FAX COVER SHEET

from:

PETCO INCORPORATED
210 E. ALBANY AVENUE
KENNEWICK, WA 99336

Date: 3/24/99

Total Pages: 4 *(coversheet included)*

From FAX #:	To FAX #:
From: ROD PARDEE	To: SUE SMITH
Phone #: 509-582-1101	Phone #: 882-5755

Message: I HOPE THIS ANSWERS THE QUESTIONS. SORRY FOR BEING TARDY WITH THE PAPERWORK, BUT WE ARE STILL TRYING TO FINE TUNE THE SYSTEM. HOWEVER IT IS FUNCTIONING AS DESIGNED AND PRODUCING THE DESIRED END!

Rod Pardee

If any of these pages are unclear, please call.

CUSTOM DESIGNED CATHODIC PROTECTION SYSTEM
FOR
R.H. Smith Distributors
Ecology Site Number: # 4-260087
Toppenish, Washington

Monitoring measurements and data will be recorded as required in CFR 40-280.31 and WAC 173-360-320

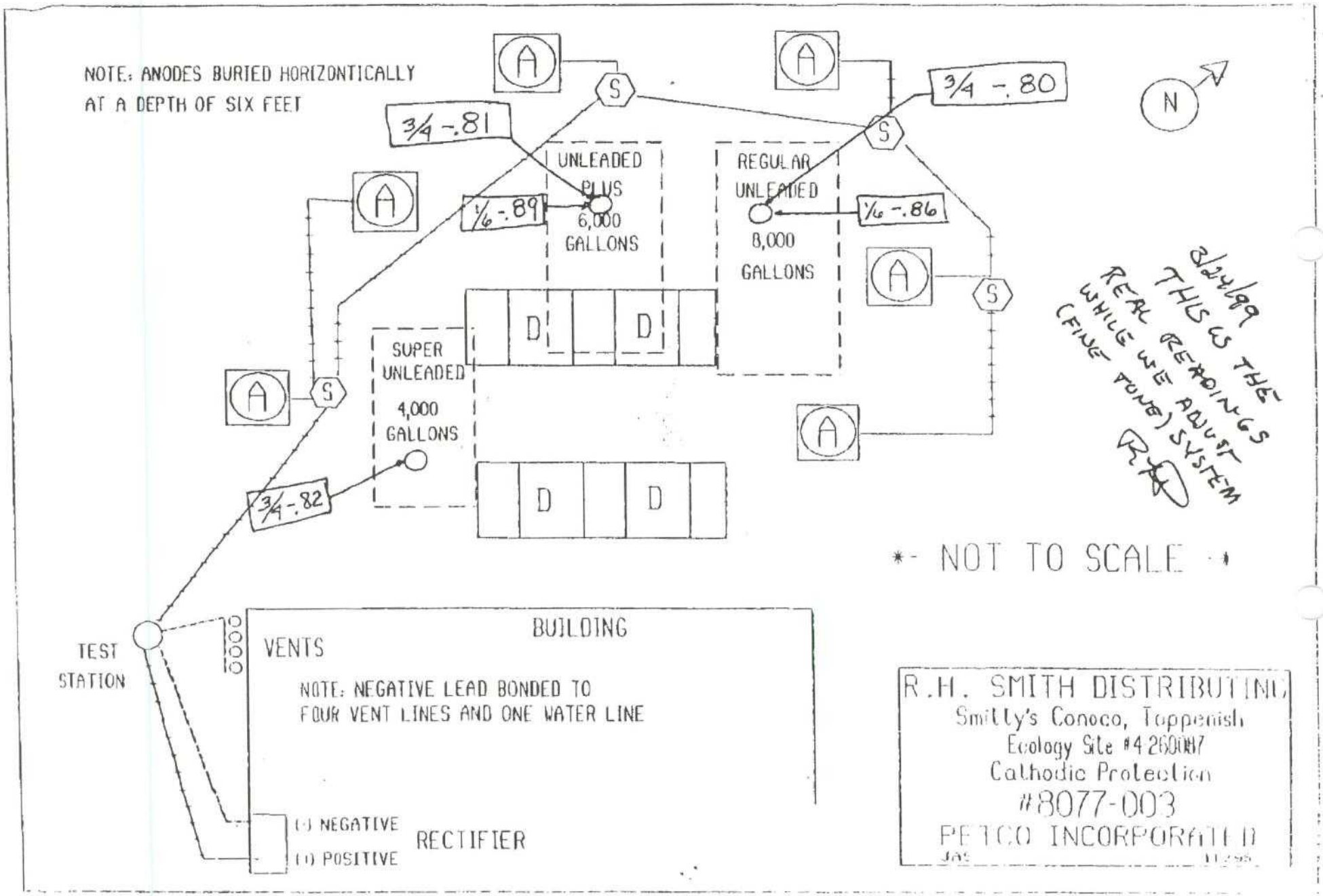
Impressed Current Monthly Monitoring

Year 199 9 Rectifier sn: 984295 model: ES

Month	Date	Voltage	Current	Initials
January	1-6-99	13.2 VDC	1 Amp	JAS
February				
March	3-4-99	13 VDC	1/2 Amp	JAS
April				
May				
June				
July				
August				
September				
October				
November				
December				

THIS IS A COPY OF THE LOG OF RECTIFIER NOT YET TURNED OVER TO R.H.S. /RLP

This Cathodic Protection system was designed and developed by PETCO INCORPORATED, Kennewick, Washington. Phone (509) 582-1101. If problems develop notify your management and call PETCO immediately.


NOTE: ANODES BURIED HORIZONTICALLY
AT A DEPTH OF SIX FEET
A
S
3/4 -.81
3/4 -.80
N
UNLEADED
PLUS
6,000
GALLONS
REGULAR
UNLEADED
8,000
GALLONS
1/6 -.89
1/6 -.86
D
SUPER
UNLEADED
4,000
GALLONS
3/4 -.82
3/24/99
THIS IS THE
REAL READINGS
WHILE WE ADJUST
(FINE TUNE) SYSTEM
* NOT TO SCALE *
TEST
STATION
BUILDING
VENTS
NOTE: NEGATIVE LEAD BONDED TO
FOUR VENT LINES AND ONE WATER LINE
(-) NEGATIVE
(+) POSITIVE
RECTIFIER
R.H. SMITH DISTRIBUTING
Smitty's Conoco, Toppenish
Ecology Site #4 260047
Cathodic Protection
#8077-003
PETCO INCORPORATED

MAR-24-99 12:56 PM PETCO INCORPORATED P.04

Current Requirement Analysis - Tanks Flat ends

DRAFT

PROJECT: Toppensish 8077
OWNER: Smitty CONOCO

Current Requirement Calculations

3 vent lines, each 90 ft
3 fuel lines, each 50 ft
total 420 ft

Input	Tank 1	Tank 2	Tank 3	piping
Tank Diameter (OD):	96 Inches	96 Inches	96 Inches	2 Inches
Length Protected:	204 inches	204 inches	264 inches	5040 inches
% Coated (0.00 - 100):	0 %	0 %	0 %	0 %
% Uncoated (0.00 - 100):	100 %	100 %	100 %	100 %
Coating Deterioration:	2 %/yr	2 %/yr	2 %/yr	2 %/yr
Design Life:	20 Years	20 Years	20 Years	20 Years
Current Density - Well Coated Surface - Polarization:	1 mA/ft²	1 mA/ft²	1 mA/ft²	1 mA/ft²
Current Density - Well Coated Surface - Protection:	0.5 mA/ft²	0.5 mA/ft²	0.5 mA/ft²	0.5 mA/ft²
Current Density - Uncoated Surface - Polarization:	5 mA/ft²	5 mA/ft²	5 mA/ft²	5 mA/ft²
Current Density - Uncoated Surface - Protection:	1.5 mA/ft²	1.5 mA/ft²	1.5 mA/ft²	1.5 mA/ft²
Area at Installation				
Total:	527.8 sq. ft.	527.8 sq. ft.	653.5 sq. ft.	219.9 sq. ft.
Coated:	0.0 sq. ft.	0.0 sq. ft.	0.0 sq. ft.	0.0 sq. ft.
Uncoated:	527.8 sq. ft.	527.8 sq. ft.	653.5 sq. ft.	219.9 sq. ft.
Current Requirements:				
Polarization:	2.64 Amps	2.64 Amps	3.27 Amps	1.10 Amps
Protection:				
Initially:	0.79 Amps	0.79 Amps	0.98 Amps	0.33 Amps
End of Service	0.53 Amps	0.53 Amps	0.65 Amps	0.22 Amps
Average Total Current (ATC)	0.66 Amps	0.66 Amps	0.82 Amps	0.27 Amps

THIS SHOULD ANSWER DESIGN SPEC. QUESTION 3/24/99