

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

Operations Name: J S ROSE
Permit #: 3205

Well #: VCP3593
VA File #: DI-0825

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: 6/16/97 Total Depth of Well: LTD - 2716 DTD - 2720

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: 75Q FOAM W/
32600# 12/20 SAND - 647000 SCF N2 - 572 BF

Perforated:	<u>1864</u>	to:	<u>2290</u>	No. of Perforations:	<u>11</u>	Size:	<u>0.34"</u>
Formation Broke Down at:	<u>1803</u>	PSIG		Average Injection Rate:	<u>12.6 (42)</u>	BPM	
ISIP:	<u>1532</u>	PSIG 5 Min SIP:	<u>1506</u>	PSIG Average Injection Pressure	<u>2950</u>		
Date Stimulated:	<u>6/16/97</u>						

* WARCREEK, UNNAMED "C", BECKLEY, L HORSEPEN, X-SEAM, POCO #8, POCO #5 RIDER

Zone 1: _____ 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:	_____	Natural	_____	X	_____	After Stimulation	_____
		<u>BOD</u>	<u>MCFD</u>	<u>HOURS TESTED</u>		<u>ROCK PRESSURE</u>	<u>HOURS TESTED</u>
Zone (1)							
Zone (2)							
Zone (3)							
Final Production if Gas							
Zones are Commingled	<u>35</u>	MCFD	<u>6</u>	Hours Tested	<u>148</u>	PSIG	<u>48</u> Hours Tested

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

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)
 By: *Joseph A. Berry* (Signature)

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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP3593 in the
KENADY District of the DICKENSON County, Virginia on 4TH day,
AUGUST month, 1997.

LOCATION

County: DICKENSON District: KENADY
 Surface Elevation: 2336 Elev of Kelly Bushing: 2346 Quadrangle: CANEY RIDGE
 1990 Ft. S of Latitude 37 02 30 and 2130 Ft. W of Longitude 82 22 30

DRILLING DATA

Date Drilling Commenced: 6/1/97 Drilling Contractor: UNION DRILLING
 Date Drilling Completed: 6/4/97 Rig Type: X Rotary Cable Tool
 Total Depth of Well: LTD - 2716 DTD - 2720

GEOLOGICAL DATA

Fresh Water at:	2010	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:

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>MINING IN AREA</u>		
				<u>YES</u>	<u>NO</u>	<u>MINED OUT</u>
KENNEDY	714	718	4			
RAVEN	913	917	4			
JAWBONE	1064	1069	5			
BECKLEY	1941	1943	2			
X-SEAM	2061	2063	2			
POCO #5 RIDER	2387	2390	3			
POCO #3	2500	2502	2			
POCO #2	2530	2534	4			

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>
		2720		ODOR		

Cuttings or samples are are not available for examination by a member of the Virginia Division of Mineral Resources
 Cuttings or samples have have not 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	1/4°	1600	1°
247	1/4°	1745	1°
400	1/2°	1853	3/4°
600	1/2°	1912	3/4°
800	3/4°	1987	1°
1000	3/4°	2000	1°
1065	3/4°	2200	1 1/4°
1200	3/4°	2337	1 1/4°
1400	3/4°	2496	1 1/4°
1541	3/4°	2529	1 1/4°

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>	11 3/4		32	22	GROUTED		
<u>Surface</u>							
<u>Water Protection</u>							
	8 5/8		393	383	112(132)	6/2/97	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2		2678	2668	580(748)	6/4/97	
	2 3/8		2444.55				

Liners

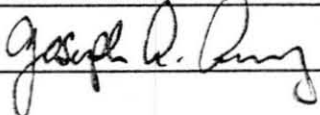
REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.

DRILLER'S LOG

Compiled by: ENGINEERING

AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENN	SAND, SHALE & THIN COALS			0	714	714	
	KENNEDY			714	718	4	
	SAND, SHALE & THIN COALS			718	913	195	
	RAVEN			913	917	4	
	SAND, SHALE & THIN COALS			917	1064	147	
	JAWBONE			1064	1069	5	
	SAND, SHALE & ;THIN COALS			1069	1941	872	
	BECKLEY			1941	1943	2	
	SAND, SHALE & THIN COALS			1943	2061	118	
	X-SEAM			2061	2063	2	
	SAND, SHALE & THIN COALS			2063	2387	324	
	POCO #5 RIDER			2387	2390	3	
	SAND, SHALE & THIN COALS			2390	2500	110	
	POCO #3			2500	2502	2	
	SAND, SHALE & THIN COALS			2502	2530	28	
	POCO #2			2530	2534	4	
SAND, SHALE & THIN COALS			2534	2716	182		
LOGGER'S TOTAL DEPTH				2716			

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

By:  (Signature)

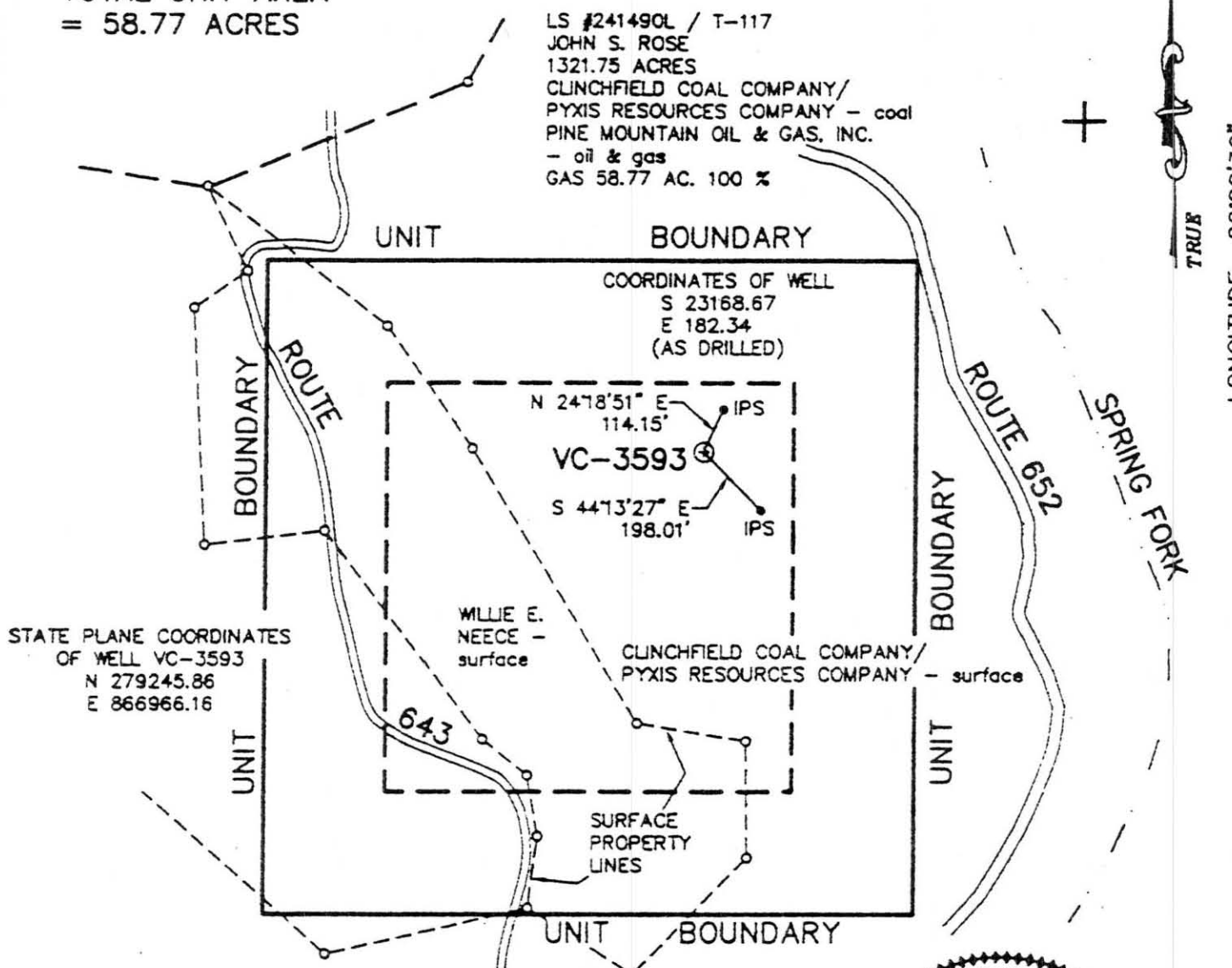
TOTAL UNIT AREA = 58.77 ACRES

LATITUDE 37°02'30"

1990

LS #241490L / T-117
JOHN S. ROSE
1321.75 ACRES
CLINCHFIELD COAL COMPANY/
PYXIS RESOURCES COMPANY - coal
PINE MOUNTAIN OIL & GAS, INC.
- oil & gas
GAS 58.77 AC. 100 %

LONGITUDE 82°22'30"



STATE PLANE COORDINATES OF WELL VC-3593
N 279245.86
E 866966.16

COORDINATES OF WELL
S 23168.67
E 182.34
(AS DRILLED)

N 24°18'51" E 114.15' IPS
VC-3593
S 44°13'27" E 198.01' IPS

WILLIE E. NEECE - surface

CLINCHFIELD COAL COMPANY / PYXIS RESOURCES COMPANY - surface

SURFACE PROPERTY LINES

NOTE !!!

WELL COORDINATES ARE BASED ON CLINCHFIELD COAL COMPANY'S MINE COORDINATE SYSTEM
STATE PLANE WELL COORDINATES ARE CALCULATED FROM CLINCHFIELD COAL COMPANY COORDINATES.
PROPERTY INFORMATION PROVIDED BY EQUITABLE RESOURCES ENERGY COMPANY.
ELEVATIONS ARE BASED ON A NAIL FOUND IN A 12"X12" FORKED WHITE OAK ±50' EAST OF WISE COUNTY'S TWIN 150,000 GALLON STORAGE TANKS ELEVATION = 2933.07



WELL LOCATION PLAT

13-G-86

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC - 3593
TRACT No. LS #241490L/T-117 ELEVATION 2339.09 (Trig) QUADRANGLE CANEY RIDGE
COUNTY DICKENSON DISTRICT KENADY SCALE: 1" = 400' DATE JUNE 3, 1997
THIS PLAT IS A NEW PLAT ; AN UPDATED PLAT ; OR A FINAL LOCATION PLAT X
PROPOSED TOTAL DEPTH OF WELL =

+ 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.

B. Lemman Kendrick 6/3/97

(AFFIX SEAL)

LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR