

API NO. 45 - 051 - 21342
WELL NAME: H. G. Wampler, PC-131
DATE July 25, 1990

DI-471

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 Sand Lick District Dickenson County, Virginia on 1 day, May 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 x/ no ___
WELL WORK: Drill x/ Deepen ___/ Redrill ___/ Stimulate x/ 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 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 Sand Lick

SURFACE ELEVATION 2676.93' QUADRANGLE Duty

LATITUDE 11,180'S 37° 05 ' 00 " LONGITUDE 8,050 'W 82° 12 ' 30 "

DRILLING DATA
 DATE DRILLING COMMENCED 1/17/90 DRILLING CONTRACTOR Union Drilling
 DATE DRILLING COMPLETED 1/23/90 ADDRESS Drawer 40, Buckhannon, WV 26201
 DATE WELL COMPLETED 5/1/90 TELEPHONE NUMBER 304-472-4610
 TOTAL DEPTH OF COMPLETED WELL 2853' RIG TYPE x ROTARY CABLE TOOL

GEOLOGICAL DATA
 FRESH WATER AT (1) 100 FEET 1/2" str. GPM: (2) FEET GPM
 SALT WATER AT (1) 1281 FEET 3/4" str. GPM: (2) FEET GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA			
				YES	NO	MINED	NOT
L. Seaboard	1718	1719	1	Beckley	2092	2094	2
U. Horsepen	1853	1854	1	X-Seam	2205	2206	1
C-Seam	1992	1993	1	Poco #6	2505	2506	1
Warcreek	2022	2024	2	Poco #4	2563	2564	1

OIL AND GAS SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF(MCFD/BOPD)	PRESSURE	HOURS TESTED
None Recorded						

STIMULATION RECORD Poco #4, Poco #6, X-Seam, Beckley, Warcreek, C-Seam,
 ZONE (1) U. Horsepen, L. Seaboard FORMATION STIMULATED WITH 750 Limited Entry
foam frac using 580 bbls fluid, 1,195,800 ScfN2 & 15,000# 12/20 sand.
 PERFORATED 1718 TO 2564 NO. OF PERFORATIONS 15 PERFORATION SIZE .36
 FORMATION BROKE DOWN AT 1990 PSIG AVERAGE INJECTED RATE 13.6 BPM
 INITIAL SHUT IN PRESSURE 1850 PSIG 5 MINUTE SHUT IN PRESSURE 1250 PSIG

STIMULATION RECORD
 ZONE (2) _____ FORMATION STIMULATED WITH _____
 PERFORATED _____ TO _____ NO. OF PERFORATIONS, _____ PERFORATION SIZE _____
 FORMATION BROKE DOWN AT _____ PSIG AVERAGE INJECTED RATE _____ BPM
 INITIAL SHUT IN PRESSURE _____ PSIG MINUTE SHUT IN PRESSURE _____ 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 * 9 MCFD _____ HOURS TESTED
 _____ PSIG _____ HOURS TESTED

* - This is not an absolute open flow.

CASING AND TUBING

	<u>SIZE</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>LENGTH</u>	<u>PERFORATIONS FEET TO FEET</u>	<u>PACKERS OR BRIDGE PLUGS KIND SIZE SET AT</u>
CONDUCTOR	11 3/4"		37'			

CASING
Circulated
and Cemented
to Surface

WATER PROTECTION
(Casing Set
According to
Section
45.1-334) 8 5/8" 345'

COAL PROTECTION
(Casing Set
According to
Section
45.1-334)

OTHER CASING &
Tubing Left 4 1/2" 2752'
In Well 2 3/8" 2588'

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.

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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: CDL-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:

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

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	1190	1190	
		Jawbone Coal(w/Shale break)		1190	1206	16	
		Sand/Shale/Thin Coal		1206	2022	816	
		Warcreek Coal		2022	2024	2	
		Sand/Shale/Thin Coal		2024	2090	66	
		Beckley Coal		2090	2094	4	
		Sand/Shale/Thin Coal		2094	2245	151	
		Sand/Shale/Thin Coal	Pocahontas		2245	2840	595
Mississippian	Bluestone	Red Shale		2840	2853	13	

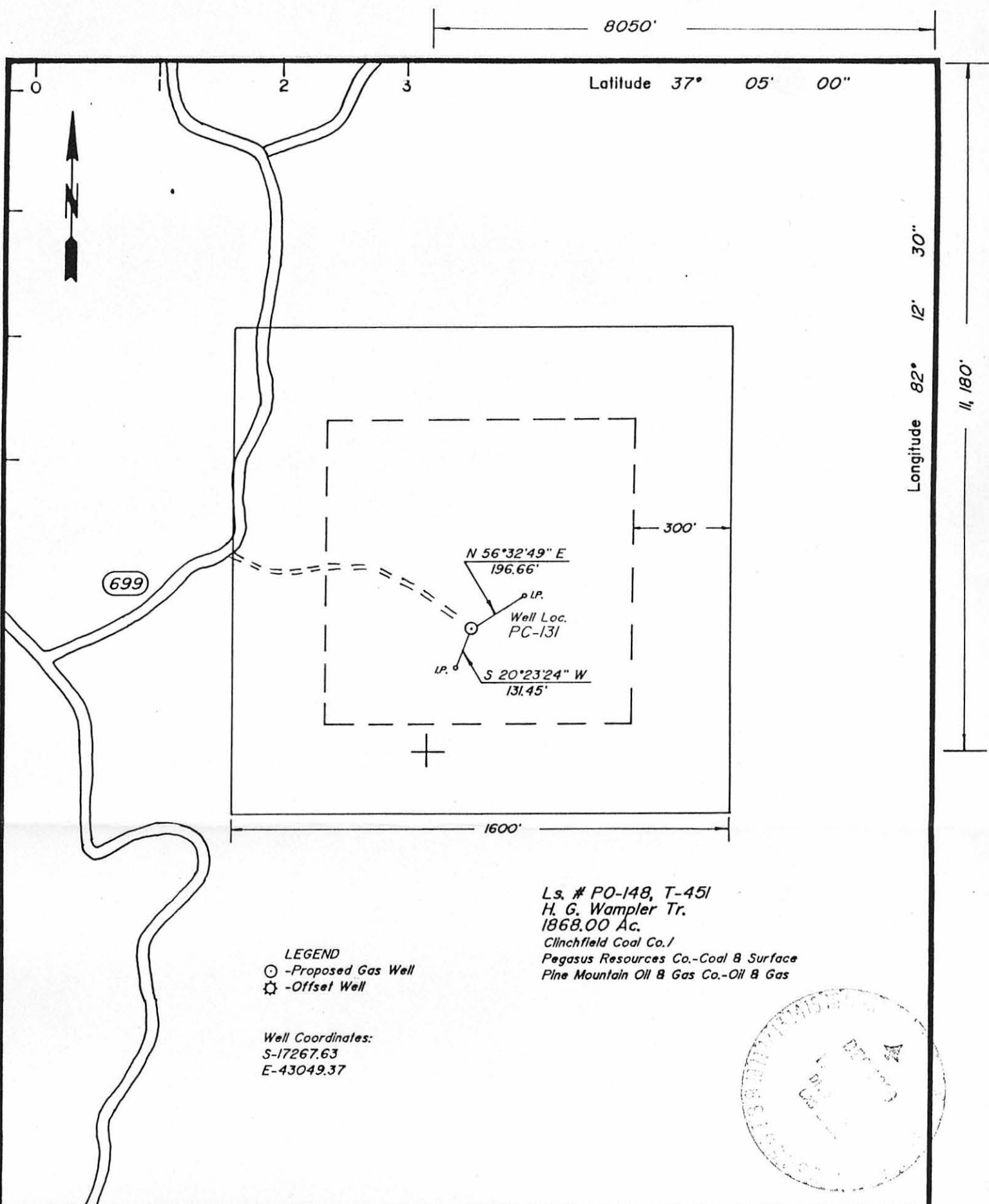
DIRECTIONAL SURVEY
PC-131

DEPTH

DEGREES

202'
415'
599'
784'
1032'
1188'
1343'
1559'
1806'
1993'
2117'
2302'
2425'
2610'
2827'

1 °
2 °
1½ °
1 °
1½ °
1½ °
1 °
1 °
1½ °
1½ °
2 °
2 ¾°
2½ °
2 °
2 °



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

LEGEND
 ⊙ -Proposed Gas Well
 ⊛ -Offset Well

Well Coordinates:
 S-17267.63
 E-43049.37



COMPANY Equitable Resources Exploration

ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660
 WELL NAME PC-131

FARM H. G. Wampler TRACT 451

LEASE NO. PO-148 ELEVATION 2676.93

ACRES 1868.00 QUADRANGLE Duty

COUNTY Dickenson DISTRICT Ervinton

REG. ENGINEER X REG. NO. 6992

CERT. LAND SURVEYOR _____ CERT. NO. _____

FILE NO. _____ DRAWING NO. 1964

DATE 12-13-89 SCALE 1" = 400'

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

FORM 5

WELL LOCATION MAP

WELL NO. PC-131 DE-471

+ Denotes location of well on United States
 Topographic Maps, scaled to 24,000, lat-
 itude and longitude lines being represented
 by border lines as shown.

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.

H. L. Baldridge
 Registered Engineer or Certified
 Land Surveyor in Charge