

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: 8-28-96 Total Depth of Well: LTD = 2699 DTD = 2700

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: 70Q FOAM  
W/24200# 12/20 SAND - 775000 SCF N2 - 645 BF  
Perforated: 1857 to 2320.5 No. of Perforations: 16 Perforation size: .34  
Formation Broke Down at: 1410 PSIG Average Injection Rate: 37 (DH) BPM  
ISIP: 1360 PSIG 5 Min SIP: 1300 PSIG Average Injection Pressure: 3608  
Date Stimulated: 8-28-96

\* C-SEAM, UNNAMED "C", BECKLEY, L HORSEPEN, X-SEAM, POCO #6

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:        Natural  After Stimulation  
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

Zone (1)  
Zone (2)  
Zone (3)  
Final Production if Gas Zones are Commingled 19 MCFD 6 Hours Tested 215 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. Amy (Signature)

Department of Mines, Minerals and Energy  
 Division of Gas and Oil  
 P. O. Box 1410  
 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 VCP3566 in the ERVINTON District of the DICKENSON County, Virginia on 12TH day, NOVEMBER month, 19 96.

LOCATION

County: DICKENSON District: ERVINTON  
 Surface Elevation: 2311.0 Elevation of Kelly Bushing: 2321.0 Quadrangle: NORA  
7800 FT S. of Latitude 37° 05' 00" and 9400 FT W. of Longitude 82° 17' 30"

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

DRILLING DATA

Date Drilling Commenced: 08-15-96 Drilling Contractor: Union Drilling  
 Date Drilling Completed: 08-20-96 Rig Type:  Rotary  Cable Tool  
 Total Depth of Well: LTD=2699 DTD=2700

GEOLOGICAL DATA

Fresh Water at:	238 feet	DAMP	GPM	feet	GPM
	feet		GPM	feet	GPM
Salt Water at:	feet		GPM	feet	GPM
	feet		GPM	feet	GPM

COAL SEAMS:

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>YES</u>	<u>MINING IN AREA</u>	
					<u>NO</u>	<u>MINED OUT</u>
C-SEAM	1857	1859	2			
L HORSEPEN	2015	2017	2			
POCO #6 (SPLIT)	2313	2331	18			
POCO #2	2542	2544	2			

GAS AND OIL SHOWS:

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>IPF (MCFD/BOPD)</u>	<u>PRESSURE</u>	<u>HOURS TESTED</u>
		2699		ODOR		

Cuttings or samples are are not  available for examination by a member of the Virginia Division of Mineral Resources  
 Cuttings or samples have have not  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  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>
200	1/2°	1600	3/4°
336	1/2°	1800	1/2°
400	1/4°	1858	1/2°
600	1/4°	2000	1/2°
800	3/4°	2200	1/2°
864	3/4°	2383	3/4°
1000	1°	2400	3/4°
1200	1°	2503	1 3/4°
1400	3/4°	2542	2°

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 PLUGS KIND SIZE SET AT</u>
<u>Conductor</u>							
<u>Surface</u>	11 3/4"		35'				
<u>Water Protection</u>	8 5/8"		319'	309'	80(94)	08-16-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2"		2661'	2651	330(416)	08-20-96	
	1 1/2"		2433'				

Liners

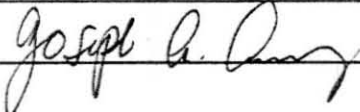
REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.  
 FISHED OUT FLAT BTM BIT @ 238' ON 8/16/96

DRILLER'S LOG

Compiled by Engineering

<u>AGE</u>	<u>FORMATION</u>	<u>GENERAL LITHOLOGY</u>	<u>COLOR</u>	<u>DEPTH</u>		<u>THICKNESS</u>	<u>REMARKS</u>
				<u>TOP</u>	<u>BOTTOM</u>		
Pennsylvanian	Sand, Shale & Thin Coals C-SEAM			0	1857	1857	
				1857	1859	2	
	Sand, Shale & Thin Coals L HORSEPEN			1859	2015	156	
				2015	2017	2	
	Sand, Shale & Thin Coals POCO #6 (SPLIT)			2017	2313	296	
				2313	2331	18	
	Sand, Shale & Thin Coals POCO #2			2331	2542	211	
				2542	2544	2	
	Sand, Shale & Thin Coals			2544	2699	155	
	Logger's Total Depth				2699		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By:  (Signature)

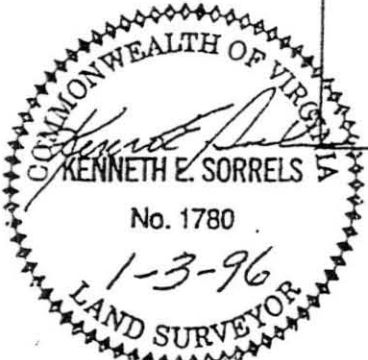
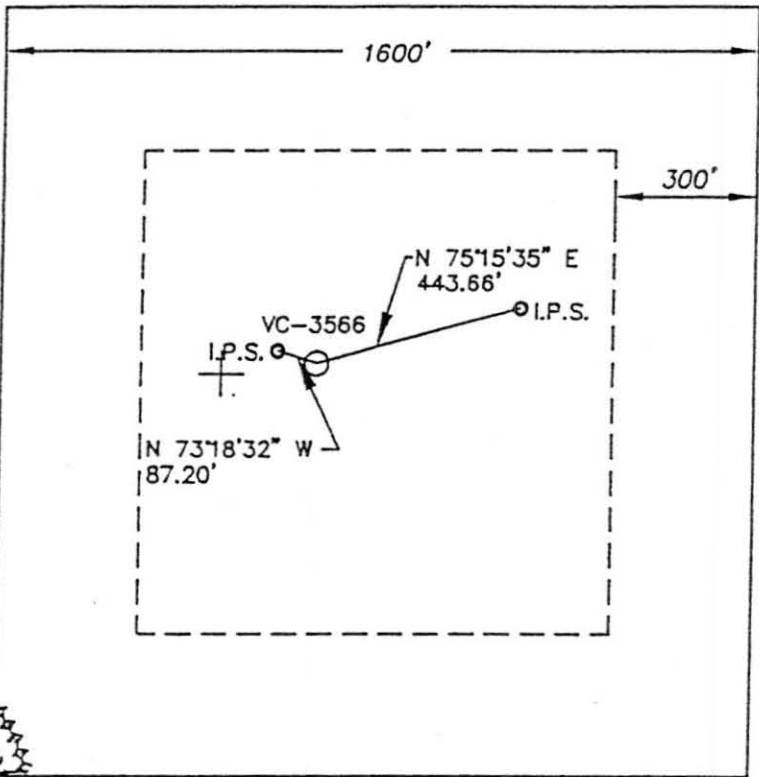
9,400'

Latitude 37°05'00"

EREX LEASE PO-148  
TRACT T-18  
J.M. COLLEY  
CLINCHFIELD COAL COMPANY/  
PYXIS RESOURCES COMPANY  
SURFACE & COAL  
PINE MOUNTAIN OIL AND GAS  
OIL AND GAS  
797.88 ACRES  
CBM 58.77 ACRES 100%

Longitude 82°17'30"

7,800'



--- SURFACE LINE  
- - - NON-SURVEYED MINERAL LINE

Well elevation determined by trigonometric levels  
From STA. HATCHET

Area of Unit = 58.77 Ac.

WELL COORDINATES:  
VA. ST. PLANE S. ZONE NAD 27  
(CALCULATED FROM NAD 83 (1994)  
BY ACE PROGRAM CORPSCON)  
N 287,835.90 E 884,533.13  
Well Coordinates: (Clinchfield Coal Co.)  
S 13,868.39 E 17,373.59

(595-1900.14)

WELL LOCATION PLAT

6-G-87

COMPANY Equitable Resources Exploration WELL NAME AND NO. VC-3566  
TRACT NO. T-18 ELEVATION: 2310.96 QUADRANGLE: NORA, VA  
COUNTY: Dickenson DISTRICT: ERVINTON SCALE: 1"=400' DATE: 01/03/96

This plat is a new plat X; an updated plat    ; or a final location plat      
+ Denotes the location of a well on United States topographic Maps, scale 1 to 24,000, latitude and the longitude lines being represented by border lines as shown.

\_\_\_\_\_  
Licensed Professional Engineer or Licensed Land Surveyor