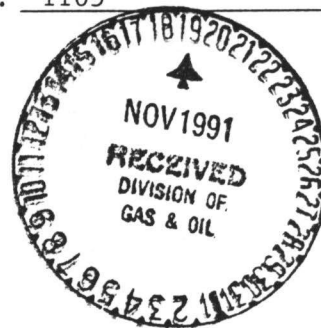


D1-408

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: 10-30-91 Total Depth of Well: LTD=5412 DTD=5417

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: BEREA/UPPER SHALE Formation Stimulated With: 75Q FOAM W/54300 #20/40
SAND - 640000 SCF N2 - 359 BW
 Perforated: 5177 TO 5311 No. of Perforations: 20 Perforation Size: .34"
 Formation Broke Down at: 1040 PSIG Average Injection Rate: 15.5 BPM
 ISIP 2050 PSIG 5 MIN SIP 1560 PSIG Average Injection Pressure 3350 PSIG
 Date Stimulated 10-30-91

Zone 2: RAVENCLIFF Formation Stimulated With: NATURAL
 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: (2) Natural (1) After Stimulation

	BOD	MCFD	HOURS TESTED	ROCK PRESSURE	HOURS TESTED
Zone (1) <u>BEREA/U. SHALE</u>		<u>332</u>	<u>6</u>	<u>660</u>	<u>48</u>
Zone (2) <u>RAVENCLIFF</u>		<u>127</u>	<u>6</u>	<u>760</u>	<u>48</u>
Zone (3) <u> </u>					

Final Production if Gas Zones are Commingled MCFD Hours Tested PSIG Hours Tested

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Susan Q. Foster (Signature)

Department of Mines, Minerals and Energy
 Division of Gas and Oil
 P. O. Box 1416
 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 P-268 in the ERVINTON District of the DICKENSON City/County, Virginia on 14th day, NOVEMBER month, 19 91.

LOCATION

City/County: DICKENSON District: ERVINTON
 Surface Elevation: 2243.87' Elevation of Kelly Bushing: 2253.87' Quadrangle: CANEY RIDGE
7750 FT. S. of Latitude 37° 05' and 1700 FT. W. of Longitude 82° 22' 30"

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

DRILLING DATA

Date Drilling Commenced: 10-9-91 Drilling Contractor: UNION DRILLING
 Date Drilling Completed: 10-20-91 Rig Type: X Rotary Cable Tool
 Total Depth of Well: LTD=5412 DTD=5417

GEOLOGICAL DATA

Fresh Water at: 74 Feet 1/2" STR. ~~GPM~~ 110 Feet 3/4" STR. ~~GPM~~
 Salt Water at: 1793 Feet DAMP ~~GPM~~ Feet ~~GPM~~

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT

GAS AND OIL SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
		3026		58 MCFD		
		3212		51 MCFD		
		3367		63 MCFD		
		3615		60 MCFD		
		3676		42 MCFD		
		4142		63 MCFD		
		4329		119 MCFD		
		4421		169 MCFD		
		4512		169 MCFD		
		5070		94 MCFD		
		5291		82 MCFD		
		5417		105 MCFD		

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: TEMP/CDL/GR

Did log disclose vertical location of a coal seam? Yes ___ No X

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>
204	3/4°	1419	1/4°
396	3/4°	1604	3/4°
590	3/4°	1823	3/4°
796	3/4°	2011	3/4°
1013	1/4°	2228	1°
1199	1/2°	2500	3/4°

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</u>		
							<u>KIND</u>	<u>SIZE</u>	<u>SET AT</u>
<u>Conductor</u>	16"		36'	26'					
	11 3/4"		128'	122.5'					
<u>Surface</u>									
<u>Water Protection</u>									
<u>Coal Protection</u>	8 5/8		2473'	2463'	491 (772)	10-15-91			
<u>Other Casing and Tubing Left in Well</u>	4 1/2"		5364'	5354	280 (434)	10-20-91			

Liners

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

DRILLER'S LOG

Compiled by GEOLOGY

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENNSYLVANIAN	SAND & SHALE			0	2478	2478	
MISSISSIPPIAN	SAND & SHALE			2478	2973	495	TOP RED ROCK @ 2478
	RAVENCLIFF			2973	3060	87	
	SAND & SHALE			3060	3525	465	
	MAXON SANDS			3525	3842	317	
	SAND & SHALE			3842	4134	292	
	BIG LIME			4134	4610	476	
	BORDEN			4610	5102	492	
	COFFEE SHALE			5102	5170	68	
	BEREA			5170	5274	104	
DEVONIAN	BROWN SHALE			5274	5412	138	
	LOGGER'S TOTAL DEPTH			5412			

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Swan A Foster (Signature)

FORM 5 (Draft 07-09-82)

(FOR OFFICE USE ONLY) API Well No. 43 - -
State County Farm

Date: 10-15, 1986

Operator's Well No. P-268 Revision II

VIRGINIA OIL AND GAS INSPECTOR
DEPARTMENT OF LABOR AND INDUSTRY
DIVISION OF MINES
OIL AND GAS SECTION
205 W. MAIN STREET
ABINGDON, VIRGINIA 24210
PHONE 703 628-8115

WELL PLAT

+ Denotes location of well on United States Topographic Maps, scale 1 to 24,000. Latitude and longitude lines are represented by border lines as shown.

This plat is new x / updated /

This plat is x / is not / based on a mine coordinate system established for the areas of the well location.

Well operator Philadelphia Oil
Address 1101 N. Eastman Road
Kingsport, Tenn. 37664
Farm Squire Smith
Tract T-175 Acres 119.47 Lease No. PO-148
Elevation 2243.87
Quadrangle Canev Ridge
County Dickenson District Ervington
Registered Engineer Registration No.
Certified Land Surveyor Cart. No. 986
File No. Drawing No. 1663
Date 10-15-86 Scale 1"=400'

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 Virginia Well Review Board.

Registered Engineer or Certified Land Surveyor
in Charge 19. # 98

