

OIL AND GAS WELL  
SUMMARY REPORT

API No. 45-051-20815-00-03 VDMR Well Rep. No. \_\_\_\_\_

DMQ File No. DI-245

Operator PHILADELPHIA OIL COMPANY

Farm J. M. COLLEY

Co. Well No. P-197

County DICKENSON Quadrangle NORA - 7 1/2'

Location (UTM) N4,107,070; E381,950 UTM Zone 17

(Lat. and Long.) \_\_\_\_\_

Field \_\_\_\_\_ Province APPALACHIAN PLATEAU

Elev. (specify) 1818.7' GR TD 6058 Form. at TD CORNIFEROUS

INITIAL FLOW - 40,000 CU. FT. Age DEVONIAN

Date compl. or abandoned DECEMBER 2, 1985

Result GAS WELL

Gas Shows \_\_\_\_\_

Gas Pays \_\_\_\_\_

Main Production \_\_\_\_\_ Prod. Form. BEREA;DEVONIAN

FINAL FLOW - ESTIMATED 1,489,000 CU.FT. Age MISSISSIPPIAN;DEVONIAN

Treatment: BEREA-75 QUALITY FOAM WITH 393 BARRELS OF FLUID, 945,000 SCF OF N2 AND 59,000 POUNDS OF SAND. DEVONIAN SHALE-75 QUALITY FOAM USING 350 BARRELS OF FLUID, 40,000 POUNDS OF SAND, AND 795,000 SCF OF N2.

Initial Production \_\_\_\_\_

Oil shows \_\_\_\_\_

Water FW YES at 88' at \_\_\_\_\_ at \_\_\_\_\_

SW \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_ at \_\_\_\_\_

Coal 201-203; 208-212; 243-245; 6a47-650; 1109-1112; 1175'- 1178'; 1522-1526; 1560-1563; 2032-2034

Plat \_\_\_\_\_ Plotted \_\_\_\_\_ Completion Report X

Drillers Log X Geologic Log \_\_\_\_\_

Samples \_\_\_\_\_ Interval Sheet \_\_\_\_\_

Sample Interval \_\_\_\_\_

Remarks \_\_\_\_\_

Geophysical Logs S.P. \_\_\_\_\_ Res \_\_\_\_\_ Gamma X Neutron X

Density X Sonic X Other TEMPERATURE

**Stratigraphic Data Source**

**FRANK JACOBEEEN, JR.**

<u>Formation</u>	<u>Top</u>	<u>Datum (Subsea)</u>	<u>Thickness</u>
TOP GREENBRIER	3845	- 2017	
BASE GREENBRIER	4264	- 2836	
SUNBURY	4614	- 2986	
BEREA	4928	- 3100	
DEVONIAN SHALE	5025	- 3197	
CORNIFEROUS	5896	- 4068	

**Remarks**

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**References**

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**Released to Open File: Completion** MARCH 2, 1986

**Samples** NO

**(Note: UTM measurements in meters, all others in feet)**



DJ. 245

API WELL NO. 45 - 051 - 20815  
State County Permit

Date: January 2, 1986  
Operator's well  
Name J. M. Colley, No. P-197

VIRGINIA OIL AND GAS INSPECTOR  
205 W. MAIN STREET  
ABINGDON, VA 24210  
703-628-3115

PHILADELPHIA OIL CO,  
J. M. COLLEY  
P-197  
SUR. EL. - 1918.40'  
NORA 7 1/2'

REPORT OF COMPLETION OF WELL WORK

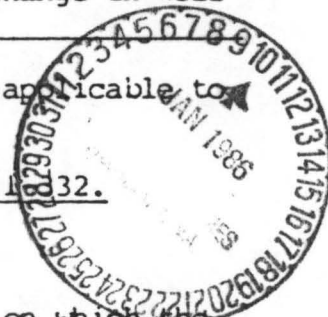
Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Ervinton District, Dickenson County, Virginia on 2 day, December month, 19 85.

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 \_\_\_/ 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 \_\_\_\_\_, 19\_\_\_, 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: Philadelphia Oil Company  
BY Brint Camp  
ITS District Geologist  
ADDRESS 1101 N. Eastman Rd., Kingsport, TN 37664  
TELEPHONE 615/246-4332

Form 16  
Appendix A, Sheet 1 (Reverse)  
Continued from Obverse side

#### OTHER GENERAL INFORMATION

An electric log survey was \_\_\_/ was not \_\_\_/ conducted pursuant to Code of Virginia Section 45.1-333.B.2, at the coal owner's or operator's request.

An electric log survey was x/ was not \_\_\_/ run for other purposes. This survey did \_\_\_/ did not x/ disclose the vertical location of a coal seam.

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Code of Virginia Section 45.1-333.B.3.

Deviation surveys were x/ were not \_\_\_/ required under Code of Virginia Section 45.1-333.C "to the bottom of the lowest published coal seam depth."

Note: If deviation surveys were required, the survey results are attached.

A continuous survey was \_\_\_/ was not x/ required under Code of Virginia Section 45.1-333.C.

Note: If a continuous directional 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.



CASING AND TUBING PROGRAM

PRELIMINARY INFORMATION

Is the subject well underlaid by the red shales? Yes  / No  /  
If Yes, was a coal protection string set to the red shales? Yes  / No  /

	SIZE	TOP	BOTTOM	LENGTH	PERFORATIONS	
					FROM	TO
<u>CONDUCTOR:</u>	11-3/4"		22'			
<u>CASING CIRCULATED AND CEMENTED IN TO SURFACE:</u>	8-5/8"		2151'			
<u>COAL PROTECTION CASING SET UNDER SPECIAL RULE OF CODE OF VIRGINIA 45.1-334.B:</u>						
<u>OTHER CASING AND TUBING LEFT IN WELL;</u>	4-1/2"		6017'		4932 - 5020	5728 - 5894
<u>LINERS LEFT IN WELL UNDER CODE OF VIRGINIA SECTION 45.1-336 OR OTHERWISE:</u>	2-3/8"		5800'			

<u>PACKERS OR BRIDGE PLUGS:</u>	<u>KIND</u>	<u>SIZE</u>	<u>SET AT</u>
	Larkin-Tension	4-1/2" X 2-3/8"	5202

REMARKS: SHUT DOWN DEPTHS, DATES; FISHING JOB DEPTHS, 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 THE VIRGINIA DIVISION OF MINERAL RESOURCES UPON REQUEST  
 WILL  WILL NOT  REQUIRE SACKS TO BE FURNISHED BY THE VIRGINIA DIVISION OF MINERAL RESOURCES.

DRILLER'S LOG P-197

Compiled by Brint Camp

Geolo- gical Age	Formation	General Lithology	Color	Depth (feet)		Thickness	Remarks
				Top	Bottom		
	Sand & Shale			0	2592	2592	
	Ravencliff			2592	2720	128	
	Little Stone Gap			2720	2792	72	
	Shale			2792	2860	68	
	Maxon Sands			2860	3493	633	
	Shale			3493	3646	153	
	Little Lime			3646	3700	54	
	Lime and Shale			3700	3845	145	
	Big Lime			3845	4264	419	
	Keener			4264	4352	88	
	Weir			4352	4854	502	
	Coffee Shale			4854	4928	74	
	Berea			4928	5032	104	
	Brown Shale			5032	5898	866	
	White Slate			5898	6053	155	
	Logger's T. D.			6053			

Complete on supplemental sheet as necessary





DIRECTIONAL SURVEY

P-197

<u>Depth</u>	<u>Degrees</u>
201'	1/16°
415'	1/2°
599'	1/2°
818'	1-1/2°
1005'	1-1/2°
1224'	2-1/2°
1318'	2-1/2°
1412'	2-1/4°
1599'	1/2°
1818'	1/4°
2004'	1/2°

(FOR OFFICE USE ONLY: APPLICABLE No. 45 -          -           
State County P

Date: July 16 / , 1985

Operator's Well No. P-197 DF-245

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  
1101 N. Eastman Road  
Address Kingsport, TN. 37664  
Farm J. M. Colley  
Tract T-18 Acres 547.88 Lease No. PO-148  
Elevation 1818.40'  
Quadrangle Nora, VA.  
County Dickenson District Ervinton  
Registered Engineer          Registration No.           
Certified Land Surveyor          Cert. No.           
File No.          Drawing No.           
Date 7-16-1985 Scale 1"=400'

Certification of Well Plat

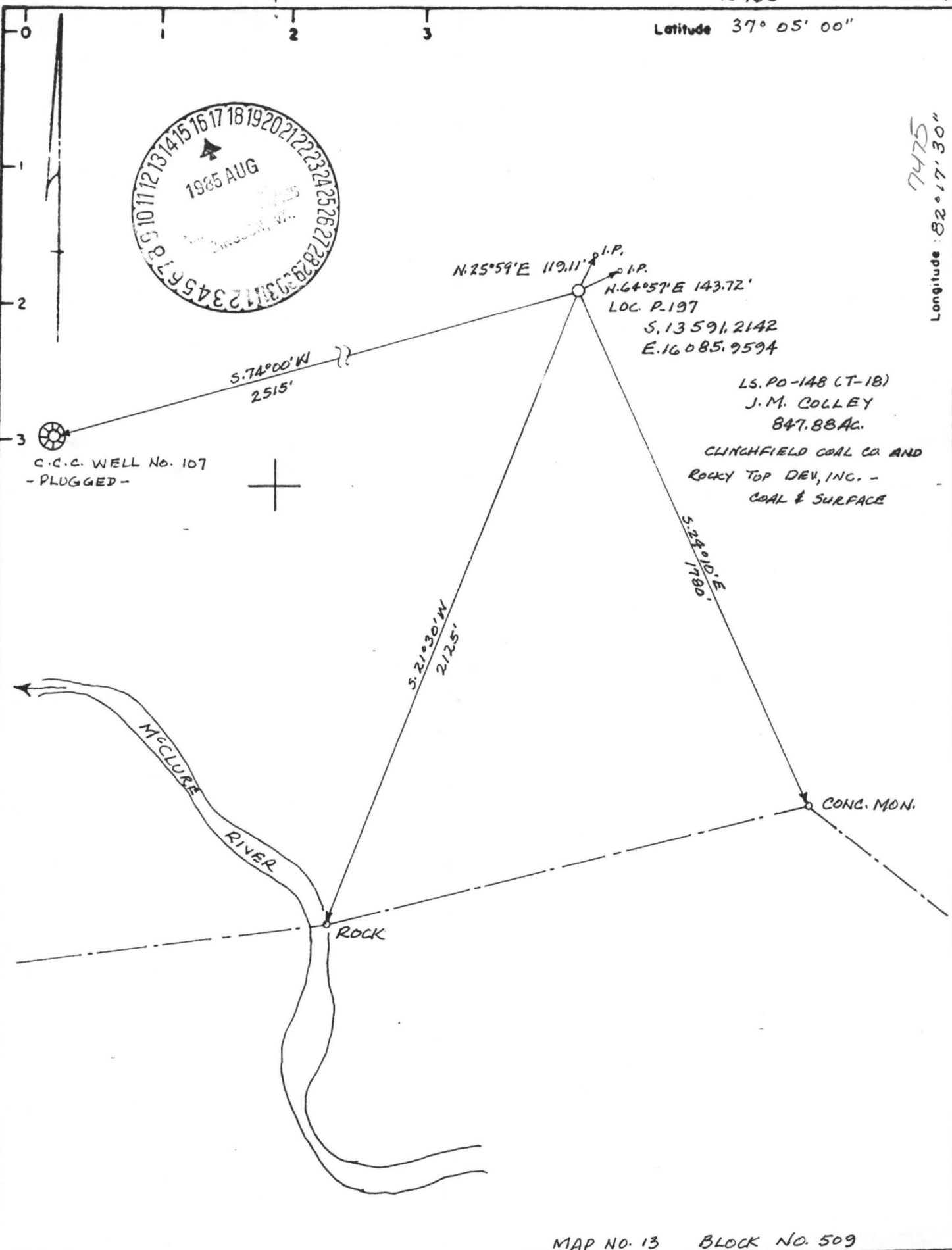
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Virginia Well Review Board.

Luther Perkins Jr. Va. #871  
~~Registered Engineer or Certified Land Surveyor~~  
in Charge

10760'

Latitude 37° 05' 00"

7475  
Longitude 82° 17' 30"



C.C.C. WELL No. 107  
- PLUGGED -

LS. PD-148 (T-18)  
J. M. COLLEY  
847.88 AC.  
CLINGFIELD COAL CO AND  
ROCKY TOP DEV, INC. -  
COAL & SURFACE