

Department of Mines, Minerals and Energy
Division of Gas and Oil

Operations Name: G W SMITH Well #: VC3668
Permit #: 3422 VA File #: DI-0854

Department of Mines, Minerals and Energy
Division of Gas and Oil
P.O. Box 1416
Abingdon, Virginia 24210
540/676-5423

COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 8/11/97 Total Depth of Well: LTD - 2648 DTD - 2664

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/
17200# 12/20 SAND - 771,000 SCF N2 - 584 BF

Perforated: 1733 to: 2392.5 No. of Perforations: 16 Size: 0.34"
Formation Broke Down at: 1813 PSIG Average Injection Rate: 17.5 (56) BPM
ISIP: 1511 PSIG 5 Min SIP: 1424 PSIG Average Injection Pressure 3758
Date Stimulated: 8/11/97

* U HORSEPEN, M HORSEPEN, C-SEAM, WARCREEK, UNNAMED "C", BECKLEY, L HORSEPEN, X-SEAM, POCO #5

Zone 2: _____ Formation Stimulated With: _____

Perforated: _____ to: _____ No. of Perforations: _____ Size: _____
Formation Broke Down at: _____ PSIG Average Injection Rate: _____
ISIP: _____ PSIG 5 Min SIP: _____ PSIG Average Injection Pressure _____
Date Stimulated: _____

Zone 3: _____ Formation Stimulated With: _____

Perforated: _____ to: _____ No. of Perforations: _____ Size: _____
Formation Broke Down at: _____ PSIG Average Injection Rate: _____
ISIP: _____ PSIG 5 Min SIP: _____ PSIG Average Injection Pressure _____
Date Stimulated: _____

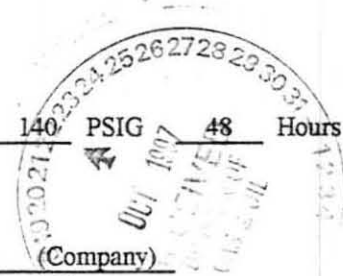
FINAL PRODUCTION: _____ Natural _____ X _____ After Stimulation
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

Zone (1)
Zone (2)
Zone (3)
Final Production if Gas
Zones are Commingled 15 MCFD 6 Hours Tested 140 PSIG 48 Hours Tested

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

Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

By: Joseph A. [Signature] (Signature)



ENTERED

Department of Mines, Minerals and Energy
Division of Gas and Oil

Operations Name: G W SMITH
Permit #: 3422

Well #: VC3668
VA File #: DI-0854

Department of Mines, Minerals and Energy
Division of Gas and Oil
P.O. Box 1416
Abingdon, Virginia 24210
540/676-5423

DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VC3668 in the
ERVINTON District of the DICKENSON County, Virginia on 10TH day,
OCTOBER month, 1997.

LOCATION

County: DICKENSON District: ERVINTON
Surface Elevation: 2361.76 Elev of Kelly Bushing: 2371.76 Quadrangle: NORA
11114 Ft. S of Latitude 37 05 00 and 11630 Ft. W of Longitude 82 20 00

DRILLING DATA

Date Drilling Commenced: 7/26/97 Drilling Contractor: UNION DRILLING
Date Drilling Completed: 7/31/97 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD - 2648 DTD - 2664

GEOLOGICAL DATA

Fresh Water at:	180 feet	1/4" STREAM	GPM	222 feet	2" STREAM	GPM
	1394 feet	DAMP	GPM	feet		GPM
	feet		GPM	feet		GPM
Salt Water at:	feet		GPM	feet		GPM
	feet		GPM	feet		GPM
	feet		GPM	feet		GPM

COAL SEAMS:

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>MINING IN AREA</u>		
				<u>YES</u>	<u>NO</u>	<u>MINED OUT</u>
RAVEN	985	989	4			
JAWBONE	1146	1148	2			
BECKLEY (SPL)	1954	1958	4			
L HORSEPEN	2009	2011	2			
POCO #5 RIDER	2390	2393	3			

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>
		2500		84 MCFD		
		2540		60 MCFD		

Cuttings or samples are

are not
have not

 available for examination by a member of the Virginia Division of Mineral Resources
 Cuttings or samples have

are not
have not

 been furnished to the Virginia Division of Mineral Resources

ELECTRIC LOGS AND SURVEYS

List logs run on wellbore: GR/ DEN/ TMP

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°	1874	3/4°
373	1/2°	2074	3/4°
400	1/2°	2159	1°
600	1/2°	2360	1°
800	1/2°	2529	1°
1000	1/2°	2560	1°
1200	1/2°		
1400	3/4°		
1600	3/4°		
1711	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>	11 3/4		45	35	GROUTED				
<u>Surface</u>									
<u>Water Protection</u>	8 5/8		320	310	125(148)	7/27/97			
<u>Coal Protection</u>									
<u>Other Casing and Tubing Left in Well</u>	4 1/2		2618	2608	570(718)	7/31/97			
	2 3/8		2527						

Liners

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

DRILLER'S LOG

Compiled by: ENGINEERING

AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENN		SAND, SHALE & THIN COALS		0	985	985	
		RAVEN		985	989	4	
		SAND, SHALE & THIN COALS		989	1146	157	
		JAWBONE		1146	1148	2	
		SAND, SHALE & THIN COALS		1148	1954	806	
		BECKLEY (SPLIT)		1954	1958	4	
		SAND, SHALE & THIN COALS		1958	2009	51	
		L HORSEPEN		2009	2011	2	
		SAND, SHALE & THIN COALS		2011	2390	379	
		POCO #5 RIDER		2390	2393	3	
		SAND, SHALE & THIN COALS		2393	2648	255	

LOGGER'S TOTAL DEPTH 2648

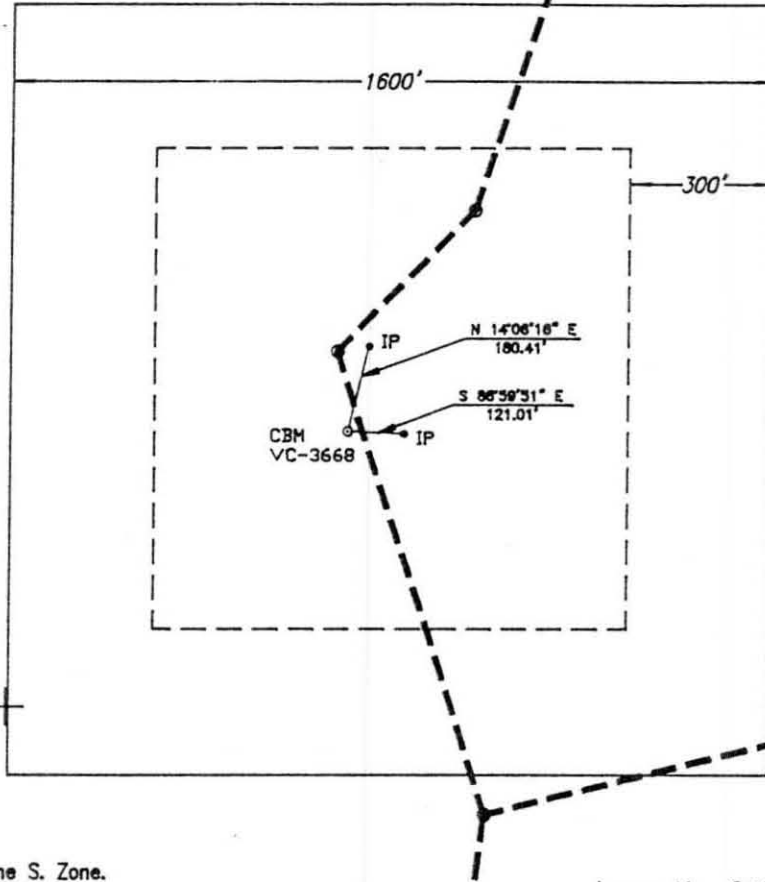
Permittee: EQUITABLE RESOURCES ENERGY COMPANY (Company)

By: Joseph D. Army (Signature)

Well elevation determined by trigonometric leveling from CCC Monument.

Latitude 37° 05' 00"

Lease No. 241490, T-179
 G. W. SMITH
 231.00 ACRES
 Clinchfield Coal Co. /
 Pyxis Resources Co. - Coal - Surface
 Pine Mountain Oil & Gas Co. -
 Oil & Gas
 Gas 32.62 Ac., 55.51%



Longitude 82° 20' 00"

11,114.07'



Lease No. 241490, T-47
 W. T. GOODLOE
 556.33 ACRES
 Surface - Marie Thacker
 Clinchfield Coal Co. /
 Pyxis Resources Co. - Coal
 Pine Mountain Oil & Gas Co. -
 Oil & Gas
 Gas 25.96 Ac., 44.17%

Well Coordinates: (VA St. Plane S. Zone.
 Calculated from CCC Coordinates)
 N 285,124 E 870,020

Well coordinates: (Clinchfield Coal Co.)
 S 17,169.77 E 2,990.21

LEGEND

- Iron Pin
- Proposed Well Loc.
- ⊗ Offset Well
- Mineral Line
- Surface Line

Area of Unit = 58.77 Ac.

Lease No. 241490, T-145
 DAVID SMITH
 789.42 ACRES
 Clinchfield Coal Co. /
 Pyxis Resources Co. - Coal
 Pine Mountain Oil & Gas Co. -
 Oil & Gas
 Gas 0.19 Ac., 0.32%

WELL LOCATION PLAT

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC-3668
 TRACT NO. T-179 ELEVATION 2359.85 QUADRANGLE NORA
 COUNTY Dickenson DISTRICT Ervington SCALE 1" = 400' DATE 08-05-97

This Plat is a new plat ; 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 longitude lines being represented by border lines as shown.

Greg Mullins

 Licensed Land Surveyor