

MEI ROSE 2006



506 N DL Ingram, Bldg. 355, Cannon AFB, New Mexico 88103

FACSIMILE TRANSMITTAL

To: Cheryl Frischkorn Fax: 505-428-2567

From: Kristi Doll Date: 10/19/2006

Re: Well 11 at MAFR Pages: 16 including cover page

Cc:

- Urgent
- For review
- Please comment
- Please reply
- Please recycle

Cheryl:

I hope this letter from NMED's Drinking Water Bureau, dated July 2003, will help you along with the survey forms that are specified for this well. If you need anything else, please do not hesitate to contact me.

Thank you,

Kristi Doll



BILL RICHARDSON
GOVERNOR

State of New Mexico
ENVIRONMENT DEPARTMENT

Drinking Water Bureau

100 E. Manana Unit #3

Clovis, New Mexico 88101

Telephone (505) 762-3728 ♦ Fax (505) 769-2527



RON CURRY
SECRETARY

DERRITH WATCHMAN-MOORE
DEPUTY SECRETARY

DW 7/17
DET 7/17
RC 7/17
JKR 7/17
7/31

CERTIFIED MAIL – RETURN RECEIPT REQUESTED - CERT # 7003 0500 0000 8817 6393

1 July 2003

Melrose Bombing Range
Christopher Bohler
208 W. Casablanca Ave.
Cannon AFB, NM 88103

Subject: Sanitary Survey Report (WSS# 803-05)

Dear Mr. Bohler:

Enclosed is a copy of the Sanitary Survey for the water system at the Melrose Bombing Range I conducted on 9 June 2003. You, Phillip Vigil, and Priscilla Andrews accompanied and provided information during the sanitary survey. The purpose of the survey is to evaluate the adequacy of water system's sources, treatment, storage, distribution network, operation and maintenance, and overall management for reliably producing and distributing safe drinking water.

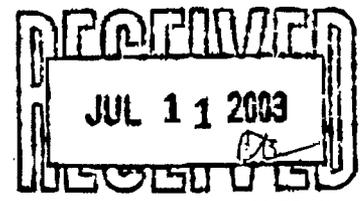
During the course of the survey, the water system appeared to be operating smoothly with no-known major problems. This is to be expected with the many knowledgeable operators associated with the system.

For more detailed information on the findings of this survey, please refer to the enclosed Sanitary Survey Report. Thank you for your cooperation during the survey. If inaccurate information is listed, and if you have any questions regarding this survey, or if you need other assistance with your water systems you may call this office at (505) 762-3728 or email me at don_clark@nmenv.state.nm.us.

Sincerely,

Donald R. Clark, Hydrologist

- cc: Central File
- Clovis File
- Ana Marie Ortiz, Field Operations Division Director
- Jim Perty, Drinking Water Bureau Chief
- Carl Stubbs, NMED District IV Manager





State of New Mexico

ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau
2905 Rodeo Park Drive East - Building 1
Santa Fe, New Mexico 87505
www.nmenv.state.nm.us

**MELROSE BOMBING
RANGE**

GROUND WATER WELL INFO

LIBRARY COPY

submitted 2006



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Handwritten notes:
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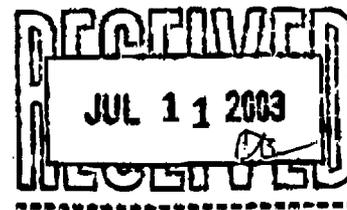
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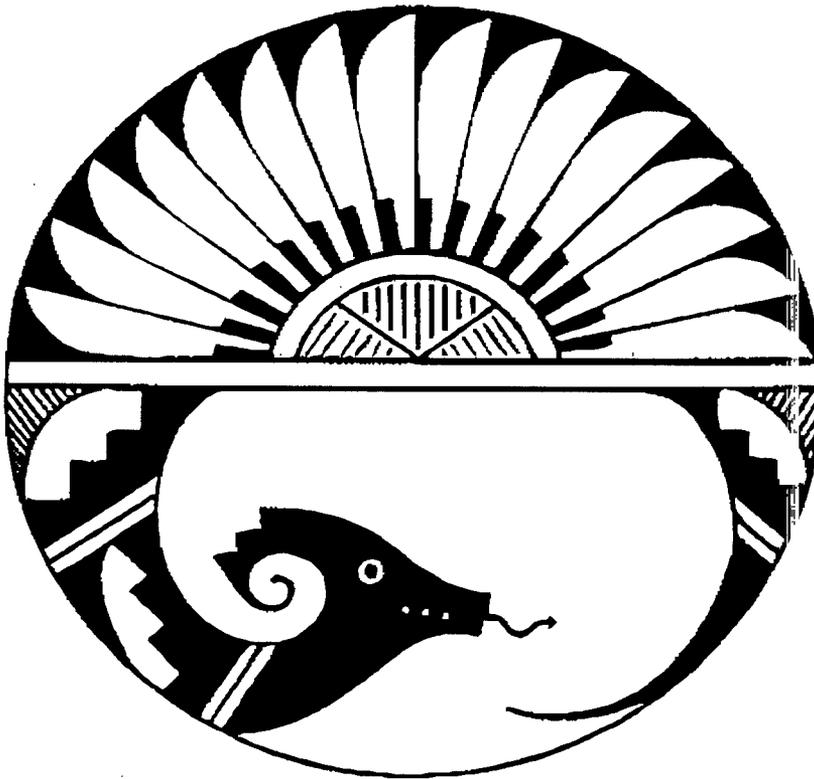
Donald R. Clark, Hydrologist

- cc: Central File
- Clovis File
- Ana Marie Ortiz, Field Operations Division Director
- Jim Perty, Drinking Water Bureau Chief
- Carl Stubbs, NMED District IV Manager



New Mexico Environment Department

Drinking Water Bureau



SANITARY SURVEY REPORT

Melrose Bombing Range

WSS #803-05

9 June 2003

INTRODUCTION

The purpose of a sanitary survey is to evaluate and document the ability of the water system to continually provide safe drinking water. This is accomplished by analyzing the capabilities of the water system's sources, treatment, storage, distribution network, operation and maintenance, and overall management and by identifying any deficiencies that may adversely impact a public water system's ability to provide a safe, reliable water supply. Conducting sanitary surveys on a regular basis is the best means of identifying potential problems and possible reasons for trends in finished water quality and demand that may need to be addressed by enhanced O & M or a system upgrade. Sanitary surveys play a fundamental role in ensuring that reliable and safe drinking water is provided to the public-by-public water systems.

SYSTEM DESCRIPTION

The Melrose Bombing Range water system consists of one production well, a treatment unit, two storage tanks, and the distribution system. Water from the well, located over a mile North of the Ranges Office Complex, provides water that is disinfected using injected hyperchlorination. This treated water is piped to a 25,000-gallon underground tank at the office complex. Water from the tank is either sent to the distribution system or piped up the mesa to a 2,000-gallon storage tank and the distributed from there. A second well, which is now disconnected from the system, is located about 2-miles West of the potable water well. This second well was disconnected due to quality concerns with arsenic and perchlorate contamination.

It is recommended that you review the enclosed sanitary survey form and comments in this report for accuracy. If inaccurate information is listed, please notify me, of the Drinking Water Bureau Field Office - Clovis, at (505) 762-3728, within 30 days of receipt of this report.



NMED - Drinking Water Bureau Sanitary Survey Form



System Info and Contacts

Note: All information on this page required for data entry except for the Additional Basic Information section

PWSSF: 803-05		Water Supply System Name: Metrose Bombing Range		Date: 9-Jun-03							
Basic System Information						Additional Basic Information					
Physical System Location		15 Miles SW of Metrose		Owner: Type Code:	F	Seasonal (Y/N)	N	Required Certification Level For Treatment:	SW	State Corporation Commission #:	UNK
City	Cannon Air Force Base	County	Curry	System Classification (C-NC-NTNC)	NTNC	Seasonal Begin Date:	1-Jan	Required Certification Level For Distribution:	SW	St. Engineer File #:	UNK
State	Phone #	LL Date	9-Jun-03	Service Area Type Code:	IA	Seasonal End Date:	31-Dec	Highest Level Operator employed:	3	State Tax ID#:	UNK
NM	505 784 6986	LL Method	SUR-GPS								
Zip Code	Fax #	Latitude	34 18 41.78	DWB Area Office	Clovis	Average Hours/Day System Is In Prod.	UNK	Number of operators employed:	2	Permitted water Rights:	UNK
88103	505 784 6983	Longitude	103 47 05.03								
WS Legal Entity	Name	Street Address/ P.O. Box		City	State	Zip	Phone #	Legal Entity Type Code	Government Type Code	Professional Qualifications	
Owner	United States Air Force	27 CES/CC 506 N. DL Ingram		Cannon Air Force Base	NM	88103	2009 505 784 6986- 2724 505 784 6983	GA	FD		
Administrative Contact	Christopher Bohler	27 MDG/CC 208 Casablanca Ave.		Cannon Air Force Base	NM	88103	505 784 6986	GA	FD		
Chief Operator	Philip Vigil	107 Engineers Way		Cannon Air Force Base	NM	88103	505 784 6634 505 784 2719	GA	FD	FF	



**NMED - Drinking Water Bureau
Sanitary Survey Form**



General Information

Note: Shaded fields are required for data entry

PWSS#:	003-05	Water Supply System Name:	Malrose Bombing Range	DATE:	9-Jun-03
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Basic Operational Information

Does the system have current As Built Drawings?	Yes	Does the system have a safety program?	Yes
Does the system have standard operation procedures?	No	Does the system have a preventative maintenance program?	Yes
Does the system have construction standards - own or by reference?	Yes	Does the system have an official flushing program?	Yes
Does the system have an operable corrosion control plan?	Yes	Does a formal valve inspection/exercising program exist?	No
Does the system properly test according to the TCR Rule?	Yes	Does the system properly test for Disinfection by Products?	Yes

Source Type

Source Type	Number	% Total Production	Source Type	Number	% Total Production
Wells:	1	100	Surface Intake (Lake or Reservoir):		
Infiltration Galleries:			Surface Intake (Stream or River):		
Purchased Surface Water:			Spring:		
Purchased Ground Water:			Other Source Type:		
If purchased water:	Sellers WSS Code:	% sold	Second Purchased Water Seller:	Sellers WSS Code:	% sold

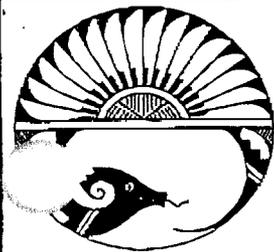
Basic System Statistics

Population Served:	42	Maximum Groundwater Source Production:(MGD)	0.0144	Number of Storage Facilities:	2
Number of connections:	4	Maximum Treatment System Capacity: (MGD)	0.0144	Total System Storage Capacity: (MG)	0.027
Number of metered connections:	None	Average Daily Demand:(MGD)	0.0005	Does System Disinfect?	Yes
# Of Days Without Water Since Last Survey:	None	Peak Daily Demand:(MGD)	0.025	Have Previous Defects Been Corrected:	Yes

Discussed With:	Phillip Vigil, Christopher Bohler, Priscilla Andrews	Date:	09-Jun-03
Survey Conducted By:	Don Clark	Date:	09-Jun-03

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Sanitary Survey Form**

Managerial Information



PWSS #: 803-05 Water Supply System Name: Melrose Bombing Range Date: 9-Jun-03

Financial Information

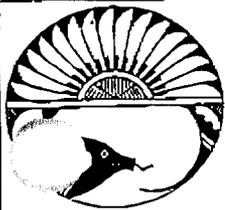
Misc. System Information

Is the system owned and operated as a necessary part of another business. (if Yes skip remaining financial questions.)	Yes	Is management familiar with SDWA regulations and amendments?	Yes
Does the system have and maintain an annual operating budget?	Not Applicable	Does the system maintain records according to Subpart IV of NMED drinking water regulations?	Yes
Does the system have and maintain formalized monthly billing statements?	Not Applicable	Does the system test for contaminants according to NMED regulations? (CHEMICAL, RADIOLOGICAL, ETC)	Yes
Does the system have and maintain an annual financial report?	Not Applicable	Are test results available for public review?	Yes
Does the system maintain funding for emergencies?	Not Applicable	Does the system properly publish public notifications when notified of violations?	Not Applicable
What percentage of budget is reserved for emergencies?	Not Applicable	Does the system have and maintain CCR reports?	Not Applicable
What percentage of monthly income is directed to the revenue fund?	Not Applicable	Are customer water quality complaints recorded and evaluated?	Not Applicable
What is the residential cost per 6000 gallons?	Not Applicable	Does the system maintain an updated list of critical customers?	Not Applicable

Water System Planning

Personnel Information

Does the system know and understand what problems are present within the system?	Yes	Does the system understand the water conservation fee?	Yes
Has management prioritized repair or replacement of deficiencies?	Yes	Does the system pay the water conservation fee?	Yes
Is a written emergency plan established and workable for water outages and other incidents?	Yes	Is there effective communication between system management, DWB and system operator?	Yes
Does the system have a written water conservation plan?	No	What is the system's current staffing level?	2
The systems master development plan is for how many years?	UNK	What is the system's optimum staffing level?	2
Has a source water protection plan been implemented?	No	Is a registered engineer an employee of the system?	Yes
Can the operations staff make required operation decisions?	Yes	Is operations staff appropriately trained?	Yes
Can the operations staff make required administrative decisions?	Yes	Is administrative staff appropriately trained?	Yes
Can the operations staff make required preventative maintenance decisions?	Yes	Does the board of directors have adequate knowledge of the system?	No
Capacity Assessment been completed?	No	Do all positions have a job description?	Yes



**NMED - Drinking Water Bureau
Sanitary Survey Form**



Source Information

Note: Shaded fields are required for data entry

PWSS#:	803-05	Water Supply System Name:	Metrose Bombing Range				DATE:	8-Jun-03	
WSF ID#	1	Water Supply Facility Name:	Well #1 Well 11						
Source Codes			Basic Well Information						
Water Type Code:	GW	SEO Well #:	UNK	Screen Depth: (ft.)	170	Gravel Pack Depth: (ft.)	UNK		
Facility Type Code:	WL	Date Equipped:	1993	Casing Type:	Steel	Type of Pump:	Submersible, 1 H		
Activity Code: (I,A)	A	Well Depth: (ft)	200	Casing Diameter: (in.)	6	Pump setting: (ft.)	UNK		
Availability Code: (P,A,E, etc.)	P	Static Water Level: (ft)	135	Casing Depth: (ft.)	170	Pump Capacity: (gal/min)	10		
Date Constructed:	1968	Drawdown: (ft)	UNK	Depth of Grout: (ft.)	UNK	Wellhead Elevation:	4242		
Well Conditions									
Is site security adequate? (p 4-5)			Yes	Does the casing extend at least 18" above ground level? (3-13)			Yes		
Is well house or pump subject to flooding? (p 4-5)			No	Is the well vent height at least 18" above ground level? (3-11)			Yes		
Is pump protected from the elements? (p 4-5)			Yes	Is a sanitary seal present and intact?			Yes		
Is general housekeeping of well house or pump house adequate?			Yes	If turbine pump lubricant approved?			Submersible		
Does all equipment have adequate access for repair or replacement?			Yes	Condition of turbine pump lubricant?(clean, dirty, empty)			Submersible		
Is the overall condition of the pump good? (4-11)			Yes	Is a concrete pad around the well head?			Yes		
Is lightning protection available for pump? (4-18)			Yes	Are any cross-connections present? (p 4-14)			No		
Is all equipment secured against the elements, insects and animals?			Yes	Has well been tested as a GWUDI?			No		
Type of alarm present for pump failure? (p 4-18)			None	Does the well need a GWUDI test?			No		
Is the pumping system equipped with the following?			Check Valve	Isolation Valve	Pressure Gauge	Relief Valve	Flow Meter	Sampling Tap	Disinfection System
			Yes	Yes	Yes	Yes	Yes	Yes	



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Sanitary Survey Form

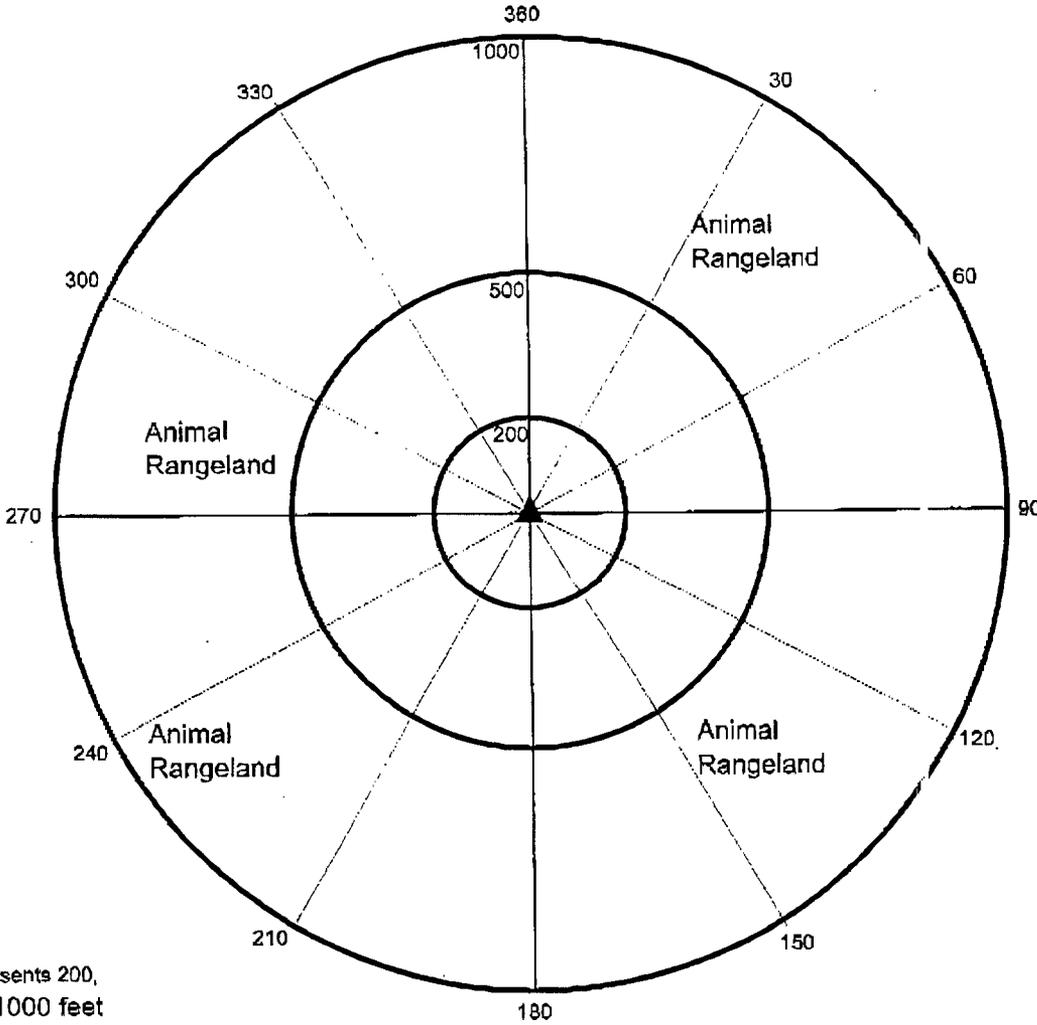


Contaminant Plot

WSS #: 803-05

Facility Name: Well #1 Well #1

Date: 9-Jun-03



LIST CONTAMINANT SOURCE, DESCRIPTION AND DISTANCE FROM WATER SOURCE

Code	Description	Distance		Code	Description	Distance
ARL	Animal Rangeland	20				

**NMED - Drinking Water Bureau
Sanitary Survey Form**



Storage Facility

PWSS# :	803-05	Water Supply System Name:	Melrose Bombing Range	Date:	9-Jun-03
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WSF ID#		Water System Facility Name:	Underground Tank
---------	--	-----------------------------	------------------

Design and Maintenance for Storage Facilities

Type of Material:	Fiberglass	Cathodic Protection (Y/N)	N	Ave. Detention Time (days):	UNK
Capacity (MG):	0.025	Internal Condition:	UNK	Air Vent Screened (Y/N):	Y
Date Constructed:	1966	Type of Internal Paint:	UNK	Adequate Site Security(Y/N)	Y
Date Rehabilitated:	UNK	External Condition:	Good	Overflow Screened (Y/N)	Y

Is tank (floating or direct pump) (P 5-8)	Floating	Are cathodic access panels sealed? (Y/N) (P 5-11)	Not Applicable
Do overflow lines and drain lines Terminate 12" - 18" above grade (Y/N) (P 5-10)	Y	Is the access hatch properly designed and constructed? (P 5-11)	Y
Are splash pads provided for overflow and drain lines (Y/N) (P 5-10)	Y	Is access hatch locked (Y/N) (P 5-11)	Y
Can storage tank be isolated from system (Y/N) (P 5-12)	Y	Are roof penetrations for Indicator properly sealed (Y/N) (P5-11)	Y
Is tank structurally sound (Y/N)? (P 5-22)	Y	Is the storage tank properly vented?	Y
Is or can short-circuiting occur (Y/N)	N	Is the air vent a minimum of 6" above storage tank surfs be and protected from rain? (Y/N) (P5-10)	Y
Is Routine Inspection, maintenance, and cleaning conducted on tanks(Y/N) (P 5-13)	Y	Does level Indicator work Properly (Y/N)? (P 5-9)	Y

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Sanitary Survey Form

Storage Facility



PWSS#: 803-05 Water Supply System Name: Meirose Bombing Range Date: 9-Jun-03

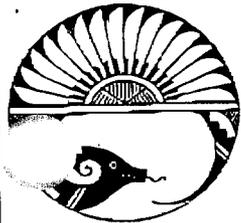
WFS ID# Water System Facility Name: Mesa Tank

Design and Maintenance for Storage Facilities

Type of Material:	Steel	Cathodic Protection (Y/N)	N	ave. Detention Time (days):	UNK
Capacity (MG):	0.002	Internal Condition:	UNK	is Air Vent Screened (Y/N):	Y
Date Constructed:	1996	Type of Internal Paint:	UNK	Adequate Site Security(Y/N)	Y
Date Rehabilitated:	UNK	External Condition:	Good	Overflow Screened (Y/N)	Y

Is tank (floating or direct pump) (P 5-8)	Floating	Are cathodic access panels sealed? (Y/N) (P 5-11)	Not Applicable
Do overflow lines and drain lines Terminate 12" - 18" above grade (Y/N) (P 5-10)	Y	Is the access hatch properly designed and constructed (P 5-11)	Y
Are splash pads provided for overflow and drain lines (Y/N) (P 5-10)	Y	Is access hatch locked (Y/N) (P 5-11)	Y
Can storage tank be isolated from system (Y/N) (P 5-12)	Y	Are roof penetrations for indicator properly sealed (Y/N) (P5-11)	Y
Is tank structurally sound (Y/N)? (P 5-22)	Y	Is the storage tank properly vented?	Y
Is or can short-circuiting occur (Y/N)	N	Is the air vent a minimum of 6" above storage tank surface and protected from rain? (Y/N) (PS-10)	Y
Is Routine inspection, maintenance, and cleaning conducted on tanks(Y/N) (P 5-13)	Y	Does level indicator work Properly (Y/N)? (P 5-9)	Y

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Sanitary Survey Form**



Pressure Tanks

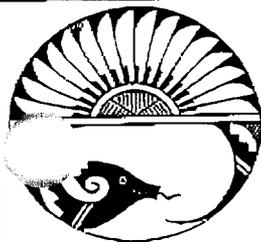
PWSS# :	803-05	Water Supply System Name:	Melrose Bombing Range	Date:	9-Jun-03
WSF ID#		Water System Facility Name:	Pressure Tank #1		

General Pressure Tank

Volume (Gallons):	300	Type of pressure tank(s) (water, bladder, conventional, etc.)	Conventional
Age (Years):	17	Is a booster pump attached (Y/N)?	No
Cycle Rate: (on/off per hour)	UNK	Horsepower of booster pump?	Not Applicable
Air/Water Ratio: (P 5-21)	UNK	Pressure tank(s) operational settings (high & low); in psi	40
Is pressure system adequate to maintain system pressure?	Yes	Are pressure tank(s) controls and instruments in working order? (P 5-20)	Yes
Number of pressure tanks on system?	1	External condition of pressure tank(s).	Good

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Sanitary Survey Form**

Disinfection



PWSS# :	803-05	Water Supply System Name:	Melrose Bombing Range	Date:	9-Jun-03
WSF ID #	3	Water Supply Facility Name:	Well #11 Well 4 Treatment Unit		

Hypochlorination		Gas Chlorination Checklist	
What type of hypochlorite is used?	Sodium	Is a method for leak detection present?	
Is solution adequately mixed?	Yes	Have automatic detectors been tested recently?	
Is Solution tank covered?	Yes	What is the detector setting? (ppb)	
Are there adequate spill containment provisions?	Yes	Is the chlorination equipment properly contained?	
Are safe practices followed during chemical handling and mixing?	Yes	Is the chlorination room vented properly?	
Chlorine Information		Does the chlorination room door open out with a panic bar?	
What reagent used for residual samples?	Yes	Are cross connections present in the chlorination room?	
What is chlorine feed rate? (ml/l)	1	Is the alarm tied to interruptions in the chlorine feed?	
Is contact time adequate?	Yes	Does the chlorine system have automated feed rate and chlorine residual monitor?	
Have interruptions occurred in disinfection?	No	If more than one gas cylinder, is there an automatic switchover between tanks?	
Ultraviolet Disinfection		Are the cylinders on a working scale?	
What is the diameter of the UV shell? (cm)		Is a wrench in place on open gas cylinders?	
What is the diameter of the lamp? (cm)		Are all gas cylinders properly marked and restrained?	
What is the water turbidity? (NTU)		Is ammonia available for testing leaks?	
Is the lamp wiper operable?		Are there adequate leak containment provisions?	
How often do they use the wiper? (days)		Are safe practices followed during cylinder repair and replacement?	
What is the units intensity? (mW.sec/cm2)		What type of respiratory protection is provided?	
Mixed oxidants (Miox, Chlortec)		How many individuals are present during cylinder repair or replacement?	
Is hydrogen gas properly vented?		Is an emergency plan in place?	
How often contacts cleaned (how often)?(Months)		How long since the emergency plan was last practiced?	
Condition of water softener cartridge?		What is the operating condition of the chlorinator?	
Condition of softening process?		Is appropriate lighting, guardrails, etc. in place?	



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Distribution Information

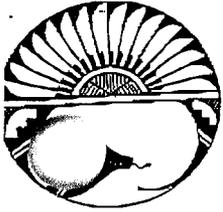
PWSS #:	803-05	Water Supply System Name:	Melrose Bombing Range	Date:	9-Jun-03
WSF ID #		Water System Facility Name:			

Distribution Piping Information

Length of Distribution (Feet)		14,000	If system is metered what is the Monthly Water Loss				UNK							
			% of Service Connections	% of overall leaks	Age of mains			% Of Pipe With Diameter Equal to or Less Than						
Pipe Material	% of Main Distribution			< 10 years	10 - 25 years	> 25 years	2"	4"	6"	8"	10"	12"	14"	16"
PVC:	100			30	70		100							
C 900:														
Ductile Iron:														
Cast Iron:														
Galvanized Steel:														
Concrete:														
HDPE:														
Copper:														
Other:														

General Questions

System Pressure Range (psi) (25-100 PSI)	40	Are system maps updated regularly or as needed?	Yes
Lowest elevation in system (ft)	4242.125984	Is the system interconnected with any other systems?	No
Highest elevation in system (ft)	4600	Are there any known cross connections?	No
Number of pressure zones?	2	Are the backflow prevention assemblies properly tested at least annually? (P 7-13)	Yes
Number of fire hydrants? (P 7-7)	None	Does the system have adequate valving to perform needed maintenance and repairs?	Yes
Are flush hydrants located at dead ends? (P 7-18)	Yes	Do PRVs and altitude valves work properly?	Yes
Number of Flush hydrants? (P 7-18)	2	Are lines properly disinfected after repairs or new construction?	Yes
Number of dead end lines? (P 7-12)	2	Are thrust blocks or restraints used at all fittings?	UNK
Are any air relief valves subject to flooding?	No	Are pressure and leak tests performed and passed on all installations?	Yes
Does the System have areas with five-foot or greater distribution?	Yes	Can distribution breaks be readily repaired?	Yes
Are all materials ANSI/NSF certified?	Yes		



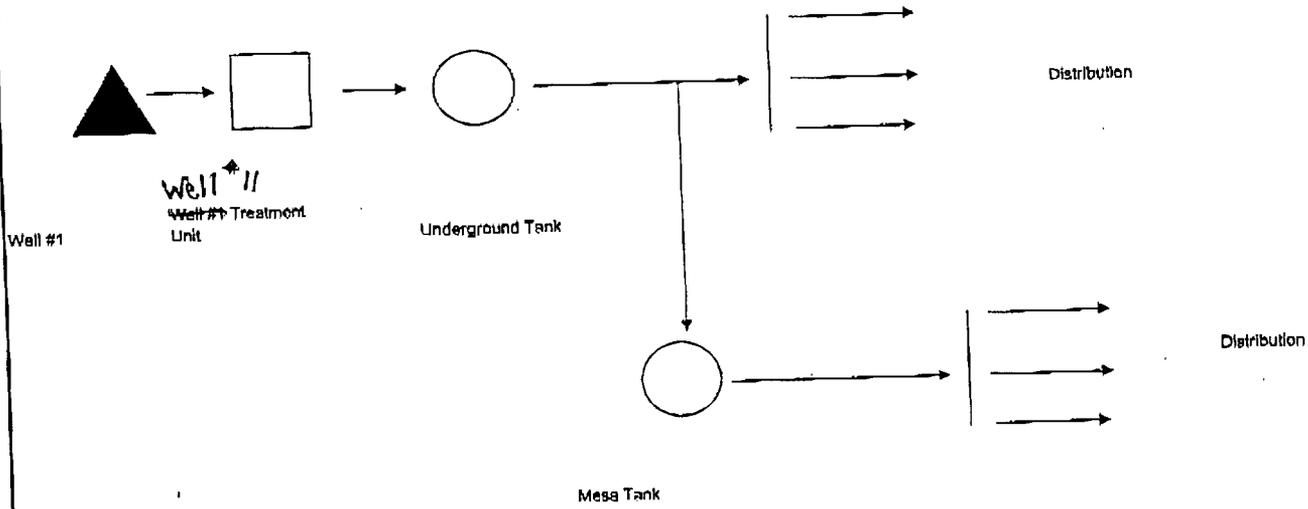
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Sanitary Survey Form



System Schematic

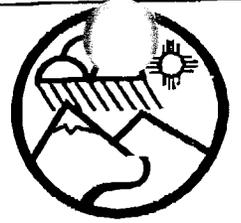
PWSS #:	803-05	Water Supply System Name	Metrose Bombing Range	Date:	9-Jun-03
WSF #		Water System Facility Name			



NMED Drinking Water Bureau
Sanitary Survey Form

System Nodes and WSF #'s

Note: All information on this page required for data entry.



34 317
-103, 0647

PWSS#		803-C5		Water Supply System Name:		Mesa Bombing Range						Date: 09-Jun-03			
WSF ID #	Node ID #	WSF Code	Water System Facility Name:	Treatment Objective Code	Treatment Process Code	Sample Point (Y/N)	Entry Point (Y/N)	Latitude	Longitude	LL Date	LL Method	LL Datum	LL Desc.	Previous Node #	Next Node #
1	1	WL	Well # 11	N	0	Y	N	34 18 41.78	103 47 05.03	09-Jun-03	SUR-GPS	WGS 1984			2
3	2	TP	Well # 11 Treatment Unit	D	421	N	N	34 18 41.78	103 47 05.03	09-Jun-03	SUR-GPS	WGS 1984		1	3
	3	BT	Underground Tank	N	0	N	N	34 17 38.94	103 47 11.35	09-Jun-03	SUR-GPS	WGS 1984		2	4, 5
	4	ST	Mesa Tank	N	0	N	N	34 18 53.22	103 45 17.20	09-Jun-03	SUR-GPS	WGS 1984		2	5
	5	DS	Distribution	N	0	Y	Y	34 17 38.94	103 47 11.35	09-Jun-03	SUR-GPS	WGS 1984		3, 4	

POWER LINE
WATER LINE

DIRT ROAD

LOCATION OF FORMER TRENCH

POWER LINE
WATER LINE

S114SB01

M114MW002

N 34 18 429
W 103 47 148

M114MW001

N 34 18 419
W 103 47 119

Photos
08/10

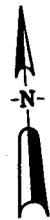
M114MW003

397
N 34 19 ~~119~~ M
W 103 47 ~~119~~

S114SB02

S114SB03

Handwritten: New 16
N 34 18 426
W 103 47 092
M114MW004
photo 11
USGS well



0 100
Scale in Feet

LEGEND:

— RFI Investigation Area

○ Depression

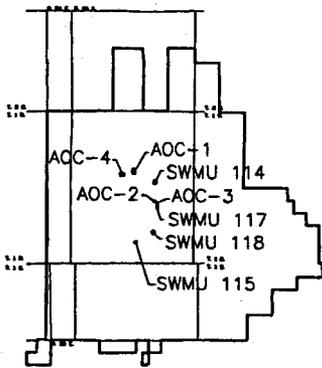
M114MW001

⊕ Monitoring Well Location

S114SB01

■ Soil Sample Location (2002)

INDEX MAP



FOSTER WHEELER ENVIRONMENTAL CORPORATION

DATE: 04/09/02
SCALE: 1:100
DRAWN: REP

FIGURE 2-2 SWMU 114 SITE MAP

U.S. ARMY CORPS OF ENGINEERS, CHINA DISTRICT
MELROSE BARRACKS RANGE
CANNON AIR FORCE BASE

Vertical text on left margin: PROJECT: SWMU 114 Add - Draft ST_S114_2002.DWG
DATE: 12/24/02
PLOT/UPDATE

P105
23 NE
24

M115SB004

M115SB002

S115SB01

DRAINAGE

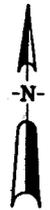
M115SB003

S115SB02

M115SB001

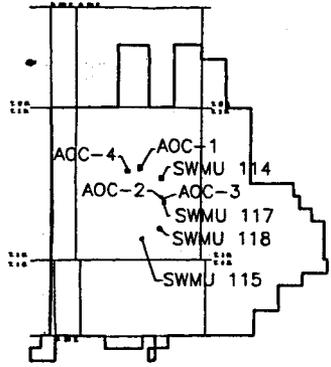
LEGEND:

-  RFI Investigation Area
-  Surface Drainage
-  M115SB003 Borehole Location (1995)
-  S115SB01 Soil Sample Location (2002)



0 75
Scale in Feet

INDEX MAP



FOSTER WHEELER ENVIRONMENTAL CORPORATION

DATE: 04/09/02
SCALE: 1:75
DRAWN: REP

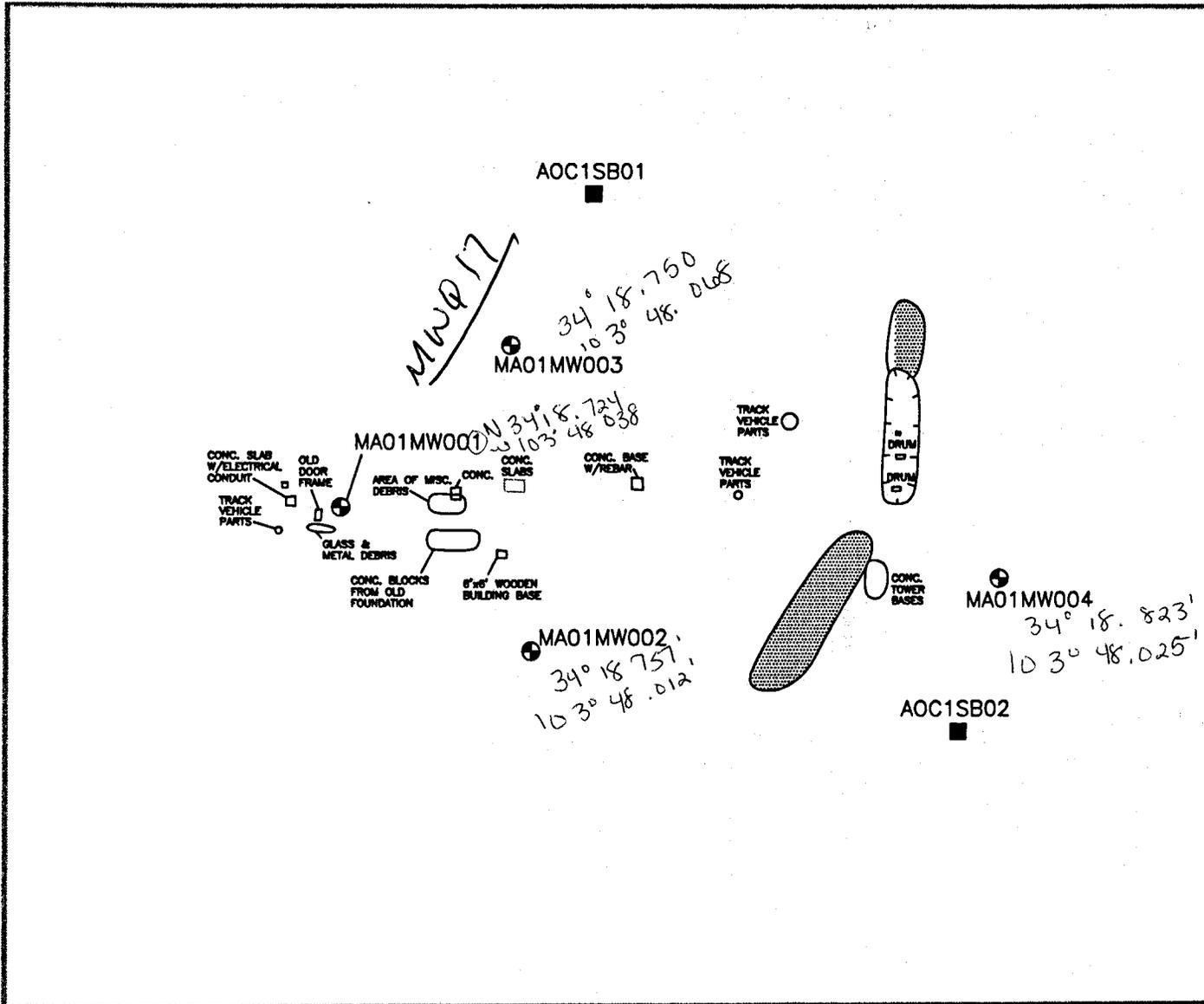
FIGURE 2-3 SWMU 115 SITE MAP

U.S. ARMY CORPS OF ENGINEERS, OMAHA DISTRICT
MELROSE BOMBING RANGE
CANNON AIR FORCE BASE

I:\Projects\2002\env\env\add - Draft\PT_0115_2002.dwg
15/07/02
15/07/02

DIRT ROAD

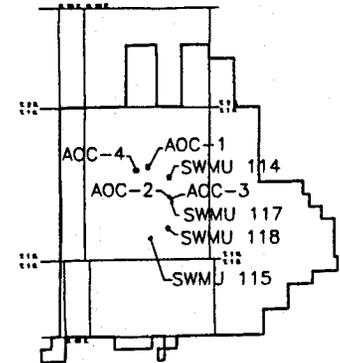
BARB WIRE FENCE



LEGEND

- RFI Investigation Area
- ⊖ Depression
- ⊕ Mound
- MAO1MW004 ⊕ Monitoring Well Location
- AOC1SB01 ⊖ Soil Sample Location (2002)

INDEX MAP



FOSTER W WHEELER ENVIRONMENTAL CORPORATION

DATE: 04/09/02

SCALE: 1:150

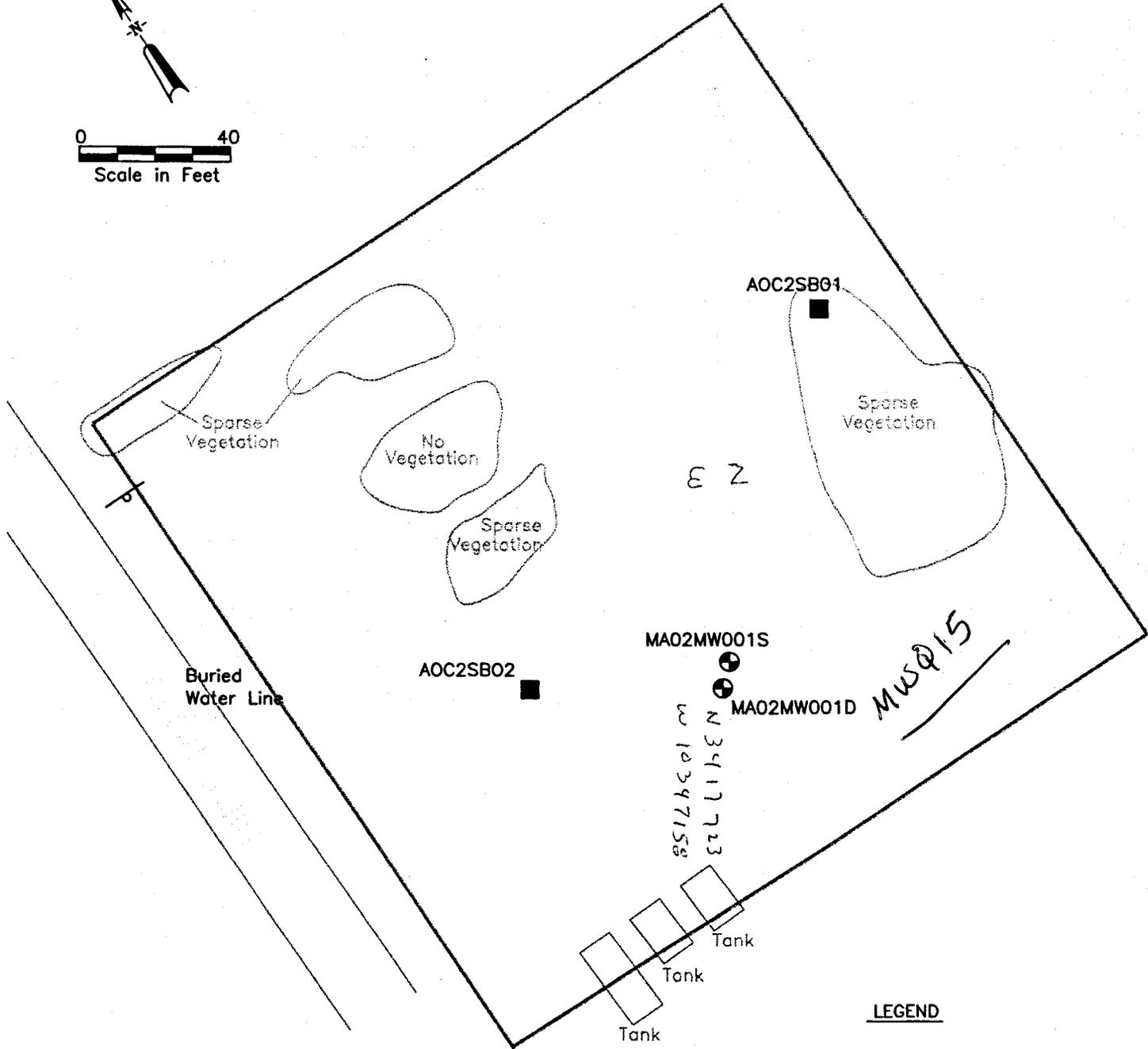
DRAWN: REP

FIGURE 2-5 AOC-1 SITE MAP

U.S. ARMY CORPS OF ENGINEERS, CANAWA DISTRICT
DELHIDE DIVISION PLANS
CANNON AIR FORCE BASE



0 40
Scale in Feet



Buried Water Line

AOC2SB02

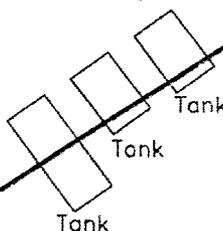
AOC2SB01

MAO2MW001S

MAO2MW001D

N 3411723
W 10347158

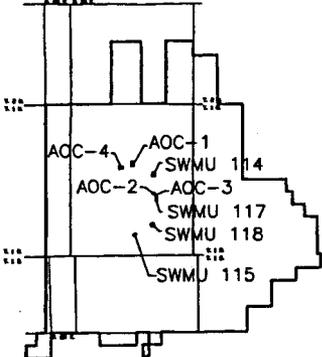
MW015



LEGEND

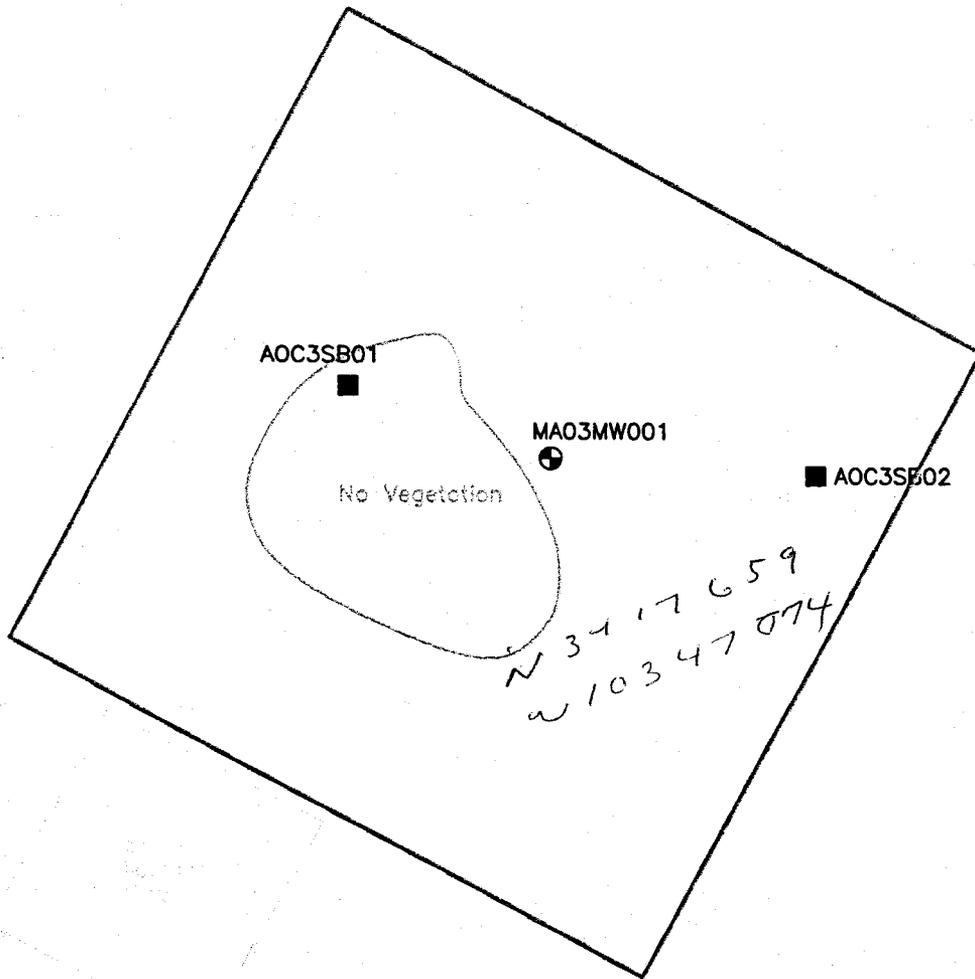
- RFI Investigation Area
- MAO2MW001 Monitoring Well Location
- AOC2SB01 Soil Sample Location (2002)

INDEX MAP



PROJECTS\M0 - Drawn\LT_MAO2_2002.DWG
14.34.01
PROJECTS\M0 PLOT/UPDATE

FOSTER WHEELER ENVIRONMENTAL CORPORATION	
DATE: <u>04/09/02</u>	FIGURE 2-6 AOC-2 SITE MAP <small>U.S. ARMY CORPS OF ENGINEERS, OMAHA DISTRICT WHEELER BOMBING RANGE CANNON AIR FORCE BASE</small>
SCALE: <u>1:40</u>	
DRAWN: <u>REP</u>	

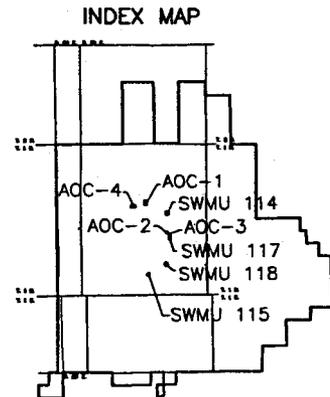
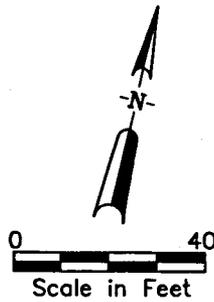


J:\Projects\AOC3 - Draft\ST_MA03_0002.DWG
 14.08.02

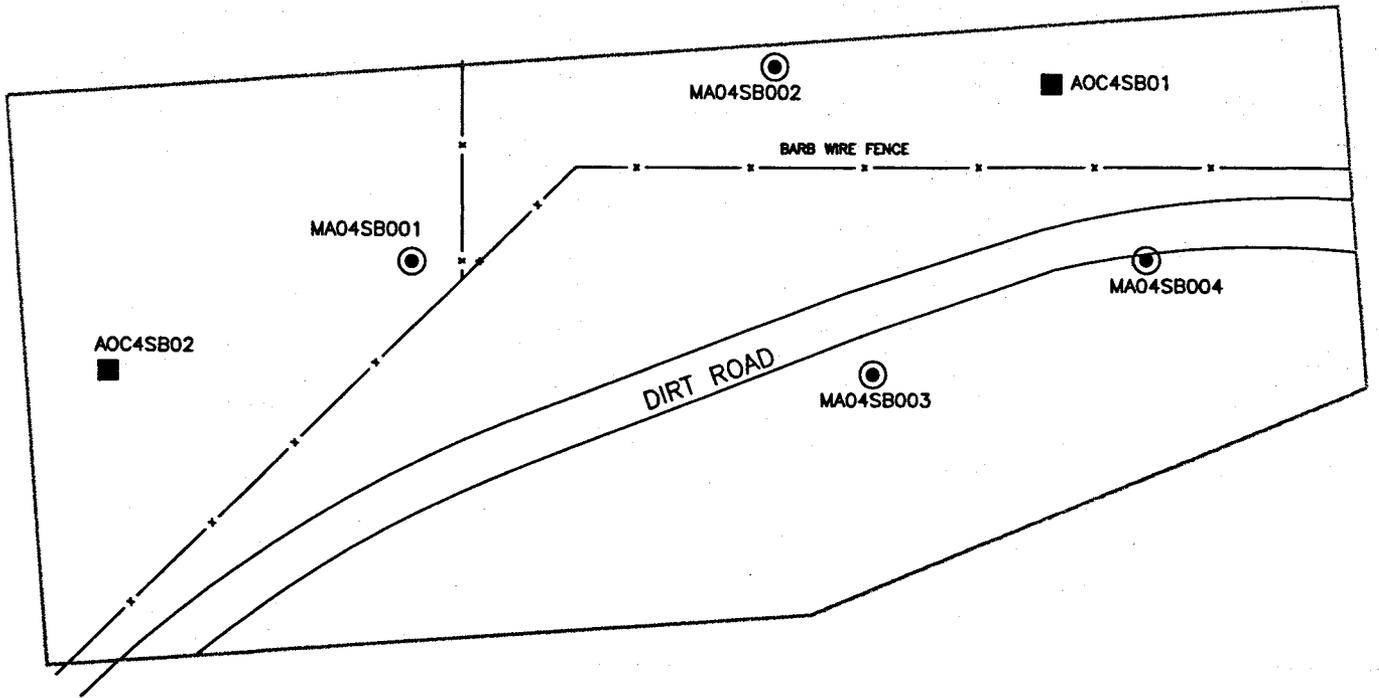
J:\Projects\AOC3 - Draft\ST_MA03_0002.DWG
 14.08.02

LEGEND:

- RFI Investigation Area
- MA03MW001  Monitoring Well Location
- AOC3SB01  Soil Sample Location (2002)



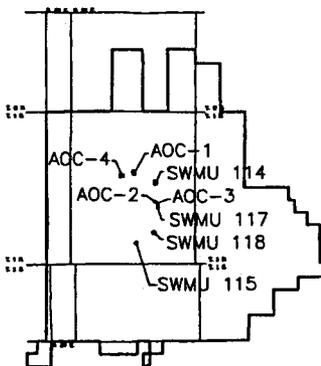
FOSTER  WHEELER ENVIRONMENTAL CORPORATION	
DATE: <u>04/09/02</u> SCALE: <u>1:40</u> DRAWN: <u>REP</u>	FIGURE 2-7 AOC-3 SITE MAP <small>U.S. ARMY CORPS OF ENGINEERS, OHAMA DISTRICT MELROSE BOMBING RANGE CHURCH AIR FORCE BASE</small>



LEGEND:

- RFI Investigation Area
- Fence
- Road
- MA04SB003 Borehole Location (1995)
- AOC4SB01 Soil Sample Location (2002)

INDEX MAP



R:\WORK\RTM\AM - DW\RTM\ST_MA04_2002.DWG
 18.02.24

S:\PROJECTS\WEL\PLAT\UPDATE

**FOSTER WHEELER
ENVIRONMENTAL CORPORATION**

DATE: 04/09/02

SCALE: 1:100

DRAWN: REP

**FIGURE 2-8
AOC-4 SITE MAP**

U.S. ARMY CORPS OF ENGINEERS, CHAMPAIGN DISTRICT
WHEELER SOILS AND WATER
CANNON AIR FORCE BASE

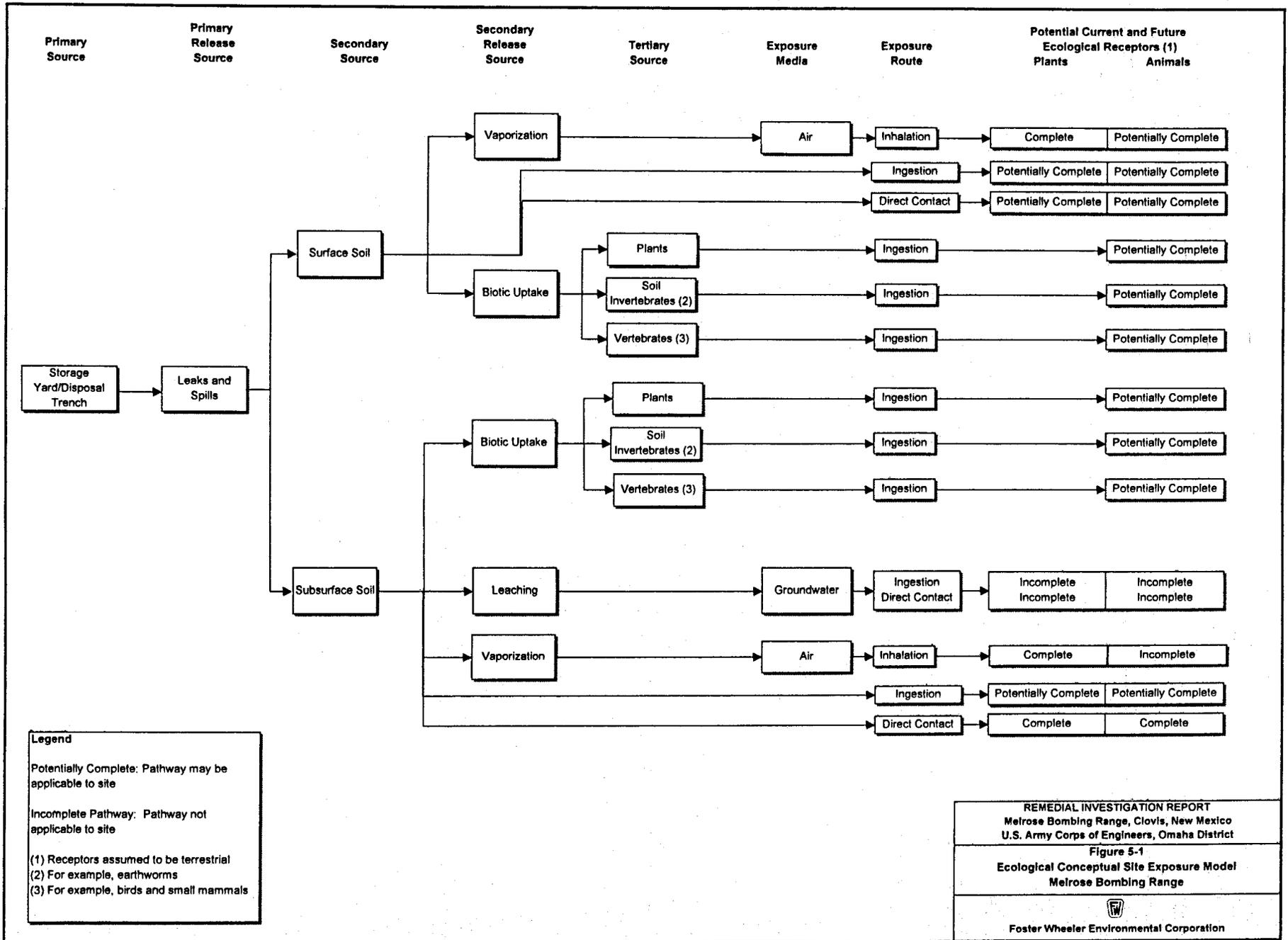


fig 5-1.xls

Frischkorn, Cheryl, NMENV

From: Zamie Pete P Civ 27 CES/CEVC [Pete.Zamie@cannon.af.mil]
Sent: Wednesday, June 14, 2006 9:09 AM
To: Frischkorn, Cheryl, NMENV
Subject: Meeting Info

Cheryl,

ACC asked for the meeting to discuss an NFA request for the 3 LTMs (LFs 3, 4 & 25). They have a little slide show to present. I am bringing copies of the reports you need before you can decide on the NFA. I am still working on the MAFR well stuff and will bring some documents that should have what you are looking for if we can decipher it.

See you tomorrow.

Peter P. Zamie, P.E.
Remedial Project Manager
 27 CES/CEVR
 506 N. DL Ingram
 Cannon AFB, NM 88103

From: Frischkorn, Cheryl, NMENV [mailto:cheryl.frischkorn@state.nm.us]
Sent: Thursday, June 01, 2006 9:28 AM
To: Zamie Pete P Civ 27 CES/CEVC
Subject: RE:

Hey Pete, good to hear from you.

Got a question for you.....I need some information on the supply well(s) at Melrose (total depth, depth and length of screen, location, what they are use for specifically, do human drink it? or is the water from the wells non-potable and strictly used for irrigation). I need this info to complete the CA 725.
 In addition, please e-mail me an agenda for our meeting on the 15th. Nothing elaborate. Just something so I can be prepared.

Call or write me with any questions.
 Have a safe and happy weekend, Cher

Cheryl Frischkorn
 Environmental Specialist/Scientist/Geologist
 New Mexico Environment Department-HWB
 2905 Rodeo Park Drive East, Building 1
 Phone: 505-428-2550
 Fax: 505-428-2567

From: Zamie Pete P Civ 27 CES/CEVC [mailto:Pete.Zamie@cannon.af.mil]
Sent: Thursday, June 01, 2006 7:29 AM
To: Frischkorn, Cheryl, NMENV
Subject: RE:

6/14/2006

Hi,
I'm in today and then gone 'til Monday. See you on the 15th.

Peter P. Zamie, P.E.
Remedial Project Manager
27 CES/CEVR
506 N. DL Ingram
Cannon AFB, NM 88103

From: Frischkorn, Cheryl, NMENV [mailto:cheryl.frischkorn@state.nm.us]
Sent: Tuesday, May 30, 2006 9:03 AM
To: Zamie Pete P Civ 27 CES/CEVC
Subject:

Hi Pete....are you there today?
Everything is cool on this side for our June 15th, 2006 meeting, here at 8:00 am.
Call or e-mail me.
Cheryl

Cheryl Frischkorn
Environmental Specialist/Scientist/Geologist
New Mexico Environment Department-HWB
2905 Rodeo Park Drive East, Building 1
Phone: 505-428-2550
Fax: 505-428-2567

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Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

DEPARTMENT OF THE AIR FORCE
27TH CIVIL ENGINEER SQUADRON (ACC)
CANNON AIR FORCE BASE NEW MEXICO

13 JUN 1996

MEMORANDUM FOR 27 CE/CEC

FROM: 27 CE/CEV

SUBJECT: New Mexico Environment Department (NMED) Approval Letter, Project
CZQZ 940102, Install Pump/Main for Well MAFR

1. Reference my 15 May 96 memorandum, subject: Approval Status on Project CZQZ 940102, Install Pump/Main for Well MAFR.
2. The NMED approval letter for subject project at Attachment 1 is provided for your information and use. Conditions for approval (1), (2), and (3) identified in the attached letter were conveyed to you in referenced letter. The siting requirements addressed in condition (5) references Section 109 of the NMED Drinking Water Regulations; a copy of this section is provided at Attachment 2.
3. Request that your staff provide Mr. John Rebman, Environmental Flight, with a schedule for this work. As you are aware, personnel from the NMED District IV office in Roswell and the Clovis office have expressed interest in the construction of this system. Obviously, they are not interested in each phase of this project (e.g., electrical connections, trenching, etc.); therefore, a schedule would be useful in planning their site visit(s).
4. A copy of this approval letter is being sent to Mr. Pat Sears and Mr. Phillip Vigil (Water Plant Supervisor) as these individuals were identified on the *Application for Approval of Construction or Modification of a Public Water Supply System* form submitted to the NMED on 8 May 96.
5. The approval letter is dated 17 May 96; however, the original has not been located. Mr. Rebman requested that a faxed copy be provided. If you have any questions, please contact him at 2739.



CHRISTOPHER L. HARRELL, Major, USAF
Chief, Environmental Flight

Attachments:

1. Approval Letter
2. Drinking Water Regulation Excerpt

cc:

27 CE/CECN (P. Sears)

~~27 CE/CEOW (P. Vigil)~~

27 AMDS/SGPB (Maj Dezell)

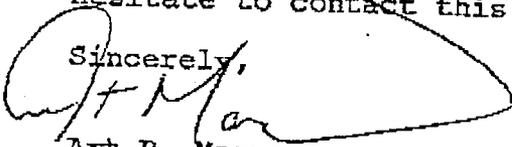
Page 2
May 17, 1996
W. P. Ard, Colonel, USAF

- (4) All new pvc pipe less than 4 inch diameter shall be approved by the National Sanitation Foundation or equivalent authority for contact with potable water.
- (5) The existing well shall be in compliance with all applicable siting requirements as described under Section 109 of the New Mexico Department Drinking Water Regulations.
- (6) There shall be no piping arrangement or connection by which an unsafe substance may enter the public water supply.

Thank you for the cooperation your staff has shown this department.

Should any questions arise pertaining to this review, please do not hesitate to contact this office.

Sincerely,



Art B. Mason
District IV Engineer

cc: Gary McCaslin, District IV Manager
Dave Tanner, HPM I - Clovis
Brown Edwards, Env.-Clovis
Mr. Patrick Sears, PE
Mr. Phillip Vigil

g. In requiring the use of a point-of-entry device as a condition for granting an exemption from the treatment technique requirements for lead and copper under Section 1004 or 1005 of this Part, the Department must be assured that use of the device will not cause increased corrosion of lead and copper bearing materials located between the device and the tap that could increase contaminant levels at the tap.

108. INSPECTIONS -- INVESTIGATIONS -- SANITARY SURVEYS -- PROCEDURE.--

A. The Secretary may, upon the presentation of proper credentials and after receiving consent from the supplier of water, enter at reasonable times upon or through the premises of any water supply system subject to this Part and during such inspection or investigation:

1. have access to and copy, at reasonable times, any records required to be established and maintained by regulations of the Board;
2. inspect or review any monitoring equipment or methods required by regulations of the Board;
3. sample or otherwise make tests of the water being supplied by such system; and
4. conduct sanitary surveys to determine compliance with the regulations of the Board.

B. If permission to enter a public water supply system or otherwise make an inspection or investigation in accordance with Section 108.A is denied, the Secretary may apply to a court of competent jurisdiction for an inspection order allowing for such entry or the making of such inspection or investigation.

C. In order to aid the Secretary in making inspections or investigations pursuant to this Part, the supplier of water or his duly authorized representative shall, prior to the commencement of such inspection or investigation, be given the opportunity to accompany the inspector upon or through the premises of the public water supply system.

109. SITING REQUIREMENTS --

A. Before a person may initiate construction of a new public water supply system or increase the capacity of an existing public water supply system, he shall notify the Department as required in Section 502 and, to the extent practicable, avoid locating part or all of the new or expanded system at a site which:

1. is subject to a significant risk from earthquakes, floods, fires or other disasters which could cause a breakdown of the public water supply system or any portion thereof; or
2. except for intake structures and infiltration galleries, is within the flood plain of a 100 year flood.

B. An application for approval of construction or modification submitted pursuant to Section 502 shall be deemed as compliance with the notification requirement of Section 109.A.

C. Except as provided for in Sections 109.D through 109.E, all existing and new water supply sources shall be located as follows:

1. A private water supply source shall be located at least 50 feet horizontally from a privy (outhouse), septic tank or enclosed system, or liquid waste treatment unit and at least 100 feet horizontally from an existing or potential pollution source, such as a liquid waste absorption system, cattle yard, landfill, or underground storage tank containing a contaminant.

2. A public water supply source shall be located at least 100 feet horizontally from a privy (outhouse), septic tank or enclosed system, or a liquid waste treatment unit and at least 200 feet horizontally from an existing or potential pollution source, such as a liquid waste absorption system, cattle yard, landfill, or underground storage tank containing a contaminant.

3. When, in the opinion of the Secretary, the potential for contamination exists from a pollution source greater than 200 feet horizontally from a public water supply source, the Secretary may require submission of additional hydrogeological information.

4. When, in the opinion of the Secretary, the information provided under subsection C.3 of this Section indicates the potential for pollution of the proposed public water supply source exists, the Secretary shall disapprove the proposed water supply source.

D. An existing public water supply source which was in use prior to July 16, 1986 and is not in compliance with Section 109.C.2 may continue in use provided that:

1. no additional pollution sources have been located within a 200 foot setback distance on or after July 16, 1986;

2. the maximum contaminant levels in Subpart II of this Part are met; and

3. the Secretary is satisfied that the health of the water consumers is being protected. The Secretary may require one or more of the following to make this determination:

a. submission of hydrogeological information to assess the potential for pollution of the water supply source by potential pollution sources;

b. additional sampling and analytical requirements; and/or

c. treatment of the water supplied to the public.

E. A public water supply source which had setback distances of less than 200 ft from potential pollution sources approved by the Secretary on or after July 16, 1986 and prior to the effective date of this regulation may continue in use provided that:

1. no additional pollution sources have been located within a 200 foot setback distance since the time of the Secretary's approval;

2. the maximum contaminant levels in Subpart II of this Part are met; and

3. The conditions upon which the Secretary's approval was based are being met.

F. Any water supply source which changes its status from a private to a public water supply source shall be considered to be a new source as of the date of change of status.

110. -199. [RESERVED]

SUBPART II WATER SUPPLY CONTROL

200. [RESERVED]

201. COMPLIANCE WITH THIS PART AND EMERGENCY POWERS.—

A. No person shall control, manage or operate a public water supply system unless the system is maintained in compliance with this Part.

B. Powers of the Secretary.

1. The Secretary may take such actions as he may deem necessary in order to protect the health of persons who are or may be users of a water system:

a. in any situation in which a public water supply system fails to meet the requirements of this Part; or

b. upon receipt of information that a contaminant, whether listed in this Part or not, is present in or likely to enter a public water supply system, that the contaminant may present an imminent and substantial endangerment to the health of persons, and that appropriate local authorities have not acted to protect the health of such persons.

2. The Secretary may respond to civil emergency situations involving public drinking water in a manner deemed appropriate to protect the public health. Such response shall be integrated, when appropriate, with other state emergency response and relief efforts.

3. The actions the Secretary may take include, but shall not be limited to:

a. issuing such orders as may be necessary to protect the health of persons who are or may be users of such system (including travelers); and

b. commencing a civil action for appropriate relief, including a restraining order or permanent or temporary injunction.

4. Whenever it is determined by the Secretary that treatment is necessary for a supply to consistently meet the maximum contaminant levels, that treatment shall be continuously maintained until the supplier can demonstrate to the Secretary that such treatment is no longer necessary.

Well 11

Revised December 1975

IMPORTANT — READ INSTRUCTIONS ON BACK BEFORE FILLING OUT THIS FORM.

Declaration of Owner of Underground Water Right

~~Well 10~~ Well 11

BASIN NAME

Declaration No. _____ Date received _____

STATEMENT

- Name of Declarant 27 CES/CE
 Mailing Address 111 Engineers Way, Cannon AFB NM 88103-5136
 County of Curry, State of New Mexico
- Source of water supply AQUIFER
(artesian or shallow water aquifer)
- Describe well location under one of the following subheadings:
 - N.E. $\frac{1}{4}$ S.W. $\frac{1}{4}$ S.W. $\frac{1}{4}$ of Sec. 22 Twp. 1 N Rge. 30 E N.M.P.M. in ROOSEVELT County.
 - Tract No. _____ of Map No. _____ of the _____
 - X = _____ feet. Y = _____ feet. N. M. Coordinate System _____ Zone _____
 in the _____ Grant.
 On land owned by _____
- Description of well: date drilled OCT 69 driller UNKNOWN depth 300 feet.
 outside diameter of casing 6" inches; original capacity 30 gal. per min.; present capacity 10 gal. per min.; pumping lift 170 feet; static water level 135 feet (above) (below) land surface;
 make and type of pump 4" SUBMERSIBLE
 make, type, horsepower, etc., of power plant FRANKLIN
 Fractional or percentage interest claimed in well 100%

Well 10

REQUEST FOR PURCHASE				NO. 8 FUND CODE 80830005	
INSTALLATION annon AFB, NM 88103-5000 CONTRACTING OFFICER				DATE 23 Mar 88	
27 TFW/LGC, Cannon AFB, NM 88103-5320 THROUGH				CLASS J04310 PUMPS	
27 TFW/ACFC, Cannon AFB, NM 88103-5260 FROM: (Insert RC/CC, if applicable)				CONTRACT, PURCHASE ORDER OR DELIVERY ORDER NO.	
27 CSG/DE, Cannon AFB, NM 88103-5000				IT IS REQUESTED THAT THE SUPPLIES AND SERVICES ENUMERATED BELOW AND IN THE ATTACHED LIST, BE	
PURCHASED FOR 27 CSG/DEMM <i>J</i>		FOR DELIVERY TO Bldg 357		NOT LATER THAN 08 8083	
ITEM	DESCRIPTION OF MATERIAL OR SERVICES TO BE PURCHASED	QUANTITY	UNIT	ESTIMATED UNIT PRICE	ESTIMATED TOTAL COST
0001	<p>TO REPAIR WELL PUMP UNDER WARRANTY: REFERENCE CONTRACT NO. F29605-88-W0100</p> <p><i>Pump Will Not Operate. NOT pulling WATER WELL #10</i></p> <p><i>Ross Baird - wire pump not out rubbing against casing shorted out</i></p> <p>Work Order #88088</p> <p><i>WATER INDUSTRIES INC. HEREFORD TEXAS 806 364 3109</i></p> <p><i>Sounds like something happened to motor</i></p>				\$ 1.00
PURPOSE <i>AcB:pa</i> 2nd Qtr Funds				TOTAL	\$ 1.00
DATE	TYPED NAME AND GRADE OF REQUESTING OFFICIAL		SIGNATURE		
<i>23 Mar 88</i>	SYDNEY ROLLINSON <i>Equipment Custodian</i>		<i>[Signature]</i>		
DATE	TYPED NAME AND GRADE OF APPROVING OFFICIAL		SIGNATURE		
<i>23 Mar 88</i>	NELSON RUTTER <i>Deputy Base Civil Engineer</i>		<i>[Signature]</i>		
I certify that the supplies and services listed above and in the attached list are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.					
COUNTING CLASSIFICATION				AMOUNT	
DATE	TYPED NAME AND GRADE OF CERTIFYING OFFICIAL		SIGNATURE		
<i>23 Mar 88</i>			<i>[Signature]</i>		

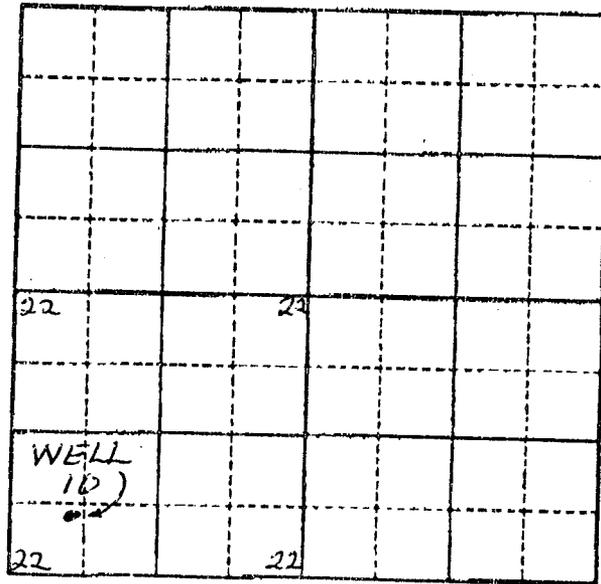
Well 10

REQUEST FOR PURCHASE				NO. FUMODE80830005	
INSTALLATION Cannon AFB, NM 88103-5000				DATE 23 Mar 88	
TO: CONTRACTING OFFICER 27 TFW/LGC, Cannon AFB, NM 88103-5320				CLASS J04310 PUMPS	
THROUGH 27 TFW/ACFC, Cannon AFB, NM 88103-5260				CONTRACT, PURCHASE ORDER OR DELIVERY ORDER NO.	
FROM: (Insert RC/CC, if applicable) 27 CSG/DE, Cannon AFB, NM 88103-5000					
IT IS REQUESTED THAT THE SUPPLIES AND SERVICES ENUMERATED BELOW AND IN THE ATTACHED LIST, BE					
PURCHASED FOR 27 CSG/DEMM		FOR DELIVERY TO Bldg 357		NOT LATER THAN 08 8083	
ITEM	DESCRIPTION OF MATERIAL OR SERVICES TO BE PURCHASED	QUANTITY	UNIT	ESTIMATED UNIT PRICE	ESTIMATED TOTAL COST
0001	<p>TO REPAIR WELL PUMP UNDER WARRANTY: REFERENCE CONTRACT NO. F29605-88-W0100</p> <p><i>Pump will NOT OPERATE. NOT pulling AMPS</i></p> <p><i>WATER WELL #10</i></p> <p>Work Order #88088</p> <p><i>WATER INDUSTRIES INC.</i></p> <p><i>HEREFORD TEXAS</i></p> <p><i>806 364 3109</i></p> <p><i>C/19</i></p>				\$ 1.00
2nd Qtr Funds <i>ACB: P</i>				TOTAL	\$ 1.00
PURPOSE FY88 4H4491 56919					
DATE <i>23 Mar 88</i>	TYPED NAME AND GRADE OF REQUESTING OFFICIAL SYDNEY ROLLINSON Equipment Custodian		SIGNATURE <i>Sydney Rollinson</i> TELEPHONE NO. 2379		
DATE <i>23 Mar 88</i>	TYPED NAME AND GRADE OF APPROVING OFFICIAL NELSON RUTTER Deputy Base Civil Engineer		SIGNATURE <i>Nelson Rutter</i>		
I certify that the supplies and services listed above and in the attached list are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.					
COUNTING CLASSIFICATION 578 3400 308 7811 4H4491 02 56919 669400				AMOUNT \$ 1.00	
DATE <i>23 Mar 88</i>	TYPED NAME AND GRADE OF CERTIFYING OFFICIAL COLLEEN R. HANCOCK, GS-4 CERTIFYING OFFICER		SIGNATURE <i>Colleen R Hancock</i>		

Well 10

Locate well and area actually irrigated as accurately as possible on following plat:

Section (s) 22, Township 1N, Range 30E N. M. P. M.



INSTRUCTIONS

Client: 27 AMDS/SGPB

Report: 14877-42(35-38)

Project / Site: Well #11

PWS ID#: 803-05

m well 10

10 Melrose

PARAMETER	SDWA Method	MDL * (ug/L)	Results (ug/l)	MCL ug/L	Analysis Date	Lab Number
Alachlor (Lasso)	525.2	0.1	< 0.1	2	01-17-95	148736
Aldicarb	531.1	0.5	< 0.5	3	01-14-95	148737
Aldicarb Sulfone	531.1	0.4	< 0.4	2	01-14-95	148737
Aldicarb Sulfoxide	531.1	0.5	< 0.5	4	01-14-95	148737
Aldrin	525.2	0.1	< 0.1	---	01-17-95	148736
Aroclor 1016				£		
Aroclor 1221				£		
Aroclor 1232				£		
Aroclor 1242				£		
Aroclor 1248				£		
Aroclor 1254				£		
Aroclor 1260				£		
Atrazine	525.2	0.1	< 0.1	3	01-17-95	148736
Benzo(a)pyrene	525.2	0.02	< 0.02	0.2	01-17-95	148736
Butachlor	525.2	0.1	< 0.1	---	01-17-95	148736
Carbaryl	531.1	1.0	< 1.0	---	01-14-95	148737
Carbofuran	531.1	0.9	< 0.9	40	01-14-95	148737
alpha-Chlordane	525.2	0.1	< 0.1	---	01-17-95	148736
gamma-Chlordane	525.2	0.1	< 0.1	---	01-17-95	148736
Chlordane				2		
2,4-D				70		
Dalapon				200		
1,2-Dibromo-3-chloropropane				0.2		
Dicamba				---		
Dieldrin	525.2	0.1	< 0.1	---	01-17-95	148736
Di (2-ethylhexyl) adipate	525.2	0.6	< 0.6	400	01-17-95	148736
Di (2-ethylhexyl) phthalate	525.2	0.6	2.1	6	01-17-95	148736
Dinoseb				7		
Diquat	549.1	0.4	< 0.4	20	01-16-95	148735
Endothall				100		
Endrin	525.2	0.01	< 0.01	2	01-17-95	148736
Ethylene dibromide (EDB)				0.05		
Glyphosate (Round-up)	547	6.0	< 6.0	700	01-18-95	148738
Heptachlor	525.2	0.04	< 0.04	0.4	01-17-95	148736
Heptachlor epoxide	525.2	0.02	< 0.02	0.2	01-17-95	148736
Hexachlorobenzene	525.2	0.1	< 0.1	1	01-17-95	148736
Hexachlorocyclopentadiene	525.2	0.1	< 0.1	50	01-17-95	148736
3-Hydroxycarbofuran	531.1	1.0	< 1.0	---	01-14-95	148737
Lindane (gamma-BHC)	525.2	0.02	< 0.02	0.2	01-17-95	148736
Methoxychlor	525.2	0.1	< 0.1	40	01-17-95	148736
Methomyl	531.1	0.5	< 0.5	---	01-14-95	148737
Metolachlor (Dual)	525.2	0.1	< 0.1	---	01-17-95	148736
Metribuzin (Sencor)	525.2	0.1	< 0.1	---	01-17-95	148736
Oxamyl (Vydate)	531.1	1.0	< 1.0	200	01-14-95	148737
Pentachlorophenol				1		
Picloram (Tordon)				500		
Propachlor	525.2	0.1	< 0.1	---	01-17-95	148736
2,4,5-TP (Silvex)				50		
Simazine	525.2	0.07	< 0.07	4	01-17-95	148736
2,3,7,8-TCDD (Dioxin)				0.00003		
Toxaphene				3		

DEHP

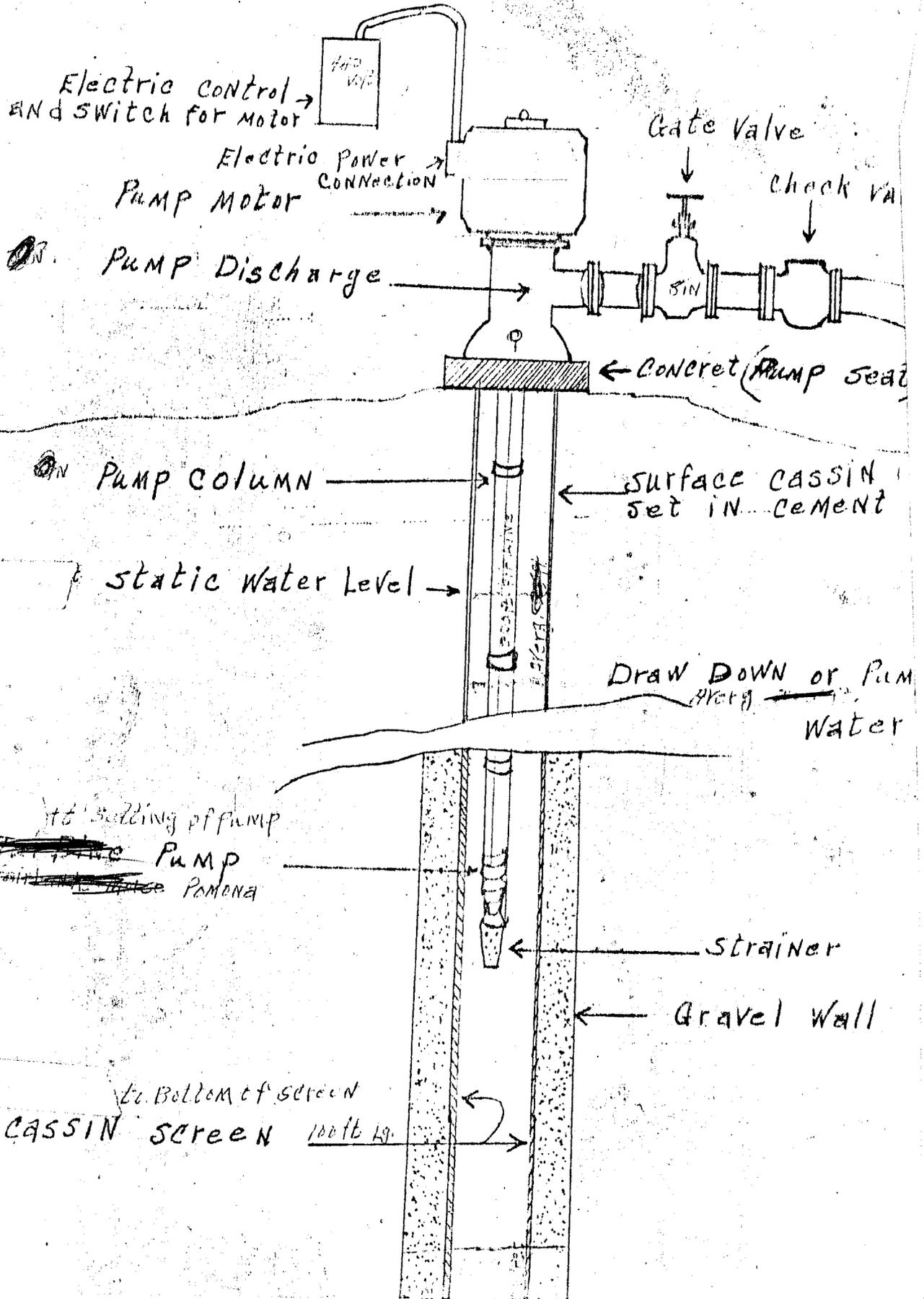
* EHL has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

£ Any positive Aroclor result would require analysis for total PCB as decachlorobiphenyl by method 58A (MCL = 0.5 ug/L).

REQUEST FOR PURCHASE				NO. FUDEM73570001	
ION Gannon AFB, NM 88103-5000				DATE 23 Dec 87	
ACTING OFFICER 27TFW/LGC, Cannon AFB, NM 88103-5320				CLASS J-52904	
H 27TFW/AGFC, Cannon AFB, NM 88103-5260 (Insert RC/CC, if applicable)				CONTRACT, PURCHASE ORDER OR DELIVERY ORDER NO.	
27CSG/DE, Cannon AFB, NM 88103-5000				IT IS REQUESTED THAT THE SUPPLIES AND SERVICES ENUMERATED BELOW AND IN THE ATTACHED LIST, BE	
CHASED FOR 27CSG/DEMM-WW <i>06</i>		FOR DELIVERY TO Bldg 03128 Well #10		NOT LATER THAN 08 7357	
ITEM	DESCRIPTION OF MATERIAL OR SERVICES TO BE PURCHASED	QUANTITY	UNIT	ESTIMATED UNIT PRICE	ESTIMATED TOTAL COST
0001	<p>SERVICES NON-PERSONAL: TO FURNISH LABOR, TOOLS, PARTS, MATERIALS, AND TRANSPORTATION NECESSARY TO TEAR DOWN, INSPECT, QUOTE, REPAIR</p> <p>PSC SUFFIX: J 52904 NSN: N/A NOMENCLATURE: Well Pump SN: N/A MODEL: 1S418R10-S2/A MFG: JACUZZI DATE PURCHASED: 1987 EST REPLACEMENT: \$5000.00 REPAIRS REQUIRED: PULL & REPLACE SUBMERSIBLE 4" PUMP SETTING 186' WITH 1" GALVANIZED PIPE. REPLACE WITH GOVERNMENT FURNISHED PVC 1" PIPE DATE WARRANTY EXPIRES: N/A MRA: \$3,750.00</p> <p>I CERTIFY THAT GOVERNMENT REPAIR CAPABILITIES ARE NOT AND CANNOT BE MADE AVAILABLE FOR ITEM LISTED. I FURTHER CERTIFY THAT I HAVE CONTACTED BASE SUPPLY AND DEPOT REPAIR IS NOT AUTHORIZED.</p> <p>ON SITE REPAIR IS REQUIRED. BLDG. NO. 03128. Melrose Bombing Range PERSON TO CONTACT: Rollinson, Ext: 2379 SUGGESTED SOURCE: Kirtland Well Services 1101 Ava A P. B. Box 428 Farwell, TX PH 481-3807 WO # 88088</p>	1	EA	\$800.00	\$800.00
				TOTAL	\$800.00
PURPOSE 1ST QTR FUNDS					
FY88 4H4491 56919					
DATE <i>23 Dec 87</i>	TYPED NAME AND GRADE OF REQUESTING OFFICIAL SIDNEY ROLLINSON Equipment Custodian		SIGNATURE <i>[Signature]</i> TELEPHONE NO. 2379		
DATE <i>[Signature]</i>	TYPED NAME AND GRADE OF APPROVING OFFICIAL NELSON RUTTER Deputy Base Civil Engineer		SIGNATURE <i>[Signature]</i>		
I certify that the supplies and services listed above and in the attached list are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.					
ACCOUNTING CLASSIFICATION 5783400 308 7811 4H4491 02 56919 669400				AMOUNT \$800.00	
DATE 23 DEC 87	TYPED NAME AND GRADE OF CERTIFYING OFFICIAL R A FETTERLY TSGT USAF		SIGNATURE <i>[Signature]</i>		

*F-56
P-560
D-68*

Melrose Range



FOR OFFICIAL USE ONLY

REQUEST FOR PURCHASE

NO.

FU00DE80110002

DATE

11 Jan 88

CLASS

J04310PUMPS

CONTRACT, PURCHASE
ORDER OR DELIVERY
ORDER NO.

ON

AFB, NM 88103-5000

ACTING OFFICER

/IGC, Cannon AFB, NM 88103-5320

/ACFC, Cannon AFB, NM 88103-5260

Insert RC/CC, if applicable)

SG/DE, Cannon AFB, NM 88103-5000

IT IS REQUESTED THAT THE SUPPLIES AND SERVICES ENUMERATED BELOW AND IN THE ATTACHED LIST, BE

BASED FOR

FOR DELIVERY TO

NOT LATER THAN

CSC/DEMM

BLDG 357

08 8011

EM

DESCRIPTION OF MATERIAL OR SERVICES TO BE PURCHASED

QUANTITY

UNIT

ESTIMATED
UNIT PRICE

ESTIMATED
TOTAL COST

001

INCREASE FUNDS NECESSARY FOR REPAIR OF WELL
PUMP.

REFERENCE PR #FU00DE73570001
DATED 23 DEC 87

PREVIOUS CONTRACT AMOUNT	\$800.00
INCREASE	\$1482.73
NEW TOTAL	\$2282.73

WORK ORDER #88088

\$ 1,482.73

1ST QTR FUNDS

TOTAL

\$1,482.73

PURPOSE

FY88 4H4491 56919

DATE

TYPED NAME AND GRADE OF REQUESTING
OFFICIAL

SIGNATURE

SYDNEY ROLLINSON
Equipment Custodian

TELEPHONE NO.

2379

DATE

TYPED NAME AND GRADE OF APPROVING
OFFICIAL

SIGNATURE

NELSON RUTTER
Deputy Base Civil Engineer

I certify that the supplies and services listed above and in the attached list are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.

COUNTING CLASSIFICATION

5783400 308 7811 4H4491 02 56919 669400

AMOUNT

\$1,482.73

DATE

TYPED NAME AND GRADE OF CERTIFYING
OFFICIAL

SIGNATURE

HOW TO SELECT... AIR & VACUUM VALVES FOR VERTICAL TURBINE PUMP INSTALLATION

STEP No. 1

Check pump curve for G.P.M. capacity at no head condition.

STEP No. 2

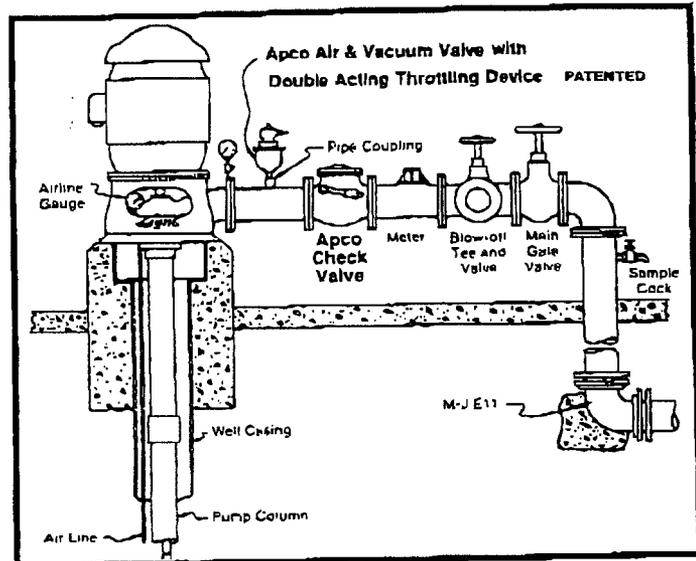
Enter chart with G.P.M. to determine size valve.

STEP No. 3

If valves to be installed inside pump house specify discharge connection.
Sizes 3" - 4" & 6" available with screwed or flanged discharge connections.
Size 8" and larger flanged only.

STEP No. 4

Determine if automatic air release required.



The following selection table will satisfy typical Deep Well Turbine pump installations which use a Silent Check or Conventional Swing Check valve, as shown above. For High Service Vertical Turbine pump installations, which utilize a positive shut-off type discharge Check Valve, contact our Engineering Department and a specific size will be recommended.

PUMP CAPACITY G.P.M.	VALVE SIZE	MODEL NO.	(OPTIONAL) AIR RELEASE VALVE NO.
UP TO 1,000	1/2"	141DAT	50
1,001 - 1,550	1"	142DAT	50
1,551 - 3,200	2"	144DAT	50
3,201 - 6,300	3"	148DAT	50
6,301 - 13,500	4"	1604/152	200A
13,501 - 32,000	6"	1606/153	200A
32,001 - 60,000	8"	1608/154	200A
60,001 - 90,000	10"	1610/155	200
90,001 - 140,000	12"	1612/156	200
140,001 - 180,000	14"	1614/157	200
180,001 - 250,000	16"	1616/158	200

*If the turbine is scheduled to run for prolonged periods (6-8 hours) without stopping, automatic air release valves should be added.

NOTE TO ENGINEER

Air Valve is to be installed inside the pump house, use screwed or flanged discharge connection and pipe back to the well or to atmosphere. This will greatly muffle the high noise level caused by the air being discharged and provide for drainage of any small amount of water or water vapor that may discharge.

VALVE & PRIMER CORPORATION HEREBY RESERVES THE RIGHT TO CHANGE ANY COMPONENT PARTS WHICH, IN THE OPINION OF ITS ENGINEERING DEPARTMENT, WILL IMPROVE THE PRODUCT OR INCREASE ITS SERVICEABILITY.

SPECIFICATIONS

Air Valves for Vertical Turbine Pumps shall - vent large quantities of air out thru the orifice when pump starts - close tight when liquid enters - permit large quantities of air to re-enter thru orifice when pump stops - to prevent vacuum forming in the pump suction column.

The main valve parts shall be a body, cover, baffle, float and seat. The baffle shall shield float from direct impact of air and water to prevent premature float closure. The seat shall slip fit into the baffle or cover and lock in place without any distortion, but easily removable.

Sizes 1/2" thru 3" - entire float and baffle assembly must be shrouded with a water diffuser - to prevent water slamming the float shut. All outlets to be threaded or flanged.

The float shall be stainless steel center guided (not free floating) for positive seating and rated 1000 psi non-shock service.

The discharge orifice shall be fitted with a DOUBLE-ACTING THROTTLING DEVICE, Patented, to regulate and restrict air venting - to establish a pressure loading on the rising suction column of water to eliminate damaging shock to the pump, controls and check valve on pump start. On pump stop, the DOUBLE ACTING THROTTLING DEVICE shall automatically open - allowing full line unrestricted air re-entry to prevent any measure of vacuum to form in the suction column.

Valve exterior to be painted with Red Oxide Phenolic Primer Paint as accepted by the FDA for use in contact with Potable Water.

Materials of construction shall be certified conforming to following A.S.T.M. specifications:

Body, cover	Cast iron	ASTM A126 Gr. B
Baffle, Sizes 1/2", 1" & 2"	Delrin	ASTM D2133
Baffle, Size 3"	Cast Iron	ASTM A48 CL 30
Float	Stainless steel	ASTM A240
Seat	Buna-N	
Water Diffuser	Brass	ASTM B16
Double Acting Throttling Device Patented		
Housing	Malleable Iron	ASTM A47
Adj. Screw & Nut	Stainless steel	ASTM A276 T304
Spring	Stainless steel	ASTM A313 T316
Plug	Teflon	AMS 3651

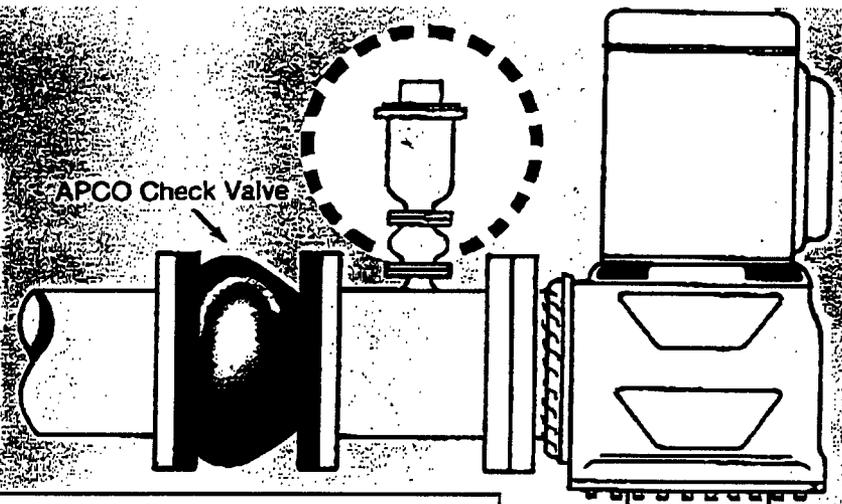
Valve to be APCO Series 140DAT Air & Vacuum Valve with Double Acting Throttling Device & Water Diffuser, as manufactured by Valve & Primer Corporation, Schaumburg, Illinois, U.S.A.



OR SURGE CHECK

IT WORKS . . .

These Air and Vacuum Valves have large orifices for exhausting air from deep well pump columns on pump start - close when water enters - remain closed - until water drains and pressure drops to atmospheric - and immediately open to allow air to re-enter the suction column to prevent vacuum or water column separation.



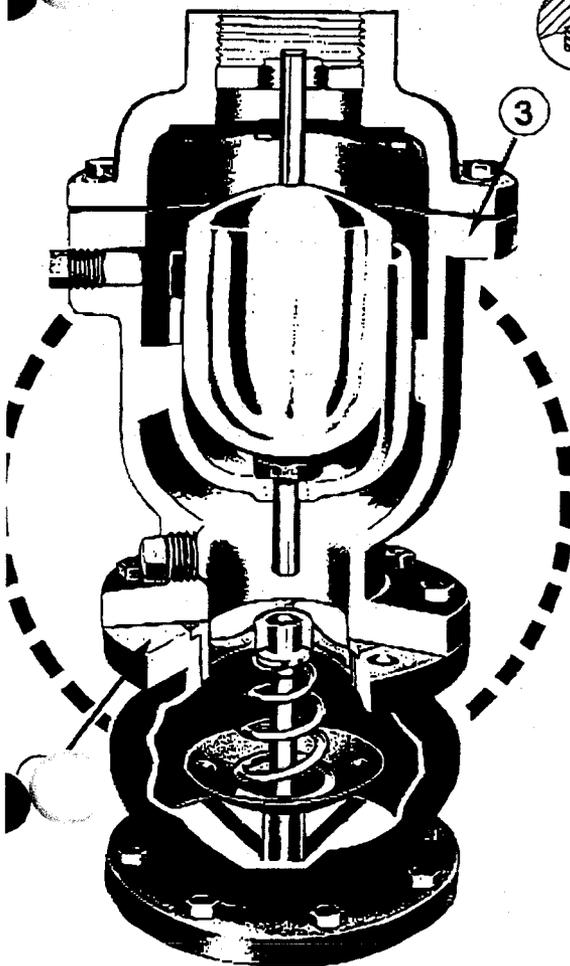
A Slow Closing Air Valve is a standard Air and Vacuum (3) mounted on top of Surge Check (2)

The Surge Check Unit operates on the differential between the kinetic energy in the relative velocity flows of air and water. The air passes through unrestricted, but when the water rushes into Surge Check, the disc commences to close and reduces the rate of water flow into the Air Valve, by means of throttling holes in a disc.

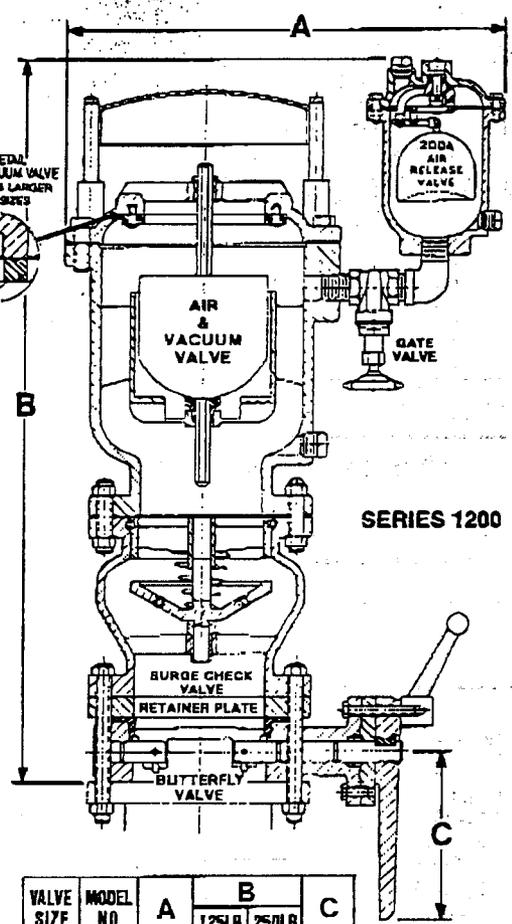
This insures gentle closing of the Air and Vacuum Valve, and as soon as the Air Valve is closed, the Surge Check disc automatically returns to its position, ready for the next cycle. See Bulletin 613 for more information on Surge Check Valves.

LARGER PUMPS

SIZES 4" AND LARGER
SERIES 1900



SEAT DETAIL
AIR AND VACUUM VALVE
125 LB. 14" & LARGER
250 LB. ALL SIZES



SERIES 1200

VALVE SIZE	MODEL NO	A	B		C
			125LB	250LB	
4"	1204	18 1/8"	30 1/2"	30 1/2"	8
6"	1208	22 1/8"	35 1/2"	38"	12
8"	1208	25 1/2"	41 1/2"	42 1/2"	12
10"	1210	27 7/8"	45 1/2"	48 1/2"	12
12"	1212	32 1/2"	50 1/2"	50 1/2"	12
14"	1214	41 1/2"	52 1/2"	52 1/2"	15
18"	1216	45 1/2"	59 1/2"	55 1/2"	15

APCO BUTTERFLY VALVES FOR ISOLATION

It is good engineering practice to install Isolation Valves below the Air Valve (as shown above). Use APCO Butterfly Valves instead of gate valves for this purpose. APCO Butterfly Valves are reliable, economical and much shorter than gate valves, permitting a savings of height in the pump hose.

* * * TRANSMISSION RESULT REPORT (MAY.30.1997 1:20PM) * * *

TTI CANON AFB

DATE	TIME	ADDRESS	MODE	TIME	PAGE	RESULT	PERS.	NAME	FILE
30.	1:18PM	5057636138	TS	2'01"	P. 2	OK			188

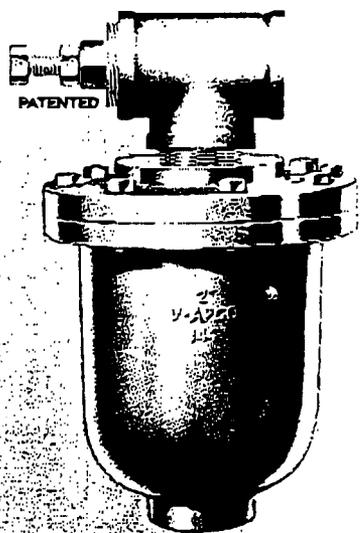
: BATCH
M : MEMORY
S : STANDARD

C : CONFIDENTIAL
L : SEND LATER
D : DETAIL

\$: TRANSFER
@ : FORWARDING
F : FINE

P : POLLING
E : ECM
> : REDUCTION

AIR VALVES FOR VERTICAL TURBINE PUMPS



SERIES 140DAT



SERIES 1900

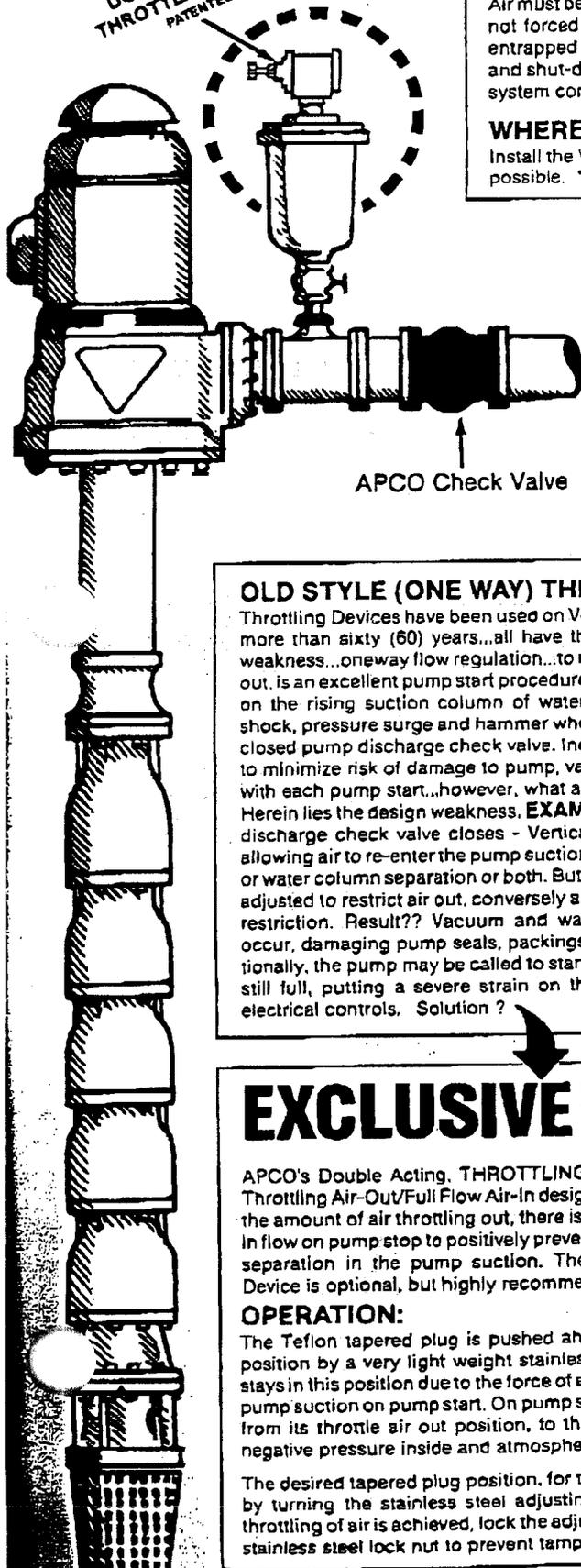
2" Air Release + Vacuum

Call for part # and Price.

AIR VALVES FOR VERTICAL TURBINE PUMPS

WITH WATER DIFFUSER

EXCLUSIVE!
DOUBLE ACTING
THROTTLING DEVICE
PATENTED



WHY USE . . .

Air must be vented from the pump suction column to atmosphere, just before the pump check valve and not forced into the water system. Not to provide for air venting is sure to invite trouble, because air entrapped in the water system will cause pressure surges and water hammer with each pump start-up and shut-down. Surges and water hammer are the main cause for costly damage to piping and water system components.

WHERE USE . . .

Install the Vertical Turbine Air and Vacuum Valve, on the pump discharge, as close to the check valve possible. *See Bulletin 789 Which Check Valve Should I Use??

FIELD TESTED . . .

After years of laboratory and field testing, under actual operating conditions and in co-operation with leading Vertical Turbine Pump Manufacturers, we determined no vertical turbine pump installations are identical. Instead, each has its own characteristics, pump capacity, efficiency, well depths and head conditions. All too many variables for a standard Air and Vacuum Valve to satisfy, with the result, APCO developed an Air Valve for Vertical Turbine Pumps utilizing a Water Diffuser or Surge Check to compensate for the variables as follows:

WATER DIFFUSER OR SURGE CHECK.

Sizes 1/2" thru 3" are fitted with ① WATER DIFFUSERS...larger sizes with ② SURGE CHECKS. APCO WATER DIFFUSERS perform much like water faucet strainers, breaking down the solid water column force into a smooth non-destructive flow. Similarly, SURGE CHECKS absorb solid water column shock and break it down to smooth non-shock flow into the air valve. In this manner, the WATER DIFFUSER and SURGE CHECK facilitate positive water closure of the Vertical Turbine Air Valve, without water hammer, shock, or damage to the pump, valves or other system components.

OLD STYLE (ONE WAY) THROTTLING DEVICE

Throttling Devices have been used on Vertical Turbine Air Valves for more than sixty (60) years...all have the same operational design weakness...oneway flow regulation...to restrict air out. Restricting air out, is an excellent pump start procedure - to establish back pressure on the rising suction column of water, thereby, greatly reducing shock, pressure surge and hammer when the water column hits the closed pump discharge check valve. Indeed an excellent procedure to minimize risk of damage to pump, valves and piping, from shock with each pump start...however, what about pump stop procedure? Herein lies the design weakness. **EXAMPLE:** On pump stop - pump discharge check valve closes - Vertical Turbine Air Valve opens, allowing air to re-enter the pump suction column, to prevent vacuum or water column separation or both. But as the Throttling Device was adjusted to restrict air out, conversely air re-entry will have the same restriction. Result?? Vacuum and water column separation can occur, damaging pump seals, packings, and gasketed joints. Additionally, the pump may be called to start while the suction column is still full, putting a severe strain on the pump shaft, motors and electrical controls. Solution ?

EXCLUSIVE DOUBLE ACTING THROTTLING DEVICE PATENTED

APCO's Double Acting, THROTTLING DEVICE with EXCLUSIVE Throttling Air-Out/Full Flow Air-In design feature. Now, regardless of the amount of air throttling out, there is assured full line capacity air in flow on pump stop to positively prevent vacuum and water column separation in the pump suction. The Double Acting Throttling Device is optional, but highly recommended.

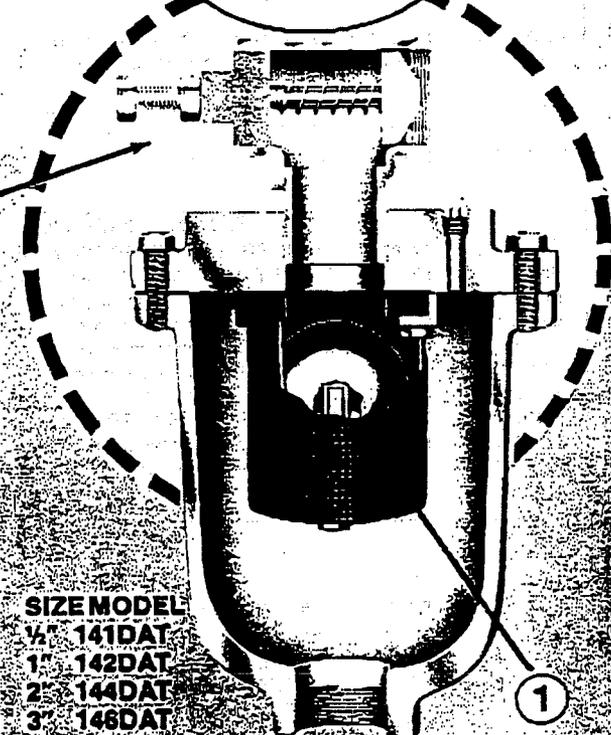
OPERATION:

The Teflon tapered plug is pushed ahead into the air out throttle position by a very light weight stainless steel helical spring and it stays in this position due to the force of air being discharged from the pump suction on pump start. On pump stop - the tapered plug moves from its throttle air out position, to the full air in position, due to negative pressure inside and atmospheric forces of air rushing in.

The desired tapered plug position, for throttling air out, is regulated by turning the stainless steel adjusting screw. When satisfactory throttling of air is achieved, lock the adjusting screw in place with the stainless steel lock nut to prevent tampering.

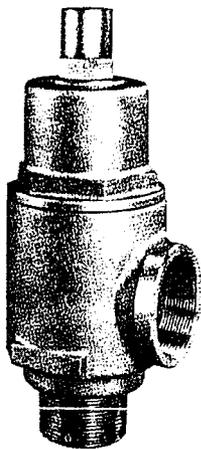
EXCLUSIVE!

DOUBLE ACTING
THROTTLING DEVICE
PATENTED



SIZE MODEL

- 1/2" 141DAT
- 1" 142DAT
- 2" 144DAT
- 3" 146DAT



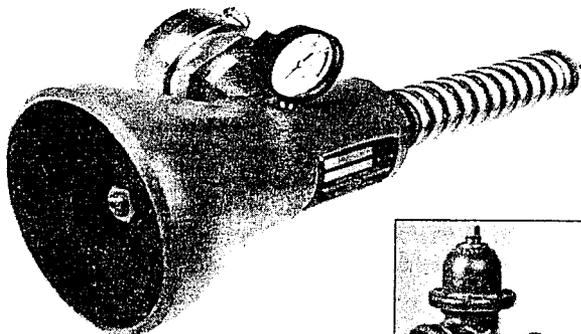
Continuous By-pass Relief Valve - Kunkle 20

- Over pressure relief and protection of pumps, tanks, lines
- For mounting on hydrants, see Index for adapter fittings

Rated up to 300 PSI. Extra heavy all bronze construction. Valve can be inspected and serviced without removal from the line. Ball bearing pivot between disc and spring corrects misalignment and compensates for side thrust. The Model 20 can be field adjusted approximately 20% either way from the setting you specify when ordering.

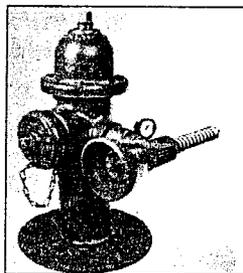
Specify mid-point pressure when ordering.

SIZE INLET & OUTLET	GPM @ 25% OVER PRESSURE FROM THESE SETTINGS			STOCK #	EACH
	60#	100#	150#		
1/2	7	9	11	29183	\$ 95.51
3/4	16	21	26	29184	95.51
1	27	35	44	29185	111.29
1 1/4	48	62	77	29187	143.72
1 1/2	74	97	119	29186	171.75
2	144	187	228	44873	258.50
2 1/2	237	306	376	44875	410.12
3	343	446	547	29188	699.29



Hydrant Relief Valve 2 1/2" NST

- Field Adjustable
- Stabilizes water distribution pressure when your hydro-pneumatic tank or tower is down for service



The Model "A" unit has a cone and that disperses excess water into a spray so as not to damage the surrounding area. The Model "B" is essentially the same as the "A" but has a removable flange on the cone with a reducer to end up with a 2" NPT(F) opening. The "B" style also comes with a 2 1/2" NST brass adapter so you can hook fire hose directly to it. **Higher pressure ranges available on special order.**

MODEL "A" 0-55 PSI	26400	\$696.80
MODEL "A" 0-100 PSI	26402	696.80
MODEL "A" 0-160 PSI	26403	696.80
MODEL "B" 0-55 PSI	26404	873.60
MODEL "B" 0-100 PSI	26406	873.60
MODEL "B" 0-160 PSI	26407	873.60

Hydro-Pneumatic Tank — Pressure & Vacuum Relief Valves

KUNKLE™

Hydro-Pneumatic Tank Pressure and Vacuum Relief Valves

Kunkle Series 912

- Rated for air, liquid, steam and gas service
- Pressure and vacuum



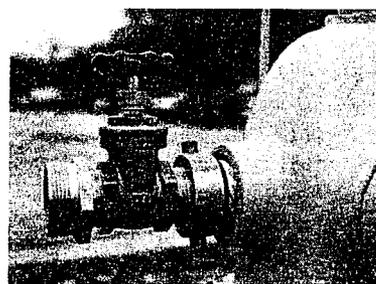
Bronze body with bronze/brass trim. Spring material is chrome vanadium. Seats are lapped to optical flatness. Hex on valve nozzle provides for easy installation of MNPT inlet. Outlet is FNPT.

Pressure can be set from 5-300 PSI to suit your needs and every valve is 100% tested/inspected by ASME valve shop for pressure setting, blowdown and leakage. The 912 can be reset to a different setting by any authorized ASME valve repair shop.

A minimum of 10 PSI differential is recommended between tank pressure and valve setting. If your tank pressure is normally 60 PSI, order a valve with a minimum setting of 70 PSI.

Specify PSI when ordering.

SIZE SETTING	IN/OUT 3/4" x 1 1/4"		IN/OUT 1 x 1 1/2"		IN/OUT 1 1/2" x 2 1/2"		IN/OUT 2" x 3"	
	STOCK #	EACH	STOCK #	EACH	STOCK #	EACH	STOCK #	EACH
VAC	49424	\$108.53	49426	\$129.17	49427	\$303.59	49428	\$376.29
65	23815	106.39	23821	129.17	23827	303.59	23833	376.29
70	23816	108.53	23822	129.17	23828	303.59	23834	376.29
75	44861	108.53	44863	129.17	44865	303.59	44867	376.29
80	44860	108.53	44862	129.17	44864	303.59	44866	376.29
85	23817	108.53	23823	129.17	23829	303.59	23835	376.29
90	23818	108.53	23824	129.17	23830	303.59	23836	376.29
95	23819	108.53	23825	129.17	23831	303.59	23837	376.29
SPECIAL	44868	118.98	44870	139.69	44872	312.58	44874	384.65

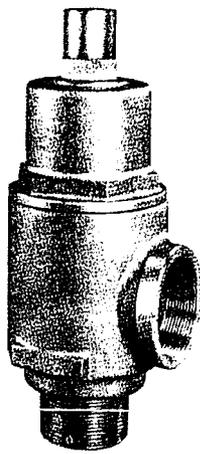


Hydrant Hose Valves

- Reduce possible hydrant damage
- Be ready with the proper connections when they are needed

See complete description in HYDRANTS section, page 53.

2 1/2" HYD. TO 3/4" HOSE VALVED CONNECTOR	71335	\$25.60
2 1/2" HYD. TO 1" HOSE VALVED CONNECTOR	71336	28.24
2 1/2" HYD. TO 1 1/2" HOSE VALVED CONNECTOR	71337	35.34
2 1/2" HYD. TO 1 1/2" NST HOSE VALVED CONNECTOR	71340	41.65
2 1/2" HYD. TO 2" HOSE VALVED CONNECTOR	71338	49.37
2 1/2" HYD. TO 2 1/2" HYD. THREAD VALVED CONN.	71339	78.84



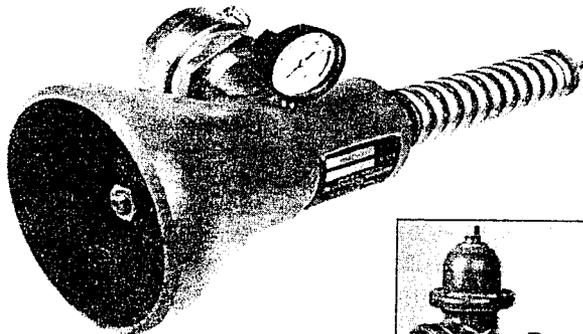
Continuous By-pass Relief Valve - Kunkle 20

- Over pressure relief and protection of pumps, tanks, lines
- For mounting on hydrants, see Index for adapter fittings

Rated up to 300 PSI. Extra heavy all bronze construction. Valve can be inspected and serviced without removal from the line. Ball bearing pivot between disc and spring corrects misalignment and compensates for side thrust. The Model 20 can be field adjusted approximately 20% either way from the setting you specify when ordering.

Specify mid-point pressure when ordering.

SIZE INLET & OUTLET	GPM @ 25% OVER PRESSURE FROM THESE SETTINGS			STOCK #	EACH
	60#	100#	150#		
1/2	7	9	11	29183	\$ 95.51
3/4	16	21	26	29184	95.51
1	27	35	44	29185	111.29
1 1/4	48	62	77	29187	143.72
1	74	97	119	29186	171.75
2	144	187	228	44873	258.50
2 1/2	237	306	376	44875	410.12
3	343	446	547	29188	699.29

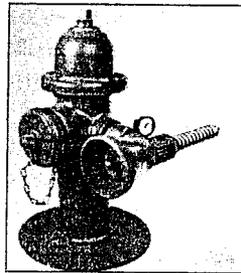


Hydrant Relief Valve 2 1/2" NST

- Field Adjustable
- Stabilizes water distribution pressure when your hydro-pneumatic tank or tower is down for service

The Model "A" unit has a cone and that disperses excess water into a spray so as not to damage the surrounding area. The Model "B" is essentially the same as the "A" but has a removable flange on the cone with a reducer to end up with a 2" NPT(F) opening. The "B" style also comes with a 2 1/2" NST brass adapter so you can hook fire hose directly to it. **Higher pressure ranges available on special order.**

MODEL "A" 0-55 PSI	26400	\$696.80
MODEL "A" 0-100 PSI	26402	696.80
MODEL "A" 0-160 PSI	26403	696.80
MODEL "B" 0-55 PSI	26404	873.60
MODEL "B" 0-100 PSI	26406	873.60
MODEL "B" 0-160 PSI	26407	873.60



Hydro-Pneumatic Tank — Pressure & Vacuum Relief Valves

KUNKLE

Hydro-Pneumatic Tank Pressure and Vacuum Relief Valves

Kunkle Series 912

- Rated for air, liquid, steam and gas service
- Pressure and vacuum



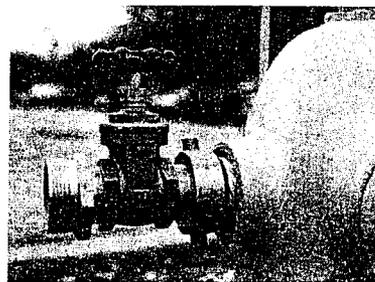
Bronze body with bronze/brass trim. Spring material is chrome vanadium. Seats are lapped to optical flatness. Hex on valve nozzle provides for easy installation of MNPT inlet. Outlet is FNPT.

Pressure can be set from 5-300 PSI to suit your needs and every valve is 100% tested/inspected by ASME valve shop for pressure setting, blowdown and leakage. The 912 can be reset to a different setting by any authorized ASME valve repair shop.

A minimum of 10 PSI differential is recommended between tank pressure and valve setting. If your tank pressure is normally 60 PSI, order a valve with a minimum setting of 70 PSI.

Specify PSI when ordering.

SIZE SETTING	3/4" x 1 1/4"		1 x 1 1/2"		1 1/2" x 2 1/2"		2" x 3"	
	STOCK #	EACH	STOCK #	EACH	STOCK #	EACH	STOCK #	EACH
VAC	49424	\$108.53	49426	\$129.17	49427	\$303.59	49428	\$376.29
65	23815	106.39	23821	129.17	23827	303.59	23833	376.29
70	23816	108.53	23822	129.17	23828	303.59	23834	376.29
75	44861	108.53	44863	129.17	44865	303.59	44867	376.29
80	44860	108.53	44862	129.17	44864	303.59	44866	376.29
85	23817	108.53	23823	129.17	23829	303.59	23835	376.29
90	23818	108.53	23824	129.17	23830	303.59	23836	376.29
95	23819	108.53	23825	129.17	23831	303.59	23837	376.29
SPECIAL	44868	118.98	44870	139.69	44872	312.58	44874	384.65



Hydrant Hose Valves

- Reduce possible hydrant damage
- Be ready with the proper connections when they are needed

See complete description in HYDRANTS section, page 53.

2 1/2" HYD. TO 3/4" HOSE VALVED CONNECTOR	71335	\$25.60
2 1/2" HYD. TO 1" HOSE VALVED CONNECTOR	71336	28.24
2 1/2" HYD. TO 1 1/2" HOSE VALVED CONNECTOR	71337	35.34
2 1/2" HYD. TO 1 1/2" NST HOSE VALVED CONNECTOR	71340	41.65
2 1/2" HYD. TO 2" HOSE VALVED CONNECTOR	71338	49.37
2 1/2" HYD. TO 2 1/2" HYD. THREAD VALVED CONN.	71339	78.84

BASE CIVIL ENGINEER WORK REQUEST

(See Reverse for Instructions)

Form Approved

OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average .3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection information, including suggestions for reducing this burden to the Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project 0704-0188, Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to HQ AFESC/DEMG.

SECTION I - TO BE COMPLETED BY REQUESTER

1. FROM <i>(Organization)</i> 27CE/CEOIUA	2. OFFICE SYMBOL CEOI	3. DATE OF REQUEST 11 Mar 97	4. WORK REQUEST NO. <i>(For BCE Use)</i> 52987
5. NAME AND PHONE NO. OF REQUESTER DONALD F. REED , 2071	6. REQUIRED COMPLETION DATE 21 Mar 97	7. BUILDING, FACILITY OR STREET ADDRESS WHERE WORK IS TO BE ACCOMPLISHED MELROSE RANGE	

8. DESCRIPTION OF WORK TO BE ACCOMPLISHED *(Include Sketch or Plan, when appropriate)*
 Dig up and repair 4" water distribution line located at the Melrose Bombing Range between the new water well and the main building. Provide an air relief valve near the point of the break.

9. BRIEF JUSTIFICATION FOR WORK TO BE ACCOMPLISHED *(Not required for maintenance and repair)*
 New well pump will provide potable water to the Melrose range personnel as well as an abundant supply of water used to suppress range fires caused by lightning and ordinance ignition.

10. DONATED RESOURCES

FUNDS	LABOR	MATERIAL	CONTRACT BY REQUESTER	NONE
-------	-------	----------	-----------------------	------

11. NAME OF REQUESTER Donald F. Reed	12. GRADE OF REQUESTER WS-14	13. SIGNATURE OF REQUESTER <i>(See Reverse of Form)</i>
---	---------------------------------	---

14. COORDINATION

SECTION II - FOR BASE CIVIL ENGINEER USE

15. WORK ORDER *(Place an "X" in the appropriate box.)*

IN-SERVICE	SELF-HELP	CONTRACT	SABER
------------	-----------	----------	-------

16. DIRECT SCHEDULED WORK *(Place an "X" in the appropriate box.)*

EMERGENCY	URGENT	ROUTINE	SELF-HELP	M/C
-----------	--------	---------	-----------	-----

17. SELF-HELP *(Place an "X" in the appropriate box.)*

BRIEFING REQUIRED	ADEQUATE COORDINATION	INSPECTION REQUIRED
-------------------	-----------------------	---------------------

SECTION III - COMPLETE ONLY IF WORK IS TO BE ACCOMPLISHED BY WORK ORDER

18. WORK CLASS	19. PRIORITY	20. ESTIMATED HOURS	21. ESTIMATED FUNDED COST	22. ESTIMATED TOTAL COST
23. THERE IS NO NEED FOR AN ENVIRONMENTAL ASSESSMENT (AFR 19-2)	24. A WRITTEN ASSESSMENT IS BEING/HAS BEEN PROCESSED	25. APPROVED	26. DISAPPROVED	

27. REMARKS

SECTION IV - APPROVING AUTHORITY

28. NAME AND GRADE <i>(Please Type or Print)</i>	29. SIGNATURE	30. DATE
--	---------------	----------

REQUEST FOR PURCHASE				NO.	
INSTALLATION CANNON AFB, NM. 88103-5000				DATE 11 Mar 09	
TO: CONTRACTING OFFICER 27/LGC, CANNON AFB, NM. 88103-5131				CLASS	
THROUGH 27/LGC FW.FMFS, CANNON AFB. NM. 88103-5260				CONTRACT, PURCHASE ORDER OR DELIVERY ORDER NO. 111 ENGINEERS WAY	
FROM: (Insert RC/CC, if applicable) 27CE/CC, CANNON AFB., NM. 88103-5136					
IT IS REQUESTED THAT THE SUPPLIES AND SERVICES ENUMERATED BELOW AND IN THE ATTACHED LIST, BE					
PURCHASED FOR 27CE/CEOIUA		FOR DELIVERY TO 111 ENGINEERS WAY		NOT LATER THAN ASAP	
ITEM	DESCRIPTION OF MATERIAL OR SERVICES TO BE PURCHASED	QUANTITY	UNIT	ESTIMATED UNIT PRICE	ESTIMATED TOTAL COST
001	Dig up and repair a 4" water distribution line located at the Melrose Bombing range between the well house and the main building Provide an air relief valve at the point of the break SUGGESTED SOURCE: W.T. Denton, 316 Norris St., Clovis N.M. 763-7592	1	EA	\$ 1000.00	\$ 1000.00
TOTAL					\$ 1,000.00
PURPOSE 4H4465					
DATE	TYPED NAME AND GRADE OF REQUESTING OFFICIAL	SIGNATURE			
11 Mar 97	JOAQUIN G. MADRIL, WS-15 Deputy Chief, Operations Flight	TELEPHONE NO. 784-2449			
DATE	TYPED NAME AND GRADE OF APPROVING OFFICIAL	SIGNATURE			
	LAWRENCE NYGREN, GM-14 Deputy Base Civil Engineer				
<i>I certify that the supplies and services listed above and in the attached list are properly chargeable to the following allotments, the available balances of which are sufficient to cover the cost thereof, and funds have been committed.</i>					
ACCOUNTING CLASSIFICATION				AMOUNT	
				\$	
DATE	TYPED NAME AND GRADE OF CERTIFYING OFFICIAL	SIGNATURE			



USA BlueBook

A Division of Utility Supply of America, Inc.

3995 Commercial Avenue
Northbrook, IL 60062

(847) 291-7000
fax (847) 272-8914

FAX COVER SHEET

TO: Scott Bell
COMPANY: Cannon AFB
FAX NO.: 505 784 ~~XXXX~~

DATE: 5-29-97
TIME: _____

FROM: Sandi

TOTAL PAGES INCLUDING
COVER PAGE: 5

SUBJECT: 2" Air Release & Vacuum Vlv. for
Deep Well pump

w/o throttle valve Part# 144WD.1
Price \$ 317.00

w/ throttle valve Part# 144DAT.1
Price \$ 389.00

→ Please advise when ordering.

Sorry for the delay.

CONTRACT NUMBER: 52-212-4
 DATE: 07 APR 53
 OFFICE OF THE CONTRACTING OFFICER: [Blank]
 TELEPHONE NUMBER: [Blank]

CONTRACTOR: WENTON MECHANICAL INC
 ADDRESS: 118 E CENTRAL AVE SUITE 1119
 CLEVELAND OHIO 44115
 TELEPHONE: 585-244-7592

DELIVER TO: [Blank]
 ADDRESS: [Blank]
 CONTRACTOR'S OFFICE: [Blank]
 TELEPHONE: [Blank]

CHECK IF VARIANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER
 THE SUPPLY INVOICES TO ADDRESS SHOWN IN ORDER ARE UNLESS ALREADY BELOW IS CHECKED (SEE ADDENDUM)

ITEM NO.	SCHEDULE OF SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
SEE ATTACHED SCHEDULE(S) ITEMS					

DELIVER TO FOR QUANTITY BY: 07 APR 53
 TOTAL AWARD AMOUNT (FOR WORK USE ONLY): 1000.00

CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4, 52.212-9 AND 52.212-5 ARE ATTACHED. ADDENDUM [Blank] ARE NOT ATTACHED.

CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO [Blank] OFFICE OF CONTRACTS REFERENCED ABOVE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH IN BIDDING IDENTIFIED ABOVE AND IN ANY ADDITIONAL SHEETS SUBJECT TO SOLICITATION BLOCK 33 INCLUDING ANY AMENDMENTS OR CHANGES WHICH ARE SET FORTH HEREIN. IS ACCEPTED AS IN ITEMS.

SIGNATURE OF CONTRACTOR: [Blank]
 OFFICE OF CONTRACTS REFERENCED ABOVE: [Blank]

NAME AND TITLE OF CONTRACTOR OFFICER (TYPE/PRINT): WILLIAM GALLMAN, JR.
 NAME AND TITLE OF CONTRACTING OFFICER (TYPE/PRINT): [Blank]

QUANTITY IN COLUMN 23 HAS BEEN: [Blank]
 CONTRACTOR'S OFFICE: [Blank]

SIGNATURE OF AUTHORIZED GOVT. REPRESENTATIVE (TYPE/PRINT): [Blank]
 CONTRACTOR'S OFFICE: [Blank]

RECEIVED BY (PRINT): [Blank]
 RECEIVED BY (SIGNATURE): [Blank]

CONTRACT ACCOUNT IS CORRECT AND PROPER FOR THE WORK: [Blank]
 CONTRACTOR'S OFFICE: [Blank]

CONTRACT TOTAL: 1000.00

SECTION MECHANICAL INC

LINE NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
---------	-------------------	----------	------	------------	--------

SERVICES NONPERSONAL TO FURNISH ALL LABOR, TOOLS, PARTS, MATERIALS, FACILITIES AND TRANSPORTATION NECESSARY TO PERFORM SERVICE OR SERVICES LISTED BELOW.

THE FOLLOWING CLAUSES ARE HEREBY MADE A PART OF THIS ORDER.
"CLAUSES"

- 1. CLAUSES INCORPORATED BY REFERENCE (OAR 1984)
(FAR 52.257-1/52.167(A))

THIS CONTRACT INCORPORATES THE FOLLOWING CLAUSES BY REFERENCE WITH THE SAME FORCE AND EFFECT AS IF THEY WERE GIVEN IN FULL TEXT. UPON REQUEST, THE CONTRACTING OFFICER WILL MAKE THEIR FULL TEXT AVAILABLE.

- I. FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1 CLAUSES (FAR))
- II. OLD FEDERAL ACQUISITION REGULATION CLAUSES (DFARS)
- III. AIR FORCE FEDERAL ACQUISITION REGULATION (SUPPLEMENT CLAUSES (ACOFAR))
- 2. / / NOTICE TO SUPPLIER (APR 1984) (FAR 52.215-3/15.506(C))
THIS IS A FIRM ORDER ONLY IF YOUR PRICE DOES NOT EXCEED THE MAXIMUM LINE ITEM OR TOTAL PRICE IN THE SCHEDULE. SUBMIT INVOICES TO THE CONTRACTING OFFICER. IF YOU CANNOT PERFORM IN EXACT ACCORDANCE WITH THIS ORDER, WITHHOLD PERFORMANCE AND NOTIFY THE CONTRACTING OFFICER IMMEDIATELY, GIVING YOUR QUOTATION.
- 3. / / MANDATORY INFORMATION FOR ELECTRONIC FUNDS TRANSFER PAYMENT (AUG 1996) (FAR 52.232-33/32.1103(A))
- 4. / / OPTIONAL INFORMATION FOR ELECTRONIC FUNDS TRANSFER PAYMENT (AUG 1996) (FAR 52.232-34/32.1103(B))
- 5. / / CHANGES - FIXED PRICE - ALTERNATE I (AUG 1987) (FAR 52.243-1/43.285(A)(2))
- 6. / / CHANGES - FIXED PRICE - ALTERNATE II (AUG 1987) (FAR 52.243-1/43.285(A)(3))
- 7. / / D.D. DESTINATION (NOV 1991) (FAR 52.247-34/47.803-6(C))
- 8. TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (SERVICES) (OAR 1984) (FAR 52.249-4/49.562(C))
- 9. PRICING OF CONTRACT MODIFICATIONS (DEC 1991) (OAR 1984) (FAR 52.249-7/49.205-71)
- 10. / / TAXPAYER IDENTIFICATION NUMBER (TIN) (ACOFAR SUPPLEMENT) (FAR 52.1-120) INDIVIDUAL (MEMBER/CONTRACTOR) IS REQUESTED TO PROVIDE TIN (SOCIAL SECURITY NUMBER OR AN EMPLOYER IDENTIFICATION NUMBER) ON INVOICES SUBMITTED FOR PAYMENT.

***** IMPORTANT INFORMATION *****
BELOW WE HAVE ENTERED THE 'REMIT TO' ADDRESS ONLY. FAILURE TO HAVE GIVEN THE CORRECT 'REMIT TO' ADDRESS COULD DELAY PAYMENT.

S.P. 102

ORG: JAC62MPMTSDIST / 774CES70P1R100 1 00 1000.0000 1000.00

REPAIR WATER DISTRIBUTION LINE BELONGING TO RANGE BETWEEN THE WELL HOUSE AND THE RAIN BUILDING. PROVIDE AN AIR RELIEF VALVE AT THE POINT OF THE

(CONTINUED)

LINE NO	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT
---------	-------------	----------	------	------------	--------

	SUPPLIES REQUIRED TO PERFORM ALL WORK REQUIRED TO SET UP AND REPAIR A 4-INCH PAPER DISTRIBUTION LINE LOCATED AT		INCH		
				PO# PHIL NISIL (800)764-6636	

WARRANTY/GUARANTEE STATEMENT

1. WARRANTY/GUARANTEE FILE NUMBER		2. DATE <i>23 FEB 87</i>	3. FACILITY <i>MEIROSE RANGE</i>	4. PROJECT NUMBER <i>84-0005</i>
5. DESCRIPTION: <i>Fiberglass TANK Four Pumps Wash Rack</i>				
6. PROJECT INSPECTOR <i>MSGT. TAYLOR</i>				
7. CONTRACTOR <i>SENA CONSTRUCTION</i>				
8. ADDRESS				
9. PHONE			10. RESPONSE TIME	
11. CONSTRUCTION WARRANTY			12. EXPIRATION DATE <i>21 Mar 86</i>	
13. 274 ATTACHED		14. LOCATION	15. EXTENDED EQUIPMENT WARRANTY	
16. MANUFACTURER		17. SERIAL NUMBER	18. MODEL	19. WARRANTY EXPIRATION DATE
A. _____				
B. _____				
C. _____				
D. _____				
E. _____				
F. _____				
G. _____				
H. _____				
I. _____				
J. _____				
20. REPLACEMENT ITEM		21. NEW INSTALLATION	22. OPERATOR MANUALS RELEASED IWP	

Steve issue cont BLAS

Input cancelled in BLAS

REQUEST FOR ADDITIONAL PR INFORMATION/CANCELLATION OF PURCHASE REQUEST

DATE 25 MAY

TO 27 TKW/ACK
~~27059/DEMM~~

FROM L6CV

PURCHASE REQUEST NUMBER FLOODE 80830005

STOCK NUMBER J04310 pumps

THE REFERENCED PURCHASE REQUEST(S) IS(ARE) BEING HELD FOR THE FOLLOWING REASON(S):
 THE REFERENCED PURCHASE REQUEST(S) IS (ARE) CANCELLED FOR THE FOLLOWING REASON(S):

CHECK APPL BOX INADEQUATE COMMERCIAL DESCRIPTION - LACK OF:
 COLOR DIMENSIONS END USE MANUFACTURER
 PART NUMBER "OR EQUAL" VENDOR CANNOT IDENTIFY

CHECK APPL BOX	REQUEST CHANGE	FROM	TO
	ROUTING IDENTIFIER		
	STOCK NUMBER		
	AND/OR MANUFACTURER'S PART NUMBER		
	UNIT OF ISSUE		
	THIS WILL NOT RESULT IN UNIT PRICE CHANGE	\$	\$

NEED _____ DAYS DELIVERY TIME

REQUEST COMPLIANCE WITH AFM 67-1, VOLUME I, PART ONE, CHAPTER B, SECTION A.
 ITEM IS IDENTIFIED BY A MANUFACTURER'S PART NUMBER TYPE DESCRIPTION. A COMMERCIAL DESCRIPTION NEEDS TO BE DEVELOPED FOR THE ITEM.
 IF REQUIRED ITEM MUST BE OBTAINED BY USE OF A MANUFACTURER'S P/N TYPE DESCRIPTION, INDICATE ON PURCHASE REQUEST IF ITEM IS
 A COMPONENT PART. IF SO, OF WHAT?
 A QPL ITEM. IF SO, INDICATE QPL NUMBER.
 NEED APPLICABLE MODEL, MAKE, OR CATALOG NUMBER (Identify the commercial catalog in which it appears).
 INDICATE ON PURCHASE REQUEST: "THIS ITEM IS REQUIRED TO ASSURE SAFE, DEPENDABLE AND EFFECTIVE OPERATION. NONE OTHER WILL BE ACCEPTED."

BRAND NAME OR SOLE SOURCE JUSTIFICATION IS REQUIRED. IF AN "OR EQUAL" IS ACCEPTABLE, PLEASE INDICATE THE MANUFACTURER(S) AND PART NUMBER(S) OF ACCEPTABLE SUBSTITUTES.

THE ABOVE REQUISITION WILL BE CANCELLED IF NOT RETURNED BY _____.

NO RESPONSE TO HOLDOVER LISTING DATED _____.

NO RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION DATED _____.

NO RESPONSE TO TELECON BETWEEN _____ AND _____.

OTHER REASONS
Per telecon Steve Conway, repaired free of charge under warranty 88-W0100.

SIGNATURE OF BRANCH CHIEF
Charles J. Brown

SIGNATURE OF SYSTEMS MANAGER

INSTALLATION NAME <i>Canyon AFB</i> <i>CZQZ</i>	2. WORK REQUEST NO. —	3. PROJECT NO. —	4. REQUESTER'S NAME AND PHONE NO. <i>Rollinson, 2379</i>	5. CHANGE ORDER NO.
---	--------------------------	---------------------	---	---------------------

STATEMENT OF WORK

Repair Well Pump

13. AUTHORIZATION

A. SIGNATURE
[Signature]

B. DATE
23

A. SIG OF CC

14. COMPLETION

15. TOTAL ESTIMATED COST
\$800.00

B. COST CEN

C. ACTUAL

WORK ORDER MASTER FILE (Remote Input Format) (Card Columns 1-109)																			
TRANSACTION IDENTIFIER		CONTROL INSTL	C	WORK ORDER NO.	T	W	NR	INSTL INDICATOR	W	FACILITY I.D. NO.	FAC SUF	COST ACCOUNT	P	C	G	WORK DESCRIPTION			
1-7		8	9-12	13	14-18	19	20	21	22-23	24-27	28	29-30	31-35	36-37	38-42	43	44	45	46-75
C	M	-	A	D	D	.	<i>CZQZ</i>	<i>A</i>	<i>88088</i>	<i>P</i>	<i>1</i>	<i>901</i>	<i>CZQZ</i>			<i>49000</i>			<i>RPR WELL PUMP</i>
CONTINUATION OF REMOTE INPUT FORMAT										10. INPUT FORMAT WHEN USING PSEUDO REMOTE					CARD COLUMNS 1-80—USE FORMAT ABOVE FOR TRAN CARD COLUMNS 1-48—USE FORMAT BELOW FOR TRAN				
NO OPENING DATE	EST. START DATE	EST. COMP. DATE	EST. NON-AF EXCESS MAT.	R	O	F	O	RES	REPEAT CARD COLUMNS 1-19 ABOVE	T	NO OPENING DATE	EST. START DATE	EST. COMP. DATE	EST. NON EXCESS I					
81-86	87-92	93-98	99-105	106	107	108	109	110-111	1-19	20	21-26	27-32	33-38	39-4					
<i>7/12/88</i>	<i>7/12/88</i>	<i>8/1/88</i>							<i>[Lightning Bolt]</i>	<i>2</i>									

WORK ORDER SHOP FILE (Remote/Pseudo Remote Input Format)														
TRANSACTION IDENTIFIER		CONTROL INSTL	C	WORK ORDER NO.	COST CENTER	NO. RE-REQUIRED	ESTIMATED LABOR HRS.	ESTIMATED SHOP RATE COST	ESTIMATED DIRECT MATERIAL COST	ESTIMATED PROJECT CONTRACT COST	ESTIMATED SERVICES CONTRACT COST	ESTIMATED COST		
1-7		8	9-12	13	14-18	19-21	22	23-25	26-30	31-37	38-46	47-55	56-64	65-7
C	N	-	A	D	D	.	<i>CZQZ</i>	<i>A</i>	<i>88088</i>	<i>491</i>			<i>80000</i>	
C	N	-	A	D	D	.								
C	N	-	A	D	D	.								
C	N	-	A	D	D	.								
C	N	-	A	D	D	.								
C	N	-	A	D	D	.								
C	N	-	A	D	D	.								
12 TOTAL														

CIVIL ENGINEERING WORK ORDER

Date: 20041216 Time: 1211

Work Order: CZQZA Z5519 Title: PUMPS ARE NOT WORKING WAT SI Code: Status: R
Facility #: PXLY 03121 Work Zone: Gen/Senior Qtrs:
F Mgr: PIMPSNER, DAN Phone #: 46644 Orgn: OSS

Requestor: JOHNNY ROGERS Phone #: 6644 Orgn: OSS MELROSE
Location: Cust Code: 201K

Service (Work Description)

PUMPS ARE NOT WORKING WATER HOLDING TANK

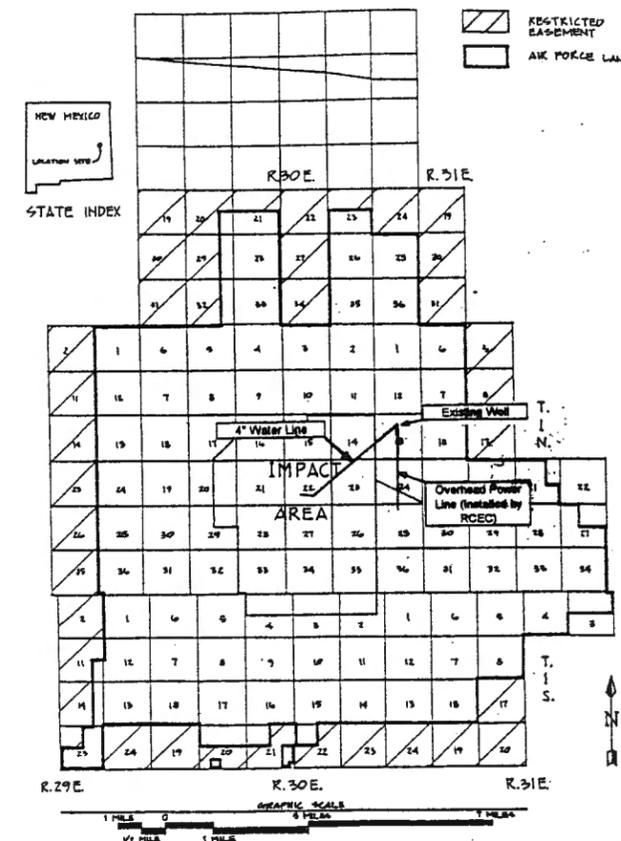
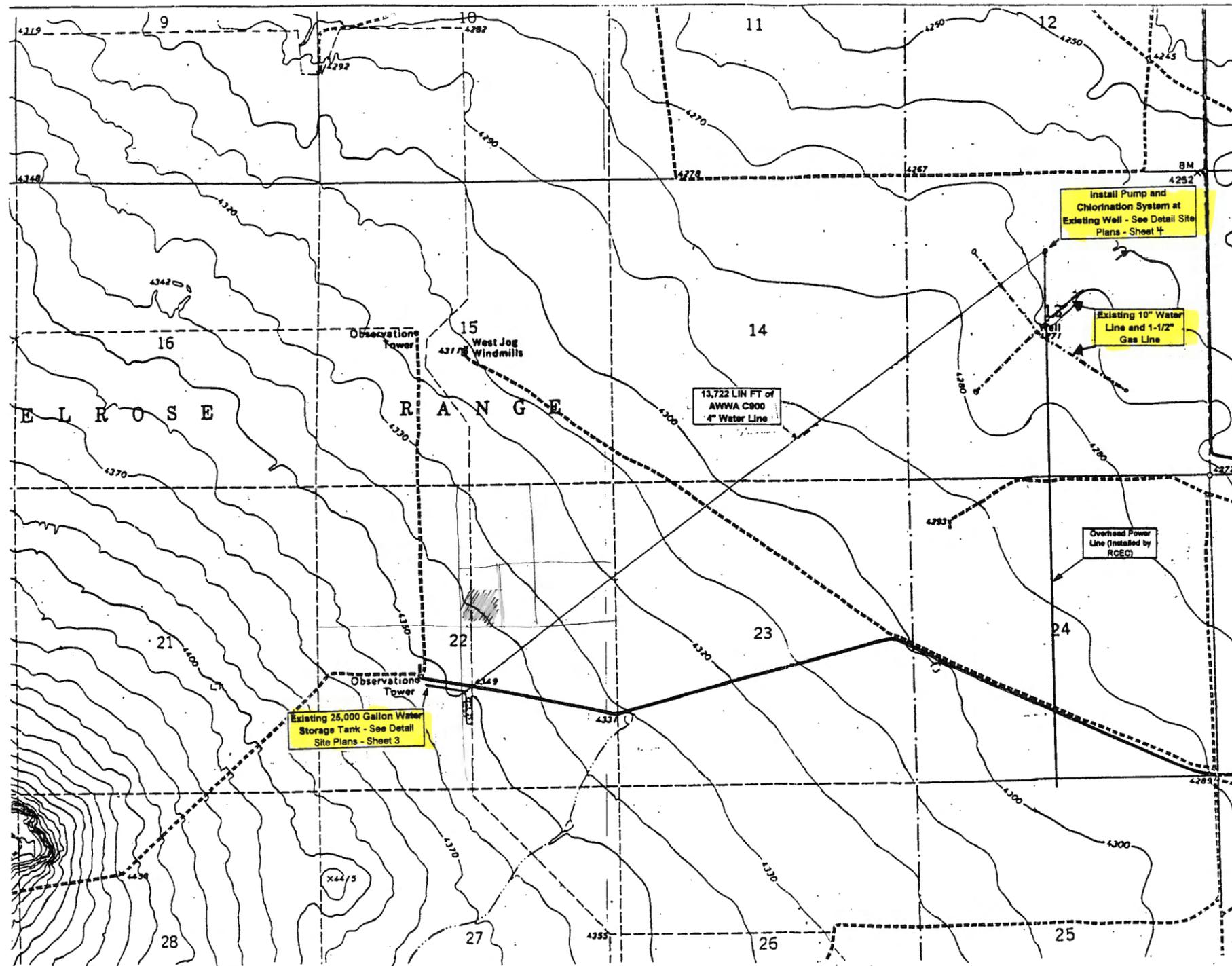
EPS Noun: EPS TTS: Est Hours:
Type Service: ROUTINE DIN Truck #:
Commit Date: 20050110 Adjusted Commit Date: 20050110

Shops	Name	Actual Hours	Status
465	HZ WATER/SEWER MAINT.		OPEN

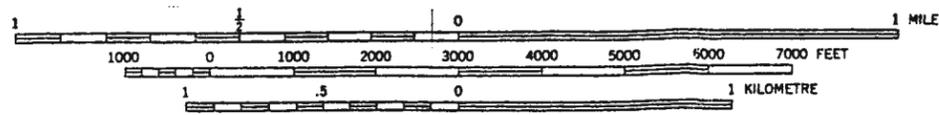
Work Order Remarks

Work Order: CZQZAZ5519 PUMPS ARE NOT WORKING WATER HO

Work Order: CZQZAZ5519 PUMPS ARE NOT WORKING WATER HO



784-1098



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

REV	DATE	DESCRIPTION	BY	APPROV
DEPARTMENT OF THE AIR FORCE AIR COMBAT COMMAND CANNON AFB, NM CIVIL ENGINEER OFFICE				
SITE PLAN				
CHECKED BY P. SEARS	DRAWN BY S.W. MCCOLLIN	DATE 22 FEB 98	SCALE NO SCALE	SHEET 2
PROJECT NO 94-0102	DRAWING NO 2535.02			