

Form 16

API NO. 45 - 051 - 21480
WELL NAME: D. C. Davis, PC-154
DATE February 27, 1991

DI-515

Virginia Oil and Gas Inspector
P. O. Box 1416
Abingdon, VA 24210
703 628-8115

ENTERED
May 26, 1991

REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Sand Lick District Dickenson County, Virginia on 11th day, October month, 19 90.

WELL TYPE: Oil / Gas / Enhanced Recovery / Waste Disposal
If Gas-Production / Underground Storage Exempt by Code Section 45.1-300.B.1. from general Oil and Gas Conservation Law yes / no
WELL WORK: Drill / Deepen / Redrill / Stimulate
Plug Off Old Formation / Perforate New Formation / Plug
Replug / Other physical change in well (specify) _____
The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.

CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332

Ninety days from the filing of this report

OR

Two years from, the date on which the referenced well was completed, the well being an exploratory well as defined in Code of Virginia, Section 45.1-288.21.

APPLICANT Equitable Resources Exploration

BY J. Matthew Conrad

ITS Geologist

ADDRESS 1989 East Stone Drive, Kingsport, TN 37660

TELEPHONE (615) 378-5101



Use Additional Sheets as Needed

File Number DI-515

~~REVISED~~

COMPLETION REPORT

WELL TYPE: Oil () Gas Production (x) Gas-Underground Storage ()
Enhanced Recovery () Waste Disposal ()

LOCATION

COUNTY Dickenson DISTRICT Sand Lick

SURFACE ELEVATION 2261.38' QUADRANGLE Nora

LATITUDE 3520 'S 37° 05 ' 00 " LONGITUDE 650 'W 82° 15 ' 00 "

DRILLING DATA

DATE DRILLING COMMENCED 9-27-90 DRILLING CONTRACTOR Union Drilling
DATE DRILLING COMPLETED 10-1-90 ADDRESS Drawer 40, Buckhannon, WV 26201
DATE WELL COMPLETED 10-11-90 TELEPHONE NUMBER (304) 472-4610
TOTAL DEPTH OF COMPLETED WELL 2588 RIG TYPE X ROTARY CABLE TOOL

GEOLOGICAL DATA

FRESH WATER AT (1) 285 FEET 1" Str. GPM: (2) FEET GPM
SALT WATER AT (1) 1310 FEET 1" Str. GPM: (2) FEET GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	<u>NO</u>	MINED OUT
Jawbone	941	947	6	Poco #6	2203	2209 6
L. Seaboard	1457	1459	2			
Warcreek	1757	1759	2			
Beckley	1818	1822	4			

OIL AND GAS SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF (MCFD/BOPD)	PRESSURE	HOURS TESTED
NONE RECORDED						

STIMULATION RECORD Poco #6, Beckley,

ZONE (1) Warcreek, C-Seam FORMATION STIMULATED WITH 70 0 Foam Frac
using 630 bbls. fluid, 982,000 SCF N₂ + 14,000# 12/20 sand.

* PERFORATED 1720 TO 2208 NO. OF PERFORATIONS 14 PERFORATION SIZE .34
* FORMATION BROKE DOWN AT 1770 * PSIG AVERAGE INJECTED RATE 40 BPM
* INITIAL SHUT IN PRESSURE 2173 PSIG 5 MINUTE SHUT IN PRESSURE 1594 PSIG

STIMULATION RECORD

ZONE (2) FORMATION STIMULATED WITH

PERFORATED TO NO. OF PERFORATIONS PERFORATION SIZE
FORMATION BROKE DOWN AT PSIG AVERAGE INJECTED RATE BPM
INITIAL SHUT IN PRESSURE PSIG MINUTE SHUT IN PRESSURE PSIG

FINAL PRODUCTION: () NATURAL (x) AFTER STIMULATION
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED
ZONE (1) **72 6 435 48

ZONE (2)
FINAL PRODUCTION IF GAS ZONES ARE COMINGLED MCFD HOURS TESTED
 PSIG HOURS TESTED

** - This is not an absolute open flow.

Samples and Cuttings

Will Will not be available for examination by a member of the Virginia Division of Mineral Resources

Will Will not be furnished to the Virginia Division of Mineral Resources upon request

Will Will not require sacks to be furnished by the Virginia Division of Mineral Resources

Electric Logs and Surveys:

Type of Electric Log(s) Ran: CDL-TEMP-GR

Did log disclose vertical location of a coal seam? Yes No

Was log made at request of a coal owner according to Section 45.1-333.B.1 of the Virginia Code? Yes No

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Section 45.1-333.B.3 of the Virginia Code

Deviation Surveys

Deviation surveys were were not required under Section 45.1-333.C of the Virginia Code "to the bottom of the lowers published coal seam depth."

Note: If a deviation survey(s) was/were required, the survey results are as follows:

<u>Depth of Survey</u>	<u>Feet/Degree Deviated From True Vertical</u>	<u>Depth of Survey</u>	<u>Feet/Degree Deviated From True Vertical</u>
	<u>See Attachment</u>		

A continuous survey was was not required, under Section 45.1-333.C of the Virginia Code.

Note: If a continuous survey was required, the survey results are attached.

Changes in the Permitted Well Work:

The well operator did did not make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

NOTE: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

Confidentiality Status:

Confidentiality status under Section 45.1-332 of the Virginia Code:

The operator requests that information herein and log(s) be kept confidential (after COMPLETION DATE of the well) for a period of

Ninety (90) days
 two (2) years, if the well is exploratory

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OR

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-REVISED-

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FORMATION BROKE DOWN AT 1770 * PSIG AVERAGE INJECTED RATE 40 BPM
INITIAL SHUT IN PRESSURE 2173 PSIG 5 MINUTE SHUT IN PRESSURE 1594 PSIG

STIMULATION RECORD

ZONE (2) _____ FORMATION STIMULATED WITH _____

PERFORATED _____ TO _____ NO. OF PERFORATIONS _____ PERFORATION SIZE _____
FORMATION BROKE DOWN AT _____ PSIG AVERAGE INJECTED RATE _____ BPM
INITIAL SHUT IN PRESSURE _____ PSIG MINUTE SHUT IN PRESSURE _____ PSIG
FINAL PRODUCTION: () NATURAL (x) AFTER STIMULATION
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED
ZONE (1) **72 6 435 48
ZONE (2) _____ _____ _____ _____

FINAL PRODUCTION IF GAS ZONES ARE COMINGLED _____ MCFD HOURS TESTED
_____ PSIG HOURS TESTED

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Directional Survey
PC-154

Depth

504'
1310'
2120'

Degrees

3°
1 3/4°
1 1/4°

Form 16, Appendix A, Sheet 2

Well Name D. C. Davis. PC-154

CASING AND TUBING

	<u>SIZE</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>LENGTH</u>	<u>PERFORATIONS</u> <u>FEET TO FEET</u>	<u>PACKERS OR</u> <u>BRIDGE PLUGS</u> <u>KIND SIZE SET AT</u>
CONDUCTOR	11 3/4"		38'			

CASING
Circulated
and Cemented
to Surface

WATER PROTECTION

(Casing Set
According to
Section
45.1-334)

8 5/8" 354'

COAL PROTECTION

(Casing Set
According to
Section
45.1-334)

OTHER CASING &

Tubing Left

In Well 4 1/2" 2390'

LINERS

Remaining
In Well

OTHER used and not
left

Is the well underlain by Red Shale Yes ___ No, If Yes, was coal
protection string set to Red Shales? Yes ___ No

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

DRILLER'S LOG

Compiled by J. Matthew Conrad

Geological Age	Formation	General		Depth		Thickness	Remarks
		Lithology	Color	Top	Bottom		
Pennsylvanian		Sand, Shale, Thin Coals		0	941	941	
"		Jawbone Coal		941	947	6	
"		Sand, Shale, Thin Coals		947	1457	510	
"		L. Seaboard Coal		1457	1459	2	
"		Sand, Shale, Thin Coals		1459	1757	298	
"		Warcreek Coal		1757	1759	2	
"		Sand, Shale, Thin Coals		1759	1818	59	
"		Beckley Coal		1818	1822	4	
"		Sand, Shale, Thin Coals		1822	2203	381	
"		Poco #6 Coal		2203	2209	6	
"		Sand, Shale, Thin Coals		2209	2570	361	
Mississippian		Red Rock		2570	2588	18	

DI-0515

PNTID	BOTTOM	PRIM LITH	SEC LITH	PRIM ZONE	SEC ZONE
DI-0515	114.00	SLST		NORTON	
	160.00	SS		NORTON	
	168.00	SLST		NORTON	
	170.00	SS		NORTON	
	192.00	SLST		NORTON	
	210.00	SS		NORTON	
	332.00	SLST		NORTON	
	364.00	SS		NORTON	
	448.00	SLST		NORTON	
	449.00	COAL		NORTON	
	514.00	SLST		NORTON	
	518.00	SH		NORTON	
	520.00	COAL		NORTON	
	521.00	SH		NORTON	
	546.00	SLST		NORTON	
	548.00	COAL		NORTON	
	554.00	SLST		NORTON	
	580.00	SS		NORTON	
	628.00	SLST		NORTON	
	630.00	SH		NORTON	
	640.00	SLST		NORTON	
	664.00	SS		NORTON	
	680.00	SLST		NORTON	
	699.00	SS		NORTON	
	702.00	SLST		NORTON	
	704.00	COAL		NORTON	
	752.00	SLST		NORTON	
	754.00	COAL		NORTON	
	780.00	SLST		NORTON	
	782.00	COAL		NORTON	
	814.00	SLST		NORTON	
	816.00	COAL		NORTON	
	821.00	SLST		NORTON	
	822.00	COAL		NORTON	
	827.00	SLST		NORTON	
	829.00	COAL		NORTON	
	894.00	SLST		NORTON	
	895.00	SH		NORTON	
	896.00	COAL		NORTON	
	911.00	SLST		NORTON	
	912.00	COAL		NORTON	
	940.00	SLST		NORTON	
	942.00	COAL		NORTON	
	943.00	SLST		NORTON	
	944.00	COAL		NORTON	

	945.00	SLST		NORTON	
	947.00	COAL		NORTON	JAWBONE
	949.00	SH		NORTON	
	994.00	SLST		NORTON	
	1019.00	SS		NORTON	
	1059.00	SLST		NORTON	
	1060.00	COAL		NORTON	
	1068.00	SLST		NORTON	
	1082.00	SS		NORTON	
	1088.00	SLST		NORTON	
	1101.00	SS		NORTON	
	1102.00	COAL		NORTON	
	1161.00	SLST		NORTON	
	1162.00	SH		NORTON	
	1181.00	SLST		NORTON	
	1184.00	COAL		NORTON	
	1203.00	SLST		NORTON	
	1205.00	COAL		NORTON	
	1242.00	SLST		NORTON	
	1252.00	SS		NORTON	
	1336.00	SS	QTZ	LEE	
	1338.00	COAL		LEE	
	1374.00	SLST		LEE	
	1378.00	COAL		LEE	
	1386.00	SLST		LEE	
	1418.00	SS		LEE	
	1420.00	COAL		LEE	
	1457.00	SLST		LEE	
	1460.00	COAL		LEE	LOWER SEABOARD
	1527.00	SLST		LEE	
	1528.00	COAL		LEE	
	1538.00	SH		LEE	
	1539.00	SLST		LEE	
	1540.00	COAL		LEE	
	1594.00	SLST		LEE	
	1595.00	COAL		LEE	
	1617.00	SLST		LEE	
	1620.00	COAL		LEE	
	1640.00	SLST		LEE	
	1696.00	SS		LEE	
	1704.00	SLST		LEE	
	1706.00	COAL		LEE	
	1708.00	SH		LEE	
	1720.00	SLST		LEE	
	1722.00	COAL		LEE	
	1733.00	SLST		LEE	

	1752.00	SS		LEE	
	1758.00	SLST		LEE	
	1760.00	COAL		LEE	WAR CREEK
	1778.00	SLST		LEE	
	1788.00	SS		LEE	
	1790.00	COAL		LEE	
	1796.00	SLST		LEE	
	1818.00	SS		LEE	
	1822.00	COAL		LEE	BECKLEY
	1842.00	SS		LEE	
	1850.00	SLST		LEE	
	1852.00	COAL		LEE	
	1859.00	SLST		LEE	
	1861.00	COAL		LEE	
	1863.00	SLST		LEE	
	1864.00	COAL		LEE	
	1888.00	SLST		LEE	
	1890.00	SS		LEE	
	1911.00	SLST		LEE	
	1926.00	SS		LEE	
	1938.00	SLST		LEE	
	1940.00	COAL		LEE	
	1964.00	SLST		LEE	
	1965.00	SH		LEE	
	1976.00	SLST		LEE	
	1978.00	SH		LEE	
	1981.00	SLST		LEE	
	1982.00	SH		LEE	
	2006.00	SLST		LEE	
	2034.00	SS		LEE	
	2038.00	SLST		LEE	
	2041.00	SS		LEE	
	2044.00	SLST		LEE	
	2055.00	SS		LEE	
	2060.00	SLST		LEE	
	2075.00	SS		LEE	
	2078.00	SLST		LEE	
	2196.00	SS	QTZ	POCAHONTAS	
	2204.00	SLST		POCAHONTAS	
	2208.00	COAL		POCAHONTAS	POCAHONTAS #6
	2238.00	SLST		POCAHONTAS	
	2260.00	SS		POCAHONTAS	
	2261.00	COAL		POCAHONTAS	
	2278.00	SLST		POCAHONTAS	
	2280.00	COAL		POCAHONTAS	
	2291.00	SLST		POCAHONTAS	

	2468.00	SS		POCAHONTAS	
	2472.00	SLST		POCAHONTAS	
	2474.00	COAL		POCAHONTAS	
	2476.00	SLST		POCAHONTAS	
	2475.00	COAL		POCAHONTAS	
	2540.00	SS		POCAHONTAS	
	2570.00	SLST		POCAHONTAS	
	2588.00	SLST		BLUESTONE	

PNTID	BOTTOM	PRIM LITH	SEC LITH	PRIM ZONE	SEC ZONE
DI-0515	114.00	SLST		NORTON	
	160.00	SS		NORTON	
	168.00	SLST		NORTON	
	170.00	SS		NORTON	
	192.00	SLST		NORTON	
	210.00	SS		NORTON	
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	449.00	COAL		NORTON	
	514.00	SLST		NORTON	
	518.00	SH		NORTON	
	520.00	COAL		NORTON	
	521.00	SH		NORTON	
	546.00	SLST		NORTON	
	548.00	COAL		NORTON	
	554.00	SLST		NORTON	
	580.00	SS		NORTON	
	628.00	SLST		NORTON	
	630.00	SH		NORTON	
	640.00	SLST		NORTON	
	664.00	SS		NORTON	
	680.00	SLST		NORTON	
	699.00	SS		NORTON	
	702.00	SLST		NORTON	
	704.00	COAL		NORTON	
	752.00	SLST		NORTON	
	754.00	COAL		NORTON	
	780.00	SLST		NORTON	
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	822.00	COAL		NORTON	
	827.00	SLST		NORTON	
	829.00	COAL		NORTON	
	894.00	SLST		NORTON	
	895.00	SH		NORTON	
	896.00	COAL		NORTON	
	911.00	SLST		NORTON	
	912.00	COAL		NORTON	
	940.00	SLST		NORTON	
	942.00	COAL		NORTON	

	943.00	SLST		NORTON	
	944.00	COAL		NORTON	
	945.00	SLST		NORTON	
	947.00	COAL		NORTON	JAWBONE
	949.00	SH		NORTON	
	994.00	SLST		NORTON	
	1019.00	SS		NORTON	
	1059.00	SLST		NORTON	
	1060.00	COAL		NORTON	
	1068.00	SLST		NORTON	
	1082.00	SS		NORTON	
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	1162.00	SH		NORTON	
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	1184.00	COAL		NORTON	
	1203.00	SLST		NORTON	
	1205.00	COAL		NORTON	
	1242.00	SLST		NORTON	
	1252.00	SS		NORTON	
	1336.00	SS	QTZ	LEE	
	1338.00	COAL		LEE	
	1374.00	SLST		LEE	
	1378.00	COAL		LEE	
	1386.00	SLST		LEE	
	1418.00	SS		LEE	
	1420.00	COAL		LEE	
	1457.00	SLST		LEE	
	1460.00	COAL		LEE	LOWER SEABOARD
	1527.00	SLST		LEE	
	1528.00	COAL		LEE	
	1538.00	SH		LEE	
	1539.00	SLST		LEE	
	1540.00	COAL		LEE	
	1594.00	SLST		LEE	
	1595.00	COAL		LEE	
	1617.00	SLST		LEE	
	1620.00	COAL		LEE	
	1640.00	SLST		LEE	
	1696.00	SS		LEE	
	1704.00	SLST		LEE	
	1706.00	COAL		LEE	

	1708.00	SH		LEE	
	1720.00	SLST		LEE	
	1722.00	COAL		LEE	
	1733.00	SLST		LEE	
	1752.00	SS		LEE	
	1758.00	SLST		LEE	
	1760.00	COAL		LEE	WAR CREEK
	1778.00	SLST		LEE	
	1788.00	SS		LEE	
	1790.00	COAL		LEE	
	1796.00	SLST		LEE	
	1818.00	SS		LEE	
	1822.00	COAL		LEE	BECKLEY
	1842.00	SS		LEE	
	1850.00	SLST		LEE	
	1852.00	COAL		LEE	
	1859.00	SLST		LEE	
	1861.00	COAL		LEE	
	1863.00	SLST		LEE	
	1864.00	COAL		LEE	
	1888.00	SLST		LEE	
	1890.00	SS		LEE	
	1911.00	SLST		LEE	
	1926.00	SS		LEE	
	1938.00	SLST		LEE	
	1940.00	COAL		LEE	
	1964.00	SLST		LEE	
	1965.00	SH		LEE	
	1976.00	SLST		LEE	
	1978.00	SH		LEE	
	1981.00	SLST		LEE	
	1982.00	SH		LEE	
	2006.00	SLST		LEE	
	2034.00	SS		LEE	
	2038.00	SLST		LEE	
	2041.00	SS		LEE	
	2044.00	SLST		LEE	
	2055.00	SS		LEE	
	2060.00	SLST		LEE	
	2075.00	SS		LEE	
	2078.00	SLST		LEE	
	2196.00	SS	QTZ	POCAHONTAS	
	2204.00	SLST		POCAHONTAS	
	2208.00	COAL		POCAHONTAS	POCAHONTAS #6

DI-0515.

	2238.00	SLST		POCAHONTAS	
	2260.00	SS		POCAHONTAS	
	2261.00	COAL		POCAHONTAS	
	2278.00	SLST		POCAHONTAS	
	2280.00	COAL		POCAHONTAS	
	2291.00	SLST		POCAHONTAS	
	2468.00	SS		POCAHONTAS	
	2472.00	SLST		POCAHONTAS	
	2474.00	COAL		POCAHONTAS	
	2476.00	SLST		POCAHONTAS	
	2475.00	COAL		POCAHONTAS	
	2540.00	SS		POCAHONTAS	
	2570.00	SLST		POCAHONTAS	
	2588.00	SLST		BLUESTONE	

API NO. 45 - 051 - 21480
WELL NAME: D. C. Davis, PC-154
DATE February 27, 1991

DI-515

Virginia Oil and Gas Inspector
P. O. Box 1416
Abingdon, VA 24210
703 628-8115

(May 28, 1991)

REPORT OF COMPLETION OF WELL WORK

Pursuant to Regulation 4.06 of the Regulations under the Virginia Oil and Gas Act, the undersigned well operator reports completion of the type(s) of well work specified below on the referenced well in Sand Lick District Dickenson County, Virginia on 11th day, October month, 19 90.

WELL TYPE: Oil / Gas / Enhanced Recovery / Waste Disposal
If Gas-Production / Underground Storage / Exempt by Code Section 45.1-300.B.1. from general Oil and Gas Conservation Law yes / no
WELL WORK: Drill / Deepen / Redrill / Stimulate / Plug Off Old Formation / Perforate New Formation / Plug / Replug / Other physical change in well (specify) _____
The well work was done as shown in the Appendix(es) applicable to the type(s) of well work involved.

CONFIDENTIALITY STATUS UNDER CODE OF VIRGINIA SECTION 45.1-332

Ninety days from the filing of this report

OR

Two years from _____, the date on which the referenced well was completed, the well being an exploratory well as defined in Code of Virginia, Section 45.1-288.21.

APPLICANT Equitable Resources Exploration

BY J. Matthew Conrad

ITS Geologist

ADDRESS 1989 East Stone Drive, Kingsport, TN 37660

TELEPHONE (615) 378-5101



-REVISED-

COMPLETION REPORT

WELL TYPE: Oil () Gas Production (X) Gas-Underground Storage ()
Enhanced Recovery () Waste Disposal ()

LOCATION

COUNTY Dickenson DISTRICT Sand Lick

SURFACE ELEVATION 2261.38' QUADRANGLE Nora

LATITUDE 3520 'S 37° 05 ' 00 " LONGITUDE 650 'W 82° 15 ' 00 "

DRILLING DATA

DATE DRILLING COMMENCED 9-27-90 DRILLING CONTRACTOR Union Drilling
DATE DRILLING COMPLETED 10-1-90 ADDRESS Drawer 40, Buckhannon, WV 26201
DATE WELL COMPLETED 10-11-90 TELEPHONE NUMBER (304) 472-4610
TOTAL DEPTH OF COMPLETED WELL 2588 RIG TYPE X ROTARY CABLE TOOL

GEOLOGICAL DATA

FRESH WATER AT (1) 285 FEET 1/2" Str. GPM: (2) FEET GPM
SALT WATER AT (1) 1310 FEET 1/2" Str. GPM: (2) FEET GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	<u>NO</u>	MINED OUT
Jawbone	941	947	6	Poco #6	2203	2209 6
L. Seaboard	1457	1459	2			
Warcreek	1757	1759	2			
Beckley	1818	1822	4			

OIL AND GAS SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF(MCFD/BOPD)	PRESSURE	HOURS TESTED
NONE RECORDED						

STIMULATION RECORD Poco #6, Beckley,

ZONE (1) Warcreek, C-Seam FORMATION STIMULATED WITH 70 Q Foam Frac
using 630 bbls. fluid, 982,000 SCF N₂ + 14,000# 12/20 sand.

* PERFORATED 1720 TO 2208 NO. OF PERFORATIONS 14 PERFORATION SIZE .34
FORMATION BROKE DOWN AT 1770 * PSIG AVERAGE INJECTED RATE 40 BPM
INITIAL SHUT IN PRESSURE 2173 PSIG 5 MINUTE SHUT IN PRESSURE 1594 PSIG

STIMULATION RECORD

ZONE (2) FORMATION STIMULATED WITH

PERFORATED TO NO. OF PERFORATIONS PERFORATION SIZE
FORMATION BROKE DOWN AT PSIG AVERAGE INJECTED RATE BPM
INITIAL SHUT IN PRESSURE PSIG MINUTE SHUT IN PRESSURE PSIG

FINAL PRODUCTION: () NATURAL (X) AFTER STIMULATION
BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

ZONE (1) **72 6 435 48

ZONE (2)
FINAL PRODUCTION IF GAS ZONES ARE COMINGLED MCFD HOURS TESTED
 PSIG HOURS TESTED

** - This is not an absolute open flow.

CASING AND TUBING

	SIZE	TOP	BOTTOM	LENGTH	PACKERS OR	BRIDGE PLUGS
					PERFORATIONS	
					FEET TO FEET	KIND SIZE SET AT
CONDUCTOR	11 3/4"		38'			

CASING

Circulated
and Cemented
to Surface

WATER PROTECTION

(Casing Set
According to
Section
45.1-334)

8 5/8" 354'

COAL PROTECTION

(Casing Set
According to
Section
45.1-334)

OTHER CASING &

Tubing Left

In Well 4 1/2" 2390'

LINERS

Remaining
In Well

OTHER used and not
left

Is the well underlain by Red Shale Yes ___ No, If Yes, was coal
protection string set to Red Shales? Yes ___ No

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

Samples and Cuttings

Will Will not be available for examination by a member of the Virginia Division of Mineral Resources

Will Will not be furnished to the Virginia Division of Mineral Resources upon request

Will Will not require sacks to be furnished by the Virginia Division of Mineral Resources

Electric Logs and Surveys:

Type of Electric Log(s) Ran: CDL-TEMP-GR

Did log disclose vertical location of a coal seam? Yes No

Was log made at request of a coal owner according to Section 45.1-333.B.1 of the Virginia Code? Yes No

Note: If a coal seam was located, the part of the survey from the surface through the coal is attached in accordance with Section 45.1-333.B.3 of the Virginia Code

Deviation Surveys

Deviation surveys were were not required under Section 45.1-333.C of the Virginia Code "to the bottom of the lowers published coal seam depth."

Note: If a deviation survey(s) was/were required, the survey results are as follows:

<u>Depth of Survey</u>	<u>Feet/Degree Deviated From True Vertical</u>	<u>Depth of Survey</u>	<u>Feet/Degree Deviated From True Vertical</u>
	<u>See Attachment</u>		

A continuous survey was was not required, under Section 45.1-333.C of the Virginia Code.

Note: If a continuous survey was required, the survey results are attached.

Changes in the Permitted Well Work:

The well operator did did not make any change(s) in the permitted well work, verbally approved by the Inspector or Assistant Inspector under Regulation 4.03 of the Regulations under the Virginia Oil and Gas Act, for the purpose of insuring successful completion of the well work.

NOTE: The nature and purpose of each such change, if any, is set out below or on additional sheets if such are required.

Confidentiality Status:

Confidentiality status under Section 45.1-332 of the Virginia Code:

The operator requests that information herein and log(s) be kept confidential (after COMPLETION DATE of the well) for a period of

Ninety (90) days
 two (2) years, if the well is exploratory

DRILLER'S LOG

Compiled by

J. Matthew Conrad

Geological Age	Formation	General		Depth		Thickness	Remarks
		Lithology	Color	Top	Bottom		
Pennsylvanian		Sand, Shale, Thin Coals		0	941	941	
"		Jawbone Coal		941	947	6	
"		Sand, Shale, Thin Coals		947	1457	510	
"		L. Seaboard Coal		1457	1459	2	
"		Sand, Shale, Thin Coals		1459	1757	298	
"		Warcr�ek Coal		1757	1759	2	
"		Sand, Shale, Thin Coals		1759	1818	59	
"		Beckley Coal		1818	1822	4	
"		Sand, Shale, Thin Coals		1822	2203	381	
"		Poco #6 Coal		2203	2209	6	
"		Sand, Shale, Thin Coals		2209	2570	361	
Mississippian		Red Rock		2570	2588	18	

Directional Survey
PC-154

<u>Depth</u>	<u>Degrees</u>
504'	3°
1310'	1 3/4°
2120'	1 1/4°

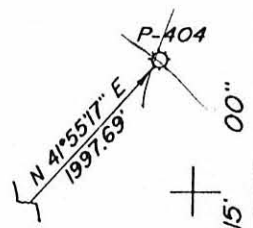
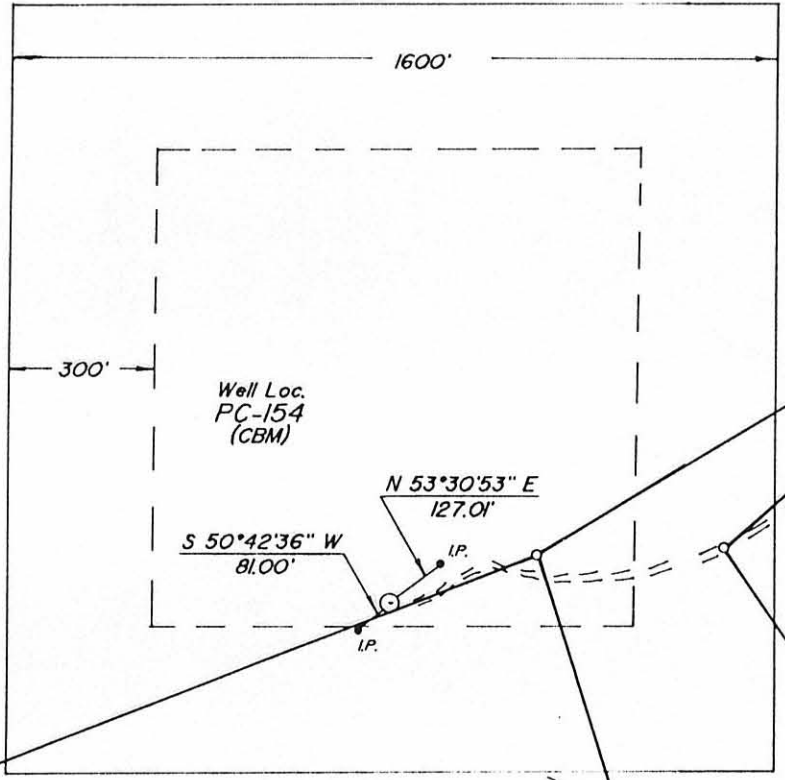
650'

Latitude 37° 05' 00"

3520'

Ls. # PO-148, T-277
 D. C. Davis Tr.
 449.84 Ac.
 Clinchfield Coal Co./
 Pegasus Resources Co.-Coal & Surface
 Pine Mountain Oil & Gas Co.-Oil & Gas
 GAS-45.753 Ac., 77.85%

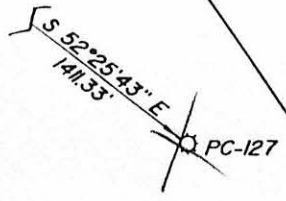
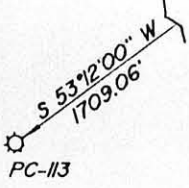
Well Coordinates:
 S-9549.68
 E-38305.80



Ls. # PO-1042, T2-147
 Clinchfield Coal Co./
 Pegasus Resources Co.-Coal & Surface
 Pine Mountain Oil & Gas Co.-Oil & Gas
 GAS-5.656 Ac., 9.62%

Ls. # PO-148, T-193
 Jesse Wampler Tr.
 3215.00 Ac.
 Clinchfield Coal Co./
 Pegasus Resources Co.-Coal & Surface
 Pine Mountain Oil & Gas Co.-Oil & Gas
 GAS-6.780 Ac., 11.54%

Ls. # PO-1042, T2-201
 S. D. Sutherland Tr.
 21.23 Ac.
 Clinchfield Coal Co./
 Pegasus Resources Co.-Coal & Surface
 Pine Mountain Oil & Gas Co.-Oil & Gas
 GAS-0.581 Ac., 0.99%



LEGEND
 ○ - Proposed Gas Well
 ⊗ - Offset Well

COMPANY Equitable Resources Exploration

ADDRESS 1989 E. Stone Dr., Kingsport, TN 37660

WELL NAME PC-154

FARM D. C. Davis TRACT T-277

LEASE NO. PO-148 ELEVATION 2261.38

ACRES 449.84 QUADRANGLE Nora

COUNTY Dickenson DISTRICT Sand Lick

REG. ENGINEER X REG. NO. 6992

CERT. LAND SURVEYOR _____ CERT. NO. _____

FILE NO. _____ DRAWING NO. 1990

DATE 6-8-90 SCALE 1" = 400'

This plat is X new _____ updated
 This plat X is _____ is not based on a mine coordinate system established for the areas of the well location.

FORM 5

WELL LOCATION MAP
 WELL NO. PC-154

+ Denotes location of well on United States Topographic Maps, scale, 1 to 24,000, latitude and longitude lines being represented by border lines as shown.

H. L. BALDRIDGE
 CERTIFICATION OF WELL PLAT
 CERTIFICATE NO. _____

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief, and shows all the information required by law and the regulations of the Va. Well Review Board.

H. L. Baldridge
 Registered Engineer or Certified Land Surveyor in Charge