

Department of Mines, Minerals and Energy
 Division of Gas and Oil
 P.O. Box 1416
 Abingdon, Virginia 24210
 540/676-5423

COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane X or Injection well

Date Well Completed: 8/5/97 Total Depth of Well: LTD - 2623 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/
18000# 12/20 SAND - 823,000 SCF N2 - 551 BF
 Perforated: 1905 to: 2422 No. of Perforations: 14 Size: 0.34"
 Formation Broke Down at: 2078 PSIG Average Injection Rate: 19.8 (63) BPM
 ISIP: 1593 PSIG 5 Min SIP: 1533 PSIG Average Injection Pressure 3680
 Date Stimulated: 8/5/97

* C-SEAM, UNNAMED "C", BECKLEY, L HORSEPEN, X-SEAM, POCO #5, POCO #4

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: _____

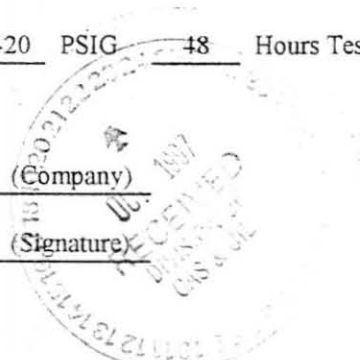
Zone 3: _____ Formation Stimulated With: _____
 Perforated: _____ to: _____ No. of Perforations: _____ Size: _____
 Formation Broke Down at: _____ PSIG Average Injection Rate: _____
 ISIP: _____ PSIG 5 Min SIP: _____ PSIG Average Injection Pressure _____
 Date Stimulated: _____

FINAL PRODUCTION: _____ 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 21 MCFD 6 Hours Tested 420 PSIG 48 Hours Tested

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

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

By: Joseph R. O'Leary (Signature)



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

Operations Name: PETER SMITH TR Well #: PC9
Permit #: 3419 VA File #: DI-0853

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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well PC9 in the
ERVINTON District of the DICKENSON County, Virginia on 10TH day,
OCTOBER month, 1997.

LOCATION

County: DICKENSON District: ERVINTON
Surface Elevation: 2400.1 Elev of Kelly Bushing: 2410.1 Quadrangle: CANEY RIDGE
10391 Ft. S of Latitude 37 05 00 and 3674 Ft. W of Longitude 82 22 30

DRILLING DATA

Date Drilling Commenced: 7/22/97 Drilling Contractor: UNION DRILLING
Date Drilling Completed: 7/26/97 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD - 2623 DTD - 2625

GEOLOGICAL DATA

Fresh Water at:	170	feet	DAMP	GPM	1488	feet	DAMP	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>
JAWBONE	1166	1168	2			
BECKLEY	1996	1998	2			
L HORSEPEN	2056	2058	2			
POCO #6	2299	2301	2			
POCO #5	2386	2388	2			
POCO #4	2420	2422	2			
POCO #1	2561	2563	2			

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>
		2625		<u>ODOR</u>		

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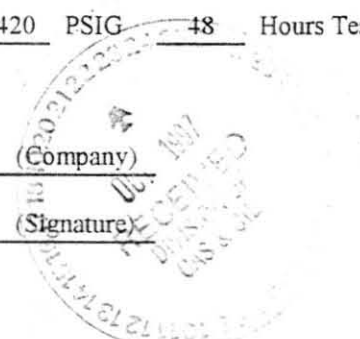
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		<u>2625</u>		<u>ODOR</u>		

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

<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>	<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>
200	1/4°	1800	3/4°
400	1/2°	1806	3/4°
600	1/2°	1988	3/4°
800	3/4°	2045	3/4°
1000	3/4°	2245	1°
1200	3/4°	2291	1°
1400	3/4°	2410	1°
1600	3/4°	2600	1°
1715	3/4°		
1774	3/4°		

CASING AND TUBING

	<u>SIZE</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>LENGTH</u>	<u>CEMENT USED IN CU/FT</u>	<u>DATE CEMENTED</u>	<u>PACKERS OR BRIDGE PLUGS</u>		
							<u>KIND</u>	<u>SIZE</u>	<u>SET AT</u>
<u>Conductor</u>	11 3/4		34	24	GROUTED				
<u>Surface</u>									
<u>Water Protection</u>	8 5/8		319	307	90(106)	7/23/97			
<u>Coal Protection</u>									
<u>Other Casing and Tubing Left in Well</u>	4 1/2 2 3/8		2591 2515.17	2581	545703)	7/26/97			

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	JAWBONE		0	1166	1166	
		SAND, SHALE & THIN COALS		1166	1168	2	
		BECKLEY		1168	1996	828	
		L HORSEPEN		1996	1998	2	
		POCO #6		1998	2056	58	
		POCO #5		2056	2058	2	
		POCO #4		2058	2299	241	
		POCO #1		2299	2301	2	
				2301	2386	85	
				2386	2388	2	
				2388	2420	32	
				2420	2422	2	
				2422	2561	139	
				2561	2563	2	
				2563	2623	60	

LOGGER'S TOTAL DEPTH 2623

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

By: *Joseph A. Almy* (Signature)

3,674'

Latitude 37° 05' 00"

NOTES:
Elevation determined by
Trigometric leveling from
CCC Monument.

Ls. # 241490L, T-211
Peter Smith Tr.
578.75 Ac.
Clinchfield Coal Co. /
Pyxis Resources Co. - Coal & Surface
Pine Mountain Oil & Gas Co. -
OIL & GAS
GAS 50.57 Ac., 86.04%

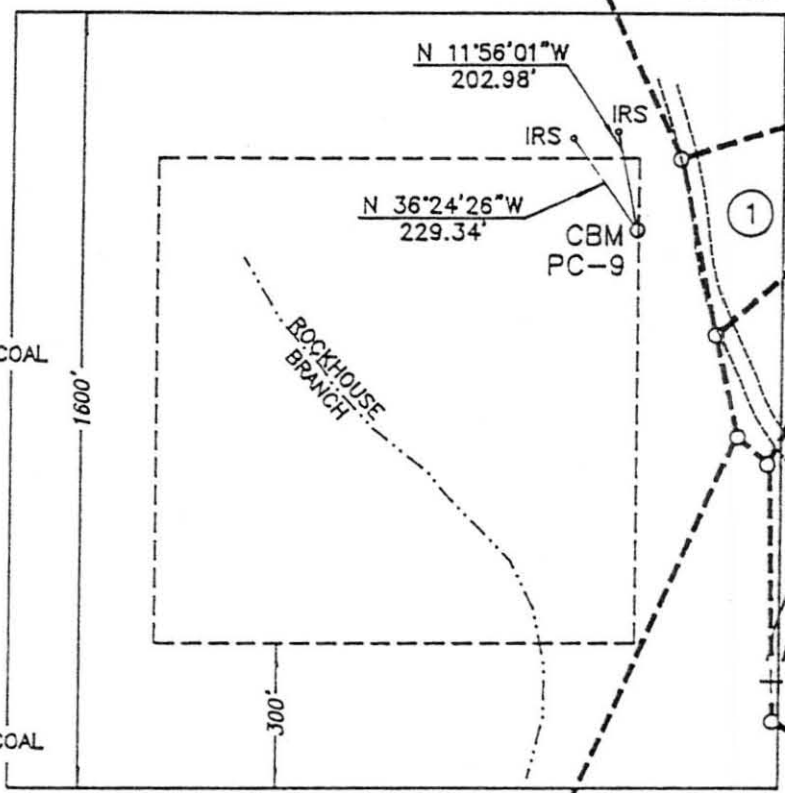
Ls. # 241579L
Loyell Yates
35.13 Ac.
Oil & Gas
Ls. #244792L, TC-154
Noah Smith
372.00 Ac.
Clinchfield Coal Co. /
Pyxis Resources Co. - COAL
GAS 1.80 Ac., 3.06%

①
Ls. # 245234L
Carl Ray Yates
1.25 Ac.
Surface, Oil & Gas
Ls. #244792L, TC-154
Noah Smith
372.00 Ac.
Clinchfield Coal Co. /
Pyxis Resources Co. - COAL
GAS 1.42 Ac., 2.41%

②
Ls. # 245232L
Jerry Childress
1.25 Ac.
Surface, Oil & Gas
Ls. #244792L, TC-154
Noah Smith
372.00 Ac.
Clinchfield Coal Co. /
Pyxis Resources Co. - COAL
GAS 0.81 Ac., 1.38%

Ls. # 241490L, T-179
C. W. Smith Tr.
231.00 Ac.
Clinchfield Coal Co. /
Pyxis Resources Co. - Coal & Surface
Pine Mountain Oil & Gas Co. -
OIL & GAS
GAS 0.27 Ac., 0.46%

Ls. # 241490L, T-173
Squire Smith Tr.
228.00 Ac.
Clinchfield Coal Co. /
Pyxis Resources Co. - Coal & Surface
Pine Mountain Oil & Gas Co.
OIL & GAS
GAS 3.91 Ac., 6.65%



Longitude 82° 22' 30"

10,691'

Well Coordinates:
(VA St. Plane S. Zone.)
N - 285,721
E - 865,845

Well Coordinats:
(Clinchfield Coal Co.)
S - 16,744.82
W - 1,203.82



Area of Unit = 58.77 Ac.

LEGEND

- CBM Proposed Well Loc.
- Mineral Line
- Surface Line

WELL LOCATION PLAT

7-G-86

COMPANY EQUITABLE RESOURCES ENERGY CO. WELL NAME AND NUMBER PC-9
TRACT NO. T-211 ELEVATION 2400.12 QUADRANGLE CANEY RIDGE
COUNTY DICKENSON DISTRICT ERVINTON SCALE 1" = 400' DATE 4-29-97

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.

Greg Mullins
Licensed Land Surveyor