

DI-744

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

Operations Name: FREDDIE MULLINS VCP 3046

Permit #: 2740

Department of Mines, Minerals and Energy
Division of Gas and Oil
P. O. Box 1416
Abingdon, Virginia 24210
703/676-5423

Confid. 12-9-94



COMPLETION REPORT

WELL TYPE: Oil ___ Gas ___ Coalbed Methane X or Injection ___ well

Date Well Completed: 9-9-94 Total Depth of Well: LTD=2729 DTD=2736

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 FOAM
W/ 18400# 12/20 SAND - 889100 SCF N2 - 2127 BF
Perforated: 1738.5 To 2551 No. of Perforations: 17 Perforation Size: .34"
Formation Broke Down at: 1665 PSIG Average Injection Rate: 14.1 BPM (45 DH)
ISIP 1800 PSIG 5 MIN SIP 1602 PSIG Average Injection Pressure 3700 PSIG
Date Stimulated 9-9-94

*M.HORSEPEN, C-SEAM, WARCREEK, UNNAMED "C", BECKLEY, L.HORSEPEN, POCO#2

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 X After Stimulation
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED
Zone (1) _____
Zone (2) _____
Zone (3) _____
Final Production if Gas Zones are Commingled 13 MCFD 6 Hours Tested 380 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. Dwyer (Signature)

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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP3046 in the Ervington District of the Dickenson County, Virginia on 4th day, October month, 19 94.

LOCATION

County: Dickenson District: Ervington
Surface Elevation: 2278.14' Elevation of Kelly Bushing: 2288.14' quadrangle: Nora
6240 FT. S. of Latitude 37°05'00" and 940 FT. W. of Longitude 82°17'00"

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

DRILLING DATA

Date Drilling Commenced: 8-31-94 Drilling Contractor: Union Drilling
Date Drilling Completed: 9-4-94 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD=2729 DTD=2736

GEOLOGICAL DATA

Fresh Water at:	<u>160</u> Feet	<u>2 1/2"</u> stream	<u> </u> Feet	<u> </u> GPM
	<u>1895</u> Feet	<u>Damp</u>	<u> </u> Feet	<u> </u> GPM
Salt Water at:	<u> </u> Feet	<u> </u>	<u> </u> Feet	<u> </u> GPM
	<u> </u> Feet	<u> </u>	<u> </u> Feet	<u> </u> GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
Warcreek	1870	1872	2			
Beckley	1908	1910	2			
L. Horsepen	1970	1972	2			
Poco #2	2549	2551	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: SLD/TEMP/GR

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
200	1/2°	1540	3/4°
400	3/4°	1740	1/2°
600	3/4°	1876	1/2°
674	1/2°	2076	1/4°
874	3/4°	2276	3/4°
1074	3/4°	2374	3/4°
1095	3/4°	2503	1/2°
1295	3/4°	2552	1/2°
1495	3/4°	2586	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>	13 3/8"		42'	32'			
<u>Surface</u>							
<u>Water Protection</u>	8 5/8"		317'	307'	130(153)	8-31-94	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2700' 2610.75'	2690'	600(774)	9-4-94	

Liners

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

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DRILLER'S LOG

Compiled by Engineering

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
Pennsylvanian	Sand, Shale & Thin Coals			0	1870	1870	
	Warcreek Coal			1870	1872	2	
	Sand, Shale & Thin Coals			1872	1908	36	
	Beckley Coal			1908	1910	2	
	Sand, Shale & Thin Coals			1910	1970	60	
	Lower Horsepen Coal			1970	1972	2	
	Sand, Shale & Thin Coals			1972	2549	577	
	Poco #2 Coal			2549	2551	2	
	Sand, Shale & Thin Coals			2551	2693	142	
Mississippian	Red Rock & Shale			2693	2729	36	
Logger's Total Depth					2729		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

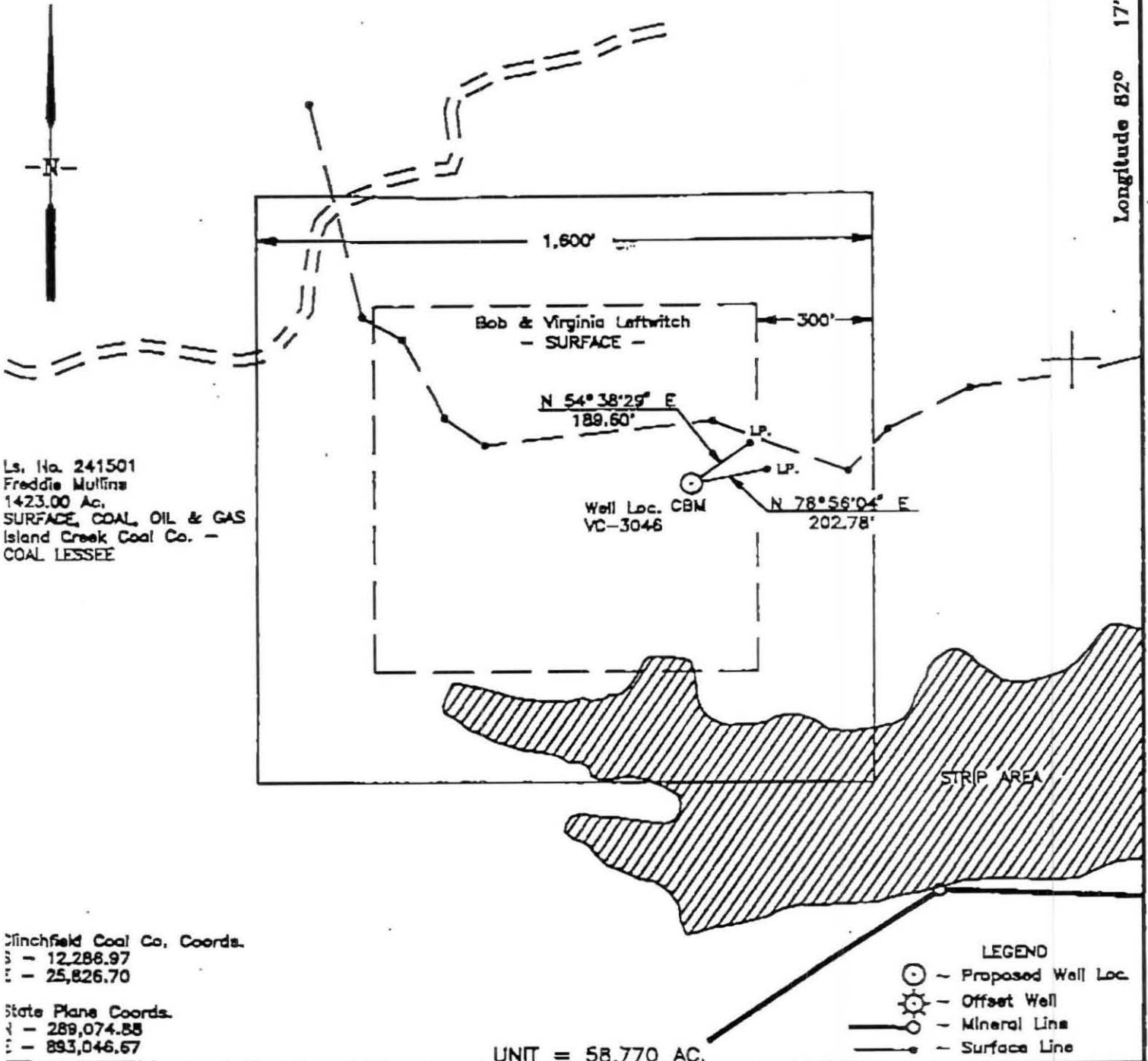
By: Joseph A. Avery (Signature)

Elevation determined by
trigonometric leveling from
Hatchet Monument.

Latitude 37° 05' 00" 00"

Longitude 82° 17' 00"

6,240'



Ls. No. 241501
Freddie Mullins
1423.00 Ac.
SURFACE, COAL, OIL & GAS
Island Creek Coal Co. -
COAL LESSEE

Winchfield Coal Co. Coords.
N - 12,286.97
E - 25,826.70

State Plane Coords.
N - 289,074.88
E - 893,046.67

UNIT = 58.770 AC.

- LEGEND
- - Proposed Well Loc.
 - ⊙ - Offset Well
 - - Mineral Line
 - - Surface Line

WELL LOCATION PLAT

DWG. # 3286

Company Equitable Resources Exploration Well Name and Number VC-3046

Tract No. Ls. No. 241501 Elevation 2278.14 Quadrangle Nora

County Dickenson District Erwinton Scale 1" = 400' Date 06-17-94

This plat is a new plat X; an updated plat for 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.

AB Baldry

CERTIFICATE NO.
6992

(Affix Seal)

Licensed Professional Engineer or Licensed Land Surveyor