

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

Operations Name: J L SMITH  
Permit #: 3201

Well #: VCP3597  
VA File #: DI-0822

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: 5/6/97 Total Depth of Well: LTD - 2841 DTD - 2835

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: 70Q FOAM W/  
37000# 12/20 SAND - 840000 SCF N2 - 617 BF

Perforated:	<u>1889</u>	to:	<u>2183.5</u>	No. of Perforations:	<u>12</u>	Size:	<u>0.34"</u>
Formation Broke Down at:	<u>1593</u>	PSIG		Average Injection Rate:	<u>18.5 (55)</u>	BPM	
ISIP:	<u>1648</u>	PSIG	5 Min SIP: <u>1584</u>	PSIG Average Injection Pressure	<u>3640</u>		
Date Stimulated:	<u>5/6/97</u>						

\*U HORSEPEN, C-SEAM, WARCREEK, UNNAMED "C", BECKLEY, L HORSEPEN, X-SEAM

Zone 2: \_\_\_\_\_ Formation Stimulated With: \_\_\_\_\_

Perforated:	_____	to:	_____	No. of Perforations:	_____	Size:	_____
Formation Broke Down at:	_____	PSIG		Average Injection Rate:	_____		
ISIP:	_____	PSIG	5 Min SIP: _____	PSIG Average Injection Pressure	_____		
Date Stimulated:	_____						

Zone 3: \_\_\_\_\_ Formation Stimulated With: \_\_\_\_\_

Perforated:	_____	to:	_____	No. of Perforations:	_____	Size:	_____
Formation Broke Down at:	_____	PSIG		Average Injection Rate:	_____		
ISIP:	_____	PSIG	5 Min SIP: _____	PSIG Average Injection Pressure	_____		
Date Stimulated:	_____						

FINAL PRODUCTION:	<u>BOD</u>	<u>Natural MCFD</u>	<u>X HOURS TESTED</u>	<u>After Stimulation ROCK PRESSURE</u>	<u>HOURS TESTED</u>
Zone (1)					
Zone (2)					
Zone (3)					
Final Production if Gas Zones are Commingled	<u>46</u>	<u>MCFD</u>	<u>6</u>	<u>Hours Tested</u>	<u>295</u> <u>PSIG</u> <u>48</u> <u>Hours Tested</u>

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

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (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 VCP3597 in the  
KENADY District of the DICKENSON County, Virginia on 17<sup>TH</sup> day,  
JULY month, 1997.

LOCATION

County: DICKENSON District: KENADY  
Surface Elevation: 2550.8 Elev of Kelly Bushing: 2560.8 Quadrangle: CANEY RIDGE  
7050 Ft. S of Latitude 37 02 30 and 10090 Ft. W of Longitude 82 25 00

DRILLING DATA

Date Drilling Commenced: 4/27/97 Drilling Contractor: UNION DRILLING  
Date Drilling Completed: 5/5/97 Rig Type: X Rotary        Cable Tool  
Total Depth of Well: LTD - 2841 DTD - 2835

GEOLOGICAL DATA

Fresh Water at:	400	feet	DAMP	GPM	feet	GPM
		feet		GPM	feet	GPM
		feet		GPM	feet	GPM
Salt Water at:		feet		GPM	feet	GPM
		feet		GPM	feet	GPM
		feet		GPM	feet	GPM

**COAL SEAMS:**

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
WARCREEK	2042	2044	2			
UNNAMED "C"	2066	2068	2			
BECKLEY	2073	2075	2			
L HORSEPEN	2126	2128	2			
X-SEAM	2182	2184	2			
POCO #7	2387	2390	3			
POCO #2	2622	2625	3			

**GAS AND OIL SHOWS:**

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>IPF (MCFD/BOPD)</u>	<u>PRESSURE</u>	<u>HOURS TESTED</u>
		<u>1837/2032/2422/2841</u>		<u>ODOR</u>		

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Cuttings or samples are 

are not
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 available for examination by a member of the Virginia Division of Mineral Resources  
Cuttings or samples have 

have not
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 been furnished to the Virginia Division of Mineral Resources

ELECTRIC LOGS AND SURVEYS

List logs run on wellbore: GR/ DEN/TMP

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

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
200	1/2°	1800	1°
400	1/2°	2000	1°
465	1/2°	2036	1°
600	1°	2200	3/4°
800	1°	2383	3/4°
1000	1°	2400	3/4°
1200	1°	2484	1°
1400	1°	2591	1°
1600	1°	2615	1°

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>									
<u>Surface</u>	13 3/8		27	17	GROUTED	4/28/97			
<u>Water Protection</u>	8 5/8		537	527	190(224)	4/28/97			
<u>Coal Protection</u>									
<u>Other Casing and Tubing Left in Well</u>	4 1/2		2798	2788	615(793)	5/1/97			
	2 3/8		2349.7						

Liners

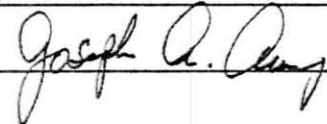
REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.

DRILLER'S LOG

Compiled by: ENGINEERING

AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENN	SAND, SHALE & THIN COALS	WARCREEK		0	2042	2042	
				2042	2044	2	
	SAND, SHALE & THIN COALS	UNNAMED "C"		2044	2066	22	
				2066	2068	2	
	SAND, SHALE & THIN COALS	BECKLEY		2068	2073	5	
				2073	2075	2	
	SAND, SHALE & ;THIN COALS	L HORSEPEN		2075	2126	51	
				2126	2128	2	
	SAND, SHALE & THIN COALS	X-SEAM		2128	2182	54	
				2182	2184	2	
	SAND, SHALE & THIN COALS			2184	2387	203	
				2387	2390	3	
	SAND, SHALE & THIN COALS			2390	2622	232	
				2622	2625	3	
	SAND, SHALE & ;THIN COALS			2625	2841	216	
	LOGGER'S TOTAL DEPTH				2841		

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

By:  (Signature)

10,090'

Latitude 37° 02' 30"

Longitude 82° 25' 00"

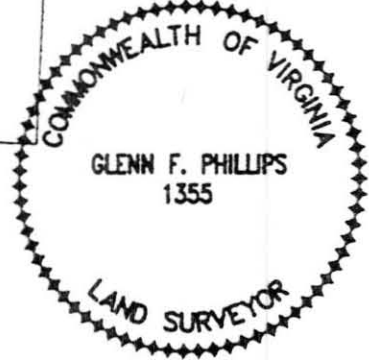
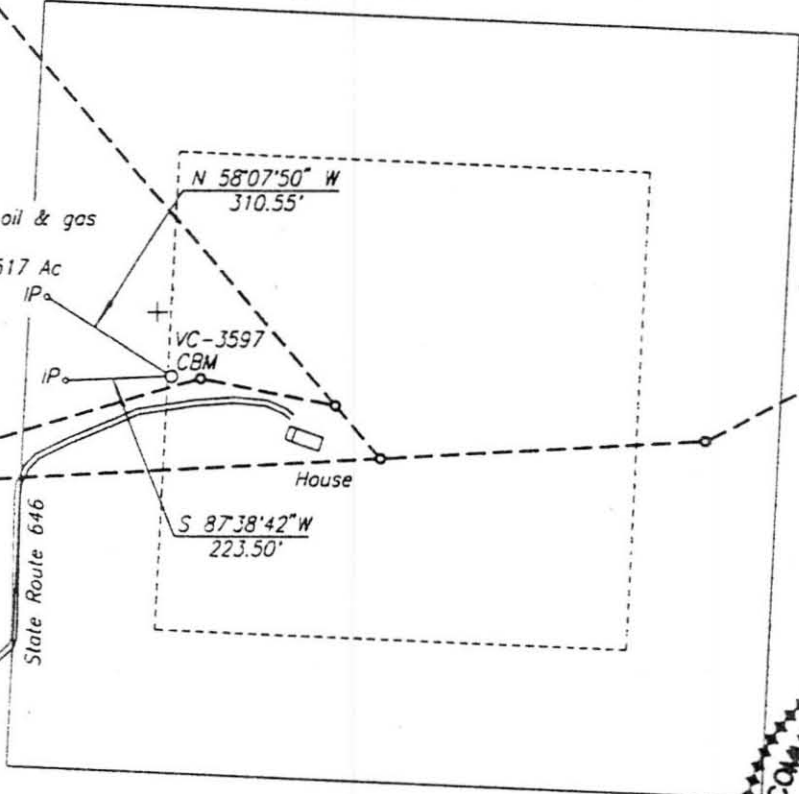
7,050'

Lease No. PO-148 / T-624  
 W. H. Aston  
 213 Acres  
 Clinchfield Coal Company /  
 Pyxis Resources Company - coal  
 Pine Mountain Oil & Gas, Inc. -  
 oil & gas  
 Gas 25.99 Ac. 44.19%

EREX Lease No. 244831  
 Johnny L. Smith - surf., oil & gas  
 27 Acres  
 VICC - coal D-5 / 316.517 Ac  
 Lease No. 244943L-01  
 Gas 5.21 Ac. 8.86%

EREX Lease No. 244895  
 McKinley & Mary Jane Stanley -  
 surface, oil & gas  
 2.65 Acres of the 15.56 Acre Tract  
 VICC - coal D-5 / 316.517 Ac.  
 Lease No. 244943L-01  
 Gas 2.36 Ac. 4.01%

Lease No. PO-1042 / T2-115  
 Henry Adkins  
 178.70 Acres  
 Clinchfield Coal Company /  
 Pyxis Resources Company - coal  
 Pine Mountain Oil & Gas, Inc. - oil & gas  
 Gas 25.26 Ac. 42.94%



Well elevation determined by GPS survey  
 from VICC survey pt. 202-4-3

Area of Unit = 58.82 Ac.

Well Coordinates: (VA St. Plane S. Zone)  
 N 274,980.77 E 846,779.38

WELL LOCATION PLAT

COMPANY Equitable Resources Energy Company WELL NAME AND NUMBER VC-3597  
 TRACT NO. LS. No. 244831 ELEVATION 2550.83 QUADRANGLE Caney Ridge  
 COUNTY Dickenson DISTRICT Kenady SCALE 1" = 400' DATE 8-27-1996

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