rorm to

API NO. <u>45</u> - <u>051</u> - <u>21088</u> WELL NAME: <u>David Colley</u>, PC-431 DATE July 25, 1990

DI - 399

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 <u>Ervinton</u> District <u>Dickenson</u> County, Virginia on <u>15</u> day, <u>May</u> 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 ( ) W	(x) Gas-Ginderground Storage ()
LOCATION	abee bibpobal ( )
COUNTY Dickenson	DISTRICT Ervinton
SURFACE ELEVATION2228.17'	QUADRANGLE Nora
LATITUDE 11,880'S 37° 05' 00"	LONGITUDE <u>11,810</u> 'W <u>82°</u> <u>17</u> <u>30</u> "
DRILLING DATA	
DATE DRILLING COMMENCED 4/8/90	DRILLING CONTRACTOR Union Drilling
DATE DRILLING COMPLETED 4/13/90	ADDRESS Drawer 40. Buckhappon WV 26201
DATE WELL COMPLETED 5/15/90	ADDRESS Drawer 40, Buckhannon, WV 26201 TELEPHONE NUMBER 304-472-4610
TOTAL DEPTH OF COMPLETED WELL 2557	RIG TYPE X ROTARY CABLE TOOL
GEOLOGICAL DATA	
FRESH WATER AT (1)FEETSALT WATER AT (1)1852FEET 11	GPM: (2) FEET GPM
SALT WATER AT (1) 1852 FEET 'st	r XXXXX: (2) FEET GPM
COAL SEAMS:	
	MINING IN AREA
	NESS XES NO MUNIERXXXXX
U. Horsepen 1659 1660 1	Unnamed C 1829 1830 1
M. Horsepen 1687 1688 1	L. Horsepen 1926 1927 1
<u>C- Seam 1763 1764 1</u>	Poco #2         2440         2441         1           Poco #1         2475         2476         1
Warcreek 1795 1796 1	Poco #1 24/5 24/6 1
OIL AND GAS SHOWS:	
	IPF(MCFD/BOPD) PRESSURE HOURS TESTED
T.D. 2556	21 MCF
	21 1161
STIMULATION RECORD Poco 1, Poco 2, L. Hon	
ZONE (1) M. Horsepen, U. Horsepen FORMA	FION STIMULATED WITH 750 Limited Entry
foam frac using 525 bbls fluid, 927,400 Scfl	N2 & 12,095# 12/20 sand.
PERFORATED 1659 TO 2476 NO. OF PERFO	DRATIONS 14 PERFORATION SIZE .36
	IG AVERAGE INJECTED RATE 13.6 BPM
INITIAL SHUT IN PRESSURE 1760 PSIG	5 MINUTE SHUT IN PRESSURE 1390 PSIG
STIMULATION RECORD	
ZONE (2) FORMAT	TON STIMULATED WITH
PERFORATED TO NO. OF PERI	FORATIONS, PERFORATION SIZE
FORMATION BROKE DOWN AT PSI	IG AVERAGE INJECTED RATE BPM
INITIAL SHUT IN PRESSURE PSIG	MINUTE SHUT IN PRESSURE PSIG
FINAL PRODUCTION: ( ) NATURAL (x)	AFTER STIMULATION
BOD MCFD HOURS TESTER	FORATIONS, PERFORATION SIZE IG AVERAGE INJECTED RATE BPM MINUTE SHUT IN PRESSURE PSIG AFTER STIMULATION NO ROCK PRESSURE HOURS TESTED
ZONE (1)	
LONE (2)	
FINAL PRODUCTION IF GAS ZONES ARE COM	
<ul> <li>* - This is not an absolute open flow.</li> </ul>	PSIG HOURS TESTED

Form 16, App	endix A	Sheet	2	Well	Name Day	vid Coll	ey, PC-431
CASING AND T		OP BO	TTOM 1	LENGTH	PERFORA FEET TO	TIONS	CKERS OR BRIDGE PLUGS KIND SIZE SET AT
CONDUCTOR 9	5/8"		22'				
CASING Circulated and Cemented to Surface							
WATER PROTEC (Casing Set According to Section 45.1-334)	1	3	50'				
COAL PROTECT (Casing Set According to Section 45.1-334)							
OTHER CASING Tubing Left 4 In Well 2			46' 11'				
LINERS Remaining In Well							
OTHER used an left	nd not						
Is the well a protection st	inderlain ring se	h by Red t to Red	Shale Shales	Yes ?Yes	No, If	Yes,	was coal
REMARKS: Shu	it down,	fishing	jobs,	depths a	and dates	, cavi	ng, etc.
		en e					

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18 A 1 1

Form 16, Appendix A Sheet 3 Well Name David Colley, PC-431 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-TEMP-GR Did log disclose vertical location of a coal seam? Yes x No 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 COMPLETION DATE of the well) for a period of X Ninety (90) days

two (2) years, if the well is exploratory

DRILLER'S LOG Compiled by \_\_\_\_\_J. Matthew Conrad

Geologic	al	General		De	pth		
Age	Formation	Lithology	Color	Тор	Bottom	Thickness	Remarks
ennsylvanian	Lee	Sand/Shale/	Thin Coal	0	2474	2474	
	•	Poco #1 Coal	L	2474	2477	3	
		Sand/Shale/7	Thin Coal	2477	2556	79	
ississippian	Bluestone	Red Shale		2556	2557	1	

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# DIRECTIONAL SURVEY PC-431

DEPTH	DEGREES
199	3/4°
431	1 0
883	3/4°
1075	3/4°
1256	1 °
1343	1 °
1474	3 °
1660	11 °
1908	11 °
2125	3/4°
2338	1 <u>1</u> °
2560	1 °

ES

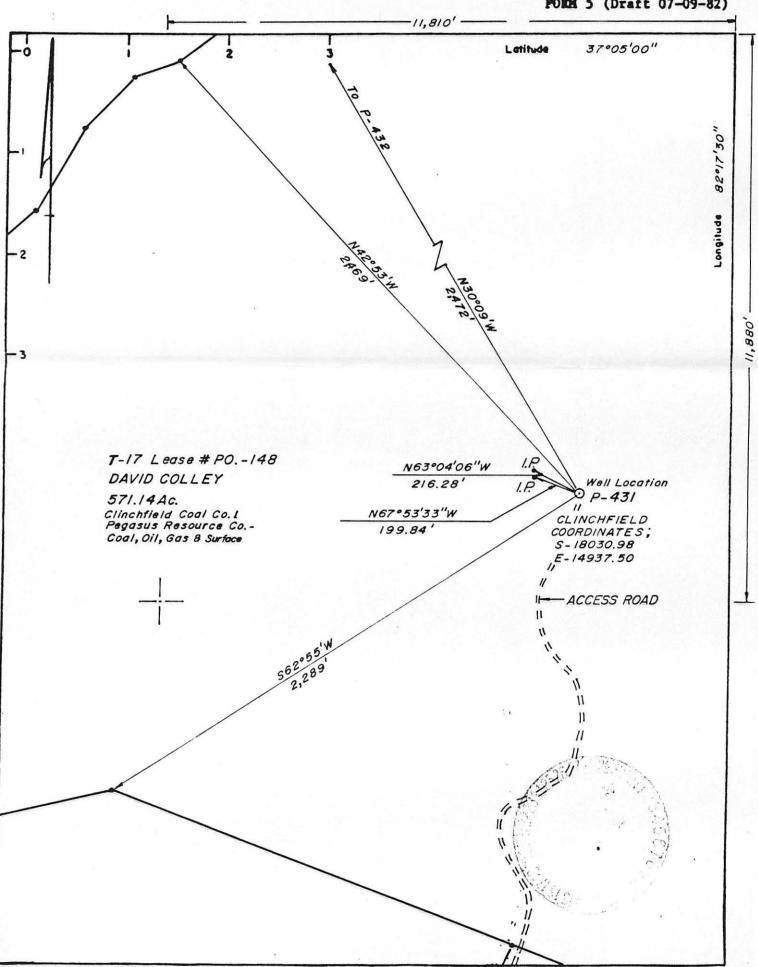
Date:	January	28	. 19 <i>87</i> .
Operator Well No.	r's P-431		
	, /	211-	399
VIRGINIA OIL AND GAS DEPARTMENT OF LABOR AN DIVISION OF MI	D INDUSTRY	203031	
OIL AND GAS SEC 205 W. MAIN 57 ABINGDON, VIRGINIA PHONE 703 628-6	TREET (2	1	S. COLS
WELL PLAT	1	e.,	12
Denotes location of well on U aphic Maps, scale 1 to 24,000 ingitude lines are represented iown.	. Latitud	e and	
is plat is new $X /$ updated	_/		
his plat is $X$ / is not/ ba coordinate system establishe of the well location.			
11 operator Philadelphia Oil Compo	any		
1989 East Stone Drive			
Idress <u>2 Executive Park Place, Kings</u> Im David Colley	oort. TN 370	560	
	Lease No.	POIAR	
evation 2228.17	Lease no.	10-140	
adrangle Nora			
unty Dickenson District	Ervinton		
gistered Engineer X Regist	tration No.	6992	
rtified Land Surveyor	Cert. No.		
	No. 1850		
te 1-28-87 Scale	1" = 400'		

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# Certification of Well Plat

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

IN. L. Baldwidge Registered Engineer or Certified Land Surveyor in Charge



FORM 5 (Draft 07-09-82)