

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

00-4116
CONFIDENTIAL

4/7/92

COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 1-7-92 Total Depth of Well: LTD=2642 DTD=2660

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

WARCREEK, WARCREEK RIDER, L. HORSEPEN, X-SEAM
Zone 1: UNNAMED "B", M. HORSEPEN, C-SEAM, Formation Stimulated With: 70 Q FOAM
W/13000 # 12/20 SAND - 828,300 SCF N2 - 718 BF
Perforated: 1691 TO 2036 No. of Perforations: 16 Perforation Size: .34"
Formation Broke Down at: 1780 PSIG Average Injection Rate: 17.8 BPM (56.7 DH)
ISIP 2700 PSIG 5 MIN SIP 1540 PSIG Average Injection Pressure 3460 PSIG
Date Stimulated 1-7-92

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 *50 MCFD 6 Hours Tested 380 PSIG 48 Hours Tested
*O.F. NOT ABSOLUTE

* 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 VC2201 in the ERVINTON District of the DICKENSON City/County, Virginia on 23RD day, JANUARY month, 1992.

LOCATION

City/County: DICKENSON District: ERVINTON
 Surface Elevation: 2301.78 Elevation of Kelly Bushing: 2311.78 Quadrangle: NORA
8300 FT. S. of Latitude 37° 07' 30" and 3925 FT. W. of Longitude 82° 15' 00"

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

DRILLING DATA

Date Drilling Commenced: 12-21-91 Drilling Contractor: GASCO DRILLING, INC.
 Date Drilling Completed: 12-30-91 Rig Type: X Rotary Cable Tool
 Total Depth of Well: LTD=2642 DTD=2660

GEOLOGICAL DATA

Fresh Water at: Feet GPM Feet GPM
 Feet GPM Feet GPM
 Salt Water at: 1500 Feet DAMP GPM Feet GPM
 Feet GPM Feet GPM

COAL SEAMS:	NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
					YES	NO	MINED OUT
	UNNAMED "B"	1691	1693	2		X	
	C-SEAM	1855	1857	2			
	WARCREEK	1881	1884	3			
	L. HORSEPEN	1979	1981	2			
	POCO #2 (SPLIT)	2547	2554	7			

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: LDT/TEMP/GR/1.2" LDT

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
410	1/2°	1470	3/4°
490	1/2°	1570	3/4°
690	1/2°	1729	3/4°
710	1/2°	1929	3/4°
910	3/4°	2129	3/4°
1070	3/4°	2329	3/4°
1270	3/4°	2412	3/4°
		2660	3/4°

CASING AND TUBING


	SIZE	TOP	BOTTOM	LENGTH	CEMENT USED (IN CU/FT)	DATE CEMENTED	PACKERS OR BRIDGE PLUG KIND	OR BRIDGE PLUG SIZE	SET AT
<u>Conductor</u>	11 3/4"		26'	20'					
<u>Surface</u>	8 5/8"		348'	342.25'	95(112)	12-21-91			
<u>Water Protection</u>	4 1/2"		2136'	2130'	452(583)	12-30-91			
<u>Coal Protection</u>									
<u>Other Casing and Tubing Left in Well</u>	2 3/8"		2091'						

Liners

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

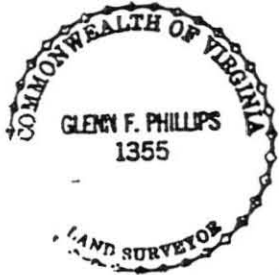
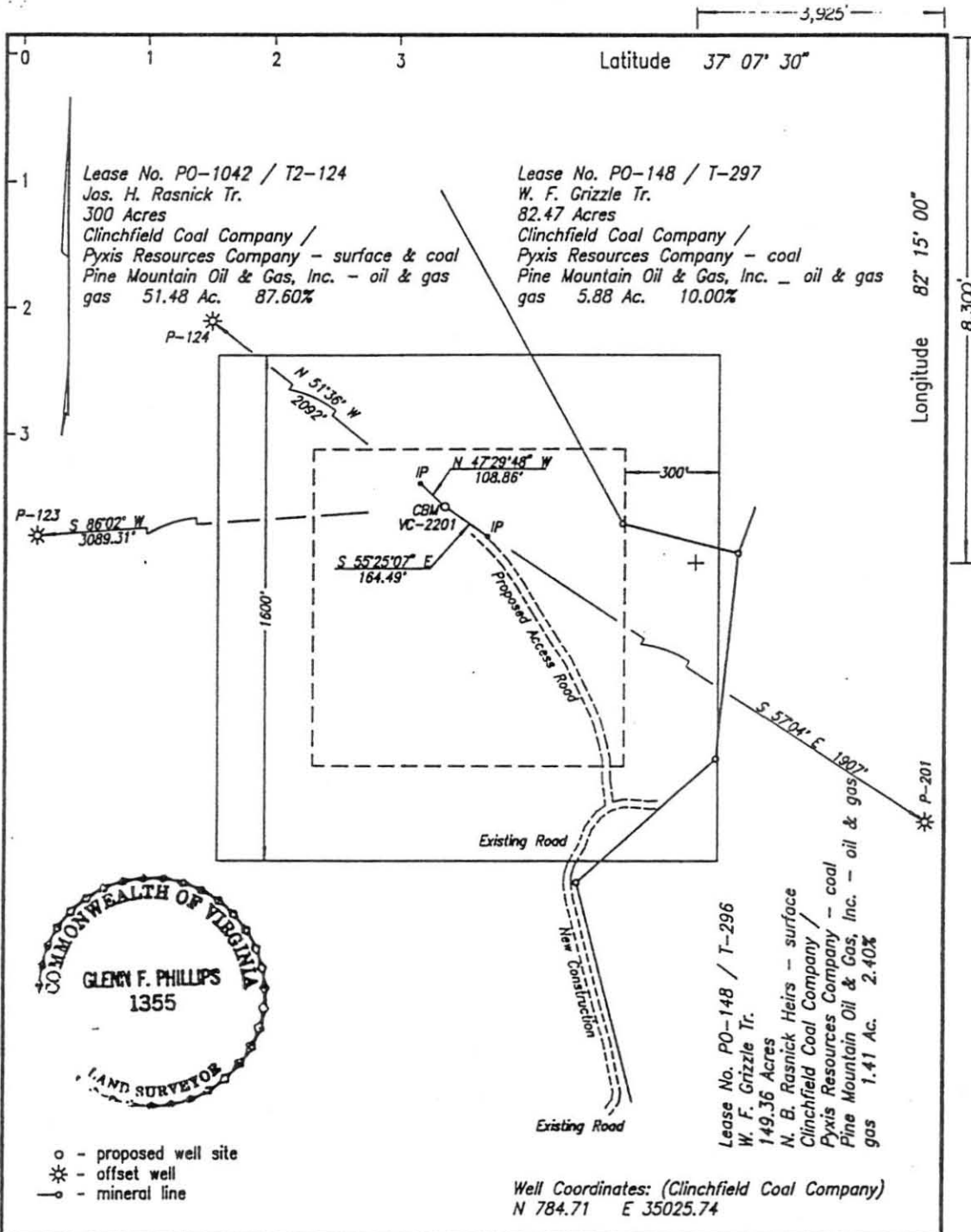
DRILLER'S LOG

Compiled by ENGINEERING

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
 PENNSYLVANIAN	SAND, SHALE & THIN COALS			0	1691	1691	
	UNNAMED "B" COAL			1691	1693	2	
	SAND, SHALE & THIN COALS			1693	1855	162	
	C-SEAM COAL			1855	1857	2	
	SAND, SHALE & THIN COALS			1857	1881	24	
	WARCREEK COAL			1881	1884	3	
	SAND, SHALE & THIN COALS			1884	1979	95	
	L. HORSEPEN COAL			1979	1981	2	
	SAND, SHALE & THIN COALS			1981	2547	566	
	POCO #2 COAL (SPLIT)			2547	2554	7	
MISSISSIPPIAN	RED ROCK			2554	2635	81	
	LOGGER'S TOTAL DEPTH			2635	2642	7	

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph R. Perry (Signature)



COMPANY Equitable Resources Exploration
 ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660
 WELL NAME VC-2201
 FARM Jos. H. Rasnick TRACT T2-124
 LEASE NO. PO-1042 ELEVATION 2301.78
 ACRES 300.0 QUADRANGLE Nora
 COUNTY Dickenson DISTRICT Ervinton
 REG. ENGINEER _____ REG. NO. _____
 CERT. LAND SURVEYOR X CERT. NO. 1355
 FILE NO. _____ DRAWING NO. _____
 DATE August 22, 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 locations.

WELL LOCATION MAP

Well No. VC-2201

+ Denotes Location of Well on United States
 Topographic Maps, Scale 1 to 24,000, Latitude
 and Longitude Lines Being Represented by
 Border Lines as Shown.

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.

Glenn F. Phillips
 Registered Engineer or Certified
 Land Surveyor in Charge

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TD 2660

30	SS	Norton	
110	SIST	Norton	
152	SS	Norton	
180	SIST	Norton	
240	SS	Norton	
320	SIST	Norton	
350	SS	Norton	
366	SIST	Norton	
370	Coal	Norton	
390	SS	Norton	
400	SIST	Norton	
402	Coal	Norton	
405	Sh	Norton	
408	Coal	Norton	
412	Sh	Norton	
418	Coal	Norton	
495	SIST	Norton	
501	Coal	Norton	Lower Bonner
570	SIST	Norton	
560	SS	Norton	
703	SIST	Norton	
705	Coal	Norton	Kennedy Ridge
722	SIST	Norton	
726	Coal	Norton	Kennedy
730	SIST	Norton	
780	SS	Norton	McClure
822	SIST	Norton	
864	SS	Norton	

872	scst	Norton	
876	Coal	Norton	Reven #2
920	stst	Norton	
946	SS	Norton	
954	S1st	Norton	
957	Coal	Norden	Reven #1
972	scst	Norton	
976	Coal	Norton	Reven maker
994	scst	Norton	
1034	SS	Norton	
1084	scst	Norden	
1086	Coal	Norton	
1088	sh	Norden	
1091	Coal	Norton	Jawbone Reder
1108	S1st	Nork	
1112	Coal	Nork	Jawbone
1122	scst	Norden	
1200	SS	Norton	Council
1218	scst	Norton	
1220	Coal	Norton	
1228	scst	Norton	
1231	Coal	Norton	Tiller
1330	S1st	Norton	
1332	Coal	Norden	U. Seboard A
1373	scst	Norton	
1376	Coal	Nork	U. Seboard
1400	scst	Norton	
1424	SS	Lee	

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1490	SS	qtz	Lee	
1493	Coal		Lee	
1528	Sist		Lee	
1531	Coal		Lee	Greasy Creek
1560	SS		Lee	
1576	SS	qtz	Lee	
1578	Coal		Lee	Middle Seaboard
1602	Sist		Lee	
1608	Coal		Lee	Lower Seaboard
1676	Sist		Lee	
1678	Coal		Lee	
1690	Sist		Lee	
1694	Coal		Lee	Upper Horsepen
1730	SS		Lee	
1732	Coal		Lee	
1770	Sist		Lee	
1773	Coal		Lee	Middle Horsepen
1804	SS		Lee	
1854	Sist		Lee	C
1858	Coal		Lee	C
1880	Sist		Lee	
1886	Coal		Lee	Wa Creek
1894	SS		Lee	
1898	Coal		Lee	Fire Creek
1904	Sh		Lee	
1906	Coal		Lee	
1928	Sist		Lee	
1931	Coal		Lee	

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1978	SS	Lee	
1982	Coal	Lee	Lower Horsepen
1999	SIST	Lee	
2034	SS	Lee	
2038	Coal	Lee	Pocahontas #9
2076	SIST	Lee	
2080	Coal	Lee	Pocahontas #8
2090	SIST	Lee	
2190	SS	Pocahontas	
2326	SS QTZ	Pocahontas	
2390	SS	Pocahontas	
2400	SIST	Pocahontas	
2403	Coal	Pocahontas	
2426	SIST	Pocahontas	
2548	SS	Pocahontas	
2550	Coal	Pocahontas	Pocahontas #3
2552	Sh	Pocahontas	
2554	Coal	Pocahontas	
2598	SIST	Pocahontas	
2606	Coal	Pocahontas	Pocahontas #1
2630	SIST	Pocahontas	
2660	Sh	BLuestone	