

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

Operations Name: S HORN VC3553
Permit #: 3044 WS-478

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: 4-29-96 Total Depth of Well: LTD = 2755 DTD = 2750

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/24685# 10/20 SAND - 1,115,900 SCF N2 - 848 BF
 Perforated: 1704 to 2607 No. of Perforations: 17 Perforation size: .34
 Formation Broke Down at: 2064 PSIG Average Injection Rate: 36 (DH) BPM
 ISIP: 1728 PSIG 5 Min SIP: 1680 PSIG Average Injection Pressure: 3710
 Date Stimulated: 4-29-96

* GREASY CREEK, UNNAMED "B", M.HORSEPEN, WARCREEK, L HORSEPEN, X-SEAM RIDER, X-SEAM, POCO #9, POC #7, POCO #5

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 71 MCFD 6 Hours Tested 400 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. Cherry (Signature)

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

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Permit #: 3044 WS-478

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Division of Gas and Oil
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703/676-5423

DRILLING REPORT

Pursuant to VR-480-05-22.1, § 1.36, the undersigned Permittee submits this report on Well VC3553 in the LIPPS District of the WISE County, Virginia on 14th day, JUNE month, 19 96.

LOCATION

County: WISE District: LIPPS
Surface Elevation: 2706.00 Elevation of Kelly Bushing: 2716.00 Quadrangle: COEBURN
3590 FT S. of Latitude 37° 00' 00" and 8250 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: 04-19-96 Drilling Contractor: Union Drilling
Date Drilling Completed: 04-23-96 Rig Type: Rotary Cable Tool
Total Depth of Well: LTD=2755 DTD=2750

GEOLOGICAL DATA

Fresh Water at:	71	feet	DAMP	GPM	feet	GPM
		feet		GPM	feet	GPM
Salt Water at:		feet		GPM	feet	GPM
		feet		GPM	feet	GPM

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>
UPPER SEABOARD COAL	1555	1557	2			
LOWER HORSEPEN COAL	2227	2229	2			
X SEAM COAL	2268	2270	2			
POCO #7 COAL	2494	2497	3			
POCO #5 COAL	2604	2607	3			

GAS AND OIL SHOWS: NONE REPORTED

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

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 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

<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>	<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>
219	3/4°	1782	3/4°
414	1/4°	1982	3/4°
711	1°	2113	3/4°
911	1°	2182	1°
1111	1°	2225	1°
1148	1°	2368	1°
1274	3/4°	2608	1°
1348	1/2°	2700	1°
1548	1/4°		

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"		30'				
<u>Water Protection</u>	7'		585'	575'	90(106)	04-20-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2730' 2685'	2720'	280(353)	04-23-96	

Liners

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

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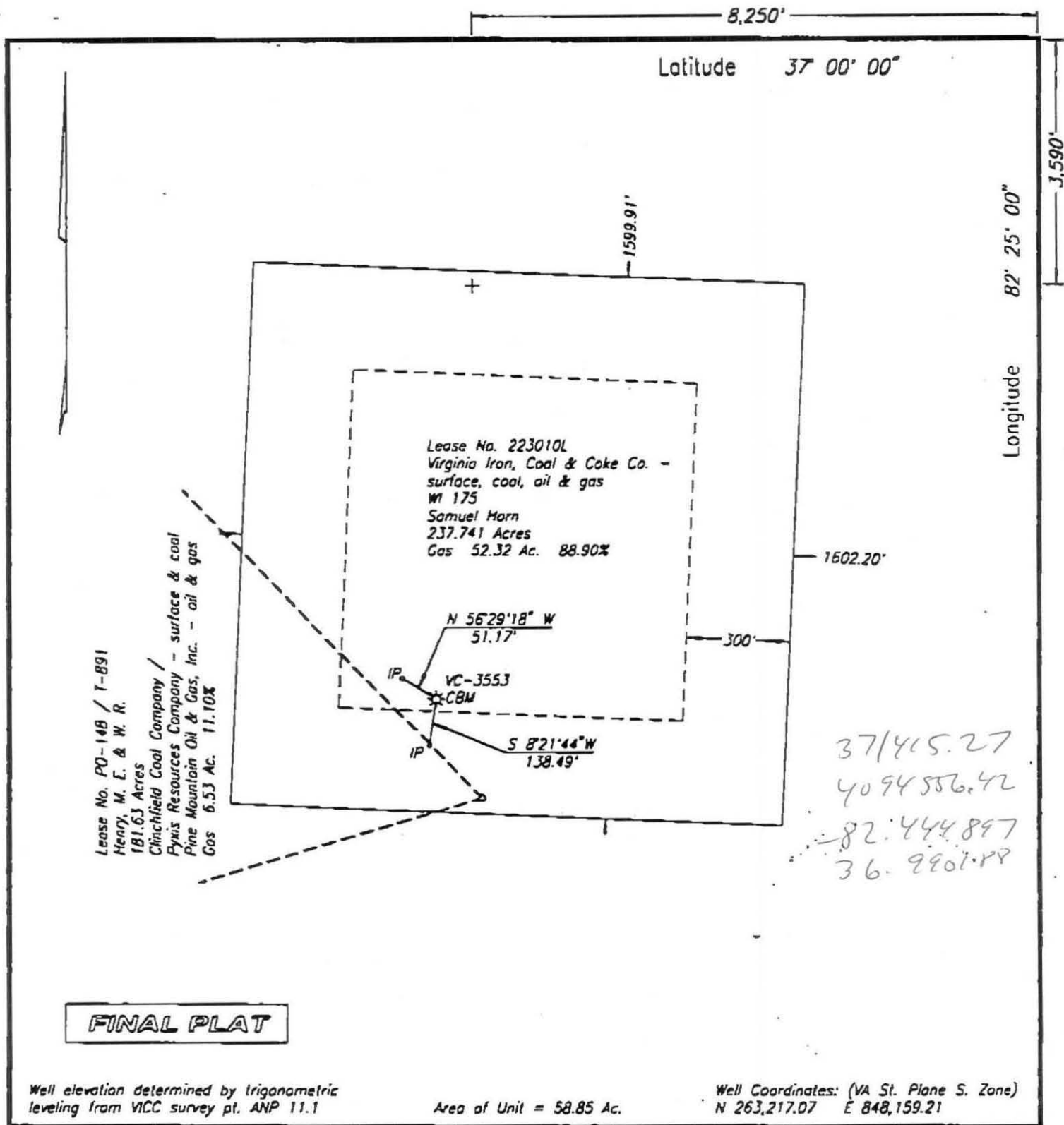
DRILLER'S LOG

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	1555	1555	
	UPPER SEABOARD COAL			1555	1557	2	
	Sand, Shale & Thin Coals			1557	2227	670	
	LOWER HORSEPEN COAL			2227	2229	2	
	Sand, Shale & Thin Coals			2229	2268	39	
	X SEAM COAL			2268	2270	2	
	Sand, Shale & Thin Coals			2270	2494	224	
	POCO #7 COAL			2494	2497	3	
	Sand, Shale & Thin Coals			2497	2604	107	
	POCO #5 COAL			2604	2607	3	
	Sand, Shale & Thin Coals			2607	2755	148	
	Logger's Total Depth				2755		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Avery (Signature)



WELL LOCATION PLAT

2-F-85

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC-3553
 TRACT NO. WI 175 ELEVATION 2700.08 QUADRANGLE Coeburn
 COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 5-7-1996

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.

John F. Phillips

Licensed Professional Engineer or Licensed Land Surveyor

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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/24685# 10/20 SAND - 1,115,900 SCF N2 - 848 BF

Perforated: 1704 to 2607 No. of Perforations: 17 Perforation size: 34
Formation Broke Down at: 2604 PSIG Average Injection Rate: 1.2 MGD
ISIP: 1728 PSIG Min SIP: 1000 PSIG Average Injection Pressure: 2710

Date Stimulated: 4-29-96

* GREASY CREEK, UNNAMED "B", M.HORSEPEN, WARCREEK, L HORSEPEN, X-SEAM RIDER, X-SEAM, POCO #9, POC #7, POCO #5

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 71 MCFD 6 Hours Tested 400 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 H. Cherry (Signature)

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LOCATION

County: WISE District: LIPPS
Surface Elevation: 2706.00 Elevation of Kelly Bushing: 2716.00 Quadrangle: COEBURN
3590 FT S. of Latitude 37°00'00" and 8250 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: 04-19-96 Drilling Contractor: Union Drilling
Date Drilling Completed: 04-23-96 Rig Type: Rotary Cable Tool
Total Depth of Well: LTD=2755 DTD=2750

GEOLOGICAL DATA

Fresh Water at:	71	foot	DAMP	GPM	foot	CPM
		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
UPPER SEABOARD COAL	1555	1557	2			
LOWER HORSEPEN COAL	2227	2229	2			
X SEAM COAL	2268	2270	2			
POCO #7 COAL	2494	2497	3			
POCO #5 COAL	2604	2607	3			

GAS AND OIL SHOWS: NONE REPORTED

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

<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>	<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>
219	3/4°	1782	3/4°
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1148	1°	2368	1°
1274	3/4°	2608	1°
1348	1/2°	2700	1°
1548	1/4°		

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"		30'				
<u>Water Protection</u>	7"		585'	575'	90(106)	04-20-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2730' 2685'	2720'	280(353)	04-23-96	

Liners

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

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COMPLETION REPORT

WELL TYPE: Oil Gas Coalbed Methane or Injection well

Date Well Completed: 4-29-96 Total Depth of Well: LTD = 2755 DTD = 2750

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/24685# 10/20 SAND - 1,115,900 SCF N2 - 848 BF

Perforated: 1704 to 2607 No. of Perforations: 17 Perforation size: .34

Formation Broke Down at: 2064 PSIG Average Injection Rate: 36 (DH) BPM

ISIP: 1728 PSIG 5 Min SIP: 1680 PSIG Average Injection Pressure: 3710

Date Stimulated: 4-29-96

* GREASY CREEK, UNNAMED "B", M.HORSEPEN, WARCREEK, L HORSEPEN, X-SEAM RIDER, X-SEAM, POCO #9, POC #7, POCO #5

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 71 MCFD 6 Hours Tested 400 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 W. Cherry (Signature)

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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 VC3553 in the LIPPS District of the WISE County, Virginia on 14th day, JUNE month, 1996.

LOCATION

County: WISE District: LIPPS
Surface Elevation: 2706.00 Elevation of Kelly Bushing: 2716.00 Quadrangle: COEBURN
3590 FT S. of Latitude 37°00'00" and 8250 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: 04-19-96 Drilling Contractor: Union Drilling
Date Drilling Completed: 04-23-96 Rig Type: Rotary Cable Tool
Total Depth of Well: LTD=2755 DTD=2750

GEOLOGICAL DATA

Fresh Water at:	71	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
UPPER SEABOARD COAL	1555	1557	2			
LOWER HORSEPEN COAL	2227	2229	2			
X SEAM COAL	2268	2270	2			
POCO #7 COAL	2494	2497	3			
POCO #5 COAL	2604	2607	3			

GAS AND OIL SHOWS: NONE REPORTED

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

<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>	<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREES FROM TRUE VERTICAL</u>
219	3/4°	1782	3/4°
414	1/4°	1982	3/4°
711	1°	2113	3/4°
911	1°	2182	1°
1111	1°	2225	1°
1148	1°	2368	1°
1274	3/4°	2608	1°
1348	1/2°	2700	1°
1548	1/4°		

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"		30'				
<u>Water Protection</u>	7'		585'	575'	90(106)	04-20-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2730' 2685'	2720'	280(353)	04-23-96	

Liners

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

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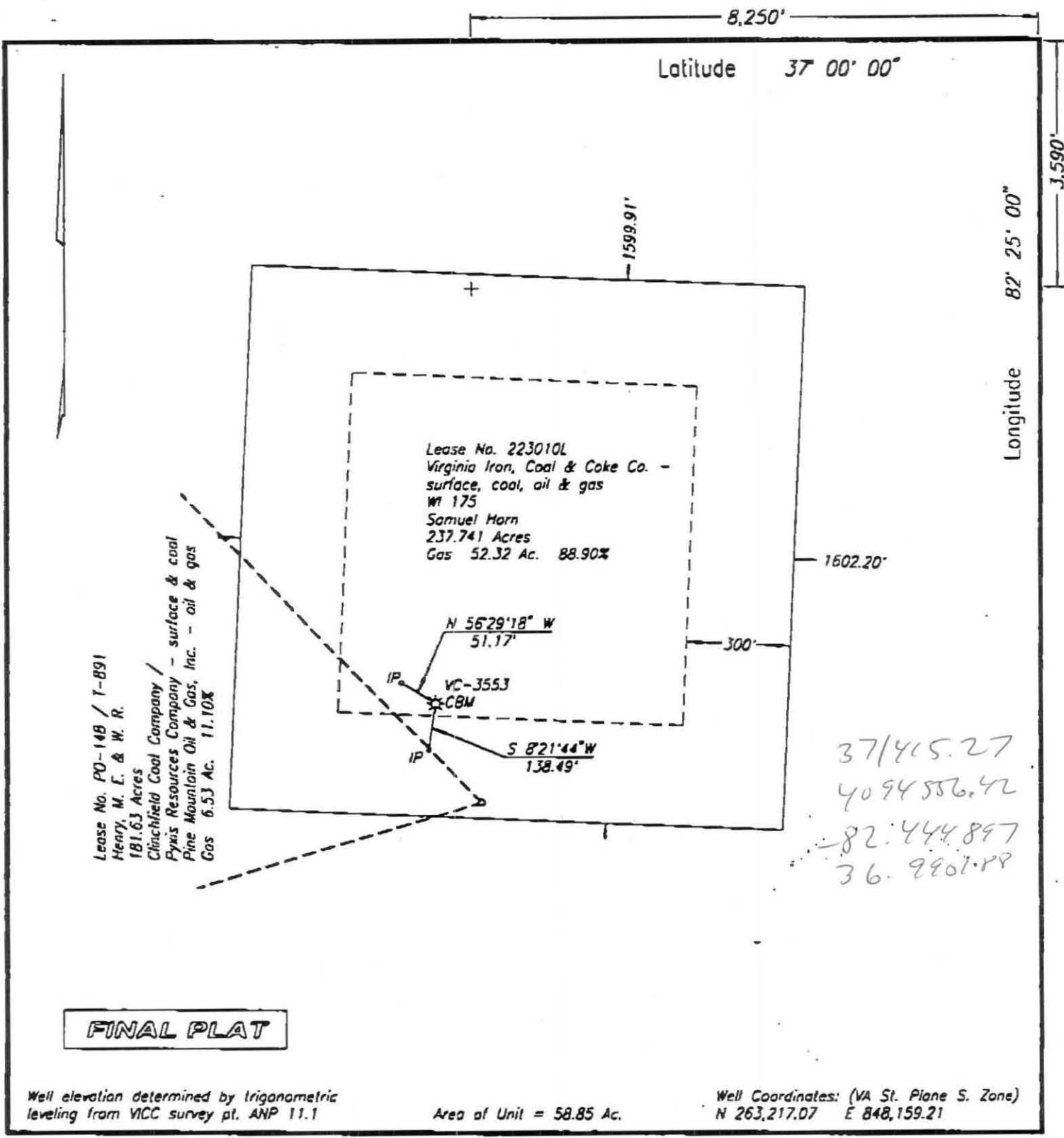
DRILLER'S LOG

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	1555	1555	
	UPPER SEABOARD COAL			1555	1557	2	
	Sand, Shale & Thin Coals			1557	2227	670	
	LOWER HORSEPEN COAL			2227	2229	2	
	Sand, Shale & Thin Coals			2229	2268	39	
	X SEAM COAL			2268	2270	2	
	Sand, Shale & Thin Coals			2270	2494	224	
	POCO #7 COAL			2494	2497	3	
	Sand, Shale & Thin Coals			2497	2604	107	
	POCO #5 COAL			2604	2607	3	
	Sand, Shale & Thin Coals			2607	2755	148	
	Logger's Total Depth				2755		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Avery (Signature)



FINAL PLAT

Well elevation determined by trigonometric leveling from VICC survey pt. ANP 11.1

Area of Unit = 58.85 Ac.

Well Coordinates: (VA St. Plane S. Zone)
N 263,217.07 E 848,159.21

WELL LOCATION PLAT

2-F-85

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC-3553
 TRACT NO. WI 175 ELEVATION 2700.08 QUADRANGLE Caeburn
 COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 5-7-1996

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.

John F. Phillips

Licensed Professional Engineer or Licensed Land Surveyor

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STIMULATION RECORD

Zone 1: COAL SEAMS* Formation Stimulated With: 70Q FOAM

W/24685# 10/20 SAND - 1,115,900 SCF N2 - 848 BF

Perforated: 1704 to 2607 No. of Perforations: 17 Perforation size: 3/4

ISIP: 1720 PSIG Min SIP: 1000 PSIG Average Injection Pressure: 2710

Date Stimulated: 4-29-96

* GREASY CREEK, UNNAMED "B", M.HORSEPEN, WARCREEK, L HORSEPEN, X-SEAM RIDER, X-SEAM, POCO #9, POC #7, POCO #5

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 71 MCFD 6 Hours Tested 400 PSIG 48 Hours Tested

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LOCATION

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3590 FT S. of Latitude 37°00'00" and 8250 FT W. of Longitude 82°25'00"

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Salt Water at:		feet		GPM	feet	GPM
		feet		GPM	feet	GPM

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>
UPPER SEABOARD COAL	1555	1557	2			
LOWER HORSEPEN COAL	2227	2229	2			
X SEAM COAL	2268	2270	2			
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GAS AND OIL SHOWS: NONE REPORTED

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

Operations Name: S HORN VC3553
 Permit #: 3044 WS-478

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
219	3/4°	1782	3/4°
414	1/4°	1982	3/4°
711	1°	2113	3/4°
911	1°	2182	1°
1111	1°	2225	1°
1148	1°	2368	1°
1274	3/4°	2608	1°
1348	1/2°	2700	1°
1548	1/4°		

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>							
<u>Surface</u>	11 3/4"		30'				
<u>Water Protection</u>	7"		585'	575'	90(106)	04-20-96	
<u>Coal Protection</u>							
<u>Other Casing and Tubing Left in Well</u>	4 1/2" 2 3/8"		2730' 2685'	2720'	280(353)	04-23-96	

Liners

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

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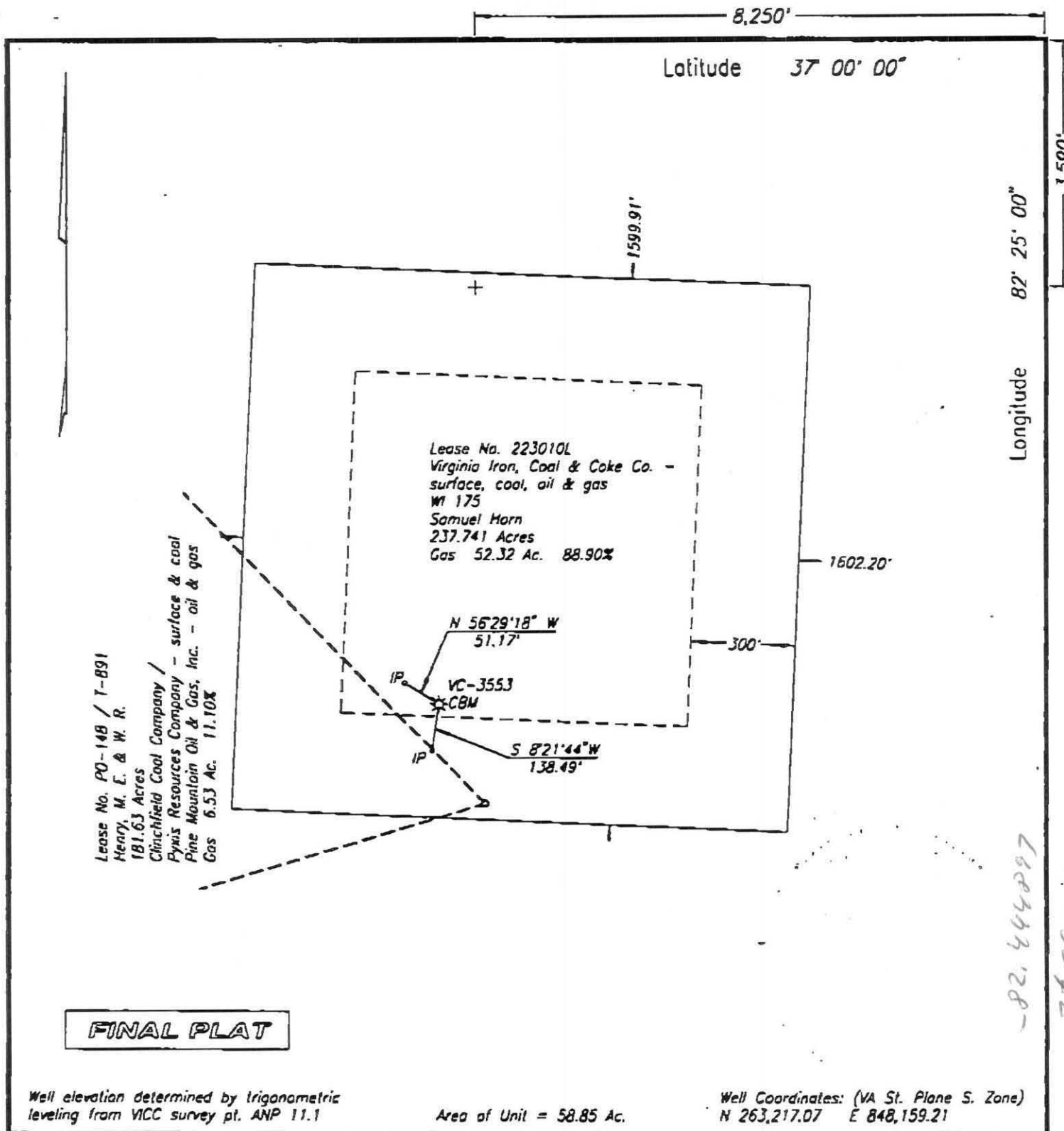
DRILLER'S LOG

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	1555	1555	
	UPPER SEABOARD COAL			1555	1557	2	
	Sand, Shale & Thin Coals			1557	2227	670	
	LOWER HORSEPEN COAL			2227	2229	2	
	Sand, Shale & Thin Coals			2229	2268	39	
	X SEAM COAL			2268	2270	2	
	Sand, Shale & Thin Coals			2270	2494	224	
	POCO #7 COAL			2494	2497	3	
	Sand, Shale & Thin Coals			2497	2604	107	
	POCO #5 COAL			2604	2607	3	
	Sand, Shale & Thin Coals			2607	2755	148	
	Logger's Total Depth				2755		

Permittee: EQUITABLE RESOURCES EXPLORATION (Company)

By: Joseph A. Dewey (Signature)



WELL LOCATION PLAT

2-F-85

COMPANY Equitable Resources Energy Co. WELL NAME AND NUMBER VC-3553
 TRACT NO. WI 175 ELEVATION 2700.08 QUADRANGLE Coeburn
 COUNTY Wise DISTRICT Lipps SCALE 1" = 400' DATE 5-7-1996

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 represented by border lines as shown.

John Phillips

Licensed Professional Engineer or Licensed Land Surveyor