

Department of Mines, Minerals and Energy  
Division of Gas and Oil  
P.O. Box 1416  
Abingdon, Virginia 24210  
703/676-5423

COMPLETION REPORT

JAN 1997  
RECEIVED  
DIVISION OF  
GAS & OIL

WELL TYPE: Oil  Gas  Coalbed Methane  or Injection  well

Date Well Completed: 9-19-96

Total Depth of Well: LTD = 2789 DTD = 2792

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/24300# 12/20 SAND - 750000 SCF N2 - 502 BF

Perforated: 2030 to 2641.5 No. of Perforations: 16 Perforation size: .34

Formation Broke Down at: 1890 PSIG Average Injection Rate: 10.5 (35 DH) BPM

ISIP: 1474 PSIG 5 Min SIP: 1410 PSIG Average Injection Pressure: 3770

Date Stimulated: 9-19-96

\* C-SEAM, WARCREEK, BECKLEY, L HORSEPEN, X-SEAM, POCO #9, POCO #4, 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 27 MCFD 6 Hours Tested 383 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. O'Quinn (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 VCP3033 in the LIPPS District of the WISE County, Virginia on 13TH day, JANUARY month, 19 97.

LOCATION

County: WISE District: LIPPS  
 Surface Elevation: 2583.7 Elevation of Kelly Bushing: 2593.7 Quadrangle: CANEY RIDGE  
9125 FT S. of Latitude 37° 02' 30" and 4120 FT W. of Longitude 82° 27' 30"

Attach a final location plat as required by VR 480-05-22.1, § 1.36.

DRILLING DATA

Date Drilling Commenced: 09-04-96 Drilling Contractor: Union Drilling  
 Date Drilling Completed: 09-08-96 Rig Type: X Rotary     Cable Tool  
 Total Depth of Well: LTD=2789 DTD=2792

GEOLOGICAL DATA

Fresh Water at:	44 feet	1.5" STREAM	GPM	feet	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>
BECKLEY	2124	2126	2			
L HORSEPEN	2176	2178	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>
			2782/2792	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: 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
47	1/4°	1400	3/4°
200	1/4°	1590	3/4°
400	3/4°	1790	3/4°
472	3/4°	1990	3/4°
600	3/4°	2190	3/4°
800	3/4°	2390	3/4°
1000	1°	2590	3/4°
1200	1°	2782	3/4°
1266	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>	11 3/4"		48'	38'			
<u>Water Protection</u>	8 5/8"		319'	309'	80(94)	09-05-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2726' 2679'	2716'	355(447)	09-08-96	

Liners

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

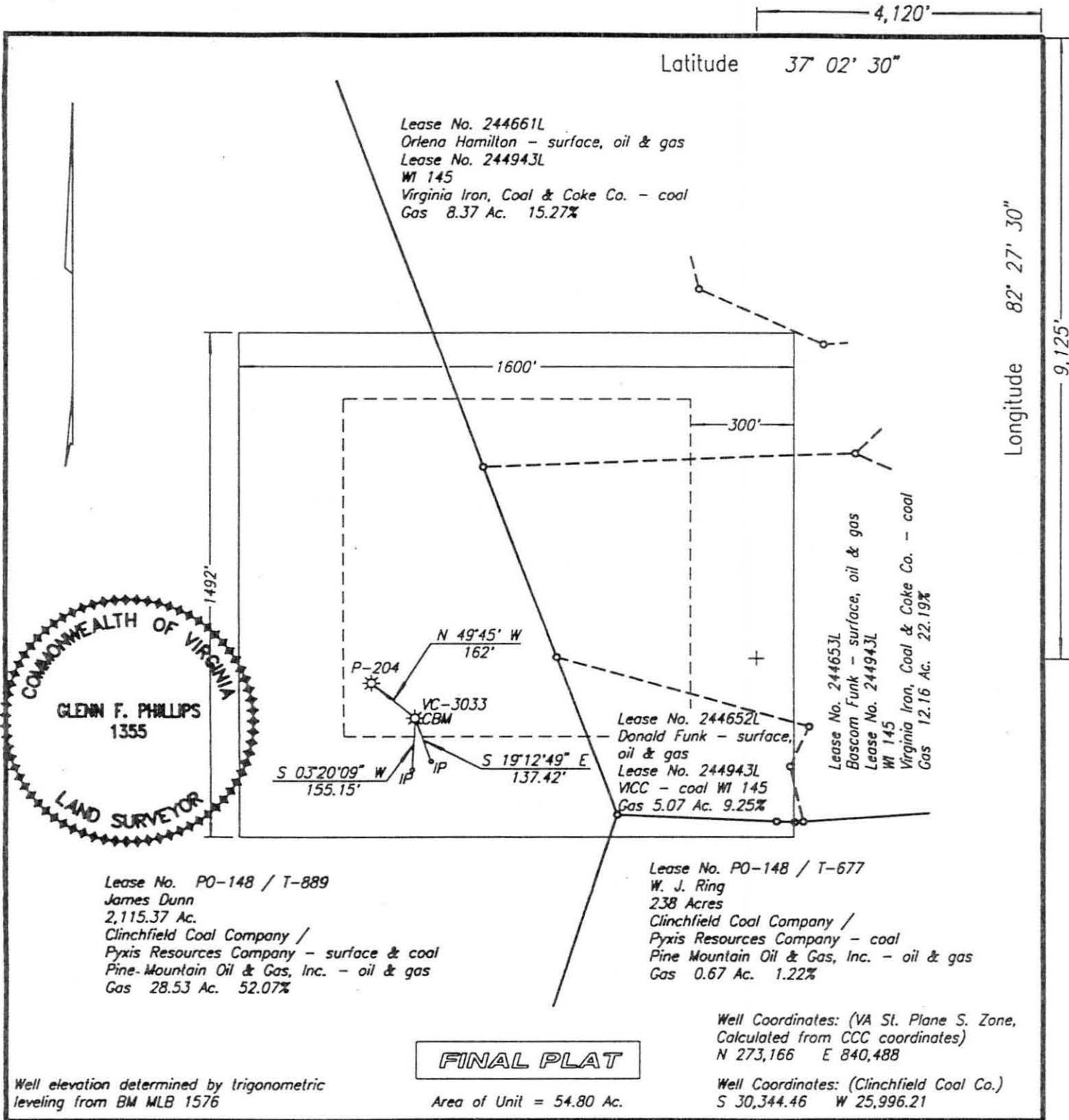
DRILLER'S LOG

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 BECKLEY Sand, Shale & Thin Coals L HORSEPEN Sand, Shale & Thin Coals			0	2124	2124	
				2124	2126	2	
				2126	2176	50	
				2176	2178	2	
				2178	2789	611	
	Logger's Total Depth				2789		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: *Joseph A. Conway* (Signature)



WELL LOCATION PLAT

24-G-85

COMPANY Equitable Resources Exploration WELL NAME AND NUMBER VC-3033  
 TRACT NO. PO-148 / T-889 ELEVATION 2584.77 QUADRANGLE Caney Ridge  
 COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 10-24-1996

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