774 480 sks Permission granted on: Rotary XX Cable
Total Depth (feet) 5415;
Fresh water depths (ft) Rig ft. 4 1/2 5355 5355 300\_sks 40 ft Salt water depths (ft) N/A Is coal being mined in area (Y/N)? Coal Depths (ft): OPEN FLOW DATA These zones are downhole comingled. Producing formation Alexander/Benson/Riley Pay zone depth (ft) 53

Gas: Initial open flow 35 MCF/d Oil: Initial open flow 0 B

Final open flow 510 MCF/d Final open flow 0 B

Time of open flow between initial and final tests 0 340 Bbl/d Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure 1660 psig (surface pressure) after 48 Hours Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF/d Oil: Initial open flow
Final open flow MCF/d Final open flow Final open flow Final open flow MCF/d Bbl/d Time of open flow between initial and final tests Hours Static rock Pressure psig (surface pressure) after NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: APPALACHIAN ENERGY DEVELOPMENT, INC.

- 1. Alexander-Perf. 5186-5190-5211-5218 Frac w/500 Gal. 15% Acid 50 sks 80/100 Sand, 200 sks 20/40 Sand-55,000 scf N2 335 Bbls H20
- 2. Benson-Perf 4868-4872-4924-4926 Frac W/500 Gal. 15% Acid-50 sks 80/100 Sand, 150 sks 20/40 Sand; 59000 N2-296 Bbls H2o.
- 3. Riley-Perf, 4528-4568- Frac W/500 Gal. 15% Acid. 100 sks 80/100 Sand, 300 sks 20/40 Sand 84,000 N2, 480 Bbls H2o.

Wet at 40 ft.

4. Gordon- Perf 2879-2883 30 ft.- 2700-2707 Frac W/500 Gal, 15% Acid-50 sks 80/100 sand, 250 sks 20/40 Sand 74,000 scf N2 420 Bbls H2o

Sand & shale 0 To 153 Sand 153 to 190 Red Rock 190 to1220 Sand & shale 1220 to 1925 Little Lime 1900 to 1925 Shale 1925 to 1930 Big Lime 1930 to 1980 Injun 1980 to 2025 Shale 2025 to 2080 Squaw 2080 2140 Sand & shale 2140 to 2290 Weir 2290 to 2350 2470 to 2530 Berea Gordon 2700 to 2760 Shale 2760 to 3736 4492 to 4550 Riley Shale 4550 to 4880 Benson 4880 to 5073 Shale 5073 to 5220 Alexander 5220 to 5340 Shale 5340 to 5415

Total Depth 5415

5,00/

Page 3 of 7 STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY DIVISION OF

|   | DDI TULI                                    | WELL W          | ORK PERMIT   | APPLICATIO          | N GAS        | Expusi 1/19/92             |  |
|---|---|-----------------|--------------|---------------------|--------------|----------------------------|--|
| ı) Well Op  | erator:                                     | Appalachia      | n Energy Dev | velopment, In       | c. 2375      | Expursi 1/19/92<br>(1) 538 |  |
| 2) Operato  | r's Well                                    | Number:_        | Koellisch M  | No. 1               | 3) E1        | evation: 1090'             |  |
|   |   |                 | or Ga        | *                   | í            |                            |  |
|   | (b)   | If Gas:         | Production   | n <u>X</u> / Underg | round Storag | re/                        |  |
| F.  | Deep/ Shallow X_/                           |                 |              |                     |              |                            |  |
|   | Proposed Target Formation(s): Alexander 439 |                 |              |                     |              |                            |  |
|   | Proposed Total Depth: 5200' feet            |                 |              |                     |              |                            |  |
| 7) Approximate fresh water strata depths: 80' 168 309 |   |                 |              |                     |              |                            |  |
| 8) Approximate salt water depths: N/A 1599            |   |                 |              |                     |              |                            |  |
| 9) Approximate coal seam depths: N/A                  |   |                 |              |                     |              |                            |  |
|   |   |                 | eams tribut  | tary to act         | ive mine? Y  | es/ No_ <u>X_</u> /        |  |
| 11) Proposed  | d Well Wo                                   | rk:             |              | timulato            | Noulke       | Ú.                         |  |
| 12)   |   | CASIA           | IG AND TURI  | ING PROGRAM         | fixer o      |                            |  |
| CYPE  | SI  | <u>ECIFICAT</u> | •            | FOOTAGE II          |              | . anunum                   |  |
| H/12/28/89  |   | BOILICKI        | Weight       |                     |              | CEMENT                     |  |
|   | Size  | Grade           | per ft.      | For drilling        | Left in well | Fill-up<br>(cu. ft.)       |  |
| Conductor   | 11 3/4"                                     |                 |              | 1201                | 120'         | -0 Sacks Off               |  |
| Fresh Water   | 8 5/8"                                      |                 |              | 1685                | 1685'        | CIS 38<br>CSR 18-11.3      |  |
| Coal  |   |                 |              |                     |              | 360811122                  |  |
| <u>Intermediate</u>                                   |   |                 |              |                     |              |                            |  |
| Production  | 4 1/2                                       | i               |              | 5200 <b>'</b>       | 5200'        | By Rule 38<br>CSR 18-11.1  |  |
| Tubing  |   |                 |              |                     |              |                            |  |
| Liners  |   |                 |              | •                   | 18           | RARRARA                    |  |
| <u>PACKERS</u> : Kin                                  | d   |                 |              |                     | M            | BASAA S                    |  |
| Sizes   |   |                 |              |                     |              |                            |  |
| DIVISION OF OIL & GAS                                 |   |                 |              |                     |              |                            |  |
| Fee(s) p  | (   | И               | ork Permit   |                     | _            | EPARTMENT OF ENERG         |  |
| Plat   WW-9   Ww-2B   Bond SO C.D.   Agent            |   |                 |              |                     |              |                            |  |
| (Type)  |   |                 |              |                     |              |                            |  |

Page 1 of \_ Form WW2-A (09/87) File Copy



## DIVISION OF OIL & GAS 3) DEPARTMENT OF SHERGY

| December 22            | 2, 1989                  |   |  |  |  |  |
|------------------------|--------------------------|---|--|--|--|--|
| Operator's well number |                          |   |  |  |  |  |
| Koellisch No. I        |                          |   |  |  |  |  |
| ell No: 4              | 7 - <u>095</u> -         | 1369  |  |  |  |  |
|                        | or's well<br>Koellisch M | December 22, 1989  For's well number Koellisch No. 1  Fell No: 47 - 095 - |  |  |  |  |

State - County - Permit

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

## NOTICE AND APPLICATION FOR A WELL WORK PERMIT

| 4)                           | Surface O  | wner(s) to be served:  Della Rose Koellisch   | 5) (a) Coal Operator:<br>Name <u>N/A</u>   |
|------------------------------|--|---|--|
|                              | Address _  | 752 Commonwealth Ave. NE  | Address  |
|                              | (b) Name   | Massoline, OH 44646   | (b) Coal Owner(s) with Declaration   |
|                              | Address _  |   | Name N/A   |
|                              |  |   | Address  |
|                              | (C) Name   |   | Namo   |
|                              | Address _  |   | NameAddress  |
| 6)                           | Inspector  | Glen P. Robinson  | (c) Coal, Lessee with Declaration  |
|                              |  | T. 1 #6 Mt. Pleasant Est.   | Name NAME  |
|                              | Telephone  | ineralwells. WV 26150<br>(304)- <u>489-2736</u>   | Address  |
|                              |  | TO THE PERSON(S) NAMED A  | BOVE TAKE NOTICE THAT:   |
| XX<br>Sect<br>I ha           | racts by ward included ion 8(d) of I certify we served mpanying of I certify C | which I hold the right to is the information required the Code of West Virging that as required under a copies of this notice and                     | red by Chapter 22B, Article 1, nia (see page 2) Chapter 22B of the West Virginia Code application, a location plat, and 7 on the above named parties, by: attached) ostal receipt attached)  |
| fami<br>atta<br>resp<br>is t | he terms a I certify liar with chments, a onsible forue, accur I am awar   | and conditions of any period under penalty of law the the information submitted and that based on my inquer obtaining the informatiate, and complete. | r 22B and 38 CSR 11-18, and I agree mit issued under this application. at I have personally examined and am d on this application form and all iry of those individuals immediately ion, I believe that the information cant penalties for submitting false of fine and imprisonment |
|                              | 2.11.4.2.1.011, 1  |   | of fine and imprisonment. Appalachian Energy Development, Inc.   |
|                              |  | By: 1ts: Pre  | Adent Control  |
|                              |  | Address Rt:   | 2 Box 499  |
|                              |  |   | fton, WV 26354   |
| Subsi                        | cribed and   | <u>265                                    </u>  | -4147<br>nd day of December , 1989   |
| _ ~                          | cribcu and   | The children of the children  | 0 1 1  |
| Мус                          | ommission  | expires12-7-92  | ory (1. Amilla Notary Public   |
| _                            |  |   |  |