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

Operations Name: VICC (S.B. Robinette) VC 2990
Permit #: 2525

WS-407

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



COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 6-29-94 Total Depth of Well: LTD=2854' BTD=2867'

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/18,800# 12/20 sand - 975,200 SCF N₂ - 2739 BF
Perforated: 1880.5 TO 2596.5 No. of Perforations: 16 Perforation Size: .34"
Formation Broke Down at: 1506 PSIG Average Injection Rate: 10.1 BPM (34 DH)
ISIP 1750 PSIG 5 MIN SIP 1666 PSIG Average Injection Pressure 3600 PSIG
Date Stimulated 6-29-94

*Unnamed "B", U. Horsepen, M. Horsepen, Warcreek, L. Horsepen, 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 28 MCFD 6 Hours Tested 429 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 U. Amy* (Signature)

Department of Mines, Minerals and Energy
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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VC 2990 in the Lipps District of the Wise County, Virginia on 28th day, July month, 19 94.

LOCATION

County: Wise District: Lipps
Surface Elevation: 2655.23' Elevation of Kelly Bushing: 2665.0' Quadrangle: Coeburn
12700 FT. S. of Latitude 37°00'00" and 1150 FT. W. of Longitude 82°25'00"

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

DRILLING DATA

Date Drilling Commenced: 6-4-94 Drilling Contractor: Union Drilling
Date Drilling Completed: 6-8-94 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD=2854 DTD=2867

GEOLOGICAL DATA

Fresh Water at: 322 Feet Damp 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
Kennedy	796	802	6			
Aily	953	955	2			
Raven	1059	1061	2			
Jawbone (Split)	1192	1194	2			
War creek (Split)	2060	2071	11			
L. Horseshoe	2165	2167	2			
Poco #4	2594	2597	3			

AS 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: LDT/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
200	3/4°	1626	1/2°
363	1/2°	1857	1/2°
426	1/2°	2046	3/4°
626	1/2°	2170	3/4°
826	1/2°	2370	3/4°
1026	3/4°	2570	1/2°
1226	1/2°	2773	1/2°
1426	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"		22'				
<u>Surface</u>	8 5/8"		493'	483'	175(207)	6-5-94	
<u>Water Protection</u>							
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2"		2748'	2738'	615(794)	6-9-94	
	2 3/8"		2645.70'				

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



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DRILLER'S LOG

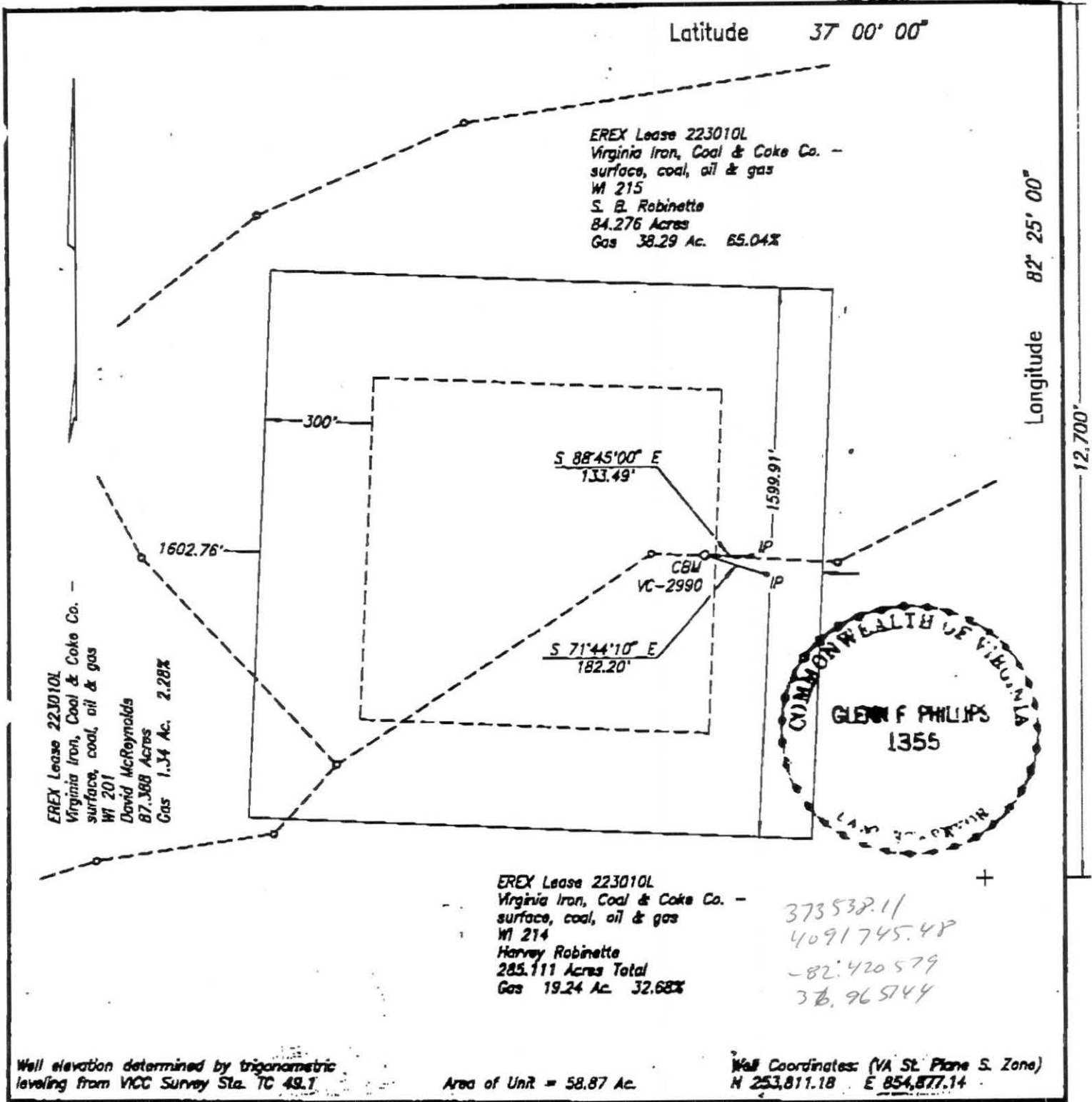
Compiled by Engineering

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
Mississippian	Sand, Shale & Thin Coals			0	796	796	
				796	802	6	
				802	953	151	
				953	955	2	
				955	1059	104	
				1059	1061	2	
				1061	1192	131	
				1192	1194	2	
				1194	2060	866	
				2060	2071	11	
				2071	2165	94	
				2165	2167	2	
				2167	2594	427	
				2594	2597	3	
				2597	2837	240	
2837	2854	17					
Logger's Total Depth				2854			

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Quinny (Signature)

1,150'



WELL LOCATION PLAT

COMPANY Equitable Resources Exploration WELL NAME AND NUMBER VC-2990
 TRACT NO. 223010L / WI 215 ELEVATION 2655.23 QUADRANGLE Coeburn
 COUNTY Wise DISTRICT Lips SCALE 1" = 400' DATE 6-15-1993

This Plat is a new plat ; 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.

Glenn F. Phillips
 Licensed Professional Engineer or Licensed Land Surveyor