

DI-0613

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

Operations Name: T.E. PERRY VC2121
Permit #: 1762

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

ENTER

COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 10-21-91 Total Depth of Well: LTD=2628 DTD=2646

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

UNNAMED "C", BECKLEY, L. HORESEPEN, X-SEAM

Zone 1: M. HORSEPEN, C-SEAM, WARCREEK, Formation Stimulated With: 70 Q FOAM/LE
W/10010 # 12/20 SAND - 877190 SCF N2 - 722 BF

Perforated: 1820 TO 2115 No. of Perforations: 15 Perforation Size: .34"
Formation Broke Down at: 1534 PSIG Average Injection Rate: 14.7 BPM
ISIP 2200 PSIG 5 MIN SIP 1947 PSIG Average Injection Pressure 3648 P
Date Stimulated 10-21-91

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 _____ P
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 _____ P
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 30 MCFD 6 Hours Tested 420 PSIG 48 Hours Tes

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Chung (Signature)



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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VC 2121 in the SAND LICK District of the DICKENSON City/County, Virginia on 30TH day, OCTOBER month, 1991

LOCATION

City/County: DICKENSON District: SAND LICK
 Surface Elevation: 2335.67' Elevation of Kelly Bushing: 2345.7 Quadrangle: NORA
13,320 FT. S. of Latitude 37° 07' 30" and 5800 FT. W. of Longitude 82° 17' 30"

or, State Plane Coordinates: _____ and _____.

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

DRILLING DATA

Date Drilling Commenced: 10-10-91 Drilling Contractor: UNION DRILLING
 Date Drilling Completed: 10-14-91 Rig Type: X Rotary Cable Tool
 Total Depth of Well: LTD=2628 DTD=2646

GEOLOGICAL DATA

Fresh Water at:	_____ Feet	_____ GPM	_____ Feet	_____ GPM
	_____ Feet	_____ GPM	_____ Feet	_____ GPM
	_____ Feet	_____ GPM	_____ Feet	_____ GPM
Salt Water at:	<u>1467</u> Feet	<u>DAMP</u> GPM	_____ Feet	_____ GPM
	_____ Feet	_____ GPM	_____ Feet	_____ GPM
	_____ Feet	_____ GPM	_____ Feet	_____ GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
MIDDLE HORSEPEN	1820	1822	2		X	
WARCREEK	1933	1936	3			
UNNAMED "C"	1965	1967	2			
BECKLEY	1976	1979	3			
LOWER HORSEPEN	2047	2050	3			

GAS AND OIL SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
NO SHOWS						

DRILLER'S LOG

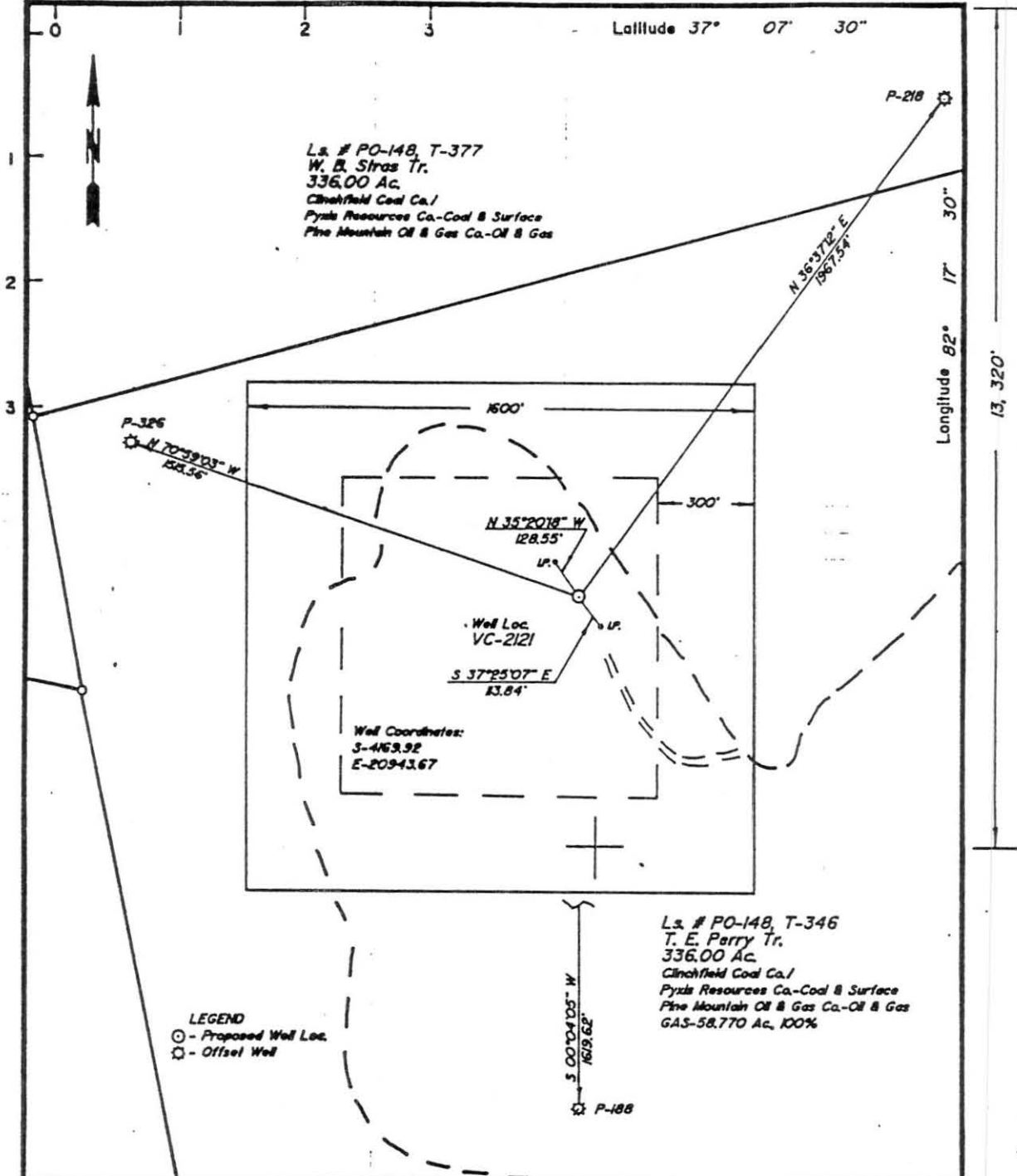
Compiled by R.J. MACDONALD

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENNSYLVANIAN	SAND, SHALE & THIN COALS			0	1820	1820	
"	MIDDLE HORSEPEN COAL			1820	1822	2	
"	SAND, SHALE & THIN COALS			1822	1933	111	
"	WARCREEK COAL			1933	1936	3	
"	SAND, SHALE & THIN COALS			1936	1965	29	
"	UNNAMED "C" COAL			1965	1967	2	
"	SAND, SHALE, & THIN COALS			1967	1976	9	
"	BECKLEY COAL			1976	1979	3	
"	SAND, SHALE & THIN COALS			1979	2047	68	
"	LOWER HORSEPEN COAL			2047	2050	3	
"	SAND, SHALE, & THIN COALS			2050	2635	585	
MISSISSIPPIAN	RED ROCK			2635	2646	11	
	DRILLER'S TOTAL DEPTH			2646			
	LOGGER'S TOTAL DEPTH			2628			

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Army (Signature)

188130



L.S. # PO-148, T-377
 W. B. Strass Tr.
 336.00 Ac.
 Clinchfield Coal Co./
 Pyxis Resources Co.-Coal & Surface
 Pine Mountain Oil & Gas Co.-Oil & Gas

L.S. # PO-148, T-346
 T. E. Perry Tr.
 336.00 Ac.
 Clinchfield Coal Co./
 Pyxis Resources Co.-Coal & Surface
 Pine Mountain Oil & Gas Co.-Oil & Gas
 GAS-58.770 Ac. 100%

LEGEND
 ○ - Proposed Well Loc.
 ⊙ - Offset Well

COMPANY Equitable Resources Exploration
 ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660
 WELL NAME VC-2121
 FARM T. E. Perry TRACT T-346
 LEASE NO. PO-148 ELEVATION 2335.67
 ACRES 336.00 QUADRANGLE Nora
 COUNTY Dickenson DISTRICT Sand Lick
 REG. ENGINEER X REG. NO. 6992
 CERT. LAND SURVEYOR _____ CERT. NO. _____
 FILE NO. _____ DRAWING NO. 2963
 DATE July 9, 1991 SCALE 1" = 400'
 This plat is X new _____ updated
 This plat X is _____ is not based on a mine coordinate
 system established for the areas of the well location.

FORM 5

WELL LOCATION MAP
 WELL NO. VC-2121

Denotes location of well on United States
 Topographic Maps, scale No 24,000, lati-
 tude and longitude lines being represented
 by border lines as shown.



I, the undersigned, hereby certify that this
 plat is correct to the best of my knowledge
 and belief, and shows all the information
 required by law for the registration of the
 Va. Well Review Board.

H. L. Baldridge
 Registered Engineer and Certified
 Land Surveyor in Charge

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: LDT/TEMP/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>
<u>204</u>	<u>3/4°</u>	<u>1400</u>	<u>1/2°</u>
<u>400</u>	<u>1°</u>	<u>1590</u>	<u>1°</u>
<u>600</u>	<u>1°</u>	<u>1620</u>	<u>1/2°</u>
<u>848</u>	<u>3/4°</u>	<u>1837</u>	<u>1°</u>
<u>1035</u>	<u>1°</u>	<u>2025</u>	<u>1 3/4°</u>
<u>1219</u>	<u>1°</u>	<u>2181</u>	<u>2°</u>
		<u>2380</u>	<u>2°</u>
		<u>2583</u>	<u>1 1/2°</u>

* Use additional sheets if necessary.

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 KIND</u>	<u>SIZE</u>	<u>SET</u>
<u>Conductor</u>	11 3/4"		27'						
<u>Surface</u>	8 5/8"		364'	354'	110(130)	10-10-91			
<u>Water Protection</u>	4 1/2"		2250'	2240'	500(765)	10-14-91			
<u>Coal Protection</u>									
<u>Other Casing and Tubing Left in Well</u>	2 3/8"		2194'						
<u>Liners</u>									

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