Operations Name: PIONEER COAL CORP VCP3589
Permit #: 3185 DI-818

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 X or Injection _ well GAS & OIL	37
Date Well Completed: 11-04-96 Total Depth of Well: LTD = 2960 DTD = 2960	
Attach the Drilling Report; if not previously submitted. In addition, submit any changes in casing or tubing that were after the Drilling Report was submitted.	approved
STIMULATION RECORD Zone 1: COAL SEAMS* Formation Stimulated With: 70Q FOAM W/33000# 12/20 SAND - 637000 SCF N2 - 481 BF Perforated: 1695.5 to 2723 No. of Perforations: 13 Perforation size: .34	
Formation Broke Down at: 1533 PSIG Average Injection Rate: 22.2 BPM ISIP: 690 PSIG 5 Min SIP: 664 PSIG Average Injection Pressure: 3780 Date Stimulated: 11-04-96	
* M SEABOARD, L SEABOARD, M HORSEPEN, C-SEAM, L HORSEPEN, X-SEAM, POCO #4 RIDER, POCO #4	, 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: BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TO Zone (1) Zone (2) Zone (3)	ESTED
Final Production if Gas Zones are Commingled <u>28 MCFD 6</u> Hours Tested <u>410 PSIG 48 Hours Tested</u>	
* Use additional sheets with this format, if more than three (3) zones were stimulated.	
Permittee: FOLUTABLE RESOURCES EXPLORATION (Company)	

Form DGO-GO-15 Rev. 9/91

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DRILLING REPORT

Pursuant to VR-480-05-2 KENADY District of FEBRUARY month, 19	the [submits this repo irginia on 3Rl		ell <u>VCP35</u> day,	89 in the	
LOCATION										
County: DICKENSON Surface Elevation: 2655 13760 FT S. of Latitude					ushing:	t: <u>KENADY</u> <u>2665.88</u> If Longitude <u>82°</u>		adrangle:	NORA	
Attach a final location pla	it as re	quired b	y VR 480	0-05-22.1	, § 1.36	5.	269			
DRILLING DATA										
Date Drilling Commence Date Drilling Completed: Total Depth of Well: LTI	10-	0-15-96 29-96 0 DTD=2	2960		Drilling Rig Ty	Contractor: <u>Uni</u> pe: <u>X</u> Rotary				
GEOLOGICAL DATA										
Fresh Water at:	295	feet	DAMP		GPM GPM	feet			SPM SPM	
Salt Water at:		feet feet feet			GPM GPM	feet feet feet		G	SPM SPM	
COAL SEAMS:								MIN	ING IN AREA	
NAME		TOP		BOTTO	M	THICKNESS	YES	NO	MINED OU	Т
TILLER POCO #4 RIDER POCO #4 POCO #3		1238 2630 2661 2722		1242 2632 2663 2724		4 2 2 2				
GAS AND OIL SHOWS:	TOP	BO	гтом	THICK	NESS	IPF (MCFD/B	OPD)	PRESSU	RE HOURS	STESTED

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Cuttings or samples are \underline{X} available for examination by a member of the Virginia Division of Mineral Resources Cuttings or samples have \underline{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

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
152	1/4°	1630	1°
200	1/4°	1738	1°
400	3/4°	1830	1°
600	1°	2000	1°
800	1°	2200	3/4°
1000	1°	2400	1/4°
1181	1°	2600	3/4°
1250	3/4°	2789	3/4°
1450	1°		

CASING AND TUBING

	SIZE	TOP	воттом	<u>LENGTH</u>	CEMENT USED (IN CU/FT)	DATE CEMENTED	BRID	KERS O GE PLUG SIZE S	GS
Conductor									
Surface	11 3/4"		45'	35'					
Water Protection	8 5/8"		580'	570'	145(171)	10-26-96			
Coal Protection									
Other Casing and Tubing Left in Well	4 1/2" 2 3/8"		2907' 2802'	2897'	412(519)	10-29-96			
Liners	ž.								2

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

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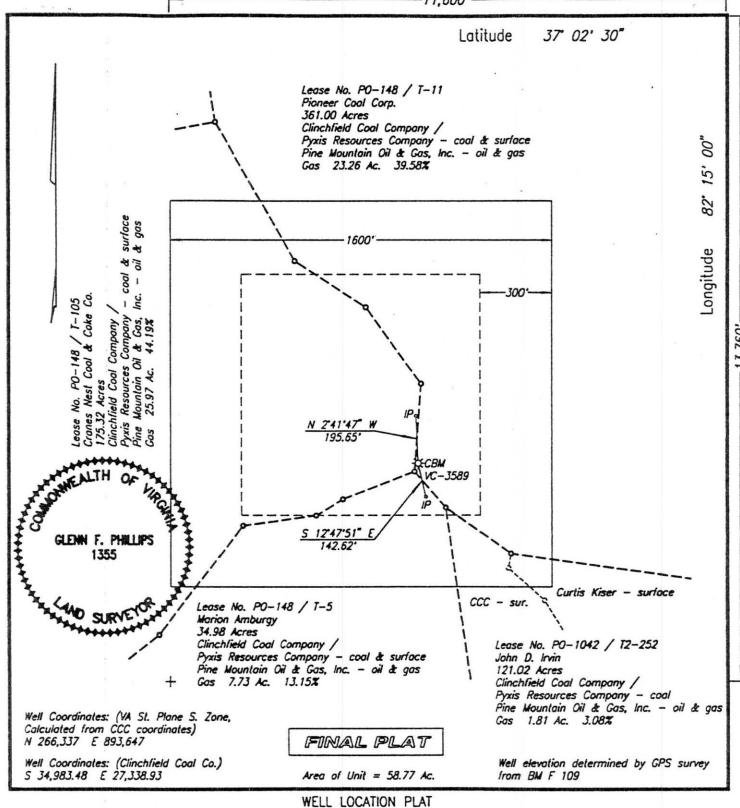
DRILLER'S LOG

Compiled by Engineering

AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DE TOP	PTH BOTTOM	THICKNESS	REMARKS
Pennsylvanian		THIN COALS THIN COALS THIN COALS THIN COALS	SOLOIN	0 1238 1242 2630 2632 2661 2663 2722 2724	1238 1242 2630 2632 2661 2663 2722 2724 2960	1238 4 1388 2 29 2 59 2 236	KEWAKKO
	Logger's Total Dep	oth			2960		

Permittee: _EQUITABLE RESOURCES EXPLORATION (Company)

(Signature)



			urces Energy (-3589	
			ELEV							
COL	JNTYD	ckenson	DISTRICT _	Kenady	S0	CALE	= 400'	DATE _	10-25-	1996
			; an update							
	Denotes	the location	of a well on longitude lines	United Stat	es topogra	aphic Map	s, scale	1 to		
	2 1,000,		Hillips			,				
m DC	0-00-7		ed Professional		+ License	d Land Su	rveyor			