

API NO. 45 051 - 21290  
WELL NAME: Jesse Wampler, PC-112  
DATE March 7, 1990

DI 457

Virginia Oil and Gas Inspector  
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 Ervinton District Dickenson County, Virginia on 31 day, January month, 19 90.

WELL TYPE: Oil \_\_\_/ Gas X/ Enhanced Recovery \_\_\_/ Waste Disposal \_\_\_  
If Gas-Production X/ Underground Storage \_\_\_/ Exempt by Code Section 45.1-300.B.1. from general Oil and Gas Conservation Law yes \_\_\_/ no \_\_\_  
WELL WORK: Drill X/ Deepen \_\_\_/ Redrill \_\_\_/ Stimulate X/ Plug Off Old Formation \_\_\_/ Perforate New Formation \_\_\_/ 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 J. Matthew Conrad  
ITS Geologist  
ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660  
TELEPHONE 615-378-5101

**COMPLETION REPORT**

WELL TYPE: Oil ( ) Gas Production ( X ) Gas-Underground Storage ( )  
 Enhanced Recovery ( ) Waste Disposal ( )

LOCATION

COUNTY Dickenson DISTRICT Ervinton

SURFACE ELEVATION 2502.51' QUADRANGLE Nora

LATITUDE 9600'S 37° 05' 00" LONGITUDE 1020'W 82° 15' 00"

DRILLING DATA

DATE DRILLING COMMENCED 1/10/90 DRILLING CONTRACTOR Union Drilling  
 DATE DRILLING COMPLETED 1/16/90 ADDRESS Drawer 40, Buckhannon, WV 26201  
 DATE WELL COMPLETED 1/31/90 TELEPHONE NUMBER 304-472-4610  
 TOTAL DEPTH OF COMPLETED WELL 2789' RIG TYPE X ROTARY        CABLE TOOL       

GEOLOGICAL DATA

FRESH WATER AT (1) 75 FEET 1/2" str. GPM: (2) FEET        GPM  
 SALT WATER AT (1)        FEET        GPM: (2)        FEET        GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		NO	X-MINING	X-SEAM	X-TEXT
				YES	NO				
Jawbone <i>Greasy Creek</i>	1569-1571	2	M. Horsepen 1842-1844	2	Beckley	2032-2036	4		
M. Seaboard	1629-1631	2	C-Seam 1931-1932	1	L. Horsepen	2089-2090	1		
L. Seaboard	1673-1675	2	Warcreek 1967-1969	2	X-Seam	2139-2140	1		
Unnamed A	1731-1732	1	Unnamed C 2012-2014	2					

OIL AND GAS SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
Pennsylvanian Coals				11 MCFD		

STIMULATION RECORD

ZONE (1) L. Horsepen/X-Seam FORMATION STIMULATED WITH 750 Foam Frac  
 using 740 bbls foam, 489,000 ScfN2 and 5000# 20/40 sand.  
 PERFORATED 2089 TO 2139 NO. OF PERFORATIONS 9 PERFORATION SIZE .40  
 FORMATION BROKE DOWN AT 1707 PSIG AVERAGE INJECTED RATE 6.3 BPM  
 INITIAL SHUT IN PRESSURE 2334 PSIG 5 MINUTE SHUT IN PRESSURE 2018 PSIG

STIMULATION RECORD

ZONE (2) Unnamed C/Beckley FORMATION STIMULATED WITH 750 Foam Frac  
 using 208 bbls fluid, 415,000 ScfN2 and 5000# 20/40 sand.  
 PERFORATED 2012 TO 2035 NO. OF PERFORATIONS 16 PERFORATION SIZE .40  
 FORMATION BROKE DOWN AT 2703 PSIG AVERAGE INJECTED RATE 8.6 BPM  
 INITIAL SHUT IN PRESSURE 2155 PSIG 5 MINUTE SHUT IN PRESSURE 1821 PSIG  
 FINAL PRODUCTION: ( ) NATURAL ( ) AFTER STIMULATION  
 BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

ZONE (1) \_\_\_\_\_  
 ZONE (2) \_\_\_\_\_

FINAL PRODUCTION IF GAS ZONES ARE COMINGLED \_\_\_\_\_ MCFD \_\_\_\_\_ HOURS TESTED  
 \_\_\_\_\_ PSIG \_\_\_\_\_ HOURS TESTED

COMPLETION REPORT

WELL TYPE: Oil ( ) Gas Production ( ) Gas-Underground Storage ( )  
Enhanced Recovery ( ) Waste Disposal ( )

LOCATION

COUNTY \_\_\_\_\_ DISTRICT \_\_\_\_\_

SURFACE ELEVATION \_\_\_\_\_ QUADRANGLE \_\_\_\_\_

LATITUDE \_\_\_\_\_ 'S \_\_\_\_\_ ' \_\_\_\_\_ " LONGITUDE \_\_\_\_\_ 'W \_\_\_\_\_ ' \_\_\_\_\_ "

DRILLING DATA

DATE DRILLING COMMENCED \_\_\_\_\_ DRILLING CONTRACTOR \_\_\_\_\_

DATE DRILLING COMPLETED \_\_\_\_\_ ADDRESS \_\_\_\_\_

DATE WELL COMPLETED \_\_\_\_\_ TELEPHONE NUMBER \_\_\_\_\_

TOTAL DEPTH OF COMPLETED WELL \_\_\_\_\_ RIG TYPE \_\_\_\_\_ ROTARY \_\_\_\_\_ CABLE TOOL \_\_\_\_\_

GEOLOGICAL DATA

FRESH WATER AT (1) \_\_\_\_\_ FEET \_\_\_\_\_ GPM: (2) \_\_\_\_\_ FEET \_\_\_\_\_ GPM

SALT WATER AT (1) \_\_\_\_\_ FEET \_\_\_\_\_ GPM: (2) \_\_\_\_\_ FEET \_\_\_\_\_ GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT

OIL AND GAS SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED

STIMULATION RECORD

ZONE (3) M.Horsepen/C-Seam/Warcreek FORMATION STIMULATED WITH 750 Foam Frac  
using 200 bbls fluid, 391,000 ScfN2 and 5000# 20/40 sand.

PERFORATED 1843 TO 1969 NO. OF PERFORATIONS 14 PERFORATION SIZE .40

FORMATION BROKE DOWN AT 2268 PSIG AVERAGE INJECTED RATE 7.0 BPM

INITIAL SHUT IN PRESSURE 1807 PSIG 5 MINUTE SHUT IN PRESSURE 1537 PSIG

STIMULATION RECORD

ZONE (4) Greasy Cr./M.Seaboard/L.Seaboard/ FORMATION STIMULATED WITH 750 Foam Frac  
using 210 bbls fluid, 347,000 ScfN2, and 5000# 20/40 sand.

PERFORATED 1570 TO 1733 NO. OF PERFORATIONS 17 PERFORATION SIZE .40

FORMATION BROKE DOWN AT N/A PSIG AVERAGE INJECTED RATE 9.6 BPM

INITIAL SHUT IN PRESSURE 1470 PSIG 5 MINUTE SHUT IN PRESSURE 2018 PSIG

FINAL PRODUCTION: ( ) NATURAL ( X ) AFTER STIMULATION  
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

ZONE (1) \_\_\_\_\_

ZONE (2) \_\_\_\_\_

FINAL PRODUCTION IF GAS ZONES ARE COMINGLED 60 MCFD 6 HOURS TESTED  
340 PSIG 48 HOURS TESTED

CASING AND TUBING

	<u>SIZE</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>LENGTH</u>	<u>PACKERS OR PERFORATIONS FEET TO FEET</u>	<u>BRIDGE PLUGS KIND SIZE SET AT</u>
CONDUCTOR	11 3/4"		30'			

CASING

Circulated  
and Cemented  
to Surface

WATER PROTECTION

(Casing Set  
According to  
Section  
45.1-334)

8 5/8" 353'

COAL PROTECTION

(Casing Set  
According to  
Section  
45.1-334)

OTHER CASING &

Tubing Left 4 1/2" 2335'  
In Well 2 3/8" 2209'

LINERS

Remaining  
In Well

OTHER used and not  
left

Is the well underlain by Red Shale  Yes  No, If Yes, was coal  
protection string set to Red Shales?  Yes  No

REMARKS: Shut down, fishing jobs, depths and dates, caving, etc.

Samples and Cuttings

Will  Will not  be available for examination by a member of the Virginia Division of Mineral Resources

Will  Will not  be furnished to the Virginia Division of Mineral Resources upon request

Will  Will not  require sacks to be furnished by the Virginia Division of Mineral Resources

Electric Logs and Surveys:

Type of Electric Log(s) Ran: LDT/TEMP/GR

Did log disclose vertical location of a coal seam? Yes  No

Was log made at request of a coal owner according to Section 45.1-333.B.1 of the Virginia Code? Yes  No

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  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:

Depth of Survey	Feet/Degree Deviated From True Vertical	Depth of Survey	Feet/Degree Deviated From True Vertical
	See Attachment		

A continuous survey was  was not  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  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 COMPLETION DATE of the well) for a period of  Ninety (90) days  two (2) years, if the well is exploratory

DRILLER'S LOG

Compiled by J. Matthew Conrad

Geological Age	Formation	General Lithology	Color	Depth		Thickness	Remarks
				Top	Bottom		
Pennsylvanian	Lee	Sand/Shale/Thin Coal		0	1144	1144	
		Jawbone Coal		1144	1150	6	
		Sand/Shale/Thin Coal		1150	2032	882	
		Beckley Coal		2032	2036	4	
	Lee/Pocahontas	Sand/Shale/Thin Coal		2036	2783	747	(Top Salt Sand-2185)
Mississippian		Red Rock		2783	2789	6	

DIRECTIONAL SURVEYS

PC-112

DEPTH	DEGREES
234'	1°
417'	1½°
633'	0°
820'	1°
1005'	1½°
1222'	1°
1315'	¾°
1532'	2°
1563'	1¼°
1749'	2°
1904'	1¼°
2179'	2°
2397'	1 ¾°
2583'	¾°
2790'	1 ¾°

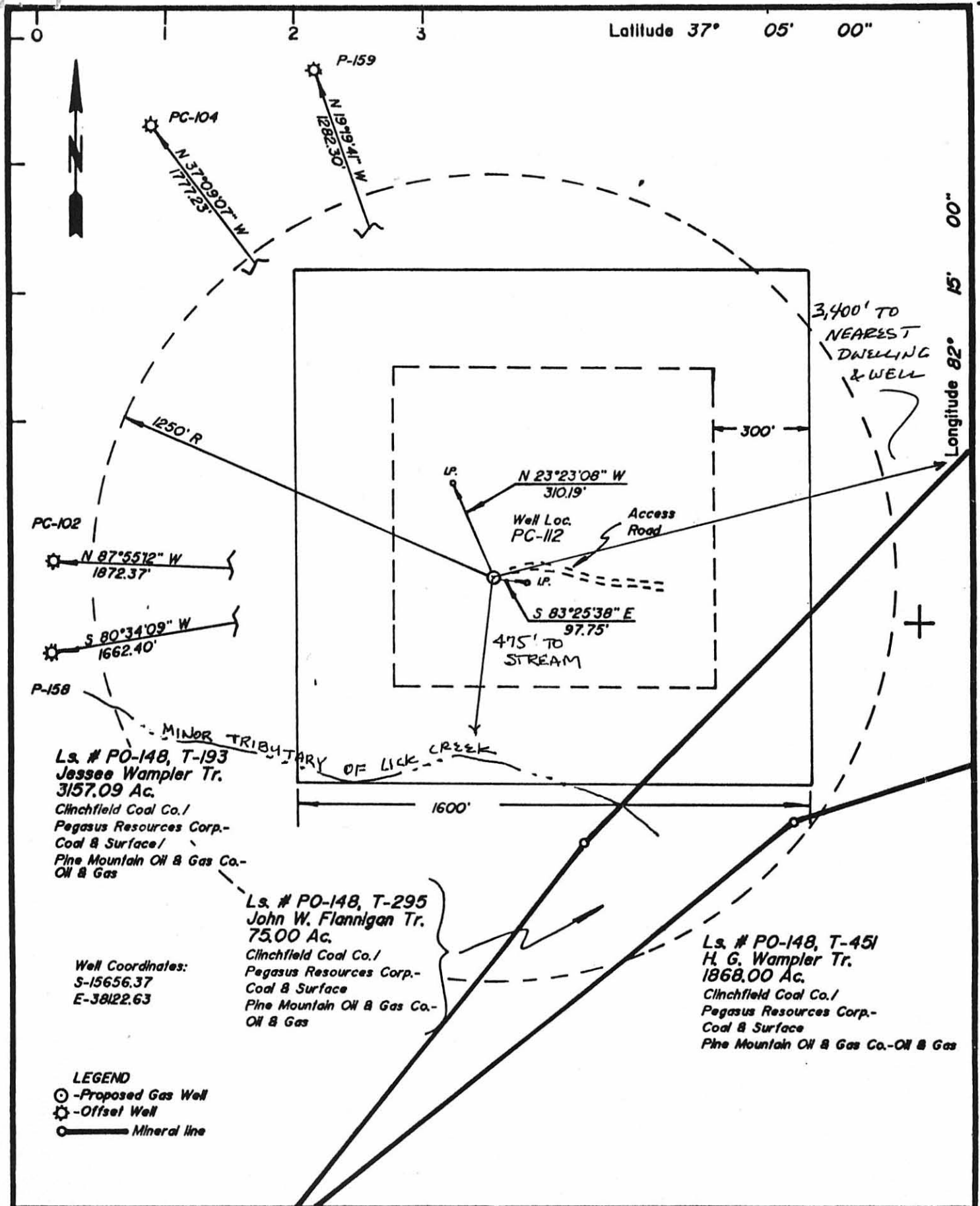
VIRGINIA DIVISION OF MINERAL RESOURCES  
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page \_\_\_\_\_ of \_\_\_\_\_ Well Repository No: 7108  
 Date rec'd: \_\_\_\_\_ Date Processed: 8-12-93 Sample Interval: from: <sup>2460</sup> to: 2790  
 PROPERTY: Jesse Womple PC-112 Number of samples: 25  
 COMPANY: Equitable Resource Expl. Total Depth: 2789  
 COUNTY: Dickenson (Mora) DF-457 Oil or Gas Water: Exploratory:  
 17804B

From-To	From-To	From-To	From-To
2460-90	2700-10	-	-
90-2500	10-20	-	-
-	20-30	-	-
-	30-40	-	-
-	40-50	-	-
2500-10	50-60	-	-
10-20	60-70	-	-
<del>30-40</del>	70-80	-	-
30-40	80-90	-	-
40-50	-	-	-
50-60	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
2590-2600	-	-	-
2600-10	-	-	-
-20	-	-	-
-	-	-	-
-	-	-	-
40-50	-	-	-
50-60	-	-	-
60-70	-	-	-
70-80	-	-	-
80-90	-	-	-
90-2700	-	-	-





Ls. # PO-148, T-193  
 Jesse Wampler Tr.  
 3157.09 Ac.  
 Clinchfield Coal Co./  
 Pegasus Resources Corp.-  
 Coal & Surface/  
 Pine Mountain Oil & Gas Co.-  
 Oil & Gas

Ls. # PO-148, T-295  
 John W. Flannigan Tr.  
 75.00 Ac.  
 Clinchfield Coal Co./  
 Pegasus Resources Corp.-  
 Coal & Surface  
 Pine Mountain Oil & Gas Co.-  
 Oil & Gas

Ls. # PO-148, T-451  
 H. G. Wampler Tr.  
 1868.00 Ac.  
 Clinchfield Coal Co./  
 Pegasus Resources Corp.-  
 Coal & Surface  
 Pine Mountain Oil & Gas Co.-Oil & Gas

Well Coordinates:  
 S-15656.37  
 E-38122.63

LEGEND  
 ○ - Proposed Gas Well  
 ⊙ - Offset Well  
 ——— Mineral line

COMPANY Equitable Resources Exploration

ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660

WELL NAME PC-112

FARM Jesse Wampler TRACT 193

LEASE NO. PO-148 ELEVATION 2605.84

ACRES 3157.09 QUADRANGLE Nora

COUNTY Dickenson DISTRICT Ervin

REG. ENGINEER X REG. NO. 6992

CERT. LAND SURVEYOR \_\_\_\_\_ CERT. NO. \_\_\_\_\_

FILE NO. \_\_\_\_\_ DRAWING NO. 1929

DATE 7-21-89 SCALE 1" = 400'

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

FORM 5

WELL LOCATION MAP  
 WELL NO. PC-112

Shows location of well on United States  
 Topographic Maps, scale 1 to 24,000, lati-  
 tude and longitude lines being represented  
 by border lines as shown.

BALDRIDGE  
 CERTIFICATE NO. 6992  
 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  
 Va. Well Review Board.

A. R. Baldridge  
 Registered Engineer or Certified  
 Land Surveyor in Charge