

WS-449

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

Operations Name: PVRC VCP3222
Permit #: 2807

2117195

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: 11-21-94 Total Depth of Well: LTD=2252 2 DTD=2253

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: 70 Q Foam
w/8900# 12/20 sand - 414590 SCF N₂ - 1084 BF - 600 gal 7.5% HCL acid

Perforated: 1001 TO 1271.5 No. of Perforations: 13 Perforation Size: .34"
Formation Broke Down at: 2001 PSIG Average Injection Rate: 7.14 BPM (20 DH)
ISIP N/A PSIG MIN SIP N/A PSIG Average Injection Pressure 3737 PSIG
Date Stimulated 11-14-94

*Kennedy, Raven, Jawbone Rider

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 _____ PSIG
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 _____ PSIG
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 63 MCFD 6 Hours Tested 245 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. [Signature] (Signature)

Department of Mines, Minerals and Energy
 Division of Gas and Oil
 P. O. Box 1416
 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 VCP3222 in the Gladeville District of the Wise County, Virginia on 23rd day, January month, 19 95.

LOCATION

County: Wise District: Gladeville
 Surface Elevation: 2514.04 Elevation of Kelly Bushing: 2524.04 Quadrangle: Flat Gap
7450 FT. S. of Latitude 37°02'30" and 1790 FT. W. of Longitude 82°37'30"

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

DRILLING DATA

Date Drilling Commenced: 11-8-94 Drilling Contractor: Union Drilling
 Date Drilling Completed: 11-12-94 Rig Type: X Rotary Cable Tool
 Total Depth of Well: LTD=2252 DTD=2253

GEOLOGICAL DATA

Fresh Water at: 231 Feet 1/2" stream GPM Feet GPM
 Feet GPM Feet GPM
 Salt Water at: Feet GPM Feet GPM
 Feet GPM Feet GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
Kennedy	1001	1005	4			
Jawbone Rider	1270	1272	2			

GAS AND OIL SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
	1523/1777/1936/2094			60 MCFD		
		2253		103 MCFD		

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: GR/DEN/TEMP

Did log disclose vertical location of a coal seam? Yes X No ___

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
149	1/2°	1272	2 1/4°
250	1/2°	1492	1°
342	1/2°	1714	3/4°
541	1/2°	1735	3/4°
762	1/2°	1915	3/4°
984	2 3/4°	2072	1 1/4°
1174	1 3/4°	2230	3/4°
1182	2°		

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"		25'				
<u>Water Protection</u>	8 5/8"		320'	310'	110(130)	11-9-94	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2214' 1314'	2204'	470(606)	11-12-94	

Liners

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

DRILLER'S LOG

Compiled by Engineering

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
Pennsylvanian	Sand, Shale & Thin Coals			0	1001	1001	
	Kennedy Coal			1001	1005	4	
	Sand, Shale & Thin Coals			1005	1270	265	
	Jawbone Rider Coal			1270	1272	2	
	Sand, Shale & Thin Coals			1272	2252	980	
	Logger's Total Depth				2252		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph R. Army (Signature)

SCALED
L790'

Latitude 37° 02' 30"

EREX LEASE PO-148 / T-943
JOSEPH ADDINGTON
310.84 Ac.

STANDARD BANNER /
NORTON COAL Co.
UPPER & LOWER BOLING

VICC - COAL, KELLY & IMBODEN SEAMS
CLINCHFIELD COAL COMPANY /
PYXIS RESOURCES COMPANY - COAL, OTHER SEAMS
PINE MOUNTAIN OIL & GAS, Inc. - OIL & GAS
GAS 2.42 Ac. 3.03%

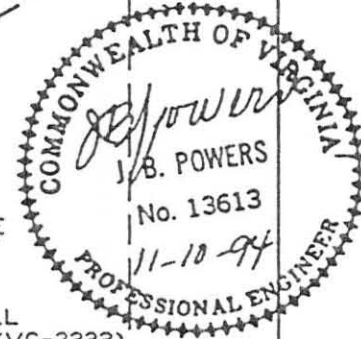
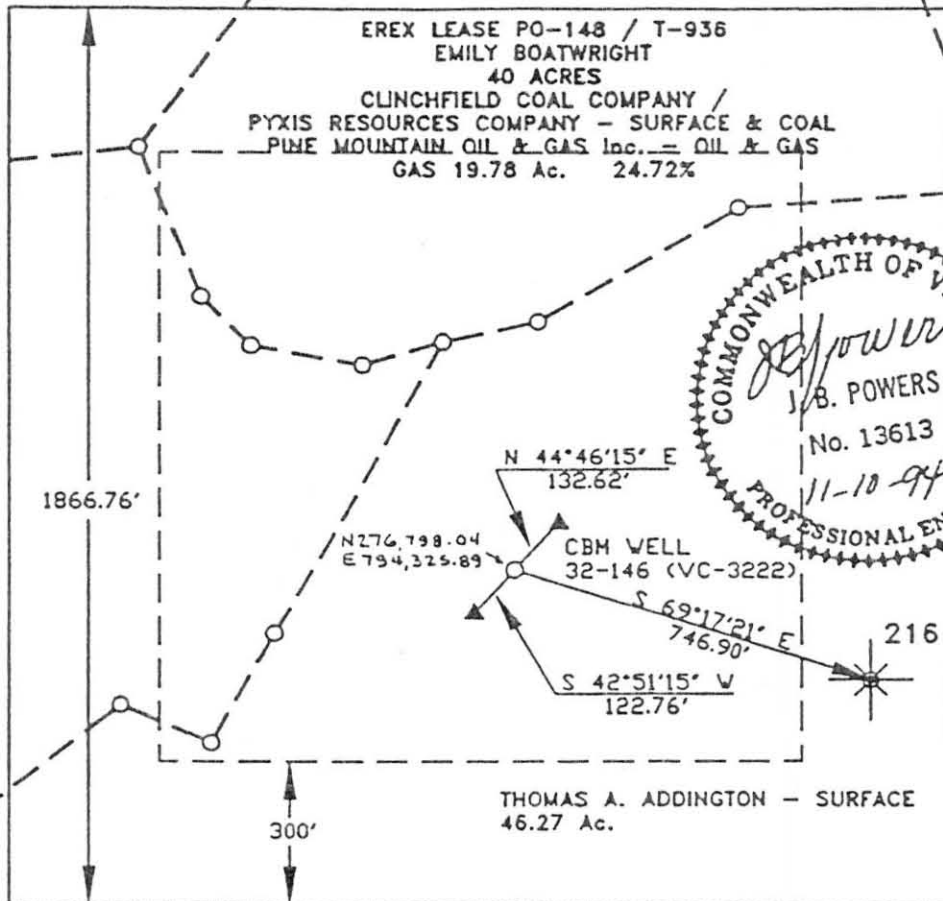
EREX LEASE PO-148 / T-936
EMILY BOATWRIGHT
125.42 Ac.
CLINCHFIELD COAL Co. /
PYXIS RESOURCES Co. - SURF. & COAL
PINE MOUNTAIN OIL & GAS Inc. - OIL & GAS
GAS 0.06 Ac. 0.08%

GRID
NORTH

Longitude 82° 37' 30"

7,450'
SCALE FT

EREX LEASE 223096L-01 / Tk. 742
EREX LEASE 223096L-02 / Tk. 742
PVR - OIL & GAS, COAL BELOW DORCHESTER SEAM & ABOVE
DELTA RESOURCES Inc. - DORCHESTER SEAM & ABOVE
H.P. CARTER
GAS 14.70 Ac. 18.38%
87.42 Ac.



EREX LEASE PO-148 / T-936
EMILY BOATWRIGHT
40 ACRES
CLINCHFIELD COAL COMPANY /
PYXIS RESOURCES COMPANY - SURFACE & COAL
PINE MOUNTAIN OIL & GAS Inc. - OIL & GAS
GAS 19.78 Ac. 24.72%

THOMAS A. ADDINGTON - SURFACE
46.27 Ac.

EREX LEASE 223096L-01 / Tk. 741
EREX LEASE 223096L-02 / Tk. 741
PVR - OIL & GAS, COAL BELOW DORCHESTER SEAM
DELTA RESOURCES Inc. - DORCHESTER SEAM & UP
207.61 Ac.
GAS 43.04 Ac 53.79%

FINAL
P.V.R.C. COORDINATES
VC-3222 (32-146)
N 69780.48
E 99604.97

Area of Unit- 80 Ac.

ALL COORDINATES BASED
ON VIRGINIA STATE PLANE
GRID SYSTEM.

Well Elevation determined
by trigonometric leveling
from P.V.R.C. station 17699.

FINAL PLAT

WELL LOCATION PLAT

1867-83

Company EQUITABLE RESOURCES EXPLORATION Well Name and Number VC-3222 (32-146)
Tract No. 741 Elevation 2512.51' Quadrangle FLAT GAP
County WISE District GLADEVILLE Scale: 1' = 400' Date 11/08/94

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.

J.B. POWERS

Licensed Professional Engineer or Licensed Land Surveyor