

REVISED

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

Operations Name: VICC (Harvey Robinette) V2375  
Permit #: 2524

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: 6-28-94 Total Depth of Well: LTD=6102, DTD=6097

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: Berea Formation Stimulated With: 75 Q Foam  
w/ 63000# 20/40 sand - 824000 SCF N<sub>2</sub> - 1810 BF  
Perforated: 5839 TO 5946 No. of Perforations: 22 Perforation Size: .34"  
Formation Broke Down at: Hydrostatic PSIG Average Injection Rate: 16.9 BPM (55 DH)  
ISIP 1580 PSIG 3 MIN SIP 1396 PSIG Average Injection Pressure 2871 PSIG  
Date Stimulated 6-28-94

Zone 2: Big Lime Formation Stimulated With: 50 Q Foamed Acid  
w/ 4500 gal 28Z acid - 282800 SCF N<sub>2</sub> - 735 BF  
Perforated: 5145 TO 5272 No. of Perforations: 12 Perforation Size: .34"  
Formation Broke Down at: 833 PSIG Average Injection Rate: 10 BPM (20 DH)  
ISIP 1060 PSIG 1 MIN SIP 948 PSIG Average Injection Pressure 1520 PSIG  
Date Stimulated 6-28-94

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		ROCK PRESSURE	HOURS TESTED
	BOD	MCFD	HOURS TESTED	ROCK PRESSURE		
Zone (1) <u>Berea</u>		<u>425</u>	<u>6</u>	<u>620</u>	<u>48</u>	
Zone (2) <u>Big Lime</u>		<u>336</u>	<u>6</u>	<u>690</u>	<u>48</u>	
Zone (3)						
Final Production if Gas Zones are Commingled		MCFD	Hours Tested	PSIG	Hours Tested	

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Swan Q Foster (Signature)

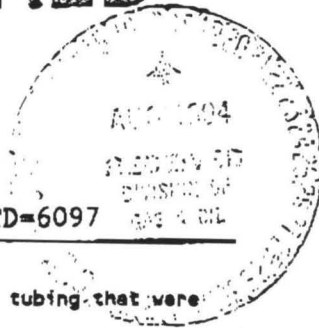
Log - 9-28-94 1:5-40

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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 <input type="checkbox"/> After Stimulation <input checked="" type="checkbox"/>		HOURS TESTED	ROCK PRESSURE	HOURS TESTED
	BOD	MCFD			
Zone (1) <u>Berea</u>	(Not Tested)				
Zone (2) <u>Big Lime</u>		<u>336</u>	<u>6</u>	<u>690</u>	<u>48</u>
Zone (3)					
Final Production if Gas Zones are Commingled		MCFD	Hours Tested	PSIG	Hours Tested

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

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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well V2375 in the  
Lipps District of the Wise County, Virginia on 12th day,  
August month, 19 94.

LOCATION

County: Wise District: Lipps  
Surface Elevation: 2730.29 Elevation of Kelly Bushing: 2740.29 Quadrangle: Coeburn  
12060 FT. S. of Latitude 37°00'00" and 11540 FT. W. of Longitude 82°22'30"

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

DRILLING DATA

Date Drilling Commenced: 6-9-94 Drilling Contractor: Union Drilling  
Date Drilling Completed: 6-20-94 Rig Type: X Rotary     cable Tool  
Total Depth of Well: LTD=6102 DTD=6097

GEOLOGICAL DATA

Fresh Water at: 137 Feet Damp GPM     Feet     GPM  
697 Feet Damp 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
	278	280	2			
	414	418	4			
	487	493	6			
	1050	1053	3			
	2276	2278	2			
	2683	2687	4			

GAS AND OIL SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
		5312		179 MCFD		
		5439		207 MCFD		
		5691/5847/5972/6097		189 MCFD		

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Cuttings or samples are X are not \_\_\_ 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: GDL/TEMP/GR

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

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
200	1°	1562	3/4°
280	1°	1762	3/4°
436	1°	1966	1/2°
685	3/4°	2156	1/2°
872	3/4°	2276	2°
1053	3/4°	2476	1/2°
1144	3/4°	2685	1 1/4°
1354	3/4°	2885	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>	16"		42'	32'					
<u>Surface</u>	11 3/4"		562'	552'	150(177)	6-11-94			
<u>Water Protection</u>	8 5/8"		2989'	2979'	570(887)	6-15-94			
<u>Coal Protection</u>									
<u>Other Casing and Tubing Left in Well</u>	4 1/2"		6091'	6081'	270(419)	6-20-94			

Liners

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

Lost circulation - open mine 487-493'

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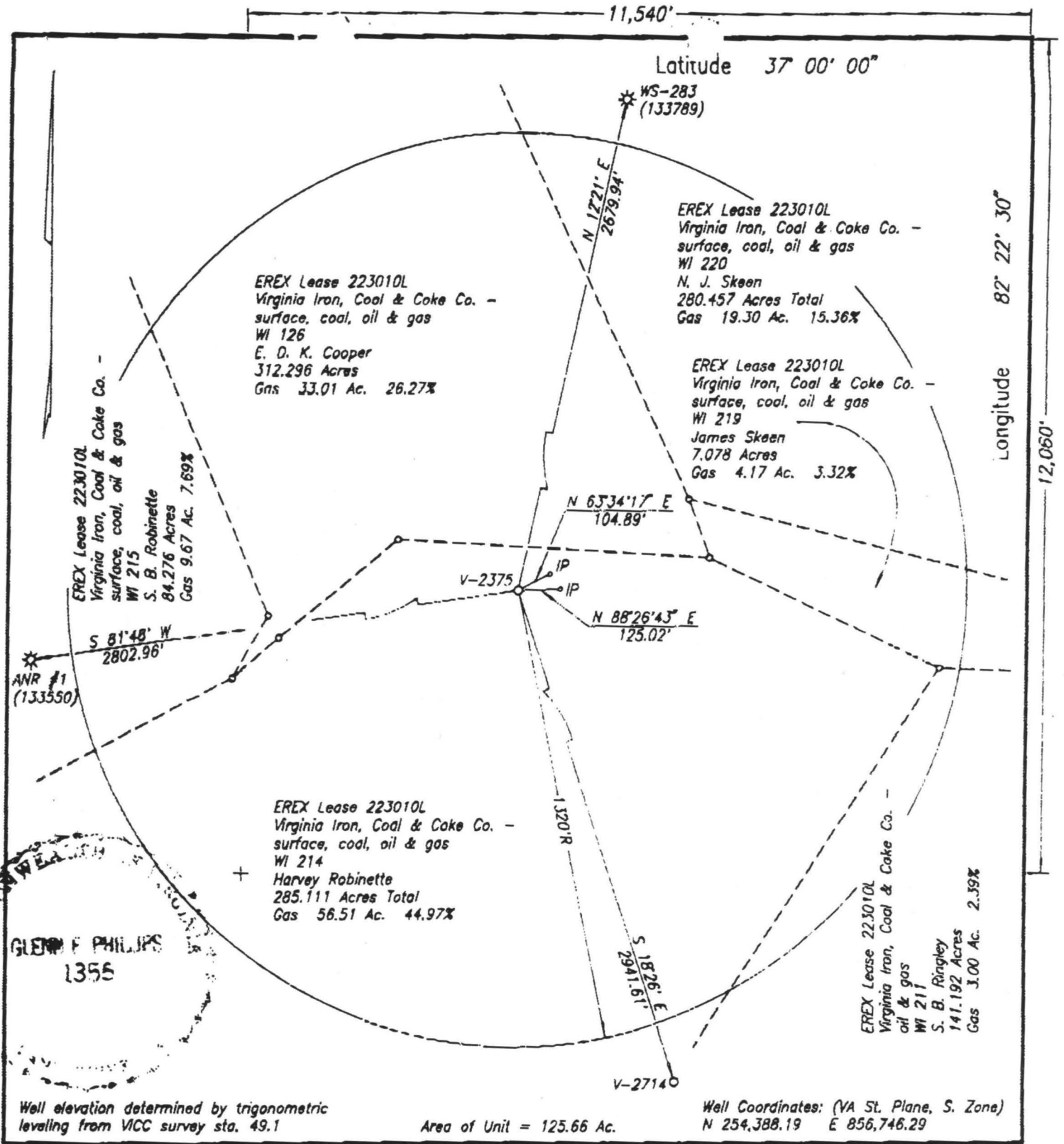
## DRILLER'S LOG

Compiled by Geology

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
Pennsylvanian	Sand & Shale			0	3472	3472	
Mississippian	Ravencliff			3472	3608	136	
	Avis			3608	3662	54	
	Sand & Shale			3662	4512	850	
	Little Lime			4512	4590	78	
	Big Lime			4590	5280	690	
	Weir			5280	5714	434	
	Coffee Shale			5714	5824	110	
	Berea			5824	5948	124	
Devonian	Shale			5948	6102	154	
	Logger's Total Depth				6102		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Susan Q. Foster (Signature)



WELL LOCATION PLAT

COMPANY Equitable Resources Exploration WELL NAME AND NUMBER V-2375  
 TRACT NO. 223010L / WI 214 ELEVATION 2730.29 QUADRANGLE Coeburn  
 COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 7-15-1993

This 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.

*Glenn F. Phillips*

Licensed Professional Engineer or Licensed Land Surveyor