

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

Operations Name: VICC VCP3167  
Permit #: 2705-01

00738

3/14/95

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 X or Injection \_\_\_ well

Date Well Completed: 12-16-94 Total Depth of Well: LTD=2724 DTD=2730

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/16500# 12/20 sand - 836500 SCF N<sub>2</sub> - 2050 BF - 700 gal 7.5% HCL acid

Perforated: 1824.5 TO 2281.5 No. of Perforations: 16 Perforation Size: .34"

Formation Broke Down at: 1550 PSIG Average Injection Rate: 16 BPM (51 DH)

ISIP 1775 PSIG 5 MIN SIP 1685 PSIG Average Injection Pressure 3731 PSIG

Date Stimulated 12-16-94

\*Unnamed "B", M. Horsepen, Warcreek, Unnamed "C", Beckley, L. Horsepen, X-Seam, Poco #9, Poco #8

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 52 MCFD 6 Hours Tested 405 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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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP3167 in the Kennedy District of the Dickenson County, Virginia on 25th day, January month, 19 95.

LOCATION

County: Dickenson District: Kennedy  
 Surface Elevation: 2443.72 Elevation of Kelly Bushing: 2453.72 Quadrangle: Caney Ridge  
14120 FT. S. of Latitude 37°05'00" and 10310 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: 12-6-94 Drilling Contractor: Union Drilling  
 Date Drilling Completed: 12-9-94 Rig Type:  Rotary  Cable Tool  
 Total Depth of Well: LTD=2724 DTD=2730

GEOLOGICAL DATA

Fresh Water at:	_____ Feet	_____ 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
L. Horsepen	2120	2122	2			
X-Seam	2190	2192	2			
Poco #4	2479	2481	2			
Poco #1	2631	2635	4			

GAS AND OIL SHOWS: None Reported

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

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: GR/SLD/TLT

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°	1618	1/2°
400	3/4°	1818	1/2°
484	3/4°	1878	1/2°
618	3/4°	1997	1/2°
818	1/2°	2197	1/2°
1018	1/4°	2397	1/2°
1218	1/2°	2580	3/4°
1418	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"		37'	27'			
<u>Surface</u>							
<u>Water Protection</u>	8 5/8"		320'	310'	115(136)	12-6-94	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2712' 2376.95'	2702'	575(742)	12-9-94	

Liners

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

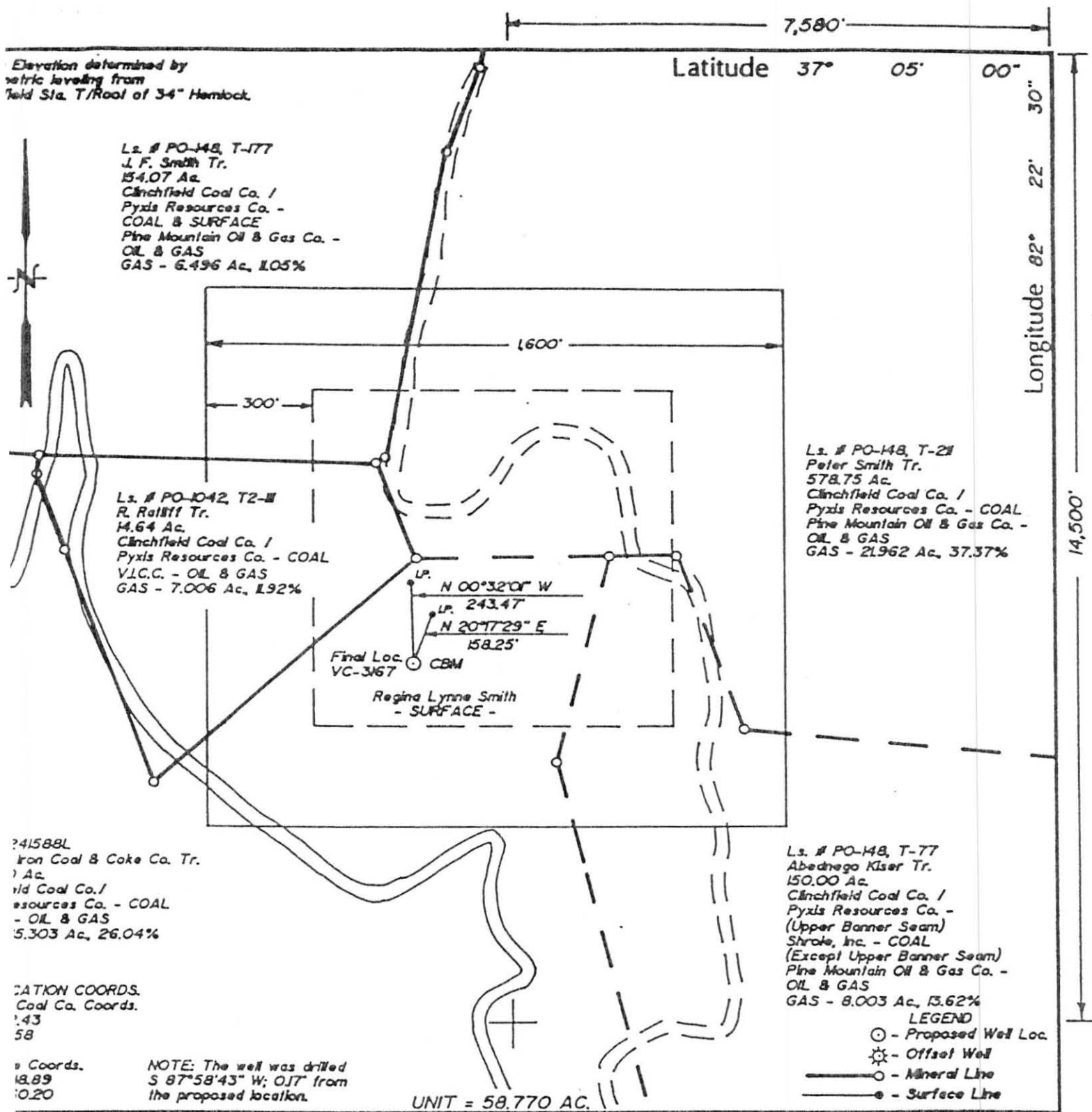
DRILLER'S LOG

Compiled by Engineering

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
Pennsylvanian	Sand, Shale & Thin Coals			0	2120	2120	
	Lower Horsepen Coal			2120	2122	2	
	Sand, Shale & Thin Coals			2122	2190	68	
	X-Seam Coal			2190	2192	2	
	Sand, Shale & Thin Coals			2192	2479	287	
	Poco #4 Coal			2479	2481	2	
	Sand, Shale & Thin Coals			2481	2631	150	
	Poco #1 Coal			2631	2635	4	
	Sand, Shale & Thin Coals			2635	2724	89	
	Logger's Total Depth				2724		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Army (Signature)



WELL LOCATION PLAT

Company Equitable Resources Exploration Well Name and Number VC-3167  
 Location Ls. # 241588L Elevation 2443.03 Quadrangle Caney Ridge  
 District Dickenson District Kenady Scale: 1"=400' Date 12-06-94

This is a new plat \_\_\_\_\_; an updated plat \_\_\_\_\_ or a final location plat X;  
 The symbol 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.

*Sh. Baldridge*  
 Licensed Professional Engineer



(Affix Seal)