

Comb-8-2193

D1-686

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

Operations Name: TARPON COAL COKE CO. V2817

Permit #: 2338

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



ENTERED
COMPLETE REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 5-23-93 Total Depth of Well: LTD=2126' DTD=2602'

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: _____ 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 _____

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 _____ 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: Natural After Stimulation

	BOD	MCFD	HOURS TESTED	ROCK PRESSURE	HOURS TESTED
Zone (1) <u>RAVENCLIFF</u>		<u>189</u>	<u>6</u>	<u>N/A</u>	<u>48</u>
Zone (2)					
Zone (3)					

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)

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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well V2817 in the WILLIS District of the DICKENSON County, Virginia on 2ND day, AUGUST month, 19 93.

LOCATION

County: DICKENSON District: WILLIS
Surface Elevation: 1808.18' Elevation of Kelly Bushing: Quadrangle: CLINTWOOD
8120 FT. S. of Latitude 37° 12' 30" and 540 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: 5-17-93 Drilling Contractor: UNION DRILLING
Date Drilling Completed: 5-23-93 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD=2126 DTD=2132

GEOLOGICAL DATA

Fresh Water at:	<u>120</u>	Feet	<u>DAMP</u>	<u>GPM</u>	<u>604</u>	Feet	<u>DAMP</u>	<u>GPM</u>
	<u>540</u>	Feet	<u>1/4"STREAM</u>	<u>GPM</u>	<u>845</u>	Feet	<u>1/2"STREAM</u>	<u>GPM</u>
Salt Water at:	<u> </u>	Feet	<u> </u>	<u>GPM</u>	<u> </u>	Feet	<u> </u>	<u>GPM</u>
	<u> </u>	Feet	<u> </u>	<u>GPM</u>	<u> </u>	Feet	<u> </u>	<u>GPM</u>

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>
	<u>192</u>	<u>194</u>	<u>2</u>		<u>X</u>	
	<u>473</u>	<u>477</u>	<u>4</u>			
	<u>781</u>	<u>784</u>	<u>3</u>			
	<u>1268</u>	<u>1270</u>	<u>2</u>			
	<u>1277</u>	<u>1280</u>	<u>3</u>			

GAS AND OIL SHOWS:

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>IPF (MGFD/BOPD)</u>	<u>PRESSURE</u>	<u>HOURS TESTED</u>
		<u>2566/2576</u>		<u>103M</u>		
		<u>2582</u>		<u>133M</u>		

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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: SLD/TEMP/GR

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
200	1/4°	1864	1°
416	3/4°	2053	1°
604	1/2°		
825	1°		
1046	1/4°		
1280	1°		
1473	1 1/4°		
1665	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>	16"		30'	20'			
<u>Surface</u>	11 3/4"		451'	441'	232(274)	5-18-93	
<u>Water Protection</u>	8 5/8"		2092'	2082'	316(534)	5-22-93	
<u>Coal Protection</u>					85(100)	5-22-93	

Other Casing
and Tubing Left in Well

Liners

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

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DRILLER'S LOG

Compiled by GEOLOGY

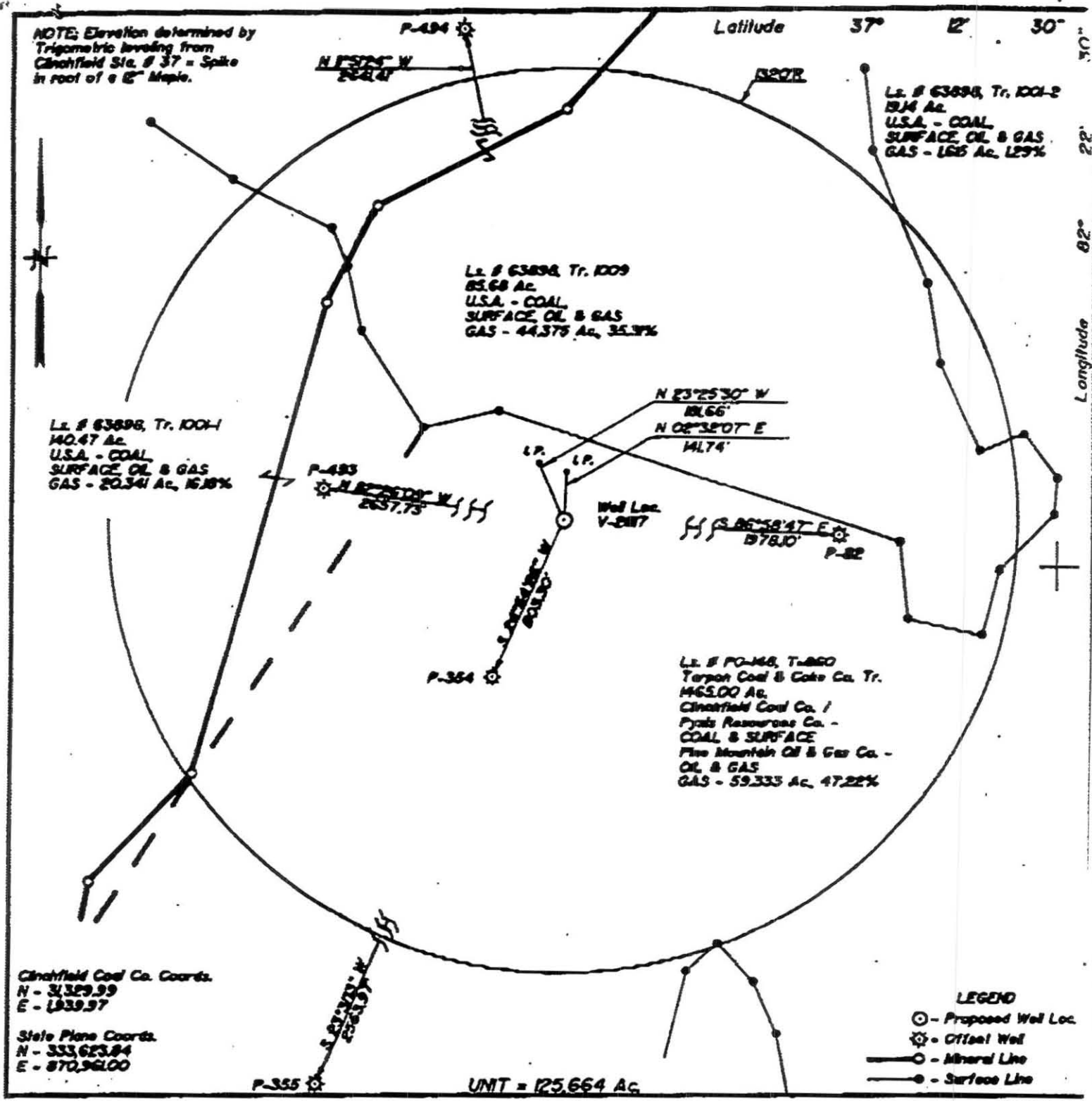
GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
PENNSYLVANIAN	SAND & SHALE & NORTON			0	1137	1137	
	LEE SANDS			1137	1712	575	
MISSISSIPPIAN	POCAHONTAS			1712	2065	353	
	BLUEFIELD			2065	2126	61	

LOGGER'S TOTAL DEPTH

2126

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Susan A Foster (Signature)



WELL LOCATION PLAT

Company Equitable Resources Exploration Well Name and Number V-2817
 Tract No. T-860 Elevation 1808.18 Quadrangle Clinchwood
 County Dickenson District Wills Scale: "=400' Date 12/18/19:

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 longitude lines being represented by borderlines as shown.

[Handwritten Signature]



(Affix Seal)