

**ENTERED**

Department of Mines, Minerals and Energy  
Division of Gas and Oil  
P.O. Box 1416  
Abingdon, Virginia 24210  
540/676-5423

SEP 1997  
RECEIVED  
DIVISION OF  
GAS & OIL

COMPLETION REPORT

WELL TYPE: Oil  Gas  Coalbed Methane  or Injection  well

Date Well Completed: 7/28/97 Total Depth of Well: LTD - 2837 DTD - 2825

Attach the Drilling Report; if not previously submitted. In addition, submit any changes in casing or tubing that were approved after the Drilling Report was submitted.

STIMULATION RECORD

Zone 1: COAL SEAMS\* Formation Stimulated With: 70Q FOAM W/  
17000# 12/20 SAND - 822000 SCF N2 - 623 BF

Perforated: 1929.5 to: 2649.5 No. of Perforations: 12 Size: 0.34"  
Formation Broke Down at: 2073 PSIG Average Injection Rate: 14.9 (48) BPM  
ISIP: 1784 PSIG 5 Min SIP: 1726 PSIG Average Injection Pressure 3752  
Date Stimulated: 7/28/97

\* C-SEAM, UNNAMED "C", BECKLEY, L HORSEPEN, POCO #2

Zone 2: \_\_\_\_\_ Formation Stimulated With: \_\_\_\_\_

Perforated: \_\_\_\_\_ to: \_\_\_\_\_ No. of Perforations: \_\_\_\_\_ Size: \_\_\_\_\_  
Formation Broke Down at: \_\_\_\_\_ PSIG Average Injection Rate: \_\_\_\_\_  
ISIP: \_\_\_\_\_ PSIG 5 Min SIP: \_\_\_\_\_ PSIG Average Injection Pressure \_\_\_\_\_  
Date Stimulated: \_\_\_\_\_

Zone 3: \_\_\_\_\_ Formation Stimulated With: \_\_\_\_\_

Perforated: \_\_\_\_\_ to: \_\_\_\_\_ No. of Perforations: \_\_\_\_\_ Size: \_\_\_\_\_  
Formation Broke Down at: \_\_\_\_\_ PSIG Average Injection Rate: \_\_\_\_\_  
ISIP: \_\_\_\_\_ PSIG 5 Min SIP: \_\_\_\_\_ PSIG Average Injection Pressure \_\_\_\_\_  
Date Stimulated: \_\_\_\_\_

FINAL PRODUCTION: \_\_\_\_\_ Natural  After Stimulation  
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED  
Zone (1)  
Zone (2)  
Zone (3)  
Final Production if Gas  
Zones are Commingled 39 MCFD 6 Hours Tested 370 PSIG 48 Hours Tested

\*Use additional sheets with this format, if more than three (3) zones were stimulated.

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)  
By: Joseph R. Clum (Signature)

Department of Mines, Minerals and Energy  
Division of Gas and Oil

Operations Name: F MULLINS  
Permit #: 3292

Well #: VCP3632  
VA File #: DI-0834

Department of Mines, Minerals and Energy  
Division of Gas and Oil  
P.O. Box 1416  
Abingdon, Virginia 24210  
540/676-5423

DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP3632 in the  
ERVINTON District of the DICKENSON County, Virginia on 18<sup>TH</sup> day,  
SEPTEMBER month, 1997.

LOCATION

County: DICKENSON District: ERVINTON  
Surface Elevation: 2374 Elev of Kelly Bushing: 2384 Quadrangle: NORA  
6780 Ft. S of Latitude 37 05 00 and 4000 Ft. W of Longitude 82 17 30

DRILLING DATA

Date Drilling Commenced: 7/2/97 Drilling Contractor: UNION DRILLING  
Date Drilling Completed: 7/12/97 Rig Type: X Rotary        Cable Tool  
Total Depth of Well: LTD - 2837 DTD - 2825

GEOLOGICAL DATA

Fresh Water at:	739	feet	DAMP	GPM	feet	GPM
		feet		GPM	feet	GPM
		feet		GPM	feet	GPM
Salt Water at:		feet		GPM	feet	GPM
		feet		GPM	feet	GPM
		feet		GPM	feet	GPM

COAL SEAMS:

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>MINING IN AREA</u>		
				<u>YES</u>	<u>NO</u>	<u>MINED OUT</u>
AIFY	922	924	2			
UNNAMED "C"	1980	1984	4			
BECKLEY	2008	2010	2			
POCO #2	2647	2650	3			

GAS AND OIL SHOWS:

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>IPF (MCFD/BOPD)</u>	<u>PRESSURE</u>	<u>HOURS TESTED</u>
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Cuttings or samples are  are not available for examination by a member of the Virginia Division of Mineral Resources  
Cuttings or samples have  have not been furnished to the Virginia Division of Mineral Resources

ELECTRIC LOGS AND SURVEYS

List logs run on wellbore: GR/ DEN/TMP

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

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
200	1/4°	1634	1/2°
347	1/2°	1667	1/2°
451	1°	1860	1°
557	1°	2060	1 1/2°
750	3/4°	2119	1 3/4°
950	3/4°	2163	2 1/4°
1002	3/4°	2363	1 3/4°
1202	3/4°	2455	1 3/4°
1402	1/4°	2597	1 1/2°
1602	1/2°	2638	1 1/2°

CASING AND TUBING

	SIZE	TOP	BOTTOM	LENGTH	CEMENT USED IN CU/FT	DATE CEMENTED	PACKERS OR BRIDGE PLUGS KIND SIZE SET AT
<u>Conductor</u>	11 3/4		24	17	GROUTED		
<u>Surface</u>							
<u>Water Protection</u>	8 5/8		319	309	90(106)	7/9/97	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2		2808	2798	538(734)	7/13/97	
	2 3/8		2734.45				

Liners

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

DRILLER'S LOG

Compiled by: ENGINEERING

AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENN	SAND, SHALE & THIN COALS	AILY		0	922	922	
	SAND, SHALE & THIN COALS	UNNAMED "C"		922	924	2	
	SAND, SHALE & THIN COALS	BECKLEY		924	1980	1056	
	SAND, SHALE & THIN COALS	POCO #2		1980	1984	4	
	SAND, SHALE & THIN COALS			1984	2008	24	
	SAND, SHALE & THIN COALS			2008	2010	2	
	SAND, SHALE & THIN COALS			2010	2647	637	
	SAND, SHALE & THIN COALS			2647	2650	3	
	SAND, SHALE & THIN COALS			2650	2837	187	

LOGGER'S TOTAL DEPTH 2837

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

By: Joseph W. Clumey (Signature)

TOTAL UNIT AREA  
= 58.77 ACRES

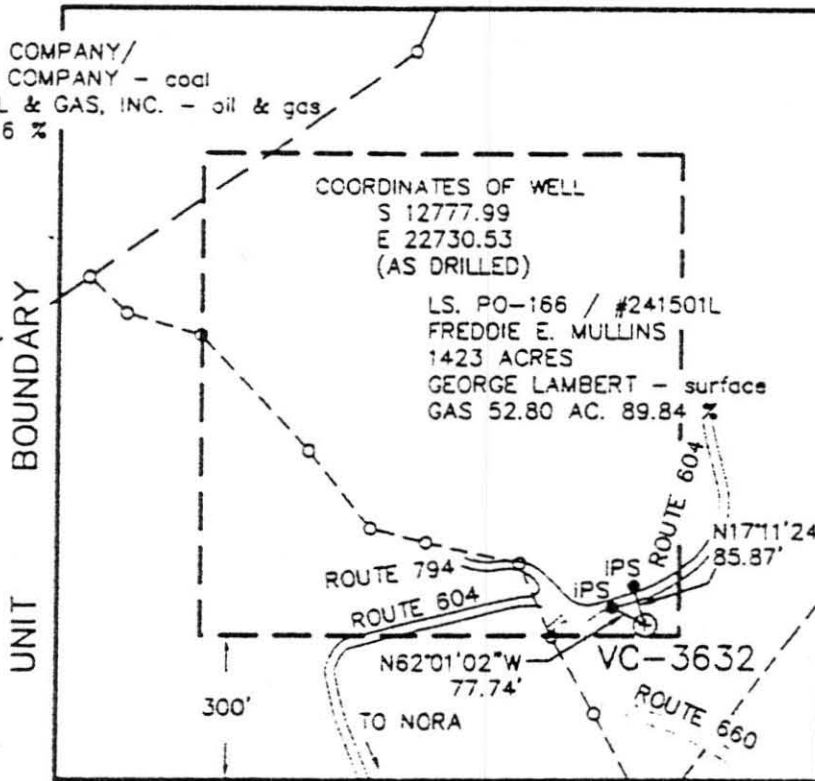
LATITUDE 37°05'00"

4000'

TRUE  
LONGITUDE 82°17'30"  
6780'

LS #241490L / T-9  
T.J. BALL  
206 ACRES  
CLINCHFIELD COAL COMPANY/  
PYXIS RESOURCES COMPANY - coal  
PINE MOUNTAIN OIL & GAS, INC. - oil & gas  
GAS 5.97 AC. 10.16 %

UNIT BOUNDARY



UNIT BOUNDARY

UNIT BOUNDARY

UNIT BOUNDARY

FREDDIE E. MULLINS - surface

STATE PLANE COORDINATES  
OF WELL VC-3632  
N 288708.93  
E 889932.02

COORDINATES  
OF BENCH MARK  
S 13640.02  
E 21237.31  
ELEV. = 2447.26



NOTE !!!

WELL COORDINATES ARE BASED ON CLINCHFIELD  
COAL COMPANY'S MINE COORDINATE SYSTEM  
STATE PLANE WELL COORDINATES ARE CALCULATED  
FROM CLINCHFIELD COAL COMPANY COORDINATES.  
PROPERTY INFORMATION PROVIDED BY EQUITABLE  
RESOURCES ENERGY COMPANY.  
ELEVATIONS ARE BASED ON TRIANGULATION STATION  
HATCHET

LOCATION PLAT 7-6-87

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC-3632

TRACT No. PO-166 / 241501L ELEVATION 2374.60 (Trig) QUADRANGLE NORA

COUNTY DICKENSON DISTRICT ERVINTON SCALE: 1" = 400' DATE JULY 3, 1997

THIS PLAT IS A NEW PLAT   ; AN UPDATED PLAT   ; OR A FINAL LOCATION PLAT X

PROPOSED TOTAL DEPTH OF WELL =           

+ DENOTES THE LOCATION OF A WELL ON UNITED STATES TOPOGRAPHIC MAPS, SCALE 1 TO 24,000, LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

*B. Lemman Kendrick 715157*

(AFFIX SEAL.)

LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR

LATITUDE 37°05'00"

TOTAL UNIT AREA  
= 58.77 ACRES

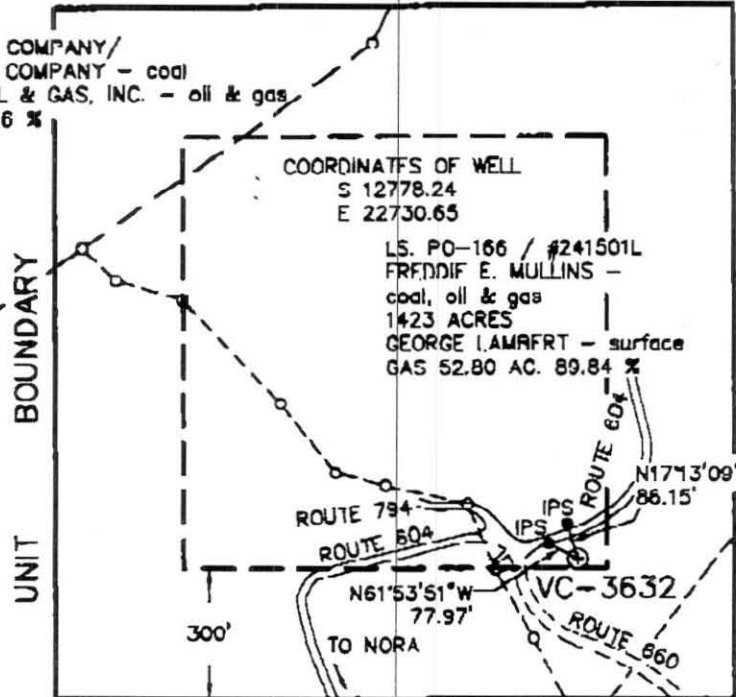


LONGITUDE 82°17'30"

6780

LS #241490L / T-9  
T.J. BALL  
206 ACRES  
CLINCHFIELD COAL COMPANY/  
PYXIS RESOURCES COMPANY - coal  
PINE MOUNTAIN OIL & GAS, INC. - oil & gas  
GAS 5.97 AC. 10.16 %

UNIT BOUNDARY

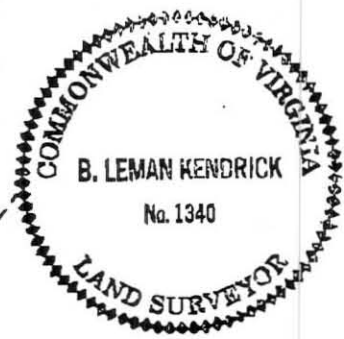


COORDINATES OF WELL  
S 12778.24  
E 22730.65

LS. PO-166 / #241501L  
FREDDIE E. MULLINS -  
coal, oil & gas  
1423 ACRES  
GEORGE LAMFRFT - surface  
GAS 52.80 AC. 89.84 %



UNIT BOUNDARY



FREDDIE E. MULLINS - surface

STATE PLANE COORDINATES  
OF WELL VC-3632  
N 288708.69  
E 889932.13

COORDINATES  
OF BENCH MARK  
S 13640.02  
E 21237.31  
ELEV. = 2447.26

DWellINGS NOTE !!!

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COAL COMPANY'S MINE COORDINATE SYSTEM  
STATE PLANE WELL COORDINATES ARE CALCULATED  
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PROPERTY INFORMATION PROVIDED BY EQUITABLE  
RESOURCES ENERGY COMPANY.  
ELEVATIONS ARE BASED ON TRIANGULATION STATION  
HATCHFT

WELL LOCATION PLAT

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC-3632  
TRACT No. PO-166 / 241501L ELEVATION 2374.60 (Trig) QUADRANGLE NORA  
COUNTY DICKENSON DISTRICT ERVINTON SCALE: 1" - 400' DATE DECEMBER 20, 1996  
THIS PLAT IS A NEW PLAT x; AN UPDATED PLAT   ; OR A FINAL LOCATION PLAT     
PROPOSED TOTAL DEPTH OF WELL =   

+ DENOTES THE LOCATION OF A WELL ON UNITED STATES TOPOGRAPHIC MAPS, SCALE 1 TO 24,000, LATITUDE AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN.

*B. Lemman Kendrick* 12/20/96

(AFFIX SEAL)

LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR