

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

Operations Name: S SMITH
Permit #: 3270-01

Well #: VCP3324
VA File #: DI-0831

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

AUG 1997
RECEIVED
DIVISION OF
GAS & OIL

COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 6/16/97 Total Depth of Well: LTD - 2670 DTD - 2664

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/
40600# 12/20 SAND - 1,090,000 SCF N2
Perforated: 1867.5 to: 2311.5 No. of Perforations: 12 Size: 0.34"
Formation Broke Down at: 1071 PSIG Average Injection Rate: 6.4 (21.4) BPM
ISIP: 1581 PSIG 5 Min SIP: 1570 PSIG Average Injection Pressure 3270
Date Stimulated: 6/16/97
* WARCREEK, L HORSEPEN, POCO #9, POCO #5

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
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED
Zone (1)
Zone (2)
Zone (3)
Final Production if Gas
Zones are Commingled 19 MCFD 6 Hours Tested 440 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 B. [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 VCP3324 in the
ERVINTON District of the DICKENSON County, Virginia on 7TH day,
AUGUST month, 1997.

LOCATION

County: DICKENSON District: ERVINTON
Surface Elevation: 2328.4 Elev of Kelly Bushing: 2338.4 Quadrangle: CANEY RIDGE
7390 Ft. S of Latitude 37 05 00 and 1375 Ft. W of Longitude 82 22 30

DRILLING DATA

Date Drilling Commenced: 6/5/97 Drilling Contractor: UNION DRILLING
Date Drilling Completed: 6/8/97 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD - 2670 DTD - 2664

GEOLOGICAL DATA

Fresh Water at:	feet	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>
JAWBONE	1112	1114	2			
WARCREEK	1861	1864	3			
L HORSEPEN	1986	1988	2			
POCO #9	2061	2064	3			
POCO #5	2310	2312	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>
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Cuttings or samples are

are not
have not

 available for examination by a member of the Virginia Division of Mineral Resources
Cuttings or samples have

are not
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	1/2°	1865	1 1/4°
400	3/4°	1882	1 1/2°
600	3/4°	1983	1 1/2°
800	3/4°	2056	1 1/2°
1000	1°	2118	1 1/4°
1200	1°	2200	1 1/4°
1400	1°	2305	1°
1478	1°	2400	3/4°
1650	1°	2456	3/4°
1717	1°		

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		48	38	GROUTED				
<u>Surface</u>									
<u>Water Protection</u>									
<u>Coal Protection</u>	8 5/8		316	306	150(177)	6/6/97			
<u>Other Casing and Tubing Left in Well</u>	4 1/2		2627	2617	570(735)	6/8/97			
	2 3/8		2449.35						

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	1112	1112	
				1112	1114	2	
	SAND, SHALE & THIN COALS	WARCREEK		1114	1861	747	
				1861	1864	3	
	SAND, SHALE & THIN COALS	L HORSEPEN		1864	1986	122	
				1986	1988	2	
	SAND, SHALE & THIN COALS			1988	2061	73	
	POCO #9			2061	2064	3	
	SAND, SHALE & THIN COALS			2064	2310	246	
	POCO #5			2310	2312	2	
	SAND, SHALE & THIN COALS			2312	2670	358	

LOGGER'S TOTAL DEPTH

2670

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

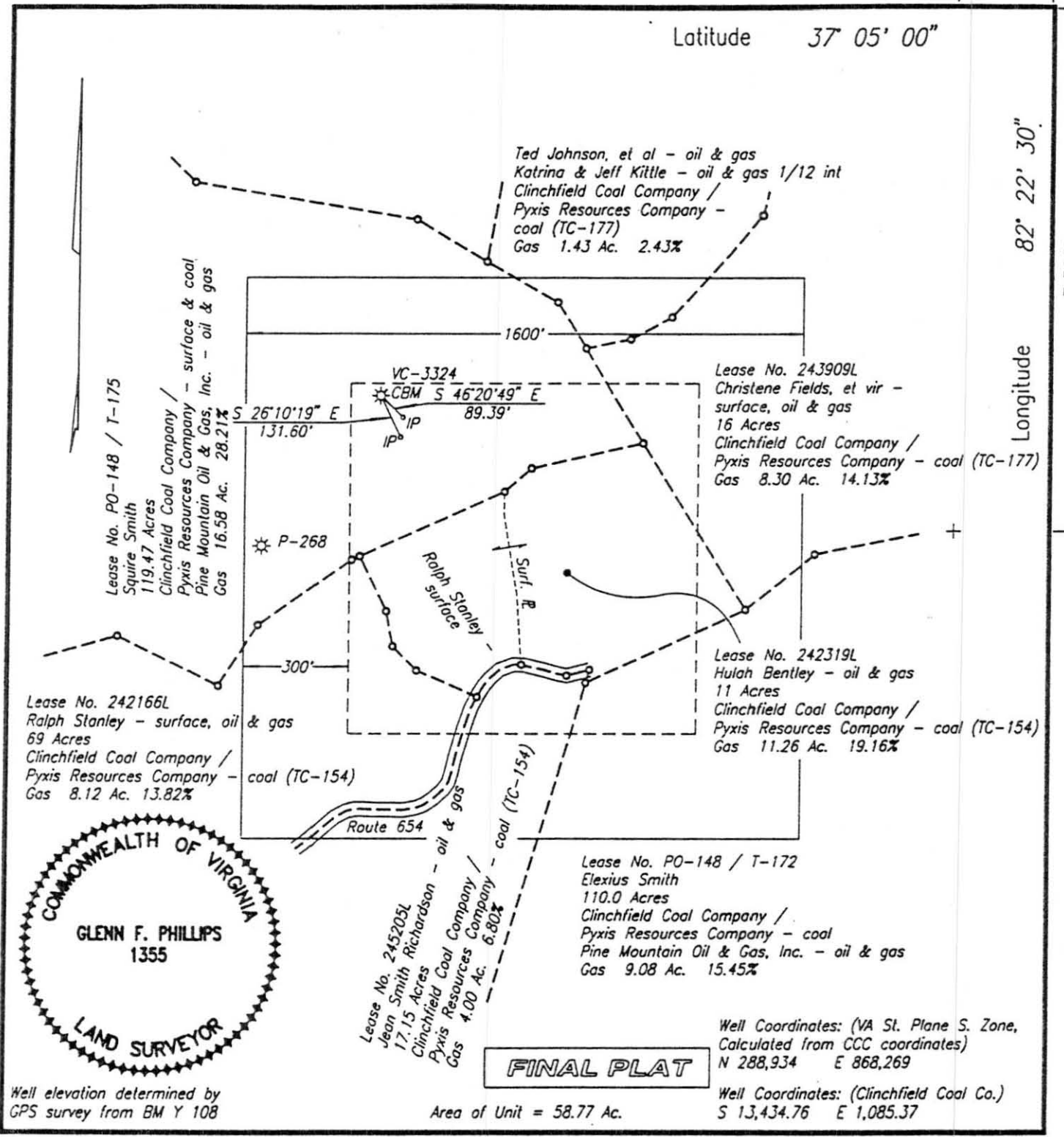
By: *Joseph D. [Signature]* (Signature)

1,375'

Latitude 37° 05' 00"

Longitude 82° 22' 30"

7,390'



Well elevation determined by GPS survey from BM Y 108

FINAL PLAT

Area of Unit = 58.77 Ac.

Well Coordinates: (VA St. Plane S. Zone, Calculated from CCC coordinates)
N 288,934 E 868,269

Well Coordinates: (Clinchfield Coal Co.)
S 13,434.76 E 1,085.37

WELL LOCATION PLAT

COMPANY Equitable Resources Energy Company WELL NAME AND NUMBER VC-3324
 TRACT NO. T-175 ELEVATION 2326.74 QUADRANGLE Caney Ridge
 COUNTY Dickenson DISTRICT Ervinton SCALE 1" = 400' DATE 6-06-1997

This Plat is a new plat ; 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