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DD 732

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

Operations Name: James R. Counts VCP 2976  
Permit #: 2657

REVISED TO SHOW  
DIRECTIONAL SURVEY RESULTS

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 X or Injection \_\_\_ well

Date Well Completed: 8-4-94 Total Depth of Well: LTD=2510 DTD=2509

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: 70 Q Foam  
w/15500# 12/20 sand - 716,800 SCF N<sub>2</sub> - 1959 BF

Perforated: 1180.5 TO 1918 No. of Perforations: 15 Perforation Size: .34"

Formation Broke Down at: 1220 PSIG Average Injection Rate: 12.7 BPM (42 DH)

ISIP 2100 PSIG 5 MIN SIP 1827 PSIG Average Injection Pressure 3818 PSIG

Date Stimulated 8-4-94

\*U. Seaboard "A", U. Seaboard, Greasy Creek, M. Seaboard, U. Horsepen, Warcreek, L. Horsepen

X-Seam, Poco #9

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 \_\_\_\_\_ X After Stimulation  
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

Zone (1) \_\_\_\_\_

Zone (2) \_\_\_\_\_

Zone (3) \_\_\_\_\_

Final Production if Gas Zones are Commingled 45 MCFD 6 Hours Tested 222 PSIG 48 Hours Tested

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph R. Counts (Signature)

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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VCP2976 in the Sand Lick District of the Dickenson County, Virginia on 18th day, August month, 1994.

LOCATION

County: Dickenson District: Sand Lick  
Surface Elevation: 2170.01 Elevation of Kelly Bushing: 2180.01 Quadrangle: Nora  
5395 FT. S. of Latitude 37°07'30" and 13550 FT. W. of Longitude 82°15'00"

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

DRILLING DATA

Date Drilling Commenced: 7-18-94 Drilling Contractor: Union Drilling  
Date Drilling Completed: 7-21-94 Rig Type: X Rotary     Cable Tool  
Total Depth of Well: LTD=2510 DTD=2509

GEOLOGICAL DATA

Fresh Water at: 110 Feet Damp ~~GPM~~     Feet     GPM  
    Feet     GPM     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
Greasy Creek	1359	1361	2			
L. Horsepen	1825	1828	3			

GAS AND OIL SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
		2266		ODOR		

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 X No    

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
158	1/4°	1359	3/4°
198	1/4°	1537	3/4°
398	1/2°	1646	3/4°
598	1/2°	1795	3/4°
797	3/4°	1866	3/4°
967	3/4°	2066	1°
1167	1°	2266	1°
1180	1°		

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>	13 3/8"		37'				
<u>Surface</u>							
<u>Water Protection</u>	8 5/8"		308'		110(130)	7-18-94	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2459' 2066'	2449'	519(670)	7-21-94	

Liners

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

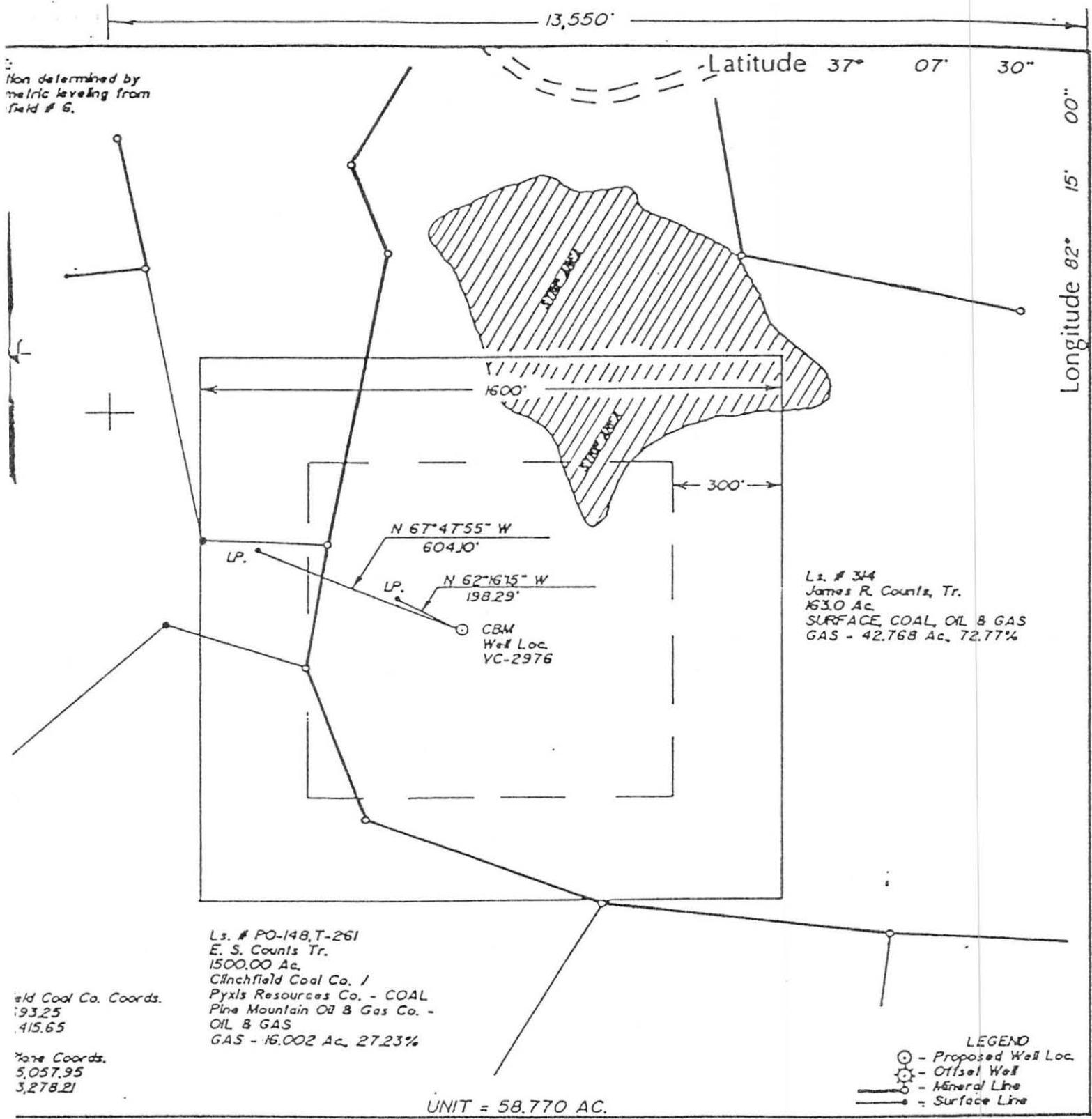
DRILLER'S LOG

Compiled by Engineering

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
sylvanian	Sand, Shale & Thin Coals			0	1359	1359	
	Greasy Creek Coal			1359	1361	2	
	Sand, Shale & Thin Coals			1361	1825	464	
	Lower Horsepen Coal			1825	1828	3	
	Sand, Shale & Thin Coals			1828	2510	682	
	Logger's Total Depth				2510		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. [Signature] (Signature)



Field Coal Co. Coords.  
 193.25  
 415.65

None Coords.  
 5,057.95  
 3,278.21

Company Equitable Resources Exploration Well Name and Number VC-2976

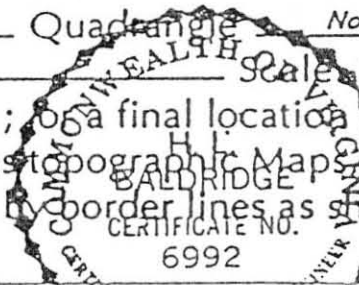
No. Ls. # 314 Elevation 2170.01 Quadrangle Nora

County Dickenson District Sand Lick Scale 1"=400' Date 02-02-94

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 border lines as shown.

M. L. Baldridge



(Affix Seal)