G.M. BLAIR TR. VCP2599 Operations Name: Permit #: 2106

# Department of Mines, Minerals and Energy

Division of Gas and Oil

P. O. Box 1416
Abingdon, Virginia 24210
707/476-5/23
103/010-3423
To MAD
P. O. Box 1416 Abingdon, Virginia 24210 703/676-5423  COMPLETION REPORT  WELL TYPE: Oil Gas Coalbed Methane X or Injection well
WELL TYPE: Oil Gas Coalbed Methane X or Injection well
Date Well Completed: 12-10-92 Total Depth of Well: LTD=2536 DTD=2550
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.
CTIVILI ATTOM DECORD
STIMULATION RECORD
Zone 1: COAL SEAMS* Formation Stimulated With: 70 Q FOAM/LE
W/17000# 12/20 SAND - 1010900 SCF N2 - 770 BF
Perforated: 1731 TO 2275 No. of Perforations: 12 Perforation Size: .37"
Formation Broke Down at: 1420 PSIG Average Injection Rate: 16.5 BPM
ISIP $2150$ PSIG $5$ MIN SIP $1850$ PSIG Average Injection Pressure $3725$ PSIG
Date Stimulated $12-10-92$
*M. HORSEPEN, C-SEAM, WARCREEK, BECKLEY, L. HORSEPEN, POCO#9, POCO#7, POCO#6, POCO#5  Zone 2: Formation Stimulated With:
Perforated: TO No. of Perforations: Perforation Size:
Formation Broke Down at: PSIG Average Injection Rate:
ISIPPSIGMIN SIPPSIG Average Injection PressurePSIG
Date Stimulated
Zone 3: Formation Stimulated With:
Perforated: TO No. of Perforations: Perforation Size:
Formation Broke Down at: PSIG Average Injection Rate:
ISIPPSIGMIN SIPPSIG Average Injection PressurePSIG
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 70 MCFD 6 Hours Tested 73 PSIG 48 Hours Tested
Final Production it das zones are committingled
* Use additional sheets with this format, if more than three (3) zones were stimulated.
Permittee: _EQUITABLE RESOURCES EXPLORATION (Company)
By: Joseph ( Imm (Signature)
Form DGO-GO-15

Rev. 9/91

Operations	Name:	G.M.	BLAIR	TR.	VCP2599	
		Perm	nit #:	21	06	

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

### DRILLING REPORT

Pursuant to VR-480-05-22.	1, § 1.36, the und	ersigned Permitt	ee submits this re	eport on Well V	CP2599 in the
ERVINTON					
Control of the Contro	, 19_93.				
LOCATION					
1					
County:DICKENSON		Distric	t: ERVINTON		
Surface Elevation: 2306					
9780 FT. s.	of Latitude 37	° 07' 30" ar	nd 12480 FT.	. W. of Longitude	82° 17' 30"
Attach a final location p	lat as required b	y VR 480-05-22.1	, § 1.36.		
DRILLING DATA					
Date Drilling Commenced:	11-25-92		Drilling Contrac	tor:UNIO	N DRILLING
Date Drilling Completed:	12-1-92			Rotary Cable	
Total Depth of Well:	LTD=2536	DTD=2550	•		
GEOLOGICAL DATA					
Fresh Water at: 250	FeetDAMP	GRM	300 Feet _	DAMP GP	4
1314	Feet DAMP	GPM	Feet	GP1	1
Salt Water at:	Feet	GPM	Feet	GPN	1
	Feet	GPM	Feet	GP!	1
COAL SEAMS:				MIN	NING IN AREA
NAME	TOP	BOTTOM	THICKNESS	YES	NO MINED OUT
M. HORSEPEN	1731	1733	2		
WARCREEK	1838	1840	2		
POCO #6	2255	2257	2		
POCO #5	2274	2276	2		
GAS AND OIL SHOWS: NONE	REPORTED				
FORMATION TOP		THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED

Form DGO-GO-14

Operations Name: G.M. BLAIR TR. VCP2599

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Cuttings or samples are \_\_ are not  $\underline{X}$  available for examination by a member of the Virginia Division of Mineral Resources Cuttings or samples have \_\_ have not  $\underline{X}$  been furnished to the Virginia Division of Mineral Resources

#### ELECTRIC LOGS AND SURVEYS

SURVEY RESULTS

1631

List logs run on wellbore: \_\_\_SLD/TEMP/GR

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

DEPTH	DIRECTION/DISTANCE/DEGREES
OF SURVEY	FROM TRUE VERTICAL
205	1/2°
447	3/4°
664	1/2°
852	1°
1060	1°

1/4°

FROM TRUE VERTICAL
3/4°
2 1/2°
2 3/4°
2°
2 1/2°
2 1/2°

#### CASING AND TUBING

	SIZE	TOP	BOTTOM	LENGTH	CEMENT USED	DATE CEMENTED	PACKERS KIND	OR BRID	GE PLUGS SET: AT
Conductor	13 3/8"		41'	31'					
Surface	8 5/8"		325 '	315'	125(148)	11-28-92			
Water Protection  Coal Protection	4 1/2"		2422*	2412'	517(667)	12-1-92			
Other Casing and Tubing Left in Well	2 3/8"		2314						

#### Liners

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

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DRILLER'S LOG

Compiled by \_\_\_\_ENGINEERING

GEOLOGIC	GENERAL		DEPT	ГН		
AGE	FORMATION LITHOLOGY	COLOR	TOP	BOTTOM	THICKNESS	REMARKS
ENNSYLVANIAN	SAND, SHALE & THIN	COALS	0	1731	1731	
1	MIDDLE HORSEPEN COAL	L	1731	1733	2	
\	SAND, SHALE & THIN	COALS	1733	1838	105	
\	WARCREEK COAL		1838	1840	2	
	SAND, SHALE & THIN	COALS	1840	2255	415	
1	POCO #6 COAL		2255	2257	2	
	SAND, SHALE & THIN	COALS	2257	2274	17	
	POCO #5 COAL		2274	2276	2	
$\checkmark$	SAND, SHALE & THIN	COALS	2276	2530	254	
ISSISSIPPIAN	RED ROCK		2530	2536	6	
	LOGGER'S TOTAL DEPTH	H		2536		κ.

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

(Signature)

Form DGO-GO-14 Rev. 9/91

