

DF-726

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

Operations Name: Darius Mullins VC2943  
Permit #: 2611

Department of Mines, Minerals and Energy  
Division of Gas and Oil  
P. O. Box 114  
Abingdon, Virginia 26210  
703/676-5423



COMPLETION REPORT

WELL TYPE: Oil  Gas  Coalbed Methane  or Injection  well

Date Well Completed: 3-24-94 Total Depth of Well: LTD=2769 DTD=2770

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: 70 Q Form  
w/ 12570 # 12/20 sand - 755/50 SCF N<sub>2</sub> - 1721 BF - 700 gal 7.5% HCL acid  
Perforated: 1889 TO 2628.5 No. of Perforations: 14 Perforation Size: .34"  
Formation Broke Down at: 925 PSIG Average Injection Rate: 14.8 BPM (49 DH)  
ISIP 2019 PSIG 5 MIN SIP 1529 PSIG Average Injection Pressure 3779 PSIG  
Date Stimulated 3-24-94

\*Unnamed "B", M. Horsepen, C-Seam, Beckley, L. Horsepen, Poco #9, Poco #5, Poco #4  
Zone 2: \_\_\_\_\_ Formation Stimulated With: \_\_\_\_\_

Perforated: \_\_\_\_\_ TO \_\_\_\_\_ No. of Perforations: \_\_\_\_\_ Perforation Size: \_\_\_\_\_  
Formation Broke Down at: \_\_\_\_\_ PSIG Average Injection Rate: \_\_\_\_\_  
ISIP \_\_\_\_\_ PSIG \_\_\_\_\_ MIN SIP \_\_\_\_\_ PSIG Average Injection Pressure \_\_\_\_\_ PSIG  
Date Stimulated \_\_\_\_\_

Zone 3: \_\_\_\_\_ Formation Stimulated With: \_\_\_\_\_  
Perforated: \_\_\_\_\_ TO \_\_\_\_\_ No. of Perforations: \_\_\_\_\_ Perforation Size: \_\_\_\_\_  
Formation Broke Down at: \_\_\_\_\_ PSIG Average Injection Rate: \_\_\_\_\_  
ISIP \_\_\_\_\_ PSIG \_\_\_\_\_ MIN SIP \_\_\_\_\_ PSIG Average Injection Pressure \_\_\_\_\_ PSIG  
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 6 MCFD 6 Hours Tested 360 PSIG 48 Hours Tested

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. [Signature] (Signature)

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P. O. Box 1416  
Abingdon, Virginia 24210  
703/676-5423

DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VC 2943 in the ERVINTON District of the DICKENSON County, Virginia on 15th day, APRIL month, 1994.

LOCATION

County: DICKENSON District: ERVINTON  
Surface Elevation: 2550.46' Elevation of Kelly Bushing: 2560.5' Quadrangle: NORA  
11920 FT. S. of Latitude 37° 02' 30" and 3640 FT. W. of Longitude 82° 20' 00"

Attach a final location plat as required by VR 480-05-22.1, § 1.36.

DRILLING DATA

Date Drilling Commenced: 3-14-94 Drilling Contractor: UNION DRILLING  
Date Drilling Completed: 3-19-94 Rig Type:  Rotary  Cable Tool  
Total Depth of Well: LTD=2769 DTD=2770

GEOLOGICAL DATA

Fresh Water at: 171 Feet 1 1/2" STREAM GPM \_\_\_\_\_ Feet \_\_\_\_\_ GPM  
\_\_\_\_\_ Feet \_\_\_\_\_ GPM \_\_\_\_\_ Feet \_\_\_\_\_ GPM  
Salt Water at: \_\_\_\_\_ Feet \_\_\_\_\_ GPM \_\_\_\_\_ Feet \_\_\_\_\_ GPM  
\_\_\_\_\_ Feet \_\_\_\_\_ GPM \_\_\_\_\_ Feet \_\_\_\_\_ GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
UNNAMED "B"	1888	1890	2			
POCO #5	2609	2611	2			

GAS AND OIL SHOWS:

NONE REPORTED

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

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Cuttings or samples are    are not X available for examination by a member of the Virginia Division of Mineral Resources  
 Cuttings or samples have    have not X been furnished to the Virginia Division of Mineral Resources

ELECTRIC LOGS AND SURVEYS

List logs run on wellbore: LTD/GR/TEMP

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

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
172	1°	1707	3/4°
372	1°	1891	1/2°
600	1 1/4°	2021	1/2°
800	3/4°	2141	1/2°
1000	1°	2341	1/2°
1200	1°	2527	3/4°
1400	3/4°	2572	3/4°
1507	3/4°		

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>	13 3/8"		47'	37'			
<u>Surface</u>	8 5/8"		540'	530'	150(177)	3-15-94	
<u>Water Protection</u>							
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2"		2692'		550(710)	3-19-94	
	2 3/8"		2657.7'				

Liners

REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.  
 OPEN MINE @ 455-465; LOST CIRCULATION

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DRILLER'S LOG

Compiled by ENGINEERING

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
ENNSYLVANIAN	SAND, SHALE & THIN COALS			0	1888	1888	
	UNNAMED "B" COAL			1888	1890	2	
	S S TC *			1890	2609	719	
	POCD #5 COAL			2609	2611	2	
	S S TC*			2611	2769	158	

LOGGERS' TOTAL DEPTH 2769

\* SAND, SHALE & THIN COALS

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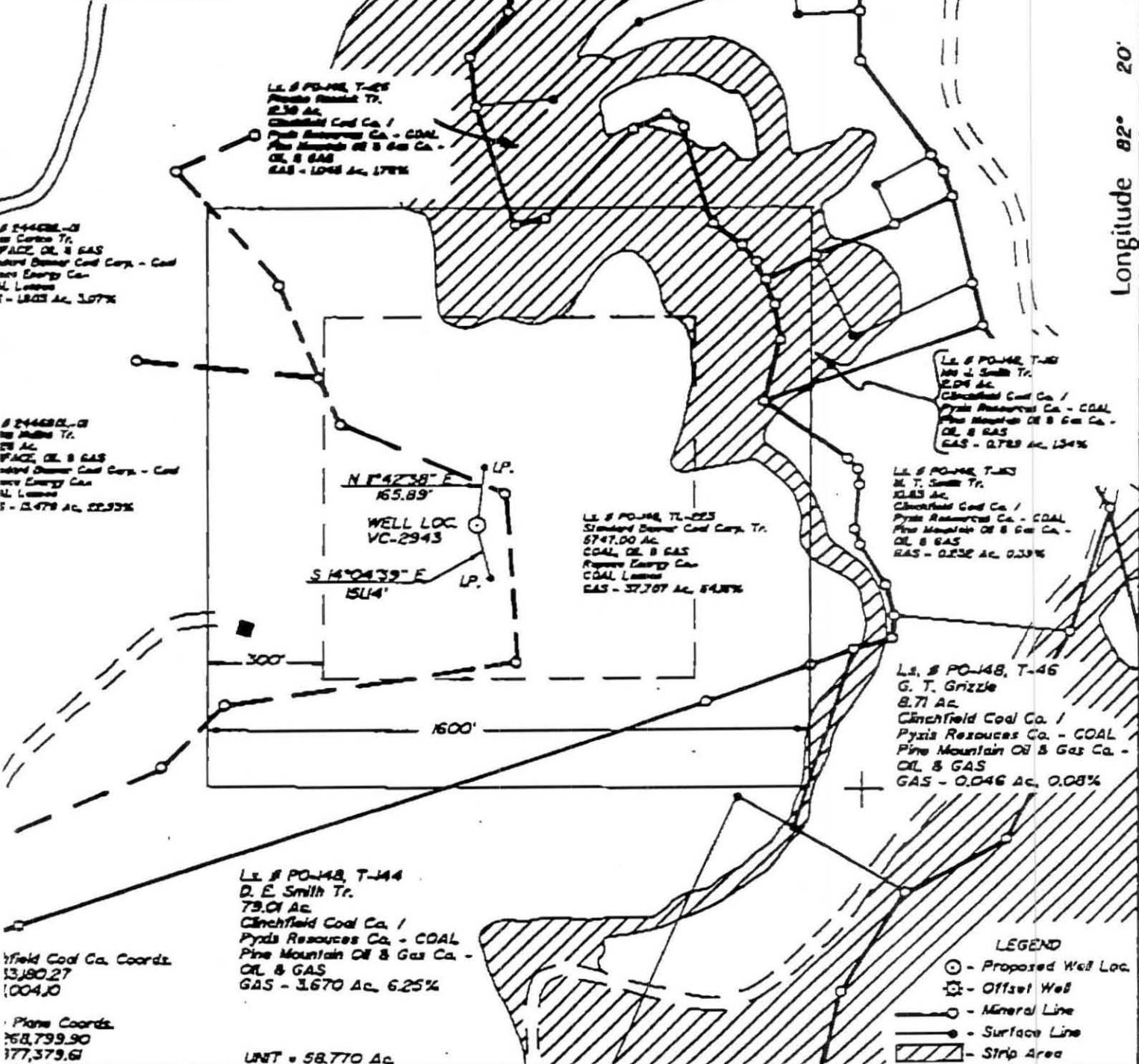
By: *Joseph L. Gray* (Signature)

3,640'

Latitude 37° 02' 30"

Longitude 82° 20' 00"

NOTE: Elevation determined by Trigonometric leveling from Hotshot Monument.



L.S. # 244680L-01, P.30 Ac. Clinchfield Coal Co. / Pyxis Resources Co. - COAL, Pine Mountain Oil & Gas Co. - OIL & GAS, GAS - 1065 Ac. 178%

L.S. # 244680L-01, P.29 Ac. Clinchfield Coal Co. / Pyxis Resources Co. - COAL, Pine Mountain Oil & Gas Co. - OIL & GAS, GAS - 2785 Ac. 134%

Clinchfield Coal Co. Coords. 13,180.27, 1004.10

Plane Coords. 258,739.90, 177,379.61

UNIT = 58,770 Ac.

WELL LOCATION PLAT

21-G-8b

DWG. # 3193

Company Equitable Resources Exploration Well Name and Number VC-2943  
 Plat No. L.S. # 244680L-01 Elevation 2550.46 Quadrangle Nora  
 County Dickenson District Ervington Scale: 1"=400' Date 11-08-93  
 Plat is a new plat X; an updated plat    or a final location plat   ;  
 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.