

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

Operations Name: JAMES DUNN VAC2024
Permit #: 2048

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: 9-1-92 Total Depth of Well: LTD=2702 DTD=2721

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: MULTIPLE COAL SEAMS* Formation Stimulated With: 70 Q FOAM
W/18746# 12/20 SAND - 1056900 SCF N2 - 793 BF

Perforated: 1934.5 TO 2563 No. of Perforations: 15 Perforation Size: .34"
Formation Broke Down at: 1364 PSIG Average Injection Rate: 16.7 BPM (54 DH)
ISIP 2100 PSIG 5 MIN SIP 1836 PSIG Average Injection Pressure 3656 PSIG
Date Stimulated 9-1-92

*U. HORSEPEN, WARCREEK, UNNAMED "C", L. HORSEPEN, S-XEAM, POCO #4

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) _____
Zone (2) _____
Zone (3) _____

Final Production if Gas Zones are Commingled 12 MCFD 6 Hours Tested 320 PSIG 48 Hours Tested

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

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: C. C. Aray (Signature)



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DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VAC2024 in the LIPPS District of the WISE County, Virginia on 1ST day, OCTOBER month, 19 92.

LOCATION

County: WISE District: LIPPS
Surface Elevation: 2583.86 Elevation of Kelly Bushing: 2593.86' Quadrangle: COEBURN
160 FT. S. of Latitude 37° 00' 00" and 3680 FT. W. of Longitude 82° 27' 30"

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

DRILLING DATA

Date Drilling Commenced: 8-19-92 Drilling Contractor: UNION DRILLING
Date Drilling Completed: 8-24-92 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD=2702 DTD=2721

GEOLOGICAL DATA

Fresh Water at:	<u>260</u>	Feet <u>1/4"STREAM</u>	<u>GPM</u>	<u>1565</u>	Feet <u>DAMP</u>	<u>GPM</u>
	<u>781</u>	Feet <u>1/4"STREAM</u>	<u>GPM</u>		Feet	<u>GPM</u>
Salt Water at:		Feet	<u>GPM</u>		Feet	<u>GPM</u>
		Feet	<u>GPM</u>		Feet	<u>GPM</u>

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
GREASY CREEK	1687	1689	2			
UNNAMED "A"	1885	1887	2			
UNNAMED "C"	2095	2097	2			
L. HORSEPEN	2194	2196	2			
X-SEAM	2242	2246	4			
POCO #6	2560	2563	3			

GAS AND OIL SHOWS: NONE REPORTED

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

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
204	1/4°	1851	3/4°
448	1/2°	2006	1°
664	1/2°	2224	1°
822	1/2°	2440	1°
1040	1/2°	2627	1°
1230	1/2°		
1447	1/2°		
1666	3/4°		

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"		30'	20'			
<u>Surface</u>	8 5/8"		319'	309'	110(130)	8-21-92	
<u>Water Protection</u>	4 1/2"		2698'	2688'	576(743)	8-24-92	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	2 3/8"		2007.6'				

Liners

REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.
 8-19-92 LOST BIT; FISHED FOR TOOLS ON 8-29-92.

DRILLER'S LOG

Compiled by ENGINEERING

GEOLOGIC AGE	FORMATION	GENERAL LITHOLOGY	COLOR	DEPTH		THICKNESS	REMARKS
				TOP	BOTTOM		
ENNSYLVANIAN	SAND, SHALE & THIN COALS			0	1687	1687	
	GREASY CREEK COAL			1687	1689	2	
	SAND, SHALE & THIN COAL			1689	1885	196	
	UNNAMED "A" COAL			1885	1887	2	
	SAND, SHALE & THIN COAL			1887	2095	208	
	UNNAMED "C" COAL			2095	2097	2	
	SAND, SHALE & THIN COAL			2097	2194	97	
	LOWER HORSEPEN COAL			2194	2196	2	
	SAND, SHALE & THIN COAL			2196	2242	46	
	X-SEAM COAL			2242	2246	4	
	SAND, SHALE & THIN COAL			2246	2560	314	
	POCO #6 COAL			2560	2563	3	
ISSISSIPPIAN	SAND, SHALE & THIN COAL			2563	2670	107	
	RED ROCK, SAND & SHALE			2670	2702	32	
LOGGER'S TOTAL DEPTH					2702		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Duny (Signature)

3,680'

Latitude

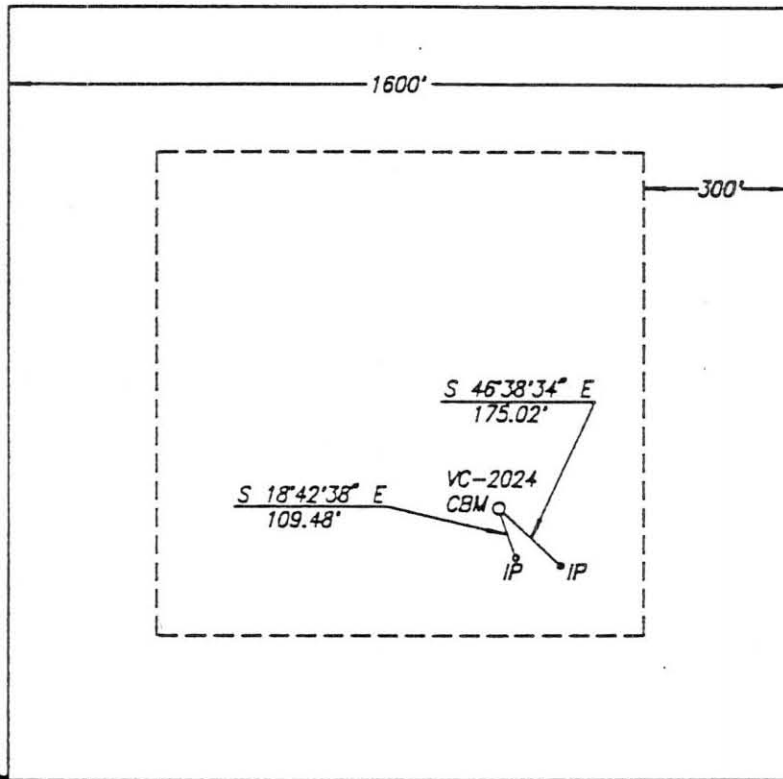
37° 00' 00"

160'

Lease No. PO-148 / T-889
James Dunn
2115.3 Acres
Clinchfield Coal Company /
Pyxis Resources Company - surface & coal
Pine Mountain Oil & Gas, Inc. - oil & gas

82° 27' 30"

Longitude



Well elevation determined by trigonometric leveling from BM MLB 1576

Area of Unit = 58.77 Ac.

Well Coordinates: (Clinchfield Coal Co.)
S 36,533.74 W 25,499.06

WELL LOCATION PLAT

COMPANY Equitable Resources Exploration WELL NAME AND NUMBER VC-2024
TRACT NO. PO-148 / T-889 ELEVATION 2583.86 QUADRANGLE Coeburn
COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 6-12-1992

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.

Glen F. Phillips

~~Licensed Professional Engineer or Licensed Land Surveyor~~