

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: 10-07-96 Total Depth of Well: LTD = 2677 DTD = 2700

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/23700# 12/20 SAND - 845000 SCF N2 - 505 BF  
Perforated: 1332.5 to 2446 No. of Perforations: 15 Perforation size: .34  
Formation Broke Down at: 1721 PSIG Average Injection Rate: 14.2 (40 DH) BPM  
ISIP: 1492 PSIG 5 Min SIP: 1383 PSIG Average Injection Pressure: 3500  
Date Stimulated: 10-7-96

\* GREASY CREEK, M SEABOARD, L SEABOARD, WARCREEK, BECKLEY, L HORSEPEN, X-SEAM, POCO #3

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 25 MCFD 6 Hours Tested 200 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 R. Curry (Signature)

Department of Mines, Minerals and Energy  
 Division of Gas and Oil  
 P. O. Box 1410  
 Abingdon, Virginia 24210  
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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP2596 in the ERVINTON District of the DICKENSON County, Virginia on 17TH day, JANUARY month, 19 97.

LOCATION

County: DICKENSON District: ERVINTON  
 Surface Elevation: 2444.96 Elevation of Kelly Bushing: 2454.96 Quadrangle: DUTY  
13450 FT S. of Latitude 37° 07' 30" and 7640 FT W. of Longitude 82° 10' 00"

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

DRILLING DATA

Date Drilling Commenced: 09-26-96 Drilling Contractor: Union Drilling  
 Date Drilling Completed: 10-01-96 Rig Type:  Rotary  Cable Tool  
 Total Depth of Well: LTD=2677 DTD=2700

GEOLOGICAL DATA

Fresh Water at:	52	feet	DAMP	GPM	1802	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>YES</u>	<u>MINING IN AREA</u>	
					<u>NO</u>	<u>MINED OUT</u>
L SEABOARD	1432	1434	2			
BECKLEY	1807	1810	3			
X-SEAM	1917	1919	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>
		2825		ODOR		

Cuttings or samples are are not X available for examination by a member of the Virginia Division of Mineral Resources  
 Cuttings or samples have have not X 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 X 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>
52	1/4°	1590	1°
200	1/4°	1790	3/4°
255	1/2°	1802	3/4°
400	3/4°	1914	3/4°
587	3/4°	2114	1°
787	3/4°	2302	1°
1000	3/4°	2440	1°
1200	3/4°	2680	1°
1388	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 KIND SIZE SET AT</u>
<u>Conductor</u>							
<u>Surface</u>	11 3/4"		45'	35'			
<u>Water Protection</u>	8 5/8"		319'	309'	80(94)	09-27-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2669' 2562'	2659'	340(428)	10-01-96	
<u>Liners</u>							

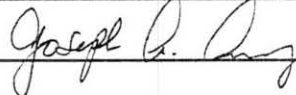
REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.

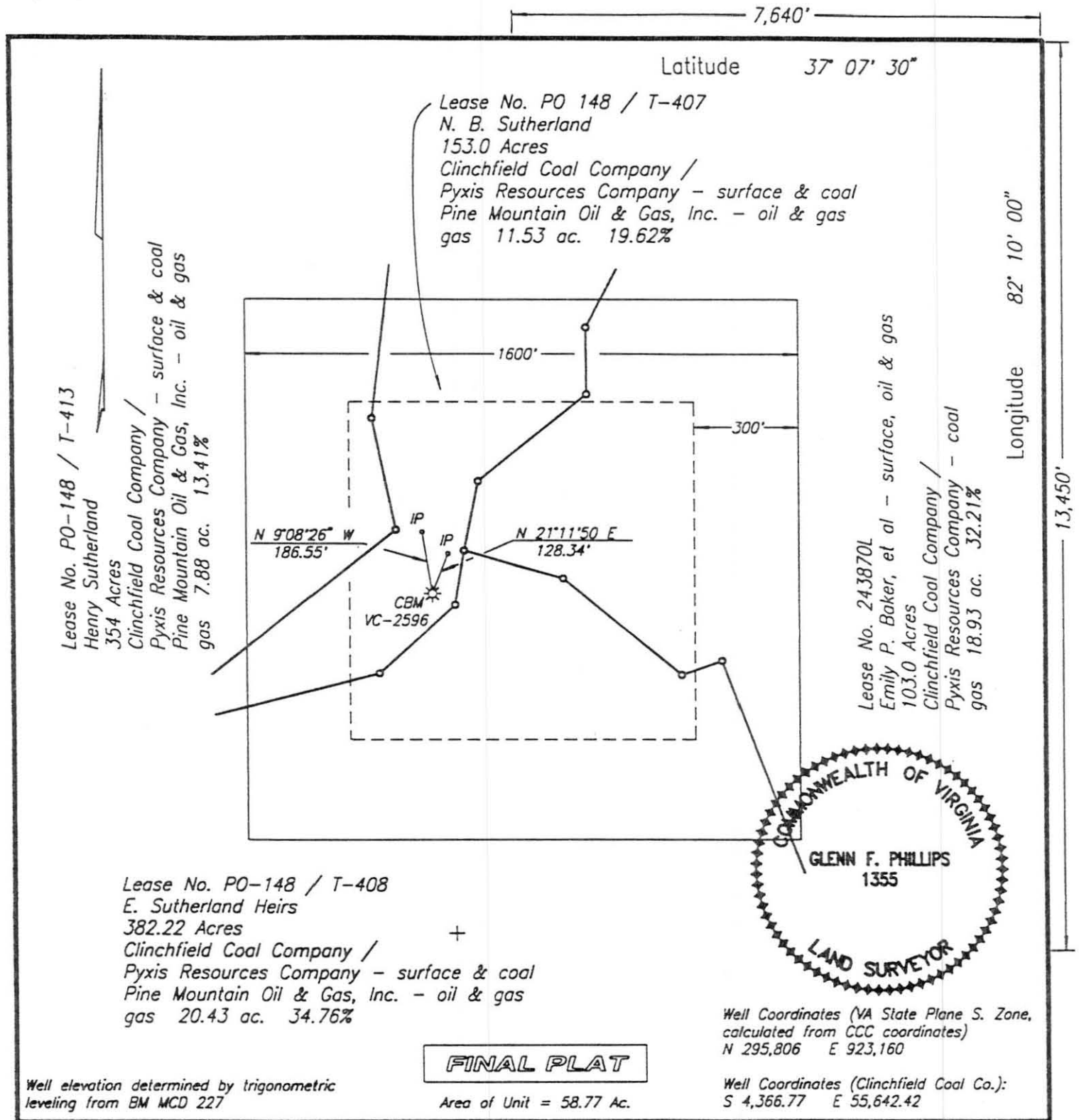
DRILLER'S LOG

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			0	1432	1432	
	L SEABOARD			1432	1434	2	
	Sand, Shale & Thin Coals			1434	1807	373	
	BECKLEY			1807	1810	3	
	Sand, Shale & Thin Coals			1810	1917	107	
	X-SEAM			1917	1919	2	
	Sand, Shale & Thin Coals			1919	2677	758	
	Logger's Total Depth				2677		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By:  (Signature)



WELL LOCATION PLAT

COMPANY Equitable Resources Exploration WELL NAME AND NUMBER VC-2596  
 TRACT NO. PO-148 / T-407 ELEVATION 2444.84 QUADRANGLE Duty  
 COUNTY Dickenson DISTRICT Ervinton SCALE 1" = 400' DATE 11-14-1996

This Plat is a new plat \_\_\_; an updated plat \_\_\_; or a final location plat x  
 + 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