

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: 11-15-96 Total Depth of Well: LTD = 2582 DTD = 2625

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/ 33300# 12/20 SAND - 774000 SCF N2 - 750 BF

Perforated: 1652.5 to 2415.5 No. of Perforations: 18 Perforation size: .34  
Formation Broke Down at: 1373 PSIG Average Injection Rate: 16.9 (56) BPM  
ISIP: 1431 PSIG 5 Min SIP: 1332 PSIG Average Injection Pressure: 3813  
Date Stimulated: 11-15-96

\* U HORSEPEN, C-SEAM, WARCREEK, BECKLEY, L HORSEPEN, X-SEAM, POCO #5, POCO #3, POCO #2

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:  
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:  
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 29 MCFD 6 Hours Tested 390 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. Gray (Signature)

Department of Mines, Minerals and Energy  
 Division of Gas and Oil  
 P. O. Box 1410  
 Abingdon, Virginia 24210  
 703/676-5423

DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP3575 in the KENADY District of the DICKENSON County, Virginia on 5TH day, FEBRUARY month, 19 97.

LOCATION

County: DICKENSON District: KENADY  
 Surface Elevation: 2288.5 Elevation of Kelly Bushing: 2298.5 Quadrangle: CANEY RIDGE  
2080 FT S. of Latitude 37° 02' 30" and 4300 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: 11-05-96 Drilling Contractor: Union Drilling  
 Date Drilling Completed: 11-09-96 Rig Type:  Rotary  Cable Tool  
 Total Depth of Well: LTD=2582 DTD=2625

GEOLOGICAL DATA

Fresh Water at:	217 feet	DAMP	GPM	1119 feet	DAMP	GPM
	feet		GPM	feet		GPM
Salt Water at:	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>
M HORSEPEN	1683	1685	2			
BECKLEY	1854	1857	3			
L HORSEPEN	1914	1916	2			
POCO #7	2148	2150	2			
POCO #5	2268	2270	2			
POCO #3	2388	2390	2			
POCO #2	2413	2418	5			

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>
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Cuttings or samples are  available for examination by a member of the Virginia Division of Mineral Resources  
Cuttings or samples have  been furnished to the Virginia Division of Mineral Resources

ELECTRIC LOGS AND SURVEYS

List logs run on wellbore: DEN/TMP/GR

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
107	1/4°	1600	3/4°
158	1/4°	1800	1-1/4°
200	1/4°	1833	1-1/4°
265	1/4°	1857	1-1/4°
421	1/4°	1916	1-1/2
600	1/2°	1992	1-1/2
800	1/2°	2149	1-3/4°
1016	1/2°	2268	1-3/4°
1200	1/2°	2389	1-3/4°
1400	3/4°	2414	1-3/4°

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>							
<u>Surface</u>	11 3/4"		33'	23'			
<u>Water Protection</u>	8 5/8"		522'	512'	128(151)	11-06-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2550' 2489'	2540'	584(736)	11-10-96	

Liners

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

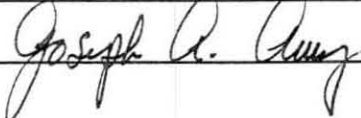
OPEN MINE @ 421-424'

DRILLER'S LOG

Compiled by Engineering

<u>AGE</u>	<u>FORMATION</u>	<u>GENERAL LITHOLOGY</u>	<u>COLOR</u>	<u>DEPTH</u>		<u>THICKNESS</u>	<u>REMARKS</u>
				<u>TOP</u>	<u>BOTTOM</u>		
Pennsylvanian	SAND, SHALE & THIN COALS			0	1683	1683	
	M HORSEPEN			1683	1685	2	
	SAND, SHALE & THIN COALS			1685	1854	169	
	BECKLEY			1854	1857	3	
	SAND, SHALE & THIN COALS			1857	1914	57	
	L HORSEPEN			1914	1916	2	
	SAND, SHALE & THIN COALS			1916	2148	232	
	POCO #7			2148	2150	2	
	SAND, SHALE & THIN COALS			2150	2268	118	
	POCO #5			2268	2270	2	
	SAND, SHALE & THIN COALS			2270	2388	118	
	POCO #3			2388	2390	2	
	SAND, SHALE & THIN COALS			2390	2413	23	
	POCO #2			2413	2418	5	
SAND, SHALE & THIN COALS			2418	2582	164		
Logger's Total Depth					2582		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

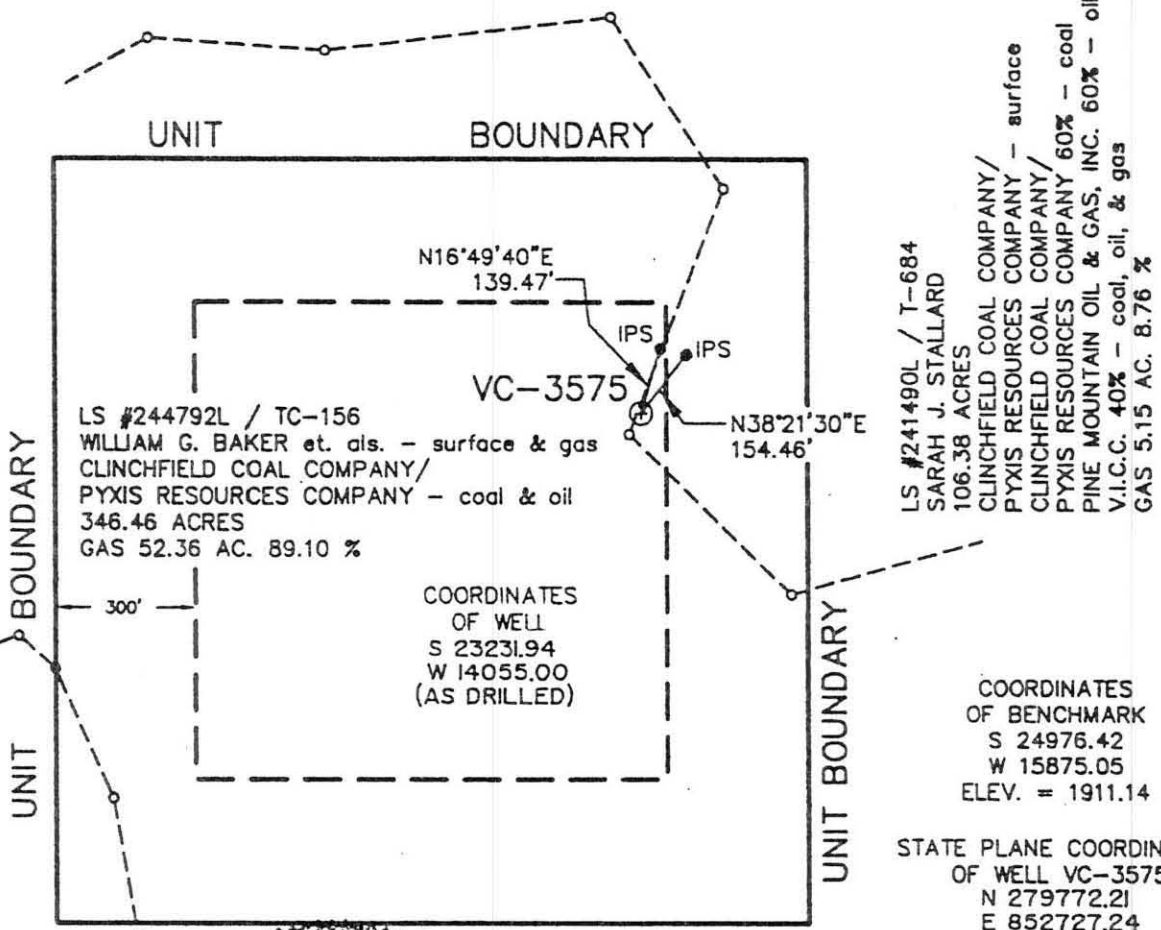
By:  (Signature)

TOTAL UNIT AREA  
= 58.77 ACRES

LATITUDE 37°02'30"

4300'

2080'



LS #244792L / TC-156  
NORMAN A. STANLEY & WIFE -  
CLINCHFIELD COAL COMPANY/  
PYXIS RESOURCES COMPANY -  
346.46 ACRES  
GAS 1.26 AC. 2.14 %



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 AN IRON PIN FOUND  
REFERENCE POINT FOR EREC WELL VC-3216.

WELL LOCATION PLAT

11-G-85

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC - 3575  
TRACT No. 241490L / T-684 ELEVATION 2285.67(Trig) QUADRANGLE CANEY RIDGE  
COUNTY DICKENSON DISTRICT KENADY SCALE: 1" = 400' DATE NOV. 6, 1996  
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 11/6/96 (AFFIX SEAL)  
LICENSED PROFESSIONAL ENGINEER OR LICENSED LAND SURVEYOR