

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

JAN 1997
RECEIVED
DIVISION OF
GAS & OIL

COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 9-20-96 Total Depth of Well: LTD = 2906 DTD = 2909

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: 70Q FOAM
W/100900# 12/20 SAND - 681000 SCF N2 - 450 BF
Perforated: 2509.5 to 2763 No. of Perforations: 16 Perforation size: .34
Formation Broke Down at: 2363 PSIG Average Injection Rate: 15 (40 DH) BPM
ISIP: 1369 PSIG 5 Min SIP: 1273 PSIG Average Injection Pressure: 3296
Date Stimulated: 9-20-96

* POCO# 7, POCO #7 RIDER, POCO #5, POCO #5 RIDER, POCO #2

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:
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:
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 31 MCFD 6 Hours Tested 600 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 P. [Signature] (Signature)

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-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VC3604 in the LIPPS District of the WISE County, Virginia on 13TH day, JANUARY month, 19 97.

LOCATION

County: WISE District: LIPPS
 Surface Elevation: 2677.5 Elevation of Kelly Bushing: 2687.5 Quadrangle: COEBURN
5100 FT S. of Latitude 37° 00' 00" and 4680 FT W. of Longitude 82° 25' 00"

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

DRILLING DATA

Date Drilling Commenced: 09-09-96 Drilling Contractor: Union Drilling
 Date Drilling Completed: 09-14-96 Rig Type: Rotary Cable Tool
 Total Depth of Well: LTD=2906 DTD=2909

GEOLOGICAL DATA

Fresh Water at:	510	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	YES	MINING IN AREA	
					NO	MINED OUT
U SEABOARD	1570	1573	3			
BECKLEY	2193	2195	2			
L HORSEPEN	2248	2250	2			
X-SEAM	2294	2296	2			
POCO #5 RIDER	2640	2642	2			

GAS AND OIL SHOWS:

<u>FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>IPF (MCFD/BOPD)</u>	<u>PRESSURE</u>	<u>HOURS TESTED</u>
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Cuttings or samples are are not available for examination by a member of the Virginia Division of Mineral Resources
 Cuttings or samples have have not 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

SURVEY RESULTS

DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL	DEPTH OF SURVEY	DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL
200	1/4°	1563	1°
400	1°	1763	1°
600	3/4°	1963	2°
800	3/4°	2081	2°
990	1°	2165	3/4°
1037	1°	2365	1°
1154	1°	2498	3/4°
1265	1°	2693	1°
1465	1°	2754	1°

CASING AND TUBING

	<u>SIZE</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>LENGTH</u>	<u>CEMENT USED (IN CU/FT)</u>	<u>DATE CEMENTED</u>	<u>PACKERS OR BRIDGE PLUGS KIND SIZE SET AT</u>
<u>Conductor</u>							
<u>Surface</u>	11 3/4"		38'				
<u>Water Protection</u>	8 5/8"		595'	595'	150(177)	09-10-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 1 1/2"		2868' 2802'	2858'	404(509)	09-14-96	

Liners

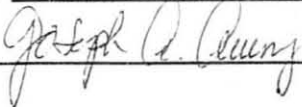
REMARKS: Shut down, fishing jobs, depths and dates, caving, lost circulation, etc.
 OPEN MINE @ 513'; LOST CIRC @ 515'

DRILLER'S LOG

Compiled by Engineering

<u>AGE</u>	<u>FORMATION</u>	<u>GENERAL LITHOLOGY</u>	<u>COLOR</u>	<u>DEPTH</u>		<u>THICKNESS</u>	<u>REMARKS</u>
				<u>TOP</u>	<u>BOTTOM</u>		
Pennsylvanian	Sand, Shale & Thin Coals			0	1570	1570	
	U SEABOARD			1570	1573	3	
	Sand, Shale & Thin Coals			1573	2193	620	
	BECKLEY			2193	2195	2	
	Sand, Shale & Thin Coals			2195	2248	53	
	L HORSEPEN			2248	2250	2	
	Sand, Shale & Thin Coals			2250	2294	44	
	X-SEAM			2294	2296	2	
	Sand, Shale & Thin Coals			2296	2640	344	
	POCO #5 RIDER			2640	2642	2	
Sand, Shale & Thin Coals			2642	2906	264		
	Logger's Total Depth				2906		

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By:  (Signature)

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Salt Water at:		feet		GPM	feet	GPM
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COAL SEAMS:

MINING IN AREA

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>THICKNESS</u>	<u>YES</u>	<u>NO</u>	<u>MINED OUT</u>
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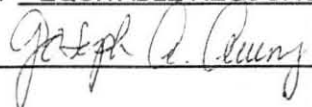
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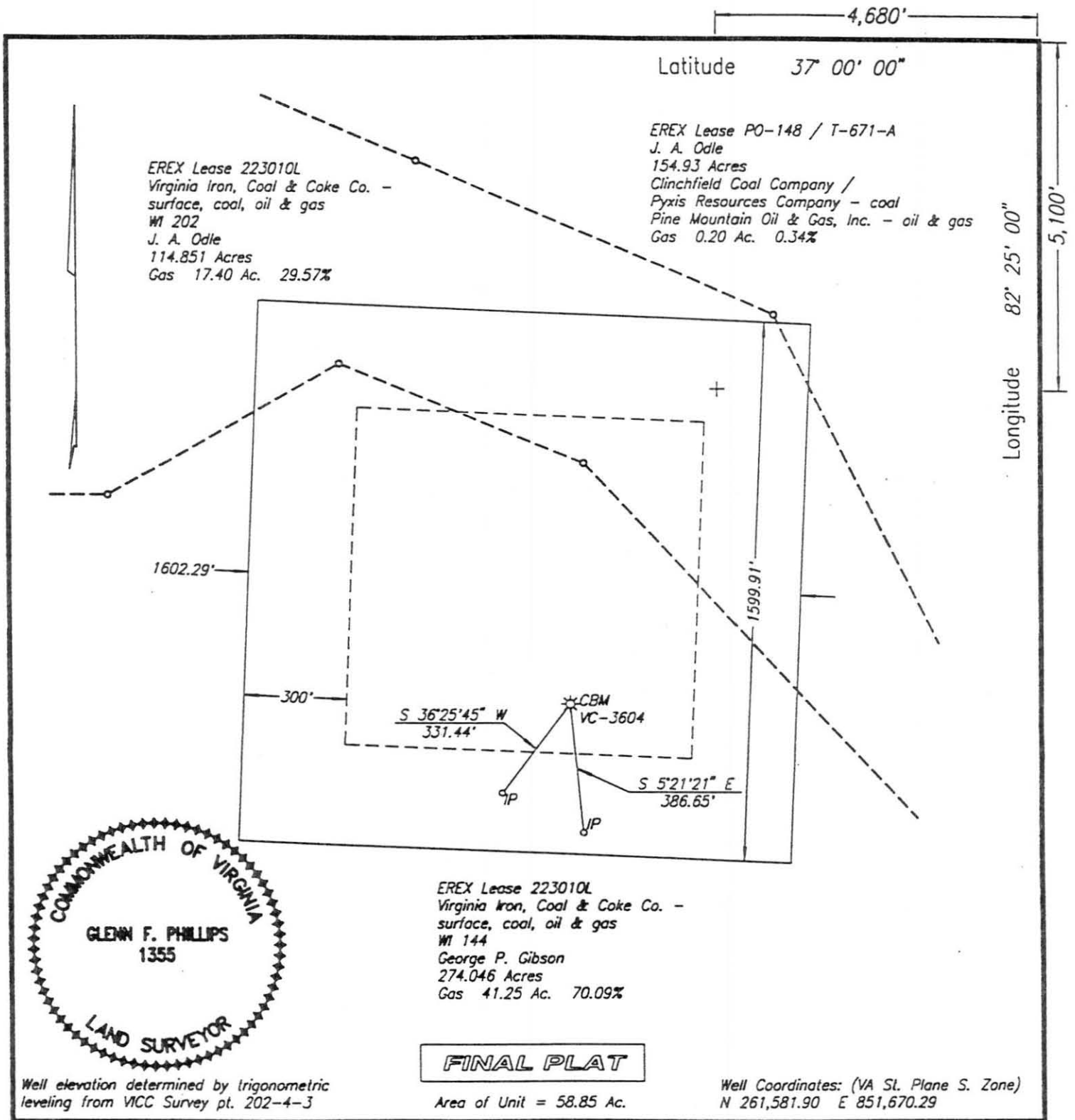
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By:  (Signature)



EREX Lease 223010L
 Virginia Iron, Coal & Coke Co. -
 surface, coal, oil & gas
 WI 144
 George P. Gibson
 274.046 Acres
 Gas 41.25 Ac. 70.09%

FINAL PLAT

Well elevation determined by trigonometric leveling from VCC Survey pt. 202-4-3

Area of Unit = 58.85 Ac.

Well Coordinates: (VA St. Plane S. Zone)
 N 261,581.90 E 851,670.29

WELL LOCATION PLAT

COMPANY Equitable Resources Energy Company WELL NAME AND NUMBER VC-3604
 TRACT NO. WI 144 ELEVATION 2673.14 QUADRANGLE Coeburn
 COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 11-14-1996

This Plat is a new plat ___; an updated plat ___; or a final location plat x

+ 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.

Glenn F. Phillips

Licensed Professional Engineer or Licensed Land Surveyor