

GW – 398

**PERMITS,
RENEWALS,
& MODS
Application**



RECEIVED

2009 NOV 13 PM 12 00

November 11, 2009

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: GW 398

Answers to your question from e-mail dated 10/28/09 are listed below:

1. A map showing the proper location of PESCO's LaPlata facility is in this package.
2. The map is marked with an arrow showing the north direction.
3. Shot blast is a metal blasting media used in place of sand. The metal media can be used over a number of times before it is discarded. PESCO discards the shot blast and paint waste debris using Envirotech of Farmington.
4. I changed the OCD rule references to the proper OCD Part numbers.
5. POND MODIFICATION: PESCO is looking into what needs to be done to comply with leak detection system per OCD regulations.
6. PESCO is not using the secondary pond it will be drained and cleaned,
7. PESCO public notice was e-mail for review and on 11/5/09 reply was received that you had receive the public notice.

Leonard please let me know if you need anything else or if you have question on items sent.

Rod Troxell
HSE
PESCO



REPLACE PREVIOUS
SECTION 11

PESCO La Plata Discharge Plan 2009

11 Spill Prevention and Reporting Procedures

As discussed in other areas of this discharge plan, steps are taken to minimize the chances of leaks or spills at the PESCO facility. The PESCO facility is manned 5 days a week, 11 hours per day. Any spills or leaks occurring when the facility is manned are dealt with immediately. If a spill occurs, the following steps are taken for containment, clean up and notification.

Spill Containment

The first step in spill containment is spill control, or stopping the source of the spill. This is done by any suitable means that does not endanger personnel. Containment measures may include

- Building earthen berms,
- Using absorbent materials,
- Transferring fluids from damaged containment into backup containers, - Backup containers are normally kept on hand at all times.

Spill Clean-up

Spill clean-up and disposition of spill material are carried out in accordance with current rules and regulations.

Notification

For significant leaks and spills, notification is in accordance with NM COD Part 29 and WQCC section 1203

- Spill release quantities greater than 5 barrels and less than 25 barrels will be reported as minor releases.
- Spills in excess of 25 barrels and other releases as defined in NM OCD Part 29 will be reported as major releases.
- Any spill that is properly contained by secondary containment will not be considered reportable.

In accordance with Part 29, verbal notification of reportable releases will be made within 24 hours of release discovery. Written notification on OCD form C-141 will be submitted within 15 days of release discovery to:

OCD Environmental Bureau Chief
120 South St. Francis Drive
Santa Fe, NM 87505

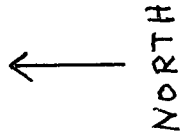
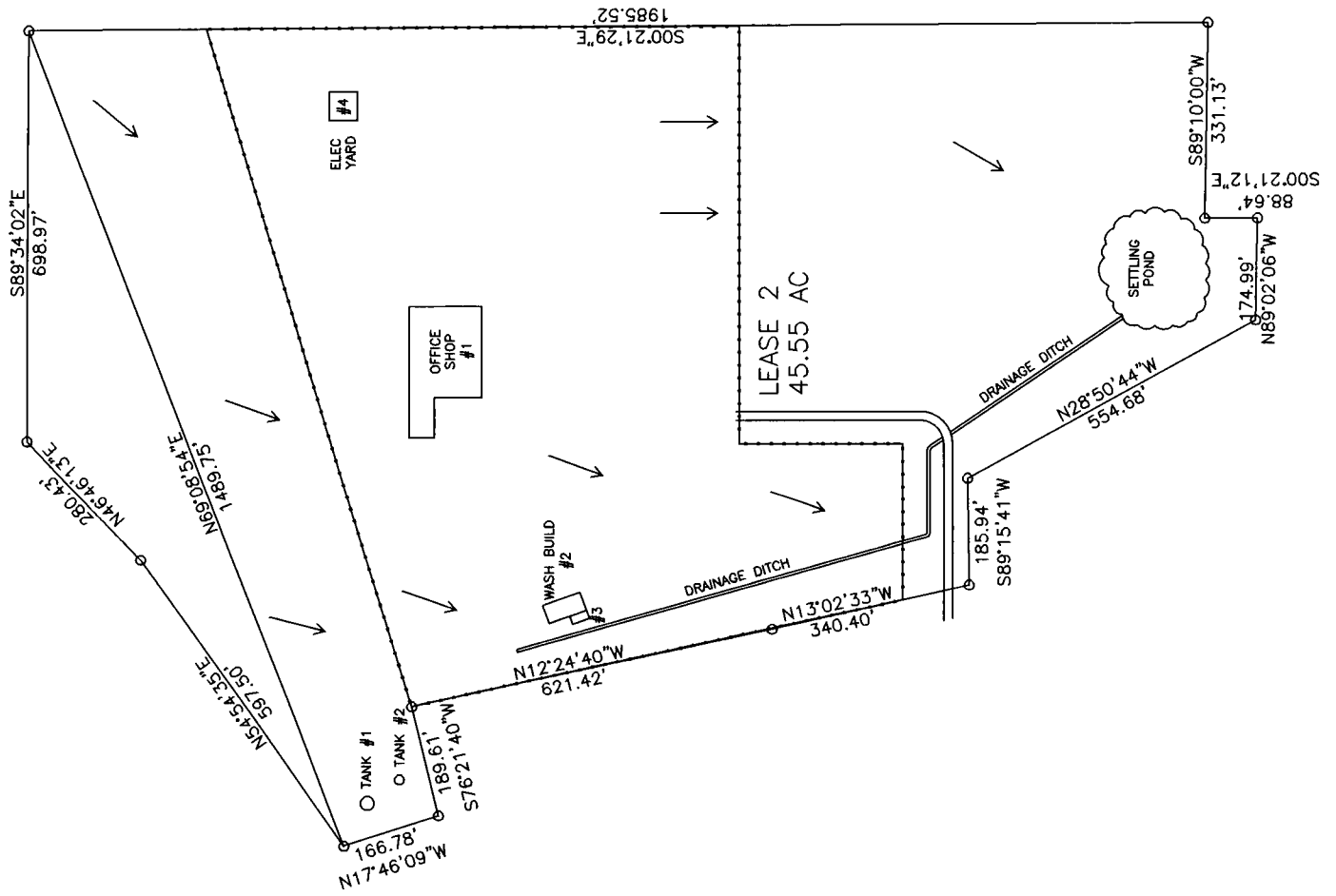
OCD District III
1000 Rio Brazos Road
Aztec, NM 87401

13 Other Compliance Information

Facility Closure Plan – Information

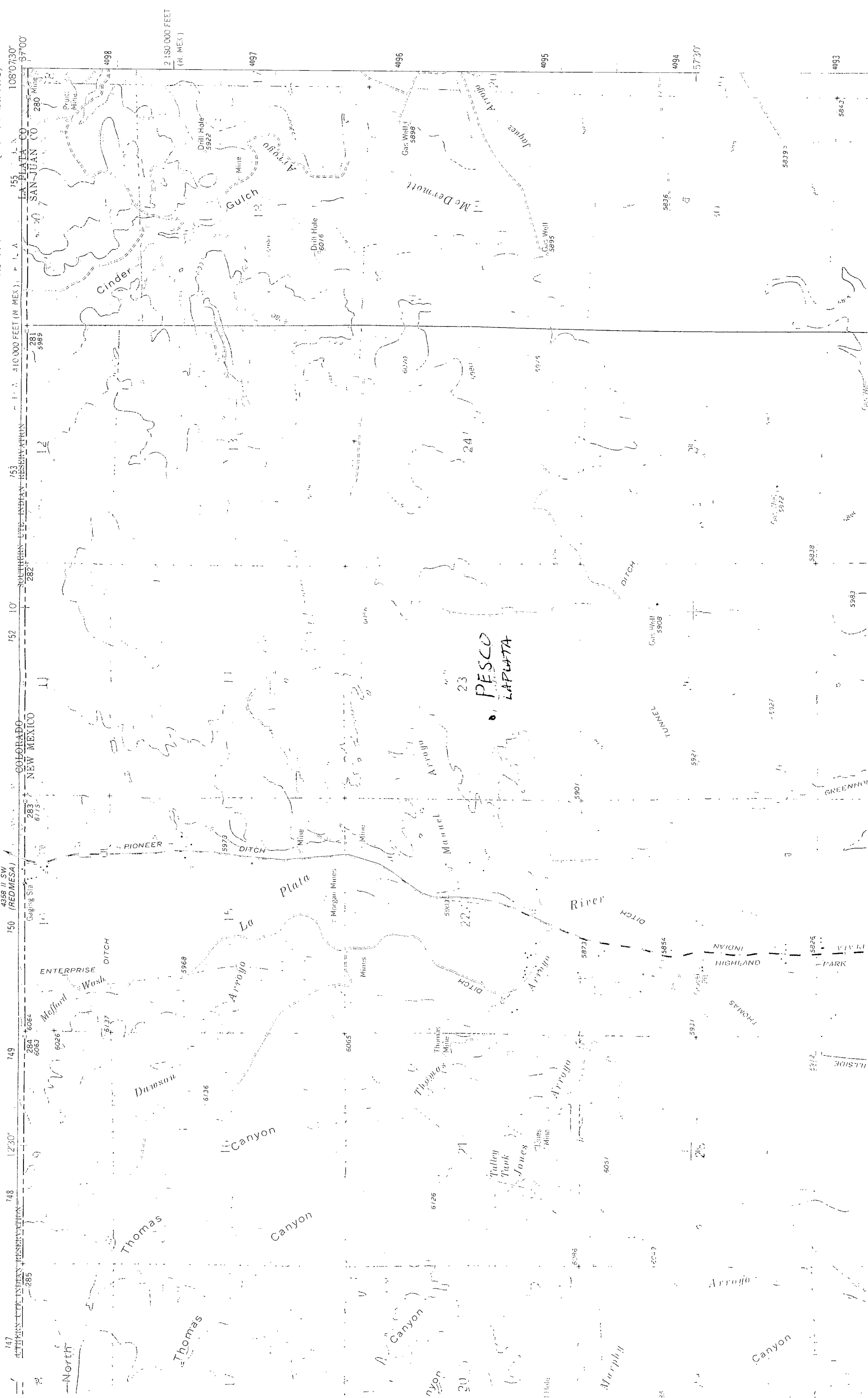
PESCO will take all reasonable and necessary measures to prevent exceeding New Mexico water quality standards (20.6.2.3.3103 NMAC), should a decision be made to permanently close the facility. Closure methods will include the following:

- The facility will be cleaned; all debris, trash, etc. will be removed.
- All solids and liquids will be removed and disposed of in an appropriate manner. Tanks will be emptied. No potentially toxic materials or effluents will remain on site.
- All containment not associated with permanent structures will be removed. Closure methods will include removal or closure in place of any underground piping or equipment that cannot be feasibly removed.
- Any obvious spills and/or contamination will be remedied in accordance with applicable environmental standards. All potential sources of toxic pollutant will be inspected. If contaminated soil is discovered, all necessary reporting under NMOCD Part 29 and 20.6.23.1203 NMAC will be made and clean-up activities will commence.
- The empty facility will be brought into compliance with appropriate environmental standards.



- ↓ SLOPE OF YARD FOR DRAINAGE
1. MAIN FACILITY
 2. WASH BAY
 3. CONCRETE DRAINAGE CONTAINER
 4. ELECTRICAL SUB-STATION
- TANK #1 WATER FOR FIRE SUPPRESSION
TANK #2 POTABLE WATER

LA PLATA QUADRANGLE
NEW MEXICO-COLORADO
7.5 MINUTE SERIES (TOPOGRAPHIC)
4358 II SE
(PINKERTON MESA)



Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Wednesday, October 28, 2009 4:54 PM
To: 'Rod Troxell'
Cc: Powell, Brandon, EMNRD
Subject: GW-398, Pesco La Plata Application

Mr. Troxell,

I am reviewing your application for the La Plata facility:

Questions:

1. The location you note for the facility of NE/4 SE/4 of Section 23 DOES NOT correspond to the location identified on the Topo map. Please clarify.
2. The facility map does not indicate any cardinal direction. Being that I was there, I will note which direction is North. Please, during your next renewal annotate directions.
3. What is shot blast? This is a waste stream? Produced from what?
4. NOTE: Rule 116 is now Part 29. Rule 712 is now Part 35. Please update all your references to these two and any other OCD rule references.
5. POND MODIFICATION: Pesco might want to submit their work plan for the modification of their pond. From what was verbally submitted the modification is NOT acceptable. Pesco will need to perform hydrostatic tests on the pond every year until the pond is re-engineered to meet rule requirements of a pond with a leak detection system. Modification ONLY of the application shall be resubmitted with the work plan of the pond.
6. The photos submitted only show work done on the larger portion of the pond. The pond located north of the



larger area needs to be modified as well. See photo:

7. Pesco may submit their public notice for review.

llowe

Leonard Lowe

Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us

ACKNOWLEDGEMENT OF RECEIPT
OF CHECK/CASH

I hereby acknowledge receipt of check No. _____ dated 9/15/09

or cash received on _____ in the amount of \$ 100⁰⁰

from Process Equipment & Service

for GW-398

Submitted by: LAWRENCE PAVICIC Date: 9/25/09

Submitted to ASD by: LAWRENCE PAVICIC Date: 9/25/09

Received in ASD by: _____ Date: _____

Filing Fee _____ New Facility _____ Renewal _____

Modification _____ Other _____

Organization Code 521.07 Applicable FY 2004

To be deposited in the Water Quality Management Fund.

Full Payment _____ or Annual Increment _____

PROCESS EQUIPMENT & SERVICE CO., INC.
VENDOR NEW MEXICO WATER QUALITY

12741

NO. 062290

OUR REF. NO.	YOUR INV. NO.	INV. DATE	INVOICE AMOUNT	AMOUNT PAID	DISCOUNT TAKEN
	09-16-09 GW-398	9/15/2009	\$100.00	\$100.00	\$0.00

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Revised June 10, 2003

Submit Original
Plus 1 Copy
to Santa Fe
1 Copy to Appropriate
District Office

**DISCHARGE PLAN APPLICATION FOR SERVICE COMPANIES, GAS PLANTS,
REFINERIES, COMPRESSOR, GEOTHERMAL FACILITIES
AND CRUDE OIL PUMP STATIONS**

(Refer to the OCD Guidelines for assistance in completing the application)

☒ New ☐ Renewal ☐ Modification

GW - 398

1. Type: GW-398 MANUFACTURE, SERVICE & RENEWAL OF GAS PROCESSING EQUIP.

2. Operator: PESCO - PROCESS EQUIPMENT & SERVICE CO.

Address: PO BOX 929, FARMINGTON, NM 87499

Contact Person: ROD TROXELL Phone: 505.324.3964

3. Location: NE /4 SE /4 Section 23 Township 32 Range 13 WEST
Submit large scale topographic map showing exact location.

4. Attach the name, telephone number and address of the landowner of the facility site.

5. Attach the description of the facility with a diagram indicating location of fences, pits, dikes and tanks on the facility.

6. Attach a description of all materials stored or used at the facility.

7. Attach a description of present sources of effluent and waste solids. Average quality and daily volume of waste water must be included.

8. Attach a description of current liquid and solid waste collection/treatment/disposal procedures.

9. Attach a description of proposed modifications to existing collection/treatment/disposal systems.

10. Attach a routine inspection and maintenance plan to ensure permit compliance.

11. Attach a contingency plan for reporting and clean-up of spills or releases.

12. Attach geological/hydrological information for the facility. Depth to and quality of ground water must be included.

13. Attach a facility closure plan, and other information as is necessary to demonstrate compliance with any other OCD rules, regulations and/or orders.

14. CERTIFICATION: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: ROD TROXELL

Title: HEALTH, SAFETY & ENVIRONMENTAL

Signature: R. L. TROXELL

Date: 09-14-2009

E-mail Address: rod@pescointc.biz

2009 SEP 15 AM 11:53
RECEIVED OCD



PESCO La Plata Discharge Plan 2009

1 Type of Operation

Process Equipment and Service Company (PESCO), Inc. sells, manufactures and repairs oil and gas production and processing equipment such as tanks, dehydrators, and pressure vessels. The site includes equipment for the following industrial activities.

- Welding and Grinding
- Painting
- Shot blasting
- Steam Cleaning



PESCO La Plata Discharge Plan 2009

2 Operator / Legally Responsible Party

Process Equipment and Service Company, Inc.
PO Box 929
Farmington, NM 87499
(505) 327-2222
Contact: Rod Troxell

The main phone number (above) gives an on call pager number in the event of after-hours emergencies.



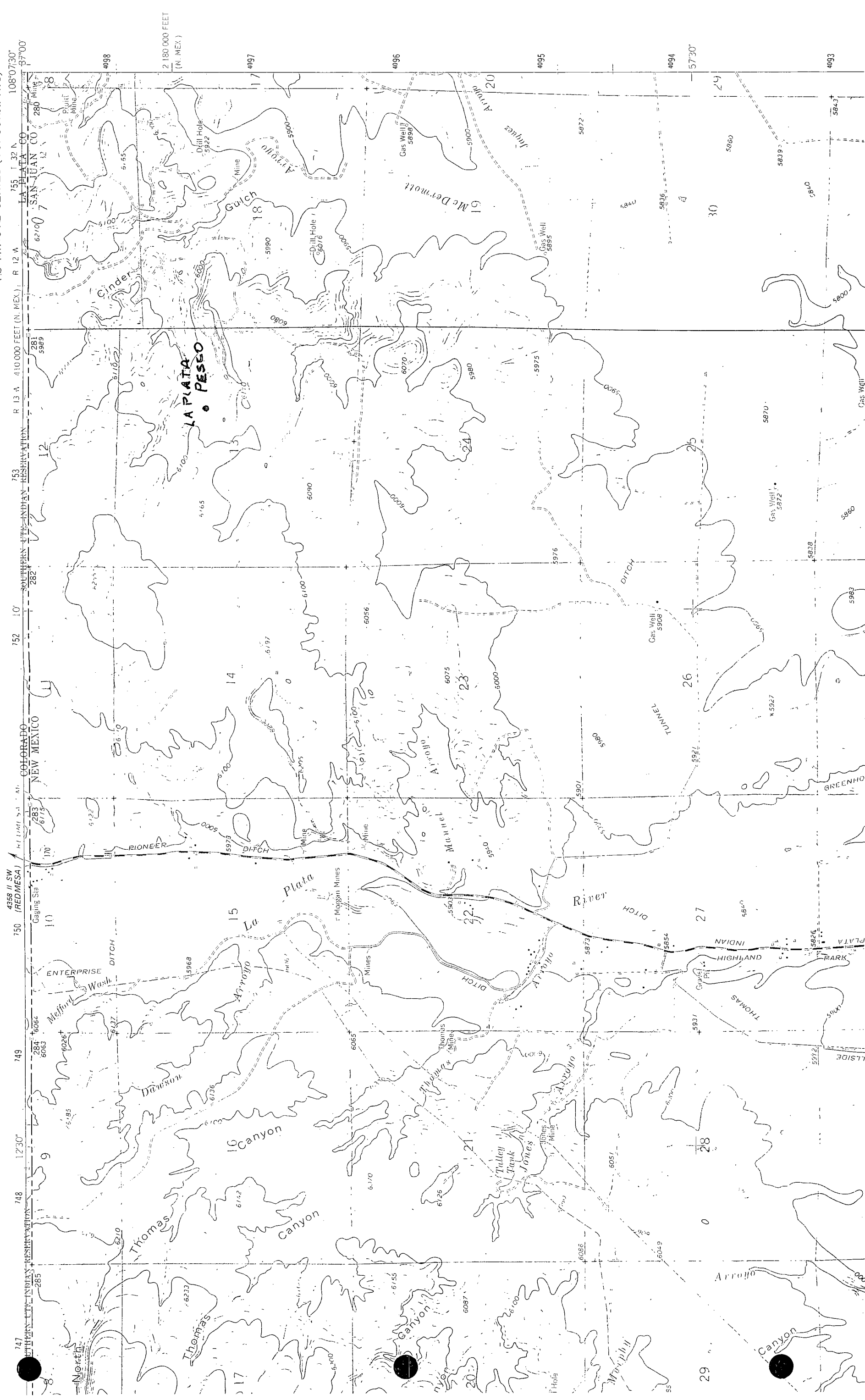
PESCO La Plata Discharge Plan 2009

3 Location of Facility

The facility is located in the NE $\frac{1}{4}$ of the SW $\frac{1}{4}$ of Section 23, Township 32 North, Range 13 West in San Juan County, New Mexico. The site is approximately 17 miles north of Farmington, New Mexico off state route 170. Address 161 CR 1130, La Plata, NM.

A portion of a 7.5" USGS topographic map is on the following page, showing the location of PESCO.

LA PLATA QUADRANGLE
NEW MEXICO-COLORADO
7.5 MINUTE SERIES (TOPOGRAPHIC)



747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000



PESCO La Plata Discharge Plan 2009

4 Landowner

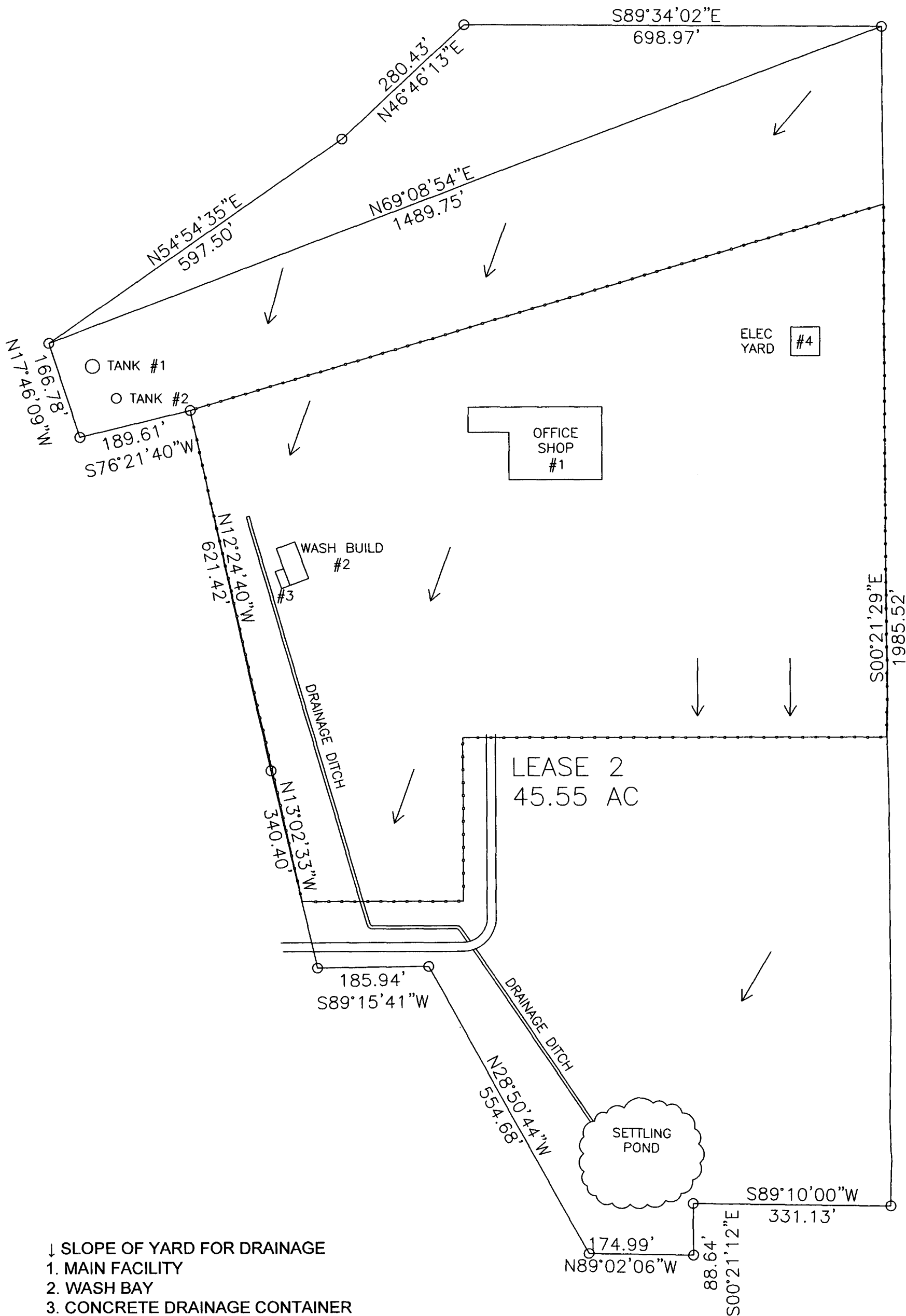
San Juan County
100 South Oliver St.
Aztec, NM 87410

Contact person: Keith John
Title: County Executive Officer
Phone: 505.334.9481



5 Facility Description

Following page shows the faculty's bounties, fences, buildings and concrete drainage containment at the site.



- ↓ SLOPE OF YARD FOR DRAINAGE
1. MAIN FACILITY
 2. WASH BAY
 3. CONCRETE DRAINAGE CONTAINER
 4. ELECTRICAL SUB-STATION
- TANK #1 WATER FOR FIRE SUPPRESSION
TANK #2 POTABLE WATER
FENCE LINE ————

6 Material Storage: Raw Materials Stored or Used on Site

Material Stored	Storage Container	Max. Estimated Storage Volume	Location
Drilling Fluids	N/A	N/A	N/A
Brines	N/A	N/A	N/A
Acids/Caustics	N/A	N/A	N/A
Detergents/ Soaps	Drum	110 gal	Wash Bay
Paraffin Treatment	N/A	N/A	N/A
Biocides	N/A	N/A	N/A
Diesel	Approved Steel Gas Cans	10 gal	Main Facility
Gasoline	Approved Steel Gas Cans	15 gal	Main Facility
Anti-Freeze (used)	Single Wall, Welded Steel AST with secondary containment	200 bbl	Bulk Storage Area Main Facility
New Paint	1 & 5 gal	50 gal	Wash Bay
Paint Waste	Drums	50 gal	Wash Bay
Test Water	Single Wall, Welded Steel AST Tank on skid	500 bbl	Main Facility
Used Wash Water / Oil mixed	Concrete drainage container	156 bbl	Wash Bay
Tank Sludge	Drum	15 yd ³	Wash Bay
Steel	N/A	50 tons	Main Facility
General Refuse	Dumpster, Drums	6 yd ³	Main Facility
Shot Blast	50 lb. bags	200 lb.	Wash Bay
Safety-Kleen (Solvent/Degreaser)	Drum	10 gal	Main Facility Valve Shop
End Spat	Aerosol cans 16 ounce	1 cases	Main Facility
Used Equipment	Yard	3 acres of ground	Yard

7 Waste Streams Generated On Site

Waste Stream	Source	Composition	Estimated Volume
Spent Solvents	Parts cleaning main facility, valve shop	Safety-Kleen solvents (monoethanolamine, petroleum naphtha 150), inert solids, oil	1 gal/mo
Paint waste	Painting/cleanup	Paint, Xylene	1 gal/mo
Anti-Freeze (used)	Equipment brought in for repair	Ethylene glycol, water	5 gal/mo
Wash Water	Steam pad (steaming units prior to repair)	Water, crude oil, inert solids	850 gal/mo
Solids/sludge	Steam pad (cleaning units prior to repair)	Inert solids, paraffin	1 drums/mo
Shot Blast	Metal Grid Blasting Shot	Metal	1/4 yd ³ /mo
Metal Scrap	Manufacturing	Steel, brass, copper, aluminum	1/2 tons/mo
General Waste	Operations at Facility	Paper, cardboard, plastic, wood, tires	6 yd ³ /wk

8 Handling of Waste Streams Generated On Site

Waste Stream	On-Site Handling	Storage Location	Disposal
Paint waste	Stored in drums	Wash Bay	Recycled by Safety Kleen Corp. 4200 A Hawkins Rd. Farmington, NM 87401
Glycol (used)	Stored w/wash water	Wash Bay area	Removed by: Industrial Ecosystems Inc. Farmington, NM 87401
Test Water (fac tanks & storage tanks)	Stored in single-walled steel tank on skid	Main Facility	Re-used on-site
Waste Stream	On-Site Handling	Storage Location	Disposal
Spent Solvent	Parts cleaner	Main Facility Valve Shop	Recycled by Safety Kleen Corp. 4200 A Hawkins Rd. Farmington, NM 87401
Paint Waste	Stored in drums	Wash Bay area	Recycled by Safety Kleen Corp.
Anti-Freeze	Stored in drums	Wash Bay area	Recycled by Safety Kleen Corp.
Used Wash Water	Stored in concrete drainage container	Wash Bay area	Removed by: Industrial Ecosystems Inc. Farmington, NM 87401
Solids/sludge	Stored in 1 yd ³ steel containers	Wash Bay area	Land farmed by Industrial Ecosystems Inc.
Shot Blast	Stored in 3 yd ³ steel containers	Wash Bay area	Removed by: Waste Management of the Four Corners 101 Spruce Farmington, NM
Metal Scrap	Stored in specified bins	Main Facility	Recycled by: Western Metals Recycling 4221 West 700 South Salt Lake City, UT 84101
General Waste	Stored in specified steel dumpsters	All areas	Removed by: Waste Management of the Four Corners



PESCO La Plata Discharge Plan 2009

9 Modifications:

There are no proposed modifications for collection, treatment, or disposal system at PESCO's La Plata facility.

10 Inspection, Maintenance and Reporting

All material storage tanks are placed with impermeable berms, located on gravel pads or placed on elevated stands so that leaks can be visually detected.

Inspection of the concrete drainage container at the wash bay will be preformed every six months at a minimum. The inspection is to check for cracks or voids that would allow leakage into the soil.

A log of the inspections will be maintained on site, which contains the following information:

- Date of inspection
- Type of container and contents
- Location of container
- Results of inspection
- Corrective action required
- Date of corrective action

11 Spill Prevention and Reporting Procedures

As discussed in other areas of this discharge plan, steps are taken to minimize the chances of leaks or spills at the PESCO facility. The PESCO facility is manned 5 days a week, 11 hours per day. Any spills or leaks occurring when the facility is manned are dealt with immediately. If a spill occurs, the following steps are taken for containment, clean up and notification.

Spill Containment

The first step in spill containment is spill control, or stopping the source of the spill. This is done by any suitable means that does not endanger personnel. Containment measures may include

- Building earthen berms,
- Using absorbent materials,
- Transferring fluids from damaged containment into backup containers, - Backup containers are normally kept on hand at all times.

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Spill clean-up and disposition of spill material are carried out in accordance with current rules and regulations.

Notification

For significant leaks and spills, notification is in accordance with NM COD Rule 116 and WQCC section 1203

- Spill release quantities greater than 5 barrels and less than 25 barrels will be reported as minor releases.
- Spills in excess of 25 barrels and other releases as defined in NM OCD rule 116 B(1) will be reported as major releases.
- Any spill that is properly contained by secondary containment will not be considered reportable.

In accordance with Rule 116, verbal notification of reportable releases will be made within 24 hours of release discovery. Written notification on OCD form C-141 will be submitted within 15 days of release discovery to:

OCD Environmental Bureau Chief
120 South St. Francis Drive
Santa Fe, NM 87505

OCD District III
1000 Rio Brazos Road
Aztec, NM 87401

12 Site Characteristics

Bodies of Water

The facility is located approximately 3/4 mile west of the Cinder Gulch Arroyo.

Depth of Ground Water

According to well records obtained from the Bureau of Land Management, the depth to ground water near the facility is 2353 feet below ground surface. Attached are copies well records showing water depth.

PESCO has submitted a sample of the well water for analysis of Total Dissolved Solids (TDS). The analysis indicates that TDS for the well water on site is 1840 mg/L. A copy of the test result is on the follow page.

Flooding Potential

Flooding of the facility is unlikely. During flash flood events, the drainage across the property will be collected in the drainage ditch and run into the settlement pound.

Geological Information

The site is underlain by the Ojo Alamo Sandstone formation. This tertiary formation is the lowest tertiary rock unit in the San Juan Basin. The sandstone is a medium to very coarse grained, often pebbly, immature, lithic arkose. Pebbles occur as floating clasts, thin stringers, and in beds up to 10 ft. thick. The thickness of the Ojo Alamo ranges from 72 to 313 ft. Several aquifer tests conducted between Farmington and Cuba, NM give transmissivities between 50 and 250 ft²/day. Specific conductance of water in the Ojo Alamo increases from less than 1000 µmohms near sandstone outcrops to more than 9000 µmohms. The Ojo Alamo sandstone aquifer is a widely used source of domestic and stock water in a northwest trending strip.



envirotech
Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Pesco	Project #:	92141-0027
Sample ID:	1	Date Reported:	09-03-09
Laboratory Number:	51479	Date Sampled:	08-31-09
Chain of Custody:	7857	Date Received:	08-31-09
Sample Matrix:	Soil	Date Analyzed:	09-02-09
Preservative:	Cool	Date Extracted:	09-01-09
Condition:	Plastic Bottle	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	14.6	1.0
Ethylbenzene	7.2	1.0
p,m-Xylene	23.7	1.2
o-Xylene	19.3	0.9
Total BTEX	64.8	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: La Plata

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-02-BT QA/QC	Date Reported:	09-03-09
Laboratory Number:	51462	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-02-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	11-Cal RF	0-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range	0 - 15%		
Benzene	2.6813E+006	2.6867E+006	0.2%	ND	0.1
Toluene	2.5433E+006	2.5484E+006	0.2%	ND	0.1
Ethylbenzene	2.2694E+006	2.2740E+006	0.2%	ND	0.1
p,m-Xylene	5.9191E+006	5.9310E+006	0.2%	ND	0.1
o-Xylene	2.1835E+006	2.1879E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	7.0	6.9	1.4%	0 - 30%	0.9
Toluene	57.3	58.2	1.6%	0 - 30%	1.0
Ethylbenzene	92.1	88.9	3.5%	0 - 30%	1.0
p,m-Xylene	1,260	1,250	0.8%	0 - 30%	1.2
o-Xylene	288	281	2.3%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	7.0	50.0	56.5	99.1%	39 - 150
Toluene	57.3	50.0	102	95.2%	46 - 148
Ethylbenzene	92.1	50.0	140	98.5%	32 - 160
p,m-Xylene	1,260	100	1,360	100%	46 - 148
o-Xylene	288	50.0	330	97.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 51462, 51470 - 51472, 51476 - 51479, 51481, and 51483.

Analyst

Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Pesco	Project #:	92142-0027
Sample ID:	#2	Date Reported:	09-04-09
Chain of Custody:	7857	Date Sampled:	08-31-09
Laboratory Number:	51480	Date Received:	08-31-09
Sample Matrix:	Aqueous	Date Analyzed:	09-03-09
Preservative:	Cool	Analysis Requested:	BTEX
Condition:	Plastic Bottle		

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	3.5	1	0.2
Toluene	47.8	1	0.2
Ethylbenzene	3.1	1	0.2
p,m-Xylene	21.6	1	0.2
o-Xylene	11.1	1	0.1

Total BTEX 87.1

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	4-bromochlorobenzene	99.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: La Plata.

Analyst

Review



envirotech
Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT**

Client:	N/A	Project #:	N/A
Sample ID:	09-03-BT QA/QC	Date Reported:	09-04-09
Laboratory Number:	51480	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-03-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	HCAL RF	C-CAL RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	2.4089E+006	2.4161E+006	0.30%	ND	1.8
Toluene	2.2494E+006	2.2561E+006	0.30%	ND	1.7
Ethylbenzene	2.0093E+006	2.0153E+006	0.30%	ND	1.5
p,m-Xylene	5.2187E+006	5.2344E+006	0.30%	ND	2.2
o-Xylene	1.9433E+006	1.9492E+006	0.30%	ND	1.0

Duplicate Conc (ug/L)	Sample	Duplicate	%Diff	Accept Limit
Benzene	3.5	3.4	3.3%	0 - 30%
Toluene	47.8	46.3	3.0%	0 - 30%
Ethylbenzene	3.1	2.9	7.0%	0 - 30%
p,m-Xylene	21.6	20.3	6.1%	0 - 30%
o-Xylene	11.1	10.8	2.3%	0 - 30%

Spike Conc (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	3.5	50.0	51.9	97.0%	39 - 150
Toluene	47.8	50.0	91.4	93.5%	46 - 148
Ethylbenzene	3.1	50.0	51.1	96.2%	32 - 160
p,m-Xylene	21.6	100	103	85.0%	46 - 148
o-Xylene	11.1	50.0	57.8	94.6%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Sample 51480.

Analyst

Review



CATION / ANION ANALYSIS

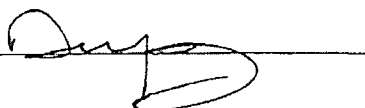
Client: Pesco
Sample ID: #2
Laboratory Number: 51480
Chain of Custody: 7857
Sample Matrix: Aqueous
Preservative: Cool
Condition: Intact

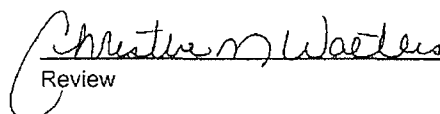
Project #: 92142-0027
Date Reported: 09-03-09
Date Sampled: 08-31-09
Date Received: 08-31-09
Date Extracted: N/A
Date Analyzed: 09-01-09

Parameter	Analytical Result	Units		
pH	7.23	s.u.		
Conductivity @ 25° C	3,230	umhos/cm		
Total Dissolved Solids @ 180C	1,860	mg/L		
Total Dissolved Solids (Calc)	1,840	mg/L		
SAR	18	ratio		
Total Alkalinity as CaCO3	114	mg/L		
Total Hardness as CaCO3	200	mg/L		
Bicarbonate as CaCO3	114	mg/L	1.87	meq/L
Carbonate as CaCO3	<0.1	mg/L	0.00	meq/L
Hydroxide as CaCO3	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.008	mg/L	0.00	meq/L
Nitrite Nitrogen	0.010	mg/L	0.00	meq/L
Chloride	900	mg/L	25.39	meq/L
Fluoride	0.850	mg/L	0.04	meq/L
Phosphate	2.70	mg/L	0.09	meq/L
Sulfate	158	mg/L	3.29	meq/L
Iron	0.060	mg/L	0.00	meq/L
Calcium	53.4	mg/L	2.66	meq/L
Magnesium	16.2	mg/L	1.33	meq/L
Potassium	64.6	mg/L	1.65	meq/L
Sodium	575	mg/L	25.01	meq/L
Cations			30.66	meq/L
Anions			30.68	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: La Plata.


Analyst


Review



CATION / ANION ANALYSIS

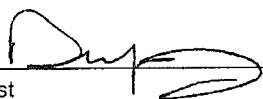
Client: Pesco
Sample ID: #1
Laboratory Number: 51479
Chain of Custody: 7857
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Intact

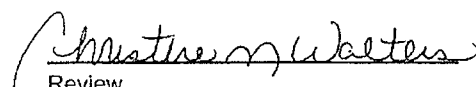
Project #: 92142-0027
Date Reported: 09-03-09
Date Sampled: 08-31-09
Date Received: 08-31-09
Date Extracted: 08-31-09
Date Analyzed: 09-01-09

Parameter	Analytical Result	Units		
pH	6.68	s.u.		
Conductivity @ 25° C	9,820	umhos/cm		
Total Dissolved Solids @ 180C	5,670	mg/L		
Total Dissolved Solids (Calc)	5,740	mg/L		
SAR	30.3	ratio		
Total Alkalinity as CaCO3	57.0	mg/L		
Total Hardness as CaCO3	69.7	mg/L		
Bicarbonate as HCO3	57.0	mg/L	0.93	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.064	mg/L	0.00	meq/L
Nitrite Nitrogen	0.064	mg/L	0.00	meq/L
Chloride	2,750	mg/L	77.58	meq/L
Fluoride	0.220	mg/L	0.01	meq/L
Phosphate	5.70	mg/L	0.18	meq/L
Sulfate	170	mg/L	3.54	meq/L
Iron	0.050	mg/L	0.00	meq/L
Calcium	25.8	mg/L	1.29	meq/L
Magnesium	1.27	mg/L	0.10	meq/L
Potassium	2,170	mg/L	55.51	meq/L
Sodium	582	mg/L	25.32	meq/L
Cations			82.22	meq/L
Anions			82.25	meq/L
Cation/Anion Difference			0.03%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: La Plata.


Analyst


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1DATE:

12/12/2008

001	Site ID (station number)	365812108100401	<i>Well number</i>
C003	Record classification	U	
C004	Source agency code	USGS	
C005	Project number	463542300	
C006	District code	35	
C007	State code	35	
C008	County code	045	
C009	Latitude	365812	
C010	Longitude	1081006	
C011	Lat/Long accuracy code	R	
C012	Local well number	32N.13W.23.4233	
C013	Land-net location	SWNESES23 T32N R13W	
C014	Name of location map	LA PLATA 004NW	
C015	Scale of location map	24000	
C016	Altitude of land surface	6002.	
C017	Method altitude determined	M	
C018	Altitude accuracy	5	
C019	Topographic setting	W	
C020	Hydrologic unit code	14080105	
C021	Date well constructed	19860323	
C022	Altitude Datum	NGVD29	
C023	Primary use of site	U	
C024	Primary use of water	U	
C027	Hole depth	7219.	
C028	Well depth	7218.	
C029	Source of depth data	L	
C032	SITE record ready for web flag	Y	
C035	Method Lat/Long Determined	M	
C036	Lat/Long Datum	NAD83	
C040	Date and time SITE record last updated (UTC)	20080226142725	
C041	Country code	US	
C061	User ID of person creating SITE record	nwis	
C062	User ID of person updating SITE record	rwbell	
C303	Date and time SITE record created (UTC)	19870922000000	
C712	Data availability in other Ground Water files	YYYYNNNNNNNNNNNNNNNNNN	
C713	Aquifer-type code	C	
C714	Aquifer code	221WSRC	
C802	Site type code	GW	
C803	Agency use of site code	O	
C804	Flags-type of data collected (30)	NNNNNNNNNNNNNNNNNNNNNNNN	
C805	Flags-instruments at site	NNNNNNNNNNNNNNNNNNNNNNNN	
C813	Standard time zone code	MST	
C814	Daylight savings time flag	Y	
C900	Station name	32N.13W.23.4233	
C909	Latitude NAD83 in decimal degrees	36.97000000	
C910	Longitude NAD83 in decimal degrees	-108.16833333	
C060	Date of construction	19860323	

C063	Name of contractor	ARAPAHOE	
C064	Source of construction data	O	
C065	Method of construction	H	
C066	Type of finish	P	
C067	Type of surface seal	G	
C068	Depth to bottom of seal	6906	
C069	Method of development	Z	
C070	Hours of development	122	
C403	User ID of person creating CONS record	nwis	
C404	Date and time CONS record created (UTC)	19981127000000	
C405	User ID of person updating CONS record	nwis	
1DATE:			12/12/2008

C723	Sequence number of CONS record	001	
C754	Record type in CONS file	CONS	
C755	Date and time CONS record last updated (UTC)	19870922000000	
C850	CONS record ready for web flag	Y	
C059	Sequence number of parent CONS record	001	
C073	Depth to top of this interval	0.	
C074	Depth to bottom of this interval	329.	
C075	Diameter of this interval	17.50	
C406	User ID of person creating HOLE record	nwis	
C407	Date and time HOLE record created (UTC)	19981127000000	
C408	User ID of person updating HOLE record	nwis	
C724	Sequence number of HOLE record	001	
C756	Record type in CONS file	HOLE	
C757	Date and time HOLE record last updated (UTC)	19870922000000	
C851	HOLE record ready for web flag	Y	
C059	Sequence number of parent CONS record	001	
C073	Depth to top of this interval	329	
C074	Depth to bottom of this interval	7219.	
C075	Diameter of this interval	8.75	
C406	User ID of person creating HOLE record	nwis	
C407	Date and time HOLE record created (UTC)	19981127000000	
C408	User ID of person updating HOLE record	nwis	
C724	Sequence number of HOLE record	002	
C756	Record type in CONS file	HOLE	
C757	Date and time HOLE record last updated (UTC)	19870922000000	
C851	HOLE record ready for web flag	Y	
C077	Depth to top of this casing string	0.	
C078	Depth to bottom of this casing string	329.	
C079	Diameter of this casing string	13.37	
C080	Casing material	S	
C409	User ID of person creating CSNG record	nwis	
C410	Date and time CSNG record created (UTC)	19981127000000	
C411	User ID of person updating CSNG record	nwis	
C725	Sequence number of CSNG record	001	
C758	Record type in CONS file	CSNG	
C759	Date and time CSNG record last updated (UTC)	19870922000000	

C852	CSNG record ready for web flag	Y	
C901	Sequence number of parent CONS record		001
C077	Depth to top of this casing string	0.	
C078	Depth to bottom of this casing string	6906.	
C079	Diameter of this casing string	7.00	
C080	Casing material	S	
C409	User ID of person creating CSNG record	nwis	
C410	Date and time CSNG record created (UTC)		19981127000000
C411	User ID of person updating CSNG record	nwis	
C725	Sequence number of CSNG record		002
C758	Record type in CONS file	CSNG	
C759	Date and time CSNG record last updated (UTC)		19870922000000
C852	CSNG record ready for web flag	Y	
C901	Sequence number of parent CONS record		001
C077	Depth to top of this casing string	6682.	
C078	Depth to bottom of this casing string	7218.	
C079	Diameter of this casing string	4.50	
C080	Casing material	S	
C409	User ID of person creating CSNG record	nwis	
C410	Date and time CSNG record created (UTC)		19981127000000
C411	User ID of person updating CSNG record	nwis	
C725	Sequence number of CSNG record		003

IDATE:

12/12/2008

C758	Record type in CONS file	CSNG	
C759	Date and time CSNG record last updated (UTC)		19870922000000
C852	CSNG record ready for web flag	Y	
C901	Sequence number of parent CONS record		001
C083	Depth to top of this open interval	7008.	
C084	Depth to bottom of this open interval	7204.	
C085	Type of openings in this interval	P	
C086	Material in this interval	S	
C087	Diameter of this open interval	4.50	
C412	User ID of person creating OPEN record	nwis	
C413	Date and time OPEN record created (UTC)		19981127000000
C414	User ID of person updating OPEN record	nwis	
C726	Sequence number of OPEN record		001
C760	Record type in CONS file	OPEN	
C761	Date and time OPEN record last updated (UTC)		19870922000000
C853	OPEN record ready for web flag	Y	
C902	Sequence number of parent CONS record		001
C190	Other identifier	DEEP WW NO 1	
C191	Assignor of other identifier	OWNER	
C436	User ID of person creating OTID record	nwis	
C437	Date and time OTID record created (UTC)		19981127000000
C438	User ID of person updating OTID record	nwis	
C736	Sequence number of OTID record		001
C770	Record type in MISC file	OTID	
C771	Date and time OTID record last updated (UTC)		19870922000000

C861	OTID record ready for web flag	Y
C181	Other data type	DEVIATION
C182	Other data location	D
C261	Format of other data	F
C312	Sequence number of OTDT record	001
C439	User ID of person creating OTDT record	nwis
C440	Date and time OTDT record created (UTC)	19981127000000
C441	User ID of person updating OTDT record	nwis
C772	Record type in MISC file	OTDT
C773	Date and time OTDT record last updated (UTC)	19870922000000
C862	OTDT record ready for web flag	Y
C181	Other data type	DST
C182	Other data location	D
C261	Format of other data	F
C312	Sequence number of OTDT record	002
C439	User ID of person creating OTDT record	nwis
C440	Date and time OTDT record created (UTC)	19981127000000
C441	User ID of person updating OTDT record	nwis
C772	Record type in MISC file	OTDT
C773	Date and time OTDT record last updated (UTC)	19870922000000
C862	OTDT record ready for web flag	Y
C199	Type of log	DG
C200	Depth to top of logged interval	2350.
C201	Depth to bottom of logged interval	7219.
C202	Source of log data	L
C448	User ID of person creating LOGS record	nwis
C449	Date and time LOGS record created (UTC)	19981127000000
C450	User ID of person updating LOGS record	nwis
C739	Sequence number of LOGS record	001
C778	Record type in MISC file	LOGS
C779	Date and time LOGS record last updated (UTC)	19870922000000
C865	LOGS record ready for web flag	Y
C199	Type of log	EE
1DATE:		12/12/2008

C200	Depth to top of logged interval	328.
C201	Depth to bottom of logged interval	6888.
C202	Source of log data	L
C448	User ID of person creating LOGS record	nwis
C449	Date and time LOGS record created (UTC)	19981127000000
C450	User ID of person updating LOGS record	nwis
C739	Sequence number of LOGS record	002
C778	Record type in MISC file	LOGS
C779	Date and time LOGS record last updated (UTC)	19870922000000
C865	LOGS record ready for web flag	Y
C199	Type of log	NG
C200	Depth to top of logged interval	6906.
C201	Depth to bottom of logged interval	7219.
C202	Source of log data	L

C448	User ID of person creating LOGS record	nwis
C449	Date and time LOGS record created (UTC)	19981127000000
C450	User ID of person updating LOGS record	nwis
C739	Sequence number of LOGS record	003
C778	Record type in MISC file	LOGS
C779	Date and time LOGS record last updated (UTC)	19870922000000
C865	LOGS record ready for web flag	Y
C199	Type of log	CP
C200	Depth to top of logged interval	6906.
C201	Depth to bottom of logged interval	7219.
C202	Source of log data	L
C448	User ID of person creating LOGS record	nwis
C449	Date and time LOGS record created (UTC)	19981127000000
C450	User ID of person updating LOGS record	nwis
C739	Sequence number of LOGS record	004
C778	Record type in MISC file	LOGS
C779	Date and time LOGS record last updated (UTC)	19870922000000
C865	LOGS record ready for web flag	Y
C184	Remark-date	19860314
C185	Remark	WATER LEVEL AFTER 92.
C311	Sequence number of RMKS record	001
C463	User ID of person creating RMKS record	nwis
C464	Date and time RMKS record created (UTC)	19981127000000
C465	User ID of person updating RMKS record	nwis
C788	Record type in MISC file	RMKS
C789	Date and time RMKS record last updated (UTC)	19870922000000
C870	RMKS record ready for web flag	Y
C184	Remark-date	19860314
C185	Remark	TANDEM PRESSURE RECOR
C311	Sequence number of RMKS record	002
C463	User ID of person creating RMKS record	nwis
C464	Date and time RMKS record created (UTC)	19981127000000
C465	User ID of person updating RMKS record	nwis
C788	Record type in MISC file	RMKS
C789	Date and time RMKS record last updated (UTC)	19870922000000
C870	RMKS record ready for web flag	Y
C147	Record sequence number	1
C148	Date discharge measured	19860323
C150	Discharge	16.26
C151	Source of discharge data	O
C152	Method discharge measured	R
C153	Production-level	4600.7 drawdown = 2353
C155	Source of water-level data	O

1DATE:

12/12/2008

C156	Method water-level measured	R
C157	Duration of discharge before producing level	6.5
C272	Specific capacity	.01

C309	Water-level drawdown	2353	
C430	User ID of person creating DISC record	nwis	
C431	Date and time DISC record created (UTC)	19981127000000	
C432	User ID of person updating DISC record	nwis	
C702	Date and time DISC record last updated (UTC)	19930429000000	
C703	Discharge type	P	
C859	DISC record ready for web flag	Y	
C091	Depth to top of interval	0.	
C092	Depth to bottom of interval	1098.	
C093	Aquifer code	211KRLD	
C096	Lithology code	SDSL	Sandstone & Shale
C304	Contributing unit	N	
C466	User ID of person creating GEOH record	nwis	
C467	Date and time GEOH record created (UTC)	19981127000000	
C468	User ID of person updating GEOH record	nwis	
C721	Sequence number of GEOH record	001	
C748	Record type in GEOH file	GEOH	
C749	Date and time GEOH record last updated (UTC)	19870922000000	
C871	GEOH record ready for web flag	Y	
C091	Depth to top of interval	1098.	
C092	Depth to bottom of interval	1360.	
C093	Aquifer code	211FRLD	
C096	Lithology code	SDSL	Sandstone & Shale
C097	Description of material	COALY	
C304	Contributing unit	N	
C466	User ID of person creating GEOH record	nwis	
C467	Date and time GEOH record created (UTC)	19981127000000	
C468	User ID of person updating GEOH record	nwis	
C721	Sequence number of GEOH record	002	
C748	Record type in GEOH file	GEOH	
C749	Date and time GEOH record last updated (UTC)	19870922000000	
C871	GEOH record ready for web flag	Y	
C091	Depth to top of interval	1360.	
C092	Depth to bottom of interval	1690.	
C093	Aquifer code	211PCCF	
C096	Lithology code	SDSL	Sandstone & Shale
C304	Contributing unit	N	
C466	User ID of person creating GEOH record	nwis	
C467	Date and time GEOH record created (UTC)	19981127000000	
C468	User ID of person updating GEOH record	nwis	
C721	Sequence number of GEOH record	003	
C748	Record type in GEOH file	GEOH	
C749	Date and time GEOH record last updated (UTC)	19870922000000	
C871	GEOH record ready for web flag	Y	
C091	Depth to top of interval	1690.	
C092	Depth to bottom of interval	3110.	
C093	Aquifer code	211LWIS	
C096	Lithology code	SHLE	Shale
C304	Contributing unit	N	

C466 User ID of person creating GEOH record nwis
 C467 Date and time GEOH record created (UTC) 19981127000000
 C468 User ID of person updating GEOH record nwis
 C721 Sequence number of GEOH record 004
 C748 Record type in GEOH file GEOH
 C749 Date and time GEOH record last updated (UTC) 19870922000000
 1DATE: 12/12/2008

C871 GEOH record ready for web flag Y
 C091 Depth to top of interval 3110.
 C092 Depth to bottom of interval 3406.
 C093 Aquifer code 211CLFH
 C096 Lithology code SNDS *Sandstone*
 C304 Contributing unit N
 C466 User ID of person creating GEOH record nwis
 C467 Date and time GEOH record created (UTC) 19981127000000
 C468 User ID of person updating GEOH record nwis
 C721 Sequence number of GEOH record 005
 C748 Record type in GEOH file GEOH
 C749 Date and time GEOH record last updated (UTC) 19870922000000

C871 GEOH record ready for web flag Y
 C091 Depth to top of interval 3406.
 C092 Depth to bottom of interval 3870.
 C093 Aquifer code 211MENF
 C096 Lithology code SDSL *Sandstone & shale*
 C097 Description of material COALY
 C304 Contributing unit N

C466 User ID of person creating GEOH record nwis
 C467 Date and time GEOH record created (UTC) 19981127000000
 C468 User ID of person updating GEOH record nwis
 C721 Sequence number of GEOH record 006
 C748 Record type in GEOH file GEOH
 C749 Date and time GEOH record last updated (UTC) 19870922000000

C871 GEOH record ready for web flag Y
 C091 Depth to top of interval 3870.
 C092 Depth to bottom of interval 4290.
 C093 Aquifer code 211PNLK
 C096 Lithology code SNDS *Sandstone*
 C304 Contributing unit N

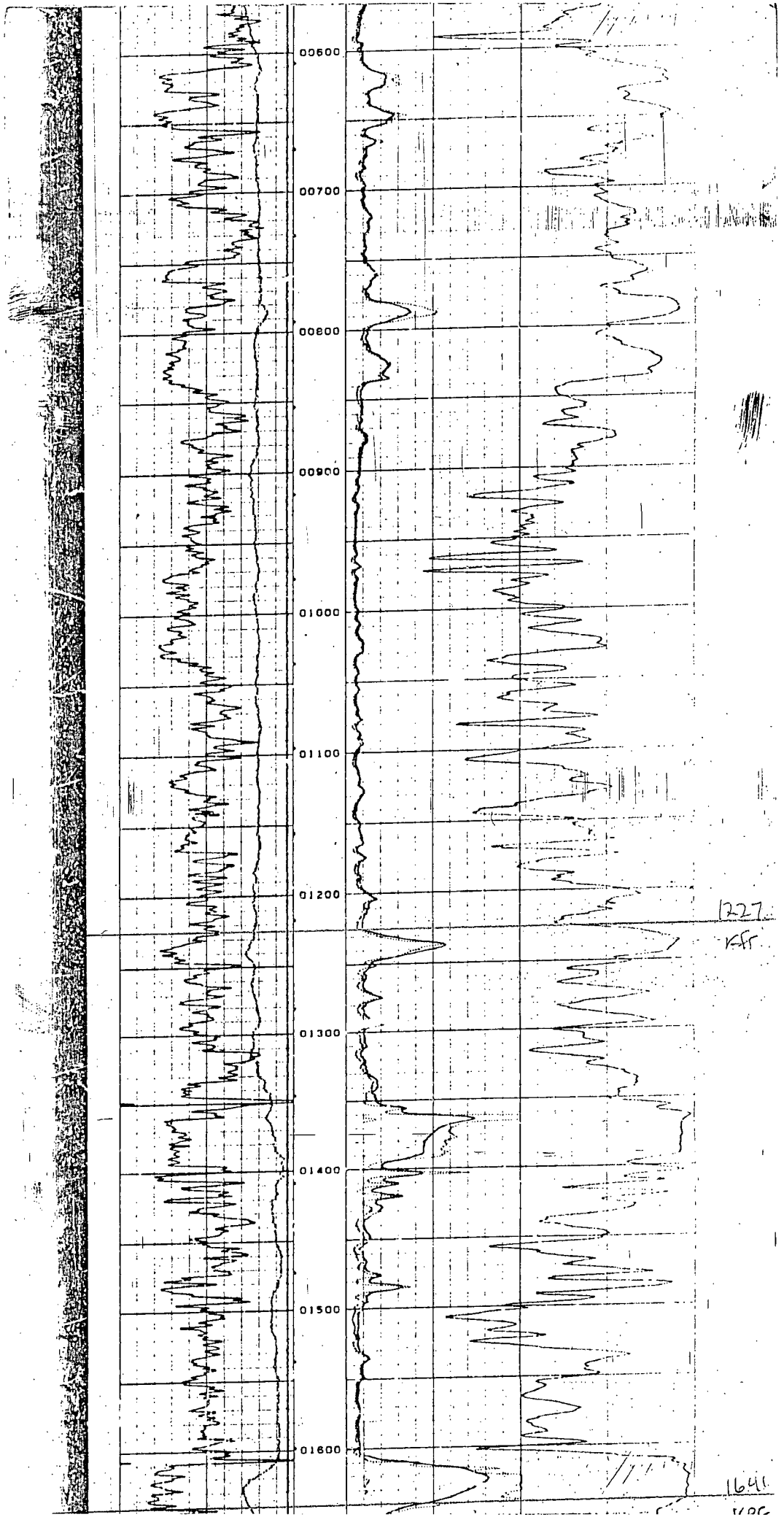
C466 User ID of person creating GEOH record nwis
 C467 Date and time GEOH record created (UTC) 19981127000000
 C468 User ID of person updating GEOH record nwis
 C721 Sequence number of GEOH record 007
 C748 Record type in GEOH file GEOH
 C749 Date and time GEOH record last updated (UTC) 19870922000000

C871 GEOH record ready for web flag Y
 C091 Depth to top of interval 4290.
 C092 Depth to bottom of interval 6124.
 C093 Aquifer code 210MNCS

C096	Lithology code	SHLE	<i>Shale</i>
C097	Description of material	SILTY, LIMY	
C304	Contributing unit	N	
C466	User ID of person creating GEOH record	nwis	
C467	Date and time GEOH record created (UTC)	19981127000000	
C468	User ID of person updating GEOH record	nwis	
C721	Sequence number of GEOH record	008	
C748	Record type in GEOH file	GEOH	
C749	Date and time GEOH record last updated (UTC)	19870922000000	
C871	GEOH record ready for web flag	Y	
C091	Depth to top of interval	6124.	
C092	Depth to bottom of interval	6380.	
C093	Aquifer code	211DKOT	
C096	Lithology code	SNDS	<i>Sandstone</i>
C304	Contributing unit	N	
C466	User ID of person creating GEOH record	nwis	
C467	Date and time GEOH record created (UTC)	19981127000000	
1DATE:			12/12/2008

C468	User ID of person updating GEOH record	nwis	
C721	Sequence number of GEOH record	009	
C748	Record type in GEOH file	GEOH	
C749	Date and time GEOH record last updated (UTC)	19870922000000	
C871	GEOH record ready for web flag	Y	
C091	Depth to top of interval	6380.	
C093	Aquifer code	221MRSN	
C096	Lithology code	SDSL	<i>Sandstone & Shale</i>
C304	Contributing unit	N	
C466	User ID of person creating GEOH record	nwis	
C467	Date and time GEOH record created (UTC)	19981127000000	
C468	User ID of person updating GEOH record	nwis	
C721	Sequence number of GEOH record	010	
C748	Record type in GEOH file	GEOH	
C749	Date and time GEOH record last updated (UTC)	19870922000000	
C871	GEOH record ready for web flag	Y	
C091	Depth to top of interval	6900.	
C093	Aquifer code	221WSRC	
C096	Lithology code	SNDS	<i>Sandstone</i>
C304	Contributing unit	P	
C466	User ID of person creating GEOH record	nwis	
C467	Date and time GEOH record created (UTC)	19981127000000	
C468	User ID of person updating GEOH record	nwis	
C721	Sequence number of GEOH record	011	
C748	Record type in GEOH file	GEOH	
C749	Date and time GEOH record last updated (UTC)	19870922000000	
C871	GEOH record ready for web flag	Y	
C235	Water-level measurement date	19860314	
C236	Date accuracy code	D	
C237	Water-level below LSD	986.	

C239	Water-level method	G
C243	Water-level type code	L
C244	Source of water-level	L
C276	Accuracy code	0
C427	User ID of person creating LEV record	nwis
C428	Date and time LEV record created (UTC)	19981127000000
C429	User ID of person updating LEV record	nwis
C710	Date and time LEV record last updated (UTC)	00000000000000
C858	LEV record ready for web flag	Y



00600

00700

00800

00900

01000

01100

01200

01300

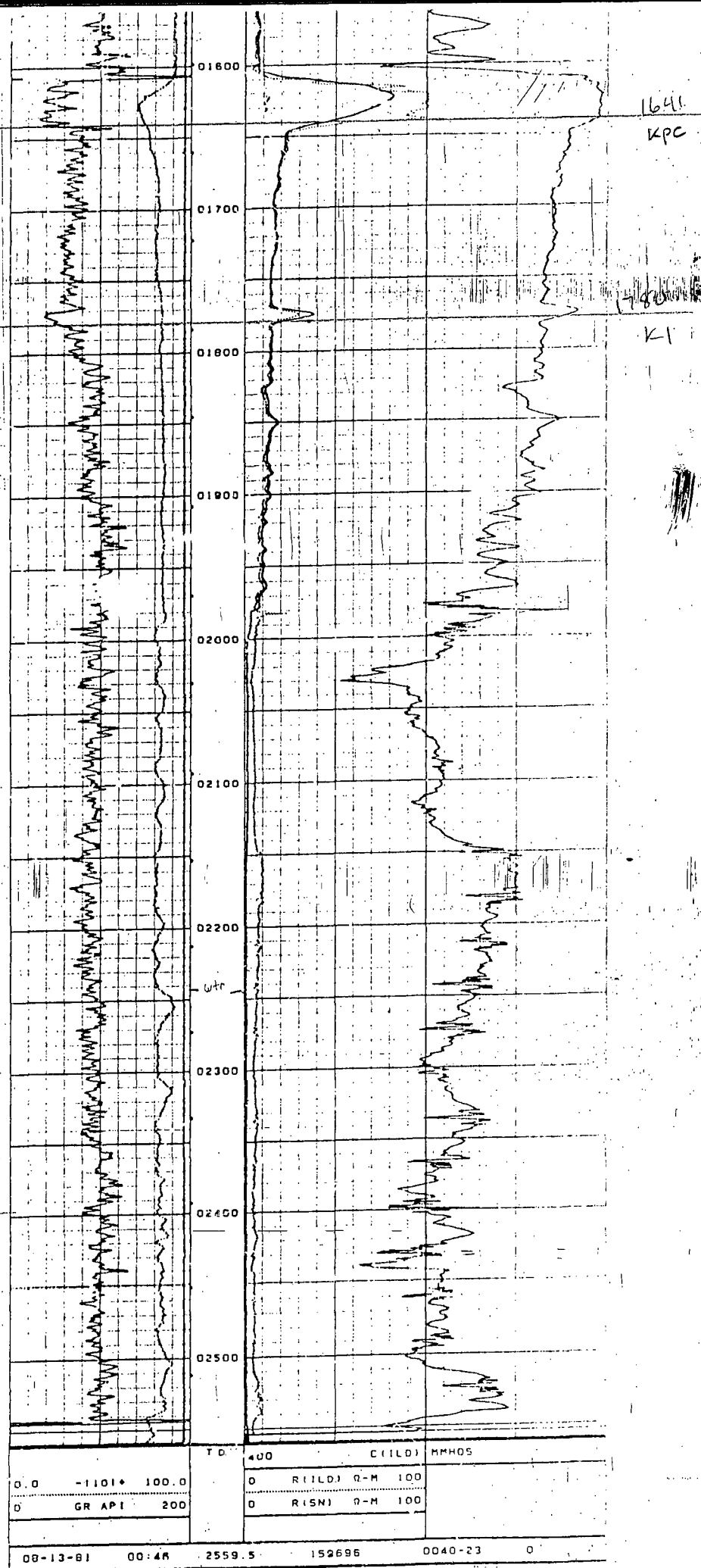
01400

01500

01600

1227
KFR

1641
1100



UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.6.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESV. ☐ Other Abandon

2. NAME OF OPERATOR

Supron Energy Corporation - c/o John H. Hill, et al

3. ADDRESS OF OPERATOR

17400 Dallas Parkway, Suite 210, Dallas, Texas 75252

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 930' FSL; 830' FEL (SE/SE) ☒

At top prod. interval reported below

At total depth

14. PERMIT NO. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

5. LEASE DESIGNATION AND SERIAL NO.

SF-078818A ☒

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

U.S.A. ☒

9. WELL NO.

3 ☒

10. FIELD AND POOL, OR WILDCAT

Pictured Cliffs ☒

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 23, T32N, R13W ☒

12. COUNTY OR PARISH

San Juan

13. STATE

N.M.

15. DATE SPOOLED

4/8/81 ☒

16. DATE T.D. REACHED

8/15/81 ☒

17. DATE COMPL. (Ready to prod.)

P/A (9/1/81)

18. ELEVATIONS (DF, RKB, BT, GR, ETC.)*

5986' GR ☒

19. ELEV. CASINGHEAD

5988' GR

20. TOTAL DEPTH, MD & TVD

7175' GR ☒

21. PLUG, BACK T.D., MD & TVD

Surface ☒

22. IF MULTIPLE COMPL., HOW MANY*

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

7175' GR ☒

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

25. WAS DIRECTIONAL SURVEY MADE

Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN

Gamma Ray, Correlation, CCL

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8" ☒	24# ☒	824' GR 320.68	12-1/4" ☒	240 sx. Class B, 3% CCL	
4-1/2" ☒	10.5# ☒	1904.96' GR 1918%	7-7/8" ☒	1/4# 410-Cele/sx. ☒ 1200 sx. 50/50 Poz, 6% Ge 1/2 cu.ft. Perlite/sk, 2% CCL	

29. LINER RECORD

125 SX.

Class B, 2% CCL

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

 1670, 72, 74, 76, 82, 84, 86, 92, 94, 96
 98, 1700, 02, 04, 10, 12, and 14
 Total 17 shots w/.34" Tolson Casing Gun

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1670-1714	2000 gal. 15% HCL acid, 2% KCL water 13,566 gals. 75% Quality Foam 50,000# 10/20 sand 393,569 SCF Nitrogen

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
		P/A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

TITLE Production Engineer

DATE 4-21-82

*(See Instructions and Spaces for Additional Data on Reverse Side)

NMOCE

FARMINGTON COPY

BY

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 33.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROSITY ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORE INTERVALS; AND ALL FIFTY-FOOT TESTS, INCLUDING DEPTH INTERVAL, TESTED, CUSHION TEST, TIME TOOL, OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECORDS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	MEAS. DEPTH	TRUE VERT. DEPTH
Kirtland	400		Sand, Shale				
Fruitland	1620		Sand, Shale				
Pictured Cliffs	2120		Sand, Shale				
Mesa Verde	3815		Gas				
Gallup	4855		Shale, Sand				
Graneros	6752		Shale, Sand				
Dakota	6810		Gas				

38. GEOLOGIC MARKERS

NAME	TOP	MEAS. DEPTH	TRUE VERT. DEPTH

13 Other Compliance Information

Facility Closure Plan – Information

PESCO will take all reasonable and necessary measures to prevent exceeding New Mexico water quality standards (20.6.2.3.3103 NMAC), should a decision be made to permanently close the facility. Closure methods will include the following:

- The facility will be cleaned; all debris, trash, etc. will be removed.
- All solids and liquids will be removed and disposed of in an appropriate manner. Tanks will be emptied. No potentially toxic materials or effluents will remain on site.
- All containment not associated with permanent structures will be removed. Closure methods will include removal or closure in place of any underground piping or equipment that cannot be feasibly removed.
- Any obvious spills and/or contamination will be remedied in accordance with applicable environmental standards. All potential sources of toxic pollutant will be inspected. If contaminated soil is discovered, all necessary reporting under NMOCD Rule 116 and 20.6.23.1203 NMAC will be made and clean-up activities will commence.
- The empty facility will be brought into compliance with appropriate environmental standards.



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Governor
Joanna Prukop
Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



July 10, 2009

Mr. Rod Troxell
P.O. Box 929
Farmington, New Mexico 87499

Re: Discharge Plan Submittal Request (Designated **GW-398**)
La Plata Pesco Facility
NE/4 SE/4 of Section 23, Township 32 North, Range 13 West
La Plata, New Mexico, San Juan County

Dear Mr. Troxell:

The Environmental Bureau of the New Mexico Oil Conservation Division (NMOCD) performed an inspection of the above stated facility on June 8, 2009. The inspection concluded several areas of concern: (1) the large single wall pond located on the west side of the wash out bay and (2) tank bottom waste. The inspection photos are attached to this letter. The OCD has concluded that this facility is warranted for a WQCC discharge plan permit and is requesting that Pesco submit a discharge plan application for their oil and gas Service Company. The OCD identified a discharge plan number for this facility as **GW-398**; please annotate this in all documentation pertaining to this facilities discharge plan application.

The Discharge Plan Application for Service Companies, Gas Plants, Refineries, Compressor, Geothermal Facilities and Crude Oil Pump stations and Guidelines can be found on our website <http://www.emnrd.state.nm.us/ocd/EH-DischargePlanGuidelines.htm>, These have been attached to this letter for your convenience.

Processing a new discharge plan application requires the applicant to provide public notice. I have attached the WQCC rules and regulations to provide direction for this task. The notice procedures are done within stages of this entire process I have attached a flow chart of this process for clarification, please review. At that time OCD will ask to review your public notice prior to publishing.

The OCD Environmental Bureau is obligated by the New Mexico Water Quality Control Commission to protect the ground waters of the state of New Mexico. The OCD performs this task via a Discharge Plan Permit. Please submit the discharge plan application to the OCD office by **September 14, 2009**. Along with your application a \$100.00 filing fee shall be submitted and payable to the New Mexico Water Quality Management Fund.

If you have any questions pertaining to this process please call me at (505) 476-3492 or e-mail me at leonard.lowe@state.nm.us.



August 11, 2009
Page 2

Sincerely,

A handwritten signature in cursive script, appearing to read 'Leonard Lowe', written in black ink.

Leonard Lowe
Environmental Engineer

xc: Brandon Powell, Environmental Specialist OCD Aztec District Office

OCD Inspection: GW-398 Pesco La Plata site

Inspector(s): Leonard Lowe

Company Rep: Galand Griggs and Mike Corley

Time: 14:19 – 15:05

Date: 06.08.09

Page 1



Photo 1: Large pond from wash.



Photo 2: pond of wash water.

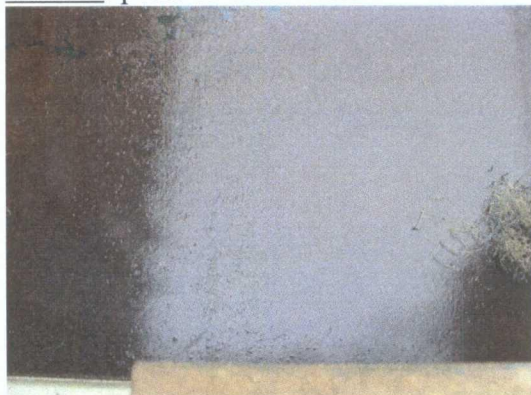


Photo 3: Close up of wash water.



Photo 4: Tank bottoms.



Photo 5: Tank bottom waste.