Form 16

WELL NAME: \_\_\_\_ Kiser Heirs, P-228 DATE February 27, 1991 PI-277 Virginia Oil and Gas Inspector (May 28,1991) P. O. Box 1416 Abingdon, VA 24210 703 628-8115

## REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Sand Lick District Dickenson County, Virginia on 3rd day, October month, 19 90.

45.1-300.B.1. from general Oil and Gas Conservation Law yes x / no WELL WORK: Drill X / Deepen / Redrill / Stimulate x 7 Plug Off Old Formation \_/ Perforate New Formation X / Plug \_/ Replug \_/ Other physical change in well (specify) \_\_\_\_\_\_ The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.

### CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332

#### X Ninety days from the filing of this report

OR

Two years from \_\_\_\_, the date on which the referenced well was completed, the well being an exploratory well as defined in Code of Virginia, Section 45.1-288.21.

APPLICANT Equitable Resources Exploration

BY Bob Dahlin

ITS Geologist

ADDRESS 1989 East Stone Drive, Kingsport, TN 37660

TELEPHONE (615) 378-5101



## COMPLETION REPORT

| WELL TYPE: Oil ( ) Gas Production<br>Enhanced Recovery ( ) W  |   |
|---|---|
| LOCATION<br>COUNTY Dickenson  | DISTRICT Sand Lick .  |
| SURFACE ELEVATION 1818.61'  | QUADRANGLE Prater   |
| LATITUDE 8275 'S 37° 10 00 "  | LONGITUDE <u>5210</u> 'W <u>82° 12</u> ' <u>30</u> "  |
| DRILLING DATA<br>DATE DRILLING COMMENCED 9-9-90<br>DATE DRILLING COMPLETED 9-14-90<br>DATE WELL COMPLETED 10-3-90<br>TOTAL DEPTH OF COMPLETED WELL 3235   | DRILLING CONTRACTOR <u>Union Drilling</u><br>ADDRESS <u>Drawer 40, Buckhannon, WV 26201</u><br>TELEPHONE NUMBER (304) 472-4610<br>RIG TYPE <u>X</u> ROTARY CABLE TOOL |
| GEOLOGICAL DATA<br>FRESH WATER AT (1) 165 FEET 1" St<br>SALT WATER AT (1) 1475 FEET Damp  | Er. GDMX: (2)FEETGPM<br>GDMX: (2)FEETGPM  |
| COAL SEAMS:   | MINING IN AREA  |
| NAME TOP BOTTOM THICK   | NESS YES NO MINED OUT   |
| OIL AND GAS SHOWS:<br>FORMATION TOP BOTTOM THICKNESS<br>3235  | IPF(MCFD/BOPD) PRESSURE HOURS TESTED  |
| Using 269.6 bbls. fluid, 526,000 SCF N2<br>PERFORATED 2595 TO 2634 NO. OF PERI<br>FORMATION BROKE DOWN AT 2083 PSI<br>INITIAL SHUT IN PRESSURE 2289 PSIG  | FORATIONS 16 PERFORATION SIZE   |
| STIMULATION RECORD       ZONE (2)   FORM  | ATION STIMULATED WITH   |
| FORMATION     BROKE     DOWN AT     P       INITIAL     SHUT     IN     PRESSURE     PSI       FINAL     PRODUCTION:     ( )     NATURAL     ( )       BOD     MCFD     HOURS     TEST       ZONE     ( )     660     6 | X) AFTER STIMULATION<br>ED ROCK PRESSURE HOURS TESTED<br>540 48   |
| FINAL PRODUCTION IF GAS ZONES ARE C   | OMINGLED MCFD HOURS TESTED<br>PSIG HOURS TESTED   |

| Form 16, A  | ppendix              | A, Shee           | t 2                | Well                               | Name J     | Kise:       | Heirs, P-228   |  |
|---|----------------------|-------------------|--------------------|------------------------------------|------------|-------------|--|--|
| CASING AND  | TUBING               |                   |                    |                                    | 2          | P           | ACKERS OR  |  |
|   | SIZE                 | TOP               | BOTTOM             | LENGTH                             |            | ATIONS      |  |  |
| CONDUCTOR   | 11 3/4"              |                   | 31'                | tere magazine.                     |            |             |  |  |
| CASING<br>Circulated<br>and Cement<br>to Surface              | ed                   |                   |                    |                                    |            |             |  |  |
| WATER PROT<br>(Casing Se<br>According<br>Section<br>45.1-334) | t                    |                   |                    |                                    |            |             |  |  |
| COAL PROTE<br>(Casing Se<br>According<br>Section<br>45.1-334) | to                   |                   | 354'               |                                    |            |             |  |  |
| OTHER CASI<br>Tubing Lef<br>In Well                           |                      |                   | 2730'<br>2610'     |                                    |            |             |  |  |
| <u>LINERS</u><br>Remaining<br>In Well                         |                      | •                 |                    |                                    |            |             |  |  |
| OTHER used  | and no               | t                 |                    |                                    |            |             |  |  |
| Is the wel<br>protectior                                      | ll under<br>n string | lain by<br>set to | Red Sha<br>Red Sha | le <u>X</u> Yes<br>les? <u>X</u> Y | No,<br>esN | If Yes<br>o | , was coal   |  |
| REMARKS:  | Shut do              | wn, fisl          | ning job           | s, depths                          | and da     | tes, ca     | ving, etc.   |  |
|   |                      |                   |                    |                                    |            |             |  |  |
|   |                      |                   |                    |                                    |            |             |  |  |
|   |                      |                   |                    |                                    |            |             |  |  |
|   |                      |                   |                    |                                    |            |             | 2000 - 100 - |  |
|   |                      |                   |                    |                                    |            |             | •  |  |
|   |                      |                   |                    |                                    |            |             |  |  |
|   |                      |                   |                    |                                    |            |             |  |  |
|   |                      |                   |                    |                                    |            |             |  |  |

Form 16, Appendix A Sheet 3 Well Name John Kiser Heirs, P-228 Samples and Cuttings Will X Will not \_\_\_\_ be available for examination by a member of the Virginia Division of Mineral Resources Will X Will not \_\_\_\_\_ be furnished to the Virginia Division of Mineral \_\_\_\_\_\_ Resources upon request Will Will not X require sacks to be furnished by the Virginia Division of Mineral Resources Electric Logs and Surveys: Type of Electric Log(s) Ran: CDL-AUDIO-TEMP-GR Did log disclose vertical location of a coal seam? Yes No X Was log made at request of a coal owner according to Section 45.1-333.B.1 of the Virginia Code? Yes No X Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Section 45.1-333.B.3 of the Virginia Code Deviation Surveys Deviation surveys were X were not required under Section 45.1-333.C of the Virginia Code "to the bottom of the lowers published coal seam depth." Note: If a deviation survey(s) was/were required, the survey results are as follows: DepthFeet/Degree DeviatedDepthFeet/Degree Deviatedof SurveyFrom True Verticalof SurveyFrom True Vertical From True Vertical See Attachment

A continuous survey was was not X required, under Section 45.1-333.C of the Virginia Code.

Note: If a continuous survey was required, the survey results are attached. Changes in the Permitted Well Work:

The well operator did did not X make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work. NOTE: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

Confidentiality Status:

Confidentiality status under Section 45.1-332 of the Virginia Code: The operator requests that information herein and log(s) be kept confidential (after <u>COMPLETION DATE</u> of the well) for a period of X Ninety (90) days

two (2) years, if the well is exploratory

| DRILLER'S LOG<br>Compiled by Bob | Dain -                           |              |               | -          |         |
|----------------------------------|----------------------------------|--------------|---------------|------------|---------|
| Geological<br>Age Formation      | General<br>Lithology Color       | Dej<br>Top   | oth<br>Bottom | Thickness  | Remarks |
| Pennsylvanian<br>Mississippian   | Sand & Shale<br>Red Rock & Shale | 0<br>2019    | 2019<br>2124  | 2019 ·     |         |
| Mississippian<br>Mississippian   | Sand & Shale<br>Ravencliff       | 2124<br>2582 | 2582<br>2643  | 458<br>61  |         |
| Mississippian<br>Mississippian   | Sand & Shale<br>Maxon Sands      | 2643<br>2980 | 2980<br>3235  | 337<br>255 |         |
| ×-                               | Logger's TD                      |              | 3235          |            |         |

# Directional Survey P-228

| Depth | Degrees |
|-------|---------|
| 202'  | 1°      |
| 385'  | 3/4°    |
| 598'  | 1°      |
| 809'  | 1°      |
| 1021' | 1°      |
| 1210' | 1 1/2°  |
| 1400' | 1 1/4°  |
| 1800' | 1 1/4°  |
| 2000' | 1 1/4°  |
|       |         |

Date: FEBRUARY 4, 1986

Operator's Well No.\_\_*P-228* 

VIRGINIA OIL AND GAS INSPECTOR DEPARTMENT OF LABOR AND INDUSTRY DIVISION OF MINES

> OIL AND GAS SECTION 205 W. MAIN STREET ABINGDON, VIRGINIA 24210 PHONE 703 628-8115

#### WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines are represented by border lines as shown.

This plat is new X / updated /

This plat is X/ is not \_/ based on a mine coordinate system established for the areas of the well location.

Well operator PHILADELPHIA OIL COMPANY

## Certification of Well Plat

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board.

L. Saldist ge Registered Engineer or Certified Land Survey in Charge

25181119

see.

