Operations Name: <u>JEFFERSON NATL FOREST\_VP2731</u> Permit #: 2994

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 X Coalbed Methane or Injection well					
Date Well Completed: 7-31-96 Total Depth of Well: LTD = 4473 DTD = 4460					
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: LOWER HURON Formation Stimulated With: 75Q FOAM  W/ 43500# 20/40 SAND - 469400 SCF N2 - 326 BF  Perforated: 4178 to 4314 No. of Perforations: 19 Perforation size: .34"  Formation Broke Down at: N/A PSIG Average Injection Rate: 55 BPM (DH)  ISIP: 1450 PSIG 5 Min SIP: 1350 PSIG Average Injection Pressure: 3606  Date Stimulated: 7-19-96					
Zone 2: CLEVELAND SHALE Formation Stimulated With: 75Q FOAM  W/ 46500# 20/40 SAND - 402100 SCF - 386 BF  Perforated: 3609 to 3850 No. of Perforations: 24 Perforation size: 34  Formation Broke Down at: N/A PSIG Average Injection Rate: 60 BPM (DH)  ISIP: 1050 PSIG 5 Min SIP: 1007 PSIG Average Injection Pressure: 2542  Date Stimulated: 7-19-96					
Zone 3: Formation Stimulated With:					
Perforated: to No. of Perforations: Perforation size: Formation Broke Down at: PSIG Average Injection Rate: ISIP: PSIG 5 Min SIP: PSIG Average Injection Pressure: Date Stimulated:					
FINAL PRODUCTION:  BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED  Zone (1)  Zone (2)  Zone (3)  Final Production if Gas Zones are Commingled 325 MCFD 6 Hours Tested 440 PSIG 48 Hours Tested					
* Use additional sheets with this format, if more than three (3) zones were stimulated.					
By:					

Form DGO-GO-15 Rev. 9/91

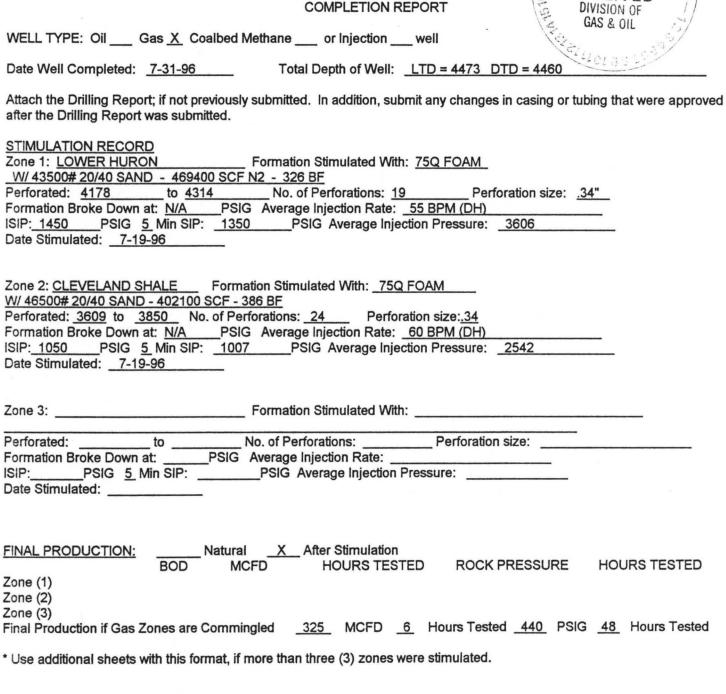
Operations Name: <u>JEFFERSON NATL FOREST VP2731</u> Permit #: 2994

SEP 1996

RECEIVED

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

#### COMPLETION REPORT



Permittee: <u>EQUITABLE RESOURCES EXPLORATION</u> (Company)

(Signature)

Form DGO-GO-15 Rev. 9/91

Operations Name: <u>JEFFERSON NATL FOREST\_VP2731</u>
Permit #: \_\_2994 \_\_\_\_\_ SC-48\_

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-480-05-2 FLOYD SEPTEMBER							in the day,
LOCATION							
County: SCOTT Surface Elevation: 2991 12500 FT S. of	.46 Elevati	on of Kelly Bushi	FLOYD ng: 3001.5 25	Quadrang FT W. of Longit	_ gle: <u>WIS</u> ude <u>82° 33</u>	E 2' 30"	
Attach a final location pla	t as required by	VR 480-05-22.1,	§ 1.36.				
DRILLING DATA							
Date Drilling Commence Date Drilling Completed: Total Depth of Well: <u>LT</u>	7-11-96			ctor: <u>UNION [</u> Rotary <u> </u>			
GEOLOGICAL DATA							
Fresh Water at:7	70 feet 1/4" ST feet feet feet	GPM GPM		feet	STREAM	GPM	
COAL SEAMS:					MIN	NING II	N AREA
NAME	TOP	BOTTOM	1	THICKNESS	YES	NO	MINED OUT
GAS AND OIL SHOWS:							
FORMATION	<u>TOP</u> <u>BOT</u> 3550	<u>TOM</u> <u>THICKN</u> /3632	ESS IPF (M	(CFD/BOPD) ODOR	PRESSU	IRE	HOURS TESTED
4460				193 MCFD			

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

10

1°

1 1/2°

200

400

600

Operations Name: <u>JEFFERSON NATL FOREST\_VP2731</u>
Permit #: \_\_\_2994 \_\_\_\_\_SC-48\_

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: \_DEN/TMP/GR

Did log disclose vertical location of a coal seam? Yes \_\_\_ No \_X\_

SURVEY RESULTS

DEPTH \_DIRECTION/DISTANCE/DEGREES \_\_\_ DEPTH \_DIRECTION/DISTANCE/DEGREES

OF SURVEY \_\_\_ FROM TRUE VERTICAL \_\_\_ OF SURVEY \_\_\_ FROM TRUE VERTICAL

CASING AND TUBING

Conductor	SIZE TOP	воттом	LENGTH	CEMENT USED (IN CU/FT)	DATE CEMENTED	PACKERS OR BRIDGE PLUGS KIND SIZE SET AT
Surface	13 3/8"	35 '				
Water Protection Coal Protection	8 5/8"	754'	744'	250(295)	7-02-96	
Other Casing and Tubing Left in Well	4 1/2" 1 1/2"	4419' 4220'	4409'	260(328)	7-11-96	

Liners

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

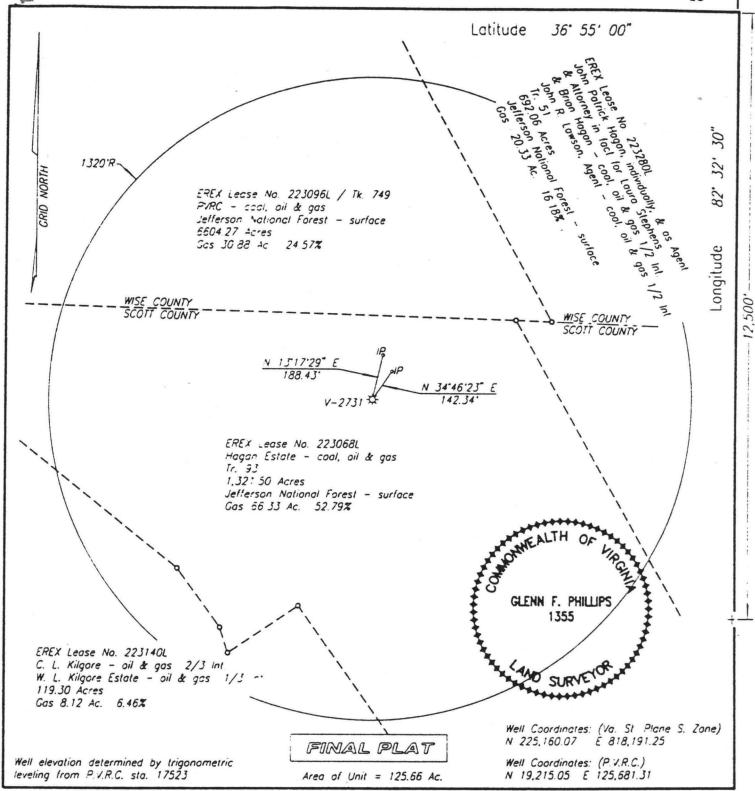
Operations Name: <u>JEFFERSON NATL FOREST\_VP2731</u>
Permit #: <u>2994 SC-48</u>

### DRILLER'S LOG

# Compiled by GEOLOGY

AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DE TOP	PTH BOTTOM	THICKNESS	REMARKS
PENNSYLVANIAN	SAND & SHALI	Ξ.		0	1220	1220	
MISSISSIPPI	RAVENCLIFF			1220	1358	138	
	SAND & SHALE			1358	1846	488	
	MAXON SANDS	5		1846	2002	156	
	SAND & SHALE	:		2002	2298	296	
	LITTLE LIME			2298	2380	82	
	BIG LIME			2380	3071	691	
	BORDEN (WEIF	₹)		3071	3476	405	
	COFFEE SHALI	E		3476	3566	90	
	BEREA			3566	3604	38	
DEVONIAN	SHALE			3604	4322	718	
	WHITE SLATE			4322	4473	151	
	LOGGER'S TO	TAL DEPTH			4473		

	EQUITABLE RESOURCES EXPLORATION	(Company)
Ву:	ten P. Kuskon	(Signature)



WELL LOCATION PLAT

COMPANY <u>Equitable Resources Exploration</u>	WELL NAME AND NUMBER V-2731
TRACT NO. Tr. 93 ELEVATION 2991	.16 QUADRANGLE Wise
COUNTY Scott DISTRICT Floyd	SCALE $1'' = 400'$ DATE $7-19-1996$
This Plat is a new plat; or _odated plat;	
Denotes the location of a well on United States	
7 24,000, latitude and longitude lines being repre	sented by border lines as shown.
Dla FAballys	
Of There	

Licensed Professional Engineer or Licensed Land Surveyor