

Department of Mines, Minerals and Energy
Division of Gas and Oil
P.O. Box 1416
Abingdon, Virginia 24210
540/676-5423

ENTERED

COMPLETION REPORT

WELL TYPE: GAS WELL

Date Well Completed 08/05/1998 Total Depth of Well: LTD - 5838 DTD - 5838

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 : LOWER HURON

Formation Stimulated With: 75Q FOAM

Total Sand Used: 53095 lbs Sand Size: 20/40 Total Acid: 0 gal. Acid Strength:

N2 Used: 545429 SCF Total Fluid Injected: 339 bbls.

Perforated: 5481 to 5634 No. of Perforations: 26 Size: 0.34 "

Formation Broke Down at: 0 PSIG Average Injection Rate: 45 BPM

ISIP: 1691 PSIG 5 Min SIP: 1502 PSIG Average Injection Pressure: 3180

Date Stimulated: 07/02/1998

Zone 2 : CLEVELAND SHALE

Formation Stimulated With: 75Q FOAM

Total Sand Used: 56812 lbs Sand Size: 20/40 Total Acid: 0 gal. Acid Strength:

N2 Used: 542699 SCF Total Fluid Injected: 386 bbls.

Perforated: 4897 to 5007 No. of Perforations: 23 Size: 0.34 "

Formation Broke Down at: 989 PSIG Average Injection Rate: 50 BPM

ISIP: 1647 PSIG 5 Min SIP: 1479 PSIG Average Injection Pressure: 2960

Date Stimulated: 07/02/1998

Zone 3 : BIG LIME

Formation Stimulated With: 50Q FOAMED ACID

Total Sand Used: 0 lbs Sand Size: Total Acid: 4500 gal. Acid Strength: 15%

N2 Used: 270000 SCF Total Fluid Injected: 413 bbls.

Perforated: 4197 to 4365 No. of Perforations: 15 Size: 0.34 "

Formation Broke Down at: 1047 PSIG Average Injection Rate: 20 BPM

ISIP: 953 PSIG 5 Min SIP: 920 PSIG Average Injection Pressure: 1118

Date Stimulated: 07/02/1998

FINAL PRODUCTION: _____ Natural X After Stimulation

BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

Final Production If Gas
Zones are Commingled

518 MCF 6 Hours Tested 720 PSIG 48 Hours Tested

Permittee: Equitable Resources Energy Company (Company)

By: [Signature] (Signature)

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DRILLING REPORT

Pursuant to VR-480-05-22.1 § 1.36, the undersigned Permittee submits this report on Well VDP3738 in the GLADEVILLE
District of WISE County, Virginia on the 15 day, October month, 1998 .

LOCATION

County: WISE District: GLADEVILLE
Surface Elevation: 2263.31 Elev of Kelly Bushing: 2273.31 Quadrangle: POUND
3425 Ft. S of Latitude 37 ° 02 ' 30 " and 3290 Ft. W of Longitude 82 ° 32 ' 30 "

DRILLING DATA

Date Drilling Commenced: 06/03/1998 Drilling Contractor: UD 10
Date Drilling Completed: 06/18/1998 Rig Type: X Rotary Cable Tool
Total Depth of Well: LTD - 5838 DTD - 5838

GEOLOGICAL DATA

Fresh Water at:
1077 feet 5799.00 STREAM

Salt Water at:

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>
UNIDENTIFIED	2096	2099	3			

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>
		2590		ODOR		
		3962		ODOR		
		4157		ODOR		
		4372		ODOR		
		4465		ODOR		
		4745		ODOR		

Cuttings or samples are not available for examination by a member of the Virginia Division of Mineral Resources
 Cuttings or samples have not been furnished to the Virginia Division of Mineral Resources

ELECTRIC LOGS AND SURVEYS

List logs run on wellbore:

- CBL
- CCL
- DEN
- GR
- TMP

Did log disclose vertical location of a coal seam ? No

SURVEY RESULTS

<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREE FROM TRUE VERTICAL</u>	<u>DEPTH OF SURVEY</u>	<u>DIRECTION/DISTANCE/DEGREE FROM TRUE VERTICAL</u>
200	0.25°	400	0.25°
600	0.50°	800	0.50°
1000	0.75°	1200	0.75°
1400	0.75°	1800	0.75°
2000	0.75°	2097	0.75°
2297	0.75°	2497	1.00°

CASING AND TUBING

	<u>SIZE</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>LENGTH</u>	<u>CEMENT USED</u>	<u>DATE</u>	<u>PACKERS OR BRIDGE PLUGS</u>		
					<u>IN CU/FT</u>	<u>CEMENTED</u>	<u>KIND</u>	<u>SIZE</u>	<u>SET AT</u>
<u>Conductor Pipe</u>	16.000	0.00	79.00	79.00					
<u>Conductor Pipe</u>	13.375	0.00	105.00	105.00					
<u>Surface Casing</u>	9.625	0.00	318.00	318.00	136	6/5/98			
<u>Intermediate Casing 1</u>	7.000	0.00	2510.00	2510.00	469	6/10/98			
<u>Production Casing</u>	4.500	0.00	5683.00	5683.00	178	6/19/98			
<u>Tubing String 1</u>	2.375	0.00	5201.00	5201.00					

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

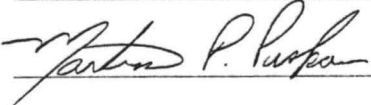
DRILLER'S LOG

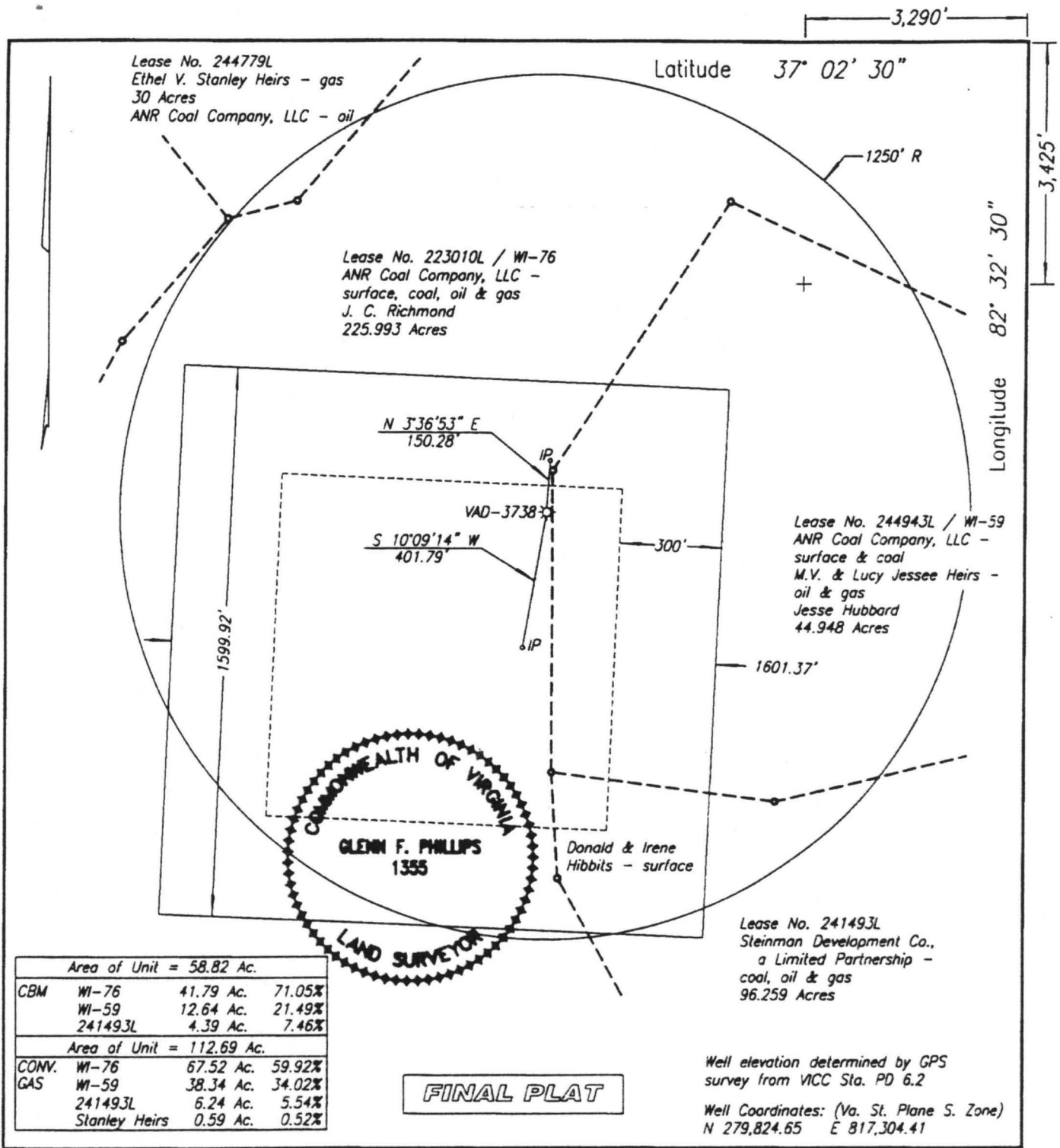
Compiled by: Engineering

<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>		
MISS	RAVENCLIFF			2944	2966	22	
MISS	MAXON			3051	3584	533	
MISS	LITTLE LIME			3802	3852	50	
MISS	BIG LIME - U M			3852	4430	578	
MISS	BORDEN			4430	4808	378	
MISS	SUNBURY			4808	4875	67	
MISS	BEREA			4875	4894	19	
DEVO	DEVONIAN			4894	5838	944	
	LOGGER'S TOTAL DEPTH				5838		

*Formations between coal seams are Sand, Shale and Thin Coals

Permittee: Equitable Resources Energy Company (Company)

By:  (Signature)



Area of Unit = 58.82 Ac.			
CBM	WI-76	41.79 Ac.	71.05%
	WI-59	12.64 Ac.	21.49%
	241493L	4.39 Ac.	7.46%
Area of Unit = 112.69 Ac.			
CONV.	WI-76	67.52 Ac.	59.92%
GAS	WI-59	38.34 Ac.	34.02%
	241493L	6.24 Ac.	5.54%
	Stanley Heirs	0.59 Ac.	0.52%

FINAL PLAT

Well elevation determined by GPS survey from VICC Sta. PD 6.2
 Well Coordinates: (Va. St. Plane S. Zone)
 N 279,824.65 E 817,304.41

WELL LOCATION PLAT

COMPANY Equitable Resources Energy Company WELL NAME AND NUMBER VAD-3738
 TRACT NO. WI-76 ELEVATION 2265.31 QUADRANGLE Pound
 COUNTY Wise DISTRICT Gladeville SCALE 1" = 400' DATE 7-23-1998

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.

Glenn F. Phillips
 Licensed Professional Engineer or Licensed Land Surveyor

TECHNICAL DATA SHEET FOR PERMIT APPLICATIONS UNDER s 45.1-361.29

Check if the information is related to the conversion of a VVH to a CBM under VR 480-05-22.1, s 3.03.

Drilling Contractor: Unknown Registered: Yes No
 Address: _____ Telephone Number: _____
 Geological Target Formation: Big Lime, Weir, Cleveland, Devonian Shales, Pennsylvanian Coals
 Estimated Depth of the Completed Well: 5780 Feet

GEOLOGICAL DATA (ESTIMATED)

Fresh Water: DEPTH THICKNESS
 Possible, at unknown depths
 Salt Water: Possible, at unknown depths

	NAME	DEPTH	THICKNESS	MINING IN AREA	Mine Index Number
Coal Seams:	Rocky Fork	NP			
	Lyons	NP			
	Dorchester	198'			
	Norton	290'		No	Permit# 1100717
	Upper Banner	675'			Permit# 1100574
	Kennedy	987'			
	Jawbone	1333'			
	Greasy Creek	1660'			
	Unnamed A	1838'			
	Warcreek	2020'			
	Beckley	2095'			
	Lower Horsepen	2183'			
Gas and Oil:	Base Lee Sands	2515'			
	Ravencliff	2945'			
	Maxon	3310'			
	Big Lime	3805'			
	Borden(weir)	4365'			
	Coffee Shale	4735'			
	Berea	4805'			
	Devonian Shale	4830'			
Upper Huron Mbr.	5030'				
Lower Huron Mbr.	5410'				

List zones subject to the Application.

Above Coal seams in addition to all Devonian Shales, including but not limited to, Base Lee Sands, Ravencliff, Maxon, Big Lime, Borden, Coffee Shale, Berea, Devonian Shale, Upper Huron Mbr., Lower Huron Mbr., White Sands.

PROPOSED CASING AND TUBING PROGRAM

	Size	Depth	Cement Details
Conductor or surface casing:	16"	61'	
Additional conductor or surface casing:	13 3/8"	115'	Cement to surface
Water protection casing:	9 5/8"	317'	Cement to surface
Coal Protection Casing:	7"	2521'	Cement to surface
Other Casing:			
Production Casing and Tubing:	4 1/2"	5750'	Cement to 500' above pay zone

Attach proposed plugging plan if well is a dry hole or corehole.

Will samples be made available to the Division of Mineral Resources? Yes No