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 Enhanced Recovery () W	
LOCATION 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 DATE DRILLING COMMENCED 9-9-90 DATE DRILLING COMPLETED 9-14-90 DATE WELL COMPLETED 10-3-90 TOTAL DEPTH OF COMPLETED WELL 3235	DRILLING CONTRACTOR <u>Union Drilling</u> ADDRESS <u>Drawer 40, Buckhannon, WV 26201</u> TELEPHONE NUMBER (304) 472-4610 RIG TYPE <u>X</u> ROTARY CABLE TOOL
GEOLOGICAL DATA FRESH WATER AT (1) 165 FEET 1" St SALT WATER AT (1) 1475 FEET Damp	Er. GDMX: (2)FEETGPM GDMX: (2)FEETGPM
COAL SEAMS:	MINING IN AREA
NAME TOP BOTTOM THICK	NESS YES NO MINED OUT
OIL AND GAS SHOWS: FORMATION TOP BOTTOM THICKNESS 3235	IPF(MCFD/BOPD) PRESSURE HOURS TESTED
Using 269.6 bbls. fluid, 526,000 SCF N2 PERFORATED 2595 TO 2634 NO. OF PERI FORMATION BROKE DOWN AT 2083 PSI 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 ED ROCK PRESSURE HOURS TESTED 540 48
FINAL PRODUCTION IF GAS ZONES ARE C	OMINGLED MCFD HOURS TESTED 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 Circulated and Cement to Surface	ed							
WATER PROT (Casing Se According Section 45.1-334)	t							
COAL PROTE (Casing Se According Section 45.1-334)	to		354'					
OTHER CASI Tubing Lef In Well			2730' 2610'					
<u>LINERS</u> Remaining In Well		•						
OTHER used	and no	t						
Is the wel protectior	ll under n string	lain by set to	Red Sha Red Sha	le <u>X</u> Yes les? <u>X</u> Y	No, esN	If Yes 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 Compiled by Bob	Dain -			-	
Geological Age Formation	General Lithology Color	Dej Top	oth Bottom	Thickness	Remarks
Pennsylvanian Mississippian	Sand & Shale Red Rock & Shale	0 2019	2019 2124	2019 ·	
Mississippian Mississippian	Sand & Shale Ravencliff	2124 2582	2582 2643	458 61	
Mississippian Mississippian	Sand & Shale Maxon Sands	2643 2980	2980 3235	337 255	
×-	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.

