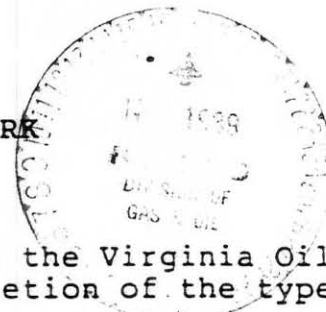


API NO. 45 - 051 - 21274
WELL NAME: Peter Smith, PG-2
DATE September 22, 1989

DI-452

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



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 Ervington District Dickenson County, Virginia on 30 day, August month, 19 89.

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 E. Stone Dr., Kingsport, TN 37660

TELEPHONE 615-378-5101

COMPLETION REPORT

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

LOCATION

COUNTY Dickenson DISTRICT Ervinton

SURFACE ELEVATION 2321.59' QUADRANGLE Caney Ridge

LATITUDE 13,820'S 37° 05' 00" LONGITUDE 4,310'W 82° 22' 30"

DRILLING DATA

DATE DRILLING COMMENCED 7/29/89 DRILLING CONTRACTOR Union Drilling
 DATE DRILLING COMPLETED 8/03/89 ADDRESS PO Drawer 40, Buckhannon, WV 26201
 DATE WELL COMPLETED 8/30/89 TELEPHONE NUMBER 304-472-4610
 TOTAL DEPTH OF COMPLETED WELL 2640' RIG TYPE X ROTARY CABLE TOOL

GEOLOGICAL DATA

FRESH WATER AT (1) None FEET GPM: (2) FEET GPM
 SALT WATER AT (1) None FEET GPM: (2) FEET GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT
Greasy Creek	1445	1447	2	Poco #5	2293-2295	2
Unnamed B	1679	1681	2	Poco #4	2332-2335	3
Warcreek	1843	1845	2	Poco #2	2447-2448	1
Lower Horsepen	1971	1974	3	Poco #1	2478-2482	4

OIL AND GAS SHOWS:

FORMATION	TOP	BOTTOM	THICKNESS	IPF(MCFD/BOPD)	PRESSURE	HOURS TESTED
T.D.				21 MCF		

STIMULATION RECORD

ZONE (1) Poco #1/Poco #2 FORMATION STIMULATED WITH Waterfrac 20 using 600 BBLs fluid, 19,000 # 20/40 sand
 PERFORATED 2447 TO 2482 NO. OF PERFORATIONS 19 PERFORATION SIZE .39 HSC
 FORMATION BROKE DOWN AT 1966 PSIG AVERAGE INJECTED RATE 27.8 BPM
 INITIAL SHUT IN PRESSURE 1875 PSIG 5 MINUTE SHUT IN PRESSURE 1582 PSIG

STIMULATION RECORD

ZONE (2) Poco #4/Poco #5 FORMATION STIMULATED WITH Waterfrac 20 using 553 BBLs fluid, 20,780 # 20/40 sand
 PERFORATED 2293 TO 2335 NO. OF PERFORATIONS 17 PERFORATION SIZE .39 HSC
 FORMATION BROKE DOWN AT 2123 PSIG AVERAGE INJECTED RATE 30.7 BPM
 INITIAL SHUT IN PRESSURE 1400 PSIG 5 MINUTE SHUT IN PRESSURE 1266 PSIG

FINAL PRODUCTION: () NATURAL () AFTER STIMULATION
 BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED
 ZONE (1) _____
 ZONE (2) _____
 FINAL PRODUCTION IF GAS ZONES ARE COMINGLED _____ MCFD _____ HOURS TESTED
 _____ PSIG _____ HOURS TESTED

COMPLETION REPORT

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

LOCATION

COUNTY _____ DISTRICT _____

SURFACE ELEVATION _____ QUADRANGLE _____

LATITUDE _____ 'S _____ ' _____ " LONGITUDE _____ 'W _____ ' _____ "

DRILLING DATA

DATE DRILLING COMMENCED _____ DRILLING CONTRACTOR _____

DATE DRILLING COMPLETED _____ ADDRESS _____

DATE WELL COMPLETED _____ TELEPHONE NUMBER _____

TOTAL DEPTH OF COMPLETED WELL _____ RIG TYPE _____ ROTARY _____ CABLE TOOL

GEOLOGICAL DATA

FRESH WATER AT (1) _____ FEET _____ GPM: (2) _____ FEET _____ GPM

SALT WATER AT (1) _____ FEET _____ GPM: (2) _____ FEET _____ GPM

COAL SEAMS:

NAME	TOP	BOTTOM	THICKNESS	MINING IN AREA		
				YES	NO	MINED OUT

OIL AND GAS SHOWS:

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

STIMULATION RECORD

ZONE (3) Warcreek/Lower Horsepen FORMATION STIMULATED WITH Waterfrac 20 using 556 BBLs fluid, 20,700 # 20/40 sand

PERFORATED 1843 TO 1974 NO. OF PERFORATIONS 15 PERFORATION SIZE .39 HSC

FORMATION BROKE DOWN AT 1912 PSIG AVERAGE INJECTED RATE 30.4 BPM

INITIAL SHUT IN PRESSURE 1415 PSIG 5 MINUTE SHUT IN PRESSURE 1340 PSIG

STIMULATION RECORD

ZONE (4) Greasy Creek/Unnamed B FORMATION STIMULATED WITH Waterfrac 20 using 581 BBLs fluid, 21,450 # 20/40 sand

PERFORATED 1445 TO 1681 NO. OF PERFORATIONS 15 PERFORATION SIZE .39 HSC

FORMATION BROKE DOWN AT 1300 PSIG AVERAGE INJECTED RATE 25.9 BPM

INITIAL SHUT IN PRESSURE 1121 PSIG 5 MINUTE SHUT IN PRESSURE 936 PSIG

FINAL PRODUCTION: () NATURAL (x) AFTER STIMULATION

BOD MCFD HOURS TESTED ROCK PRESSURE HOURS TESTED

ZONE (1) _____

ZONE (2) _____

FINAL PRODUCTION IF GAS ZONES ARE COMINGLED Gas show MCFD 6 HOURS TESTED
302 PSIG 36 HOURS TESTED

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"		21'			

CASING

Circulated
and Cemented

to Surface 8 5/8" 355'

WATER PROTECTION

(Casing Set
According to
Section
45.1-334)

COAL PROTECTION

(Casing Set
According to
Section
45.1-334)

OTHER CASING &

Tubing Left 4 1/2" 2575.80'
In Well 2 3/8" 2534'

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

<u>Geological</u>	<u>General</u>	<u>Depth</u>	<u>Thickness</u>	<u>Remarks</u>	
<u>Age</u>	<u>Formation</u>	<u>Lithology</u>	<u>Color</u>	<u>Top</u> <u>Bottom</u>	

Pennsylvanian	Sands, shales, coal			0	2640	2640	
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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: SDT/TEMP

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> </u>	<u>See attachment</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </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

DIRECTIONAL SURVEYS

PC-2

DEPTH

258
503
721
941
1130
1349
1599
1786
2007
2228

DEGREES

$\frac{1}{2}^{\circ}$
 $\frac{1}{2}^{\circ}$
 $\frac{1}{2}^{\circ}$
 $\frac{3}{4}^{\circ}$
 1°
 1°
 $1\frac{1}{4}^{\circ}$
 1°
 1°
 1°

DF-452

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 2

Well Repository No.: W- ~~2590~~ 7228

Date rec'd: Date Processed: 6/7/90

Sample Interval: from 390 to 2630

PROPERTY: Peter Smith P.C. - 2

Number of samples: 225

COMPANY: EREX

Total Depth: 2590

COUNTY: Dickenson

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
390 - 400	740 - 750	1090 - 1100	1450 - 1460	1800 - 1810
400 - 410	750 - 760	1100 - 1110	1460 - 1470	1810 - 1820
410 - 420	760 - 770	1110 - 1120	1470 - 1480	1820 - 1830
420 - 430	770 - 780	1120 - 1130	1480 - 1490	1830 - 1840
430 - 440	780 - 790	1130 - 1140	1490 - 1500	1840 - 1850
440 - 450	790 - 800	1140 - 1150	1500 - 1510	1850 - 1860
450 - 460	800 - 810	1150 - 1160	1510 - 1520	1860 - 1870
460 - 470	810 - 820	1160 - 1170	1520 - 1530	1870 - 1880
470 - 480	820 - 830	1170 - 1180	1530 - 1540	1880 - 1890
480 - 490	830 - 840	1180 - 1190	1540 - 1550	1890 - 1900
490 - 500	840 - 850	1190 - 1200	1550 - 1560	1900 - 1910
500 - 510	850 - 860	1200 - 1210	1560 - 1570	1910 - 1920
510 - 520	860 - 870	1210 - 1220	1570 - 1580	1920 - 1930
520 - 530	870 - 880	1220 - 1230	1580 - 1590	1930 - 1940
530 - 540	880 - 890	1230 - 1240	1590 - 1600	1940 - 1950
540 - 550	890 - 900	1240 - 1250	1600 - 1610	1950 - 1960
550 - 560	900 - 910	1250 - 1260	1610 - 1620	1960 - 1970
560 - 570	910 - 920	1260 - 1270	1620 - 1630	1970 - 1980
570 - 580	920 - 930	1270 - 1280	1630 - 1640	1980 - 1990
580 - 590	930 - 940	1280 - 1290	1640 - 1650	1990 - 2000
590 - 600	940 - 950	1290 - 1300	1650 - 1660	2000 - 2010
600 - 610	950 - 960	1300 - 1310	1660 - 1670	2010 - 2020
610 - 620	960 - 970	1310 - 1320	1670 - 1680	2020 - 2030
620 - 630	970 - 980	1320 - 1330	1680 - 1690	2030 - 2040
630 - 640	980 - 990	1330 - 1340	1690 - 1700	2040 - 2050
640 - 650	990 - 1000	1340 - 1350	1700 - 1710	2050 - 2060
650 - 660	1000 - 1010	1350 - 1360	1710 - 1720	2060 - 2070
660 - 670	1010 - 1020	1360 - 1370	1720 - 1730	2070 - 2080
670 - 680	1020 - 1030	1370 - 1380	1730 - 1740	2080 - 2090
680 - 690	1030 - 1040	1380 - 1390	1740 - 1750	2090 - 2100
690 - 700	1040 - 1050	1390 - 1400	1750 - 1760	2100 - 2110
700 - 710	1050 - 1060	1400 - 1410	1760 - 1770	2110 - 2120
710 - 720	1060 - 1070	1410 - 1420	1770 - 1780	2120 - 2130
720 - 730	1070 - 1080	1420 - 1430	1780 - 1790	2130 - 2140
730 - 740	1080 - 1090	1430 - 1440	1790 - 1800	2140 - 2150
		1440 - 1450		2150 - 2160

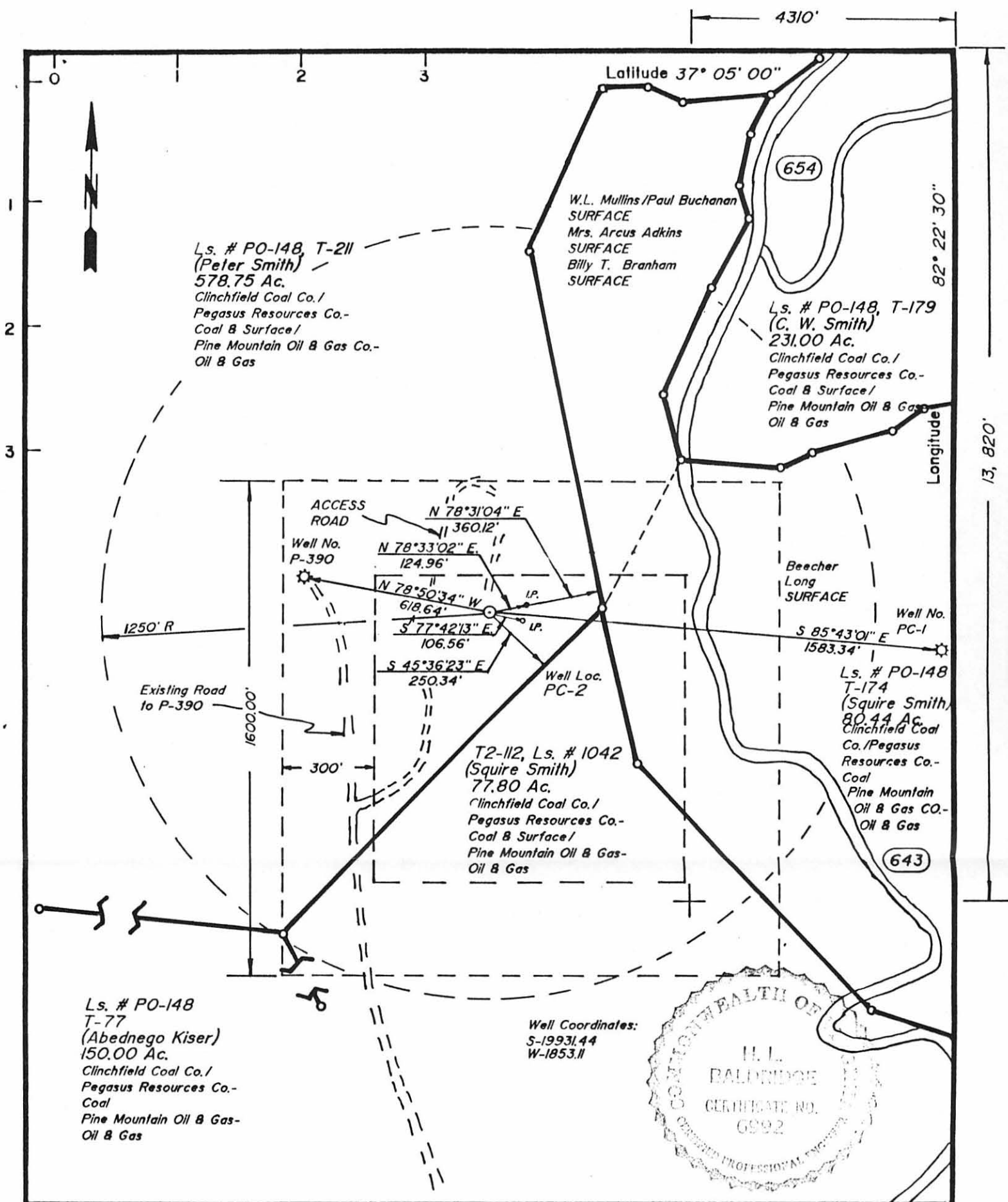
VIRGINIA DIVISION OF MINERAL RESOURCES
 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET
 Continued

Page 2 of 2

Well Repository No.: W- 7228

From-To	From-To	From-To	From-To	From-To
2160 - 2170	2540 - 2550	-	-	-
2170 - 2180	2550 - 2560	-	-	-
2180 - 2190	2560 - 2570	-	-	-
2190 - 2200	2570 - 2580	-	-	-
2200 - 2210	2580 - 2590	-	-	-
2210 - 2220	2590 - 2600	-	-	-
2220 - 2230	2600 - 2610	-	-	-
2230 - 2240	2610 - 2620	-	-	-
2240 - 2250	2620 - 2630	-	-	-
2250 - 2260	2630 - 2640	-	-	-
2260 - 2270	-	-	-	-
2270 - 2280	-	-	-	-
2280 - 2290	-	-	-	-
2290 - 2300	-	-	-	-
2300 - 2310	-	-	-	-
2310 - 2320	-	-	-	-
2320 - 2330	-	-	-	-
2330 - 2340	-	-	-	-
2340 - 2350	-	-	-	-
2350 - 2360	-	-	-	-
2360 - 2370	-	-	-	-
2370 - 2380	-	-	-	-
2380 - 2390	-	-	-	-
2390 - 2400	-	-	-	-
2400 - 2410	-	-	-	-
2410 - 2420	-	-	-	-
2420 - 2430	-	-	-	-
2430 - 2440	-	-	-	-
2440 - 2450	-	-	-	-
2450 - 2460	-	-	-	-
2460 - 2470	-	-	-	-
2470 - 2480	-	-	-	-
2480 - 2490	-	-	-	-
2490 - 2500	-	-	-	-
2500 - 2510	-	-	-	-
2510 - 2520	-	-	-	-
2520 - 2530	-	-	-	-
2530 - 2540	-	-	-	-



COMPANY Equitable Resources Exploration

ADDRESS 1989 E. Stone Drive, Kingsport, TN 37660

WELL NAME PC-2

FARM Peter Smith TRACT T-211

LEASE NO. PO-148 ELEVATION 2321.59

ACRES 578.75 QUADRANGLE Caney Ridge

COUNTY Dickenson DISTRICT Ervinton

REG. ENGINEER X REG. NO. 6992

CERT. LAND SURVEYOR _____ CERT. NO. _____

FILE NO. _____ DRAWING NO. 1899

DATE 6-1-89 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-2

⊕ 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.

CERTIFICATION OF WELL PLAT

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