

RU-0031

copy 1-9-93

ENTERED

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: 10-11-91 Total Depth of Well: LTD=2552 DTD=2552

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: MULTIPLE COAL SEAMS* Formation Stimulated With: 70 Q FOAM
W/18100 # 12/20 SAND - 1085 MSCF N2 - 870 BF

Perforated: 1521 TO 1835 No. of Perforations: 17 Perforation Size: .34"
Formation Broke Down at: 1253 PSIG Average Injection Rate: 17 BPM
ISIP 1732 PSIG 5 MIN SIP 1538 PSIG Average Injection Pressure 3443 PSIG
Date Stimulated 10-11-91

*C-SEAM RIDER, WARCREEK RIDER, WARCREEK, BECKLEY, RIDER, L. HORSEPEN, RIDER, X-SEAM, & POCO #9
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 BOD _____ After Stimulation MCFD _____ HOURS TESTED _____ ROCK PRESSURE _____ HOURS TESTED _____

Zone (1) _____
Zone (2) _____
Zone (3) _____
Final Production if Gas Zones are Commingled 17 MCFD 6 Hours Tested 288 PSIG 48 Hours Test

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: C. C. Craig (Signature)



Ru-003

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 Division of Gas and Oil
 P. O. Box 1416
 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 VC 1857 in the NEW GARDEN District of the RUSSELL City/County, Virginia on 11th day, DECEMBER month, 1991.

LOCATION

City/County: RUSSELL District: NEW GARDEN
 Surface Elevation: 2466.07 Elevation of Kelly Bushing: 2476.07 Quadrangle: BIG A MOUNTAIN
3480 FT. S. of Latitude 37° 02' 30" and 10700 FT. W. of Longitude 82° 05' 00"

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

DRILLING DATA

Date Drilling Commenced: 9-28-91 Drilling Contractor: UNION DRILLING
 Date Drilling Completed: 10-2-91 Rig Type: Rotary Cable Tool
 Total Depth of Well: LTD=2552 DTD=2552

GEOLOGICAL DATA

Fresh Water at:	_____ Feet	_____ GPM	_____ Feet	_____ GPM
	_____ Feet	_____ GPM	_____ Feet	_____ GPM
Salt Water at:	<u>610</u> Feet	<u>WET</u> GPM	<u>693</u> Feet	<u>1 1/2" STR.</u> GPM
	<u>1900</u> Feet	<u>WET</u> GPM	_____ Feet	_____ GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
UPPER HORSEPEN	1393	1395	2			X
BECKLEY	1632	1635	3			
POCO #1	2422	2427	5			

GAS AND OIL SHOWS:

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

Cuttings or samples are are not X available for examination by a member of the Virginia Division of Mineral Resource
 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: SDL/TEMP/GR

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
200	1°	1654	2°
420	3/4°	1809	2°
637	3/4°	1990	1 1/2°
846	3/4°	2200	1 1/2°
1032	1°	2400	1°
1249	1°	2552	1°
1436	1 3/4°		

CASING AND TUBING


	SIZE	TOP	BOTTOM	LENGTH	CEMENT USED (IN CU/FT)	DATE CEMENTED	PACKERS OR BRIDGE PLUG KIND SIZE SET AT
<u>Conductor</u>	11 3/4"		33'	23'			
<u>Surface</u>	8 5/8"		795"	785'	120 (142)	9-29-91	
<u>Water Protection</u>	4 1/2"		2514'	2504'	550 (710)	10-2-91	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	2 3/8"		1887'				

Liners

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

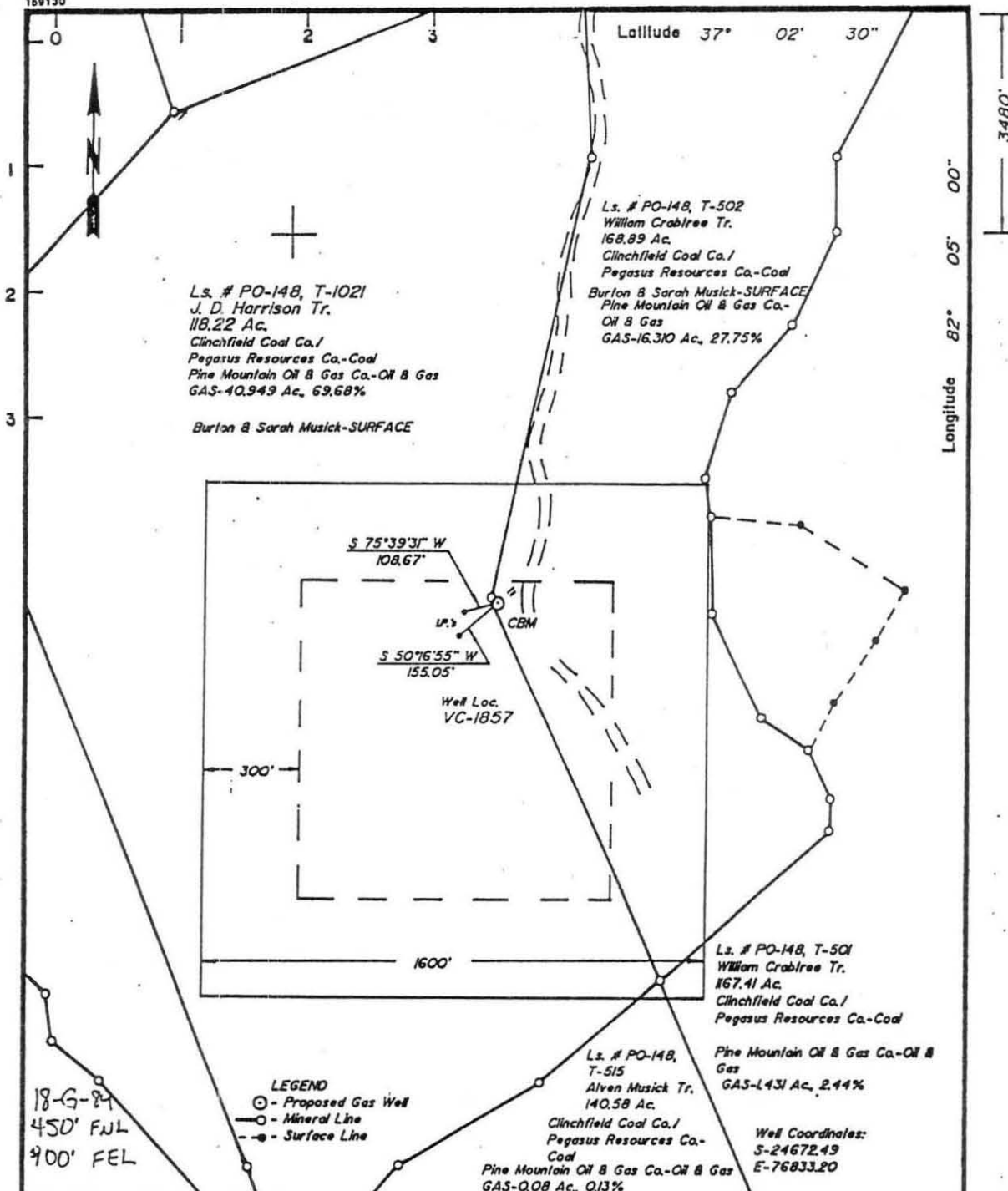
DRILLER'S LOG

Compiled by R.J. MACDONALD

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENNSYLVANIAN 	SAND, SHALE & THIN COALS			0	1393	1393	
	UPPER HORSEPEN COAL			1393	1395	2	
	SAND, SHALE & THIN COALS			1395	1632	237	
	BECKLEY COAL			1632	1635	3	
	SAND, SHALE & THIN COALS			1635	2422	787	
	POCO #1 COAL			2422	2427	5	
	SAND, SHALE & THIN COALS			2427	2552	125	
LOGGER'S TOTAL DEPTH				2552			

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)
 By: Joseph D. Almy (Signature)

159130



COMPANY Equitable Resources Exploration

ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660

WELL NAME VC-1857

FARM William Crabtree TRACT T-502

LEASE NO. PO-148 ELEVATION 2466.07

ACRES 168.89 QUADRANGLE Big A Mountain

COUNTY Russell DISTRICT New Garden

REG. ENGINEER X REG. NO. 6992

CERT. LAND SURVEYOR _____ CERT. NO. _____

FILE NO. _____ DRAWING NO. 2826

DATE 11-9-90 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

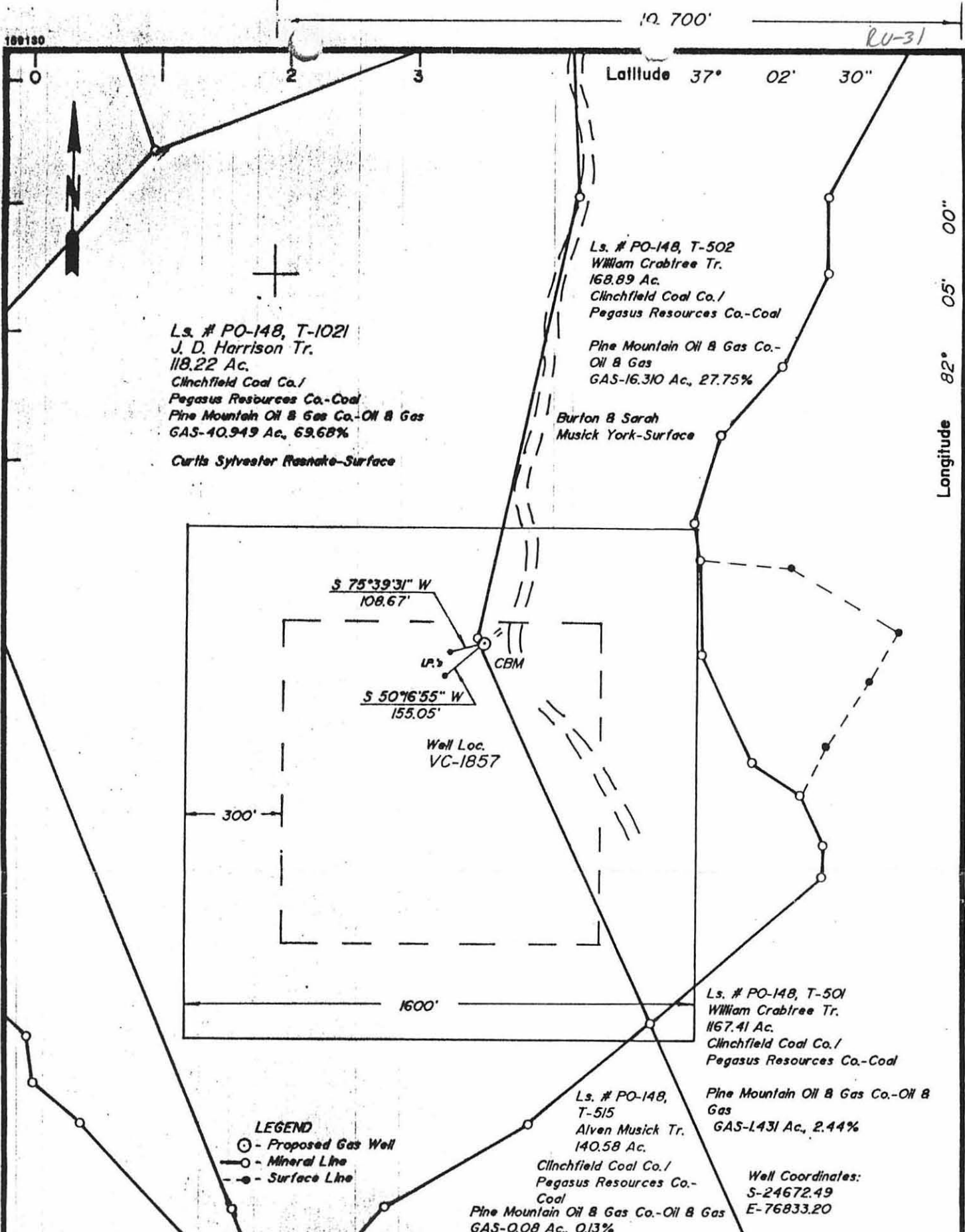
WELL LOCATION MAP
WELL NO. VC-1857

Denotes location of well on United States
Topographic Maps, scale 1 in. = 24,000, lati-
tude and longitude lines being represented
by border lines as shown.
BALDRIDGE

CERTIFICATE NO. _____
CERTIFICATION OF WELL PLAT

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 and the regulations of the
Va. Well Review Board.

A. L. Baldridge
Registered Engineer or Certified
Land Surveyor in Charge



COMPANY Equitable Resources Exploration

ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660

WELL NAME VC-1857

FARM William Crabtree TRACT T-502

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ACRES 168.89 QUADRANGLE Big A Mountain

COUNTY Russell DISTRICT New Garden

REG. ENGINEER X REG. NO. 6992

CERT. LAND SURVEYOR _____ CERT. NO. _____

FILE NO. _____ DRAWING NO. 2826

DATE July 15, 1991 SCALE 1" = 400'

This plat is new updated
 This plat is is not based on a mine coordinate system established for the area of the well location.

FORM 5

WELL LOCATION MAP
 WELL NO. VC-1857

+ Denotes location of well on United States Topographic Maps, scale to 24,000, latitude and longitude in minutes, represented by border lines as shown.

H. L.
 CERTIFICATION OF WELL PLAT

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 and the regulations of the Va. Well Review Board.

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

REV. 7/19/91