

WS-441

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

Operations Name: Turkey Gap Coal Co. VP 2727
Permit #: 2793

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: 11-25-94 Total Depth of Well: LTD=4794 DTD=4790

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: N₂ Gas
w/955700 SCF N₂
Perforated: 4417 TO 4572 No. of Perforations: 26 Perforation Size: 3 1/8 HSC
Formation Broke Down at: N/A PSIG Average Injection Rate: 83600 SCFM
ISIP 2132 PSIG 5 MIN SIP 1894 PSIG Average Injection Pressure 3559 PSIG
Date Stimulated 11-17-94

Zone 2: Cleveland Shale/Berea Formation Stimulated With: N₂ Gas
w/961900 SCF
Perforated: 3859 TO 3958 No. of Perforations: 18 Perforation Size: 3 1/8 HSC
Formation Broke Down at: N/A PSIG Average Injection Rate: 84000 SCFM
ISIP 1458 PSIG 5 MIN SIP 1293 PSIG Average Injection Pressure 3386 PSIG
Date Stimulated 11-17-94

Zone 3: Big Lime Formation Stimulated With: 50Q Foamed Acid
w/4000 Gal 15% Acid - 240,000 SCF N₂ - 361 BF
Perforated: 3016 TO 3235 No. of Perforations: 7 Perforation Size: .34"
Formation Broke Down at: 700 PSIG Average Injection Rate: 14 BPM
ISIP 1098 PSIG 5 MIN SIP 718 PSIG Average Injection Pressure 1473 PSIG
Date Stimulated 11-17-94

FINAL PRODUCTION: Natural After Stimulation
BOB MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED
Zone (1) _____
Zone (2) _____
Zone (3) _____
Final Production if Gas Zones are Comingled 1331 MCFD 6 Hours Tested 510 PSIG 48 Hours Tested

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)
By: [Signature] (Signature)

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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VP2727 in the Gladeville District of the Wise County, Virginia on 14th day, December month, 1994.

LOCATION

County: Wise District: Gladeville
Surface Elevation: 3090.85 Elevation of Kelly Bushing: 3100.85 Quadrangle: Wise
10200 FT. S. of Latitude 36°55'00" and 7200 FT. W. of Longitude 82°30'00"

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

DRILLING DATA

Date Drilling Commenced: 11-03-94 Drilling Contractor: Union Drilling
Date Drilling Completed: 11-09-94 Rig Type: Rotary Cable Tool
Total Depth of Well: LTD=4794 DTD=4790

GEOLOGICAL DATA

Fresh Water at: 255 Feet 1" Stream ~~XGRK~~ 712 Feet 1 1/2" Stream ~~XGRK~~
494 Feet 1 1/2" Stream ~~XGRK~~ _____ Feet _____ GPM
Salt Water at: _____ Feet _____ GPM _____ Feet _____ GPM
_____ Feet _____ GPM _____ Feet _____ GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
	208	211	3			
	380	383	3			

GAS AND OIL SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
	3043	3292		133MCFD		
		3166		84MCFD		
	3417	3756/3817/3974		119MCFD		
	3880	4564/4790		103MCFD		

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Cuttings or samples are X are not ___ 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: CDL/TLT/UGR

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

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
210	3/4°		
299	3/4°		
381	1°		
494	1/2°		
712	1/4°		
912	1/2°		

CASING AND TUBING

	SIZE	TOP	BOTTOM	LENGTH	CEMENT USED IN CU/FT	DATE CEMENTED	PACKERS OR BRIDGE PLUGS KIND SIZE SET AT
<u>Conductor</u>	11 3/4"		30'				
<u>Surface</u>							
<u>Water Protection</u>	8 5/8"		1068'	1058'	399(525)	11-5-94	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		4711' 4565'	4701'	445(574)	11-9-94	

Liners

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

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DRILLER'S LOG

Compiled by Geology

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
Pennsylvanian	Sand, Shale & Thin Coals			0	1480	1480	
Mississippian	Ravencliff			1480	1570	90	
	Sand & Shale			1570	1922	352	
	Maxon Sands			1922	2205	283	
	Sand & Shale			2205	2590	385	
	Big Lime		-167	2590	3258	668	
	Weir			3258	3719	461	
	Coffee Shale			3719	3795	76	
	Berea		-704	3795	3895	100	
Devonian	Shale			3895	4390	495	
	Lower Huron			4390	4573	183	
	White Slate			4573	4794	221	
	Logger's Total Depth			4794			

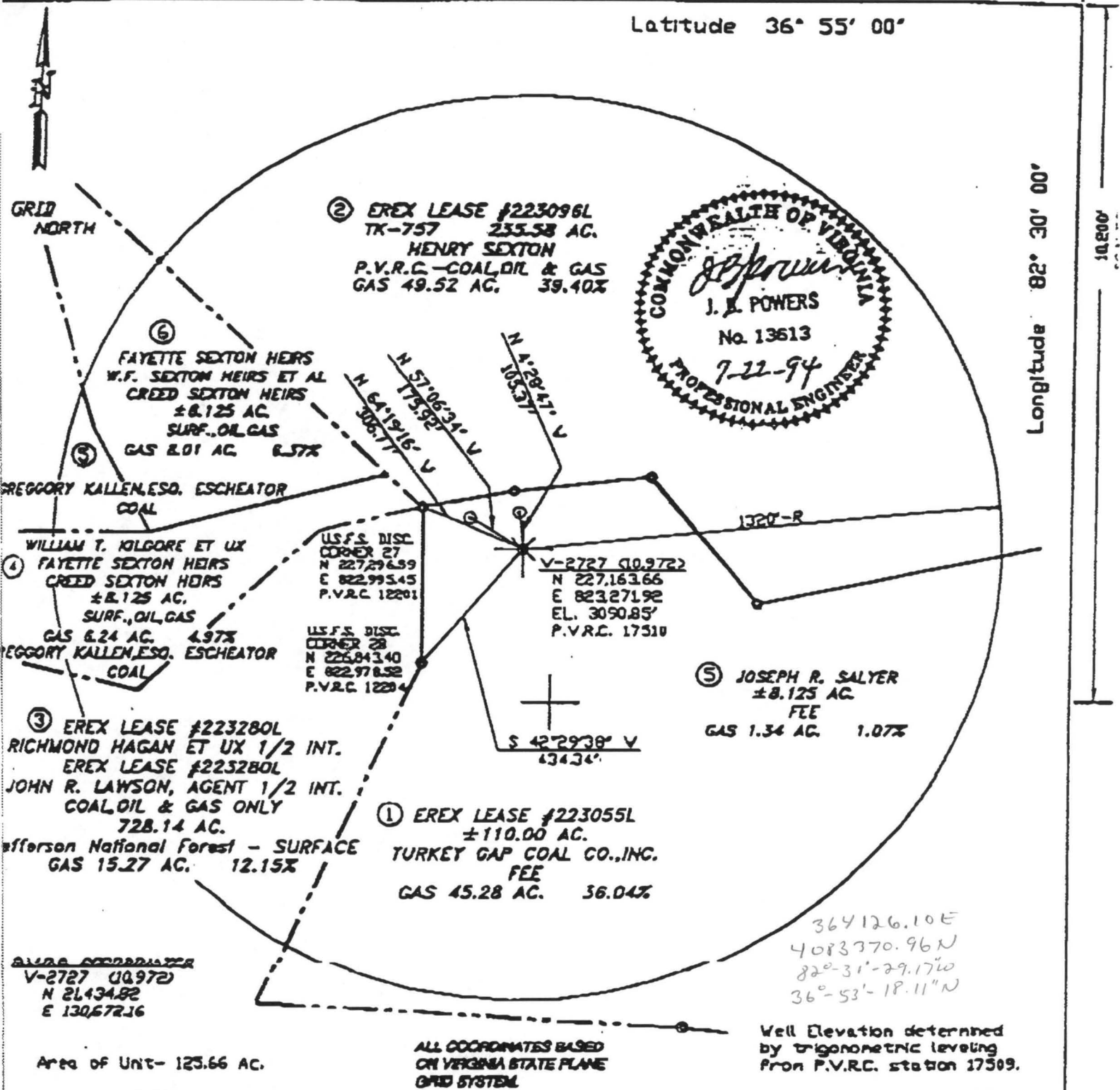
Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: *Yester P. Puckett* (Signature)

SCALED
7200'

Latitude 36° 55' 00"

Longitude 82° 30' 00"



WELL LOCATION PLAT

9-E-84

Company EQUITABLE RESOURCES EXPLORATION Well Name and Number V-2727 (10972)
 Tract No. _____ Elevation 3090.83' Quadrangle WISE
 County WISE District GRADEVILLE Scale: 1" = 400' Date 07/22/94

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 respresented by border lines as shown.