GW Site

trict I
. Box 1980, Hobbs, NM

trict II
. Drawer DD, Artesia, NM 88221

trict III
0 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE
1 COPY TO SANTA FE OFFICE

RECEIVED
NOV - 1 1999
OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Amoco) **Telephone:** 324-3764

Address: 603 W. Elm Street Farmington, NM 87401

Facility or Well Name: Jacques #2A

Location: Unit D Sec 25 T 30 N R 9 W County San Juan

Pit Type: Separator ☐ Dehydrator ☑ Other

Land Type: BLM ☑ State ☐ Fee ☐ Other

Pit Location: Pit dimensions: length 20 ' width 20 ' depth 4 '

(Attach diagram) Reference: wellhead ☑ other

Footage from reference: 76'

Direction from reference: Due Degrees ☐ East North ☑ of ☐ West South ☐

Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	10
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)	Yes No	(20 points) (0 points)	0
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet	(20 points) (10 points) (0 points)	0
RANKING SCORE (TOTAL POINTS) :			10

Jacques #2A

Date Remediation Started: 10/06/1994 **Date Completed:** 11/16/1994

Remediation Method: (Check all appropriate sections)

Excavation X — Approx. Cubic Yard 767

Landfarmed X — Amount Landfarmed (cubic yds) 700

Other 67 cu yds clean overburden

Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)

Onsite X Offsite

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to pit size of 30' X 30' X 23' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

Secondary source removal conducted on 12/10/97; approximately 3500 cu yds of contaminated soil removed.

Ground Water Encountered: No ☐ Yes ☑ Depth 32'

Final Pit Closure Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample Location: Center of pit bottom

Sample depth: 23'

Sample date: 11/15/1994 Sample time: 1:30:00 PM

Sample Results

Benzene (ppm) < 0.2

Total BTEX (ppm) 61.81

Field headspace (ppm)

TPH (ppm) 526.00 Method 418.1

Vertical Extent (ft) Risk Analysis form attached Yes ☐ No ☐

Ground Water Sample: Yes ☑ No ☐ (If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

DATE **October 28, 1999**

SIGNATURE Maureen Gannon

PRINTED NAME AND TITLE **Maureen Gannon, Project Manager**

PNMGS Well Site: **Jacques 2A**

Groundwater Site Summary Report

Copies: WFS(1)
Operator (1)
NMOCD District Office (1)
NMOCD Santa Fe (1)

Quarter/Year: 4th/98, 1st/99, 2nd/99 & 3rd/99

Operator: Amoco
Sec: 25 **Twn:** 30N **Rng:** 9W **Unit:** D
Canyon: Pump

Vulnerable Class: Original
OCD Ranking: 20
Lead Agency: NMOCD

Topo Map: Figure 1
Site Map with Analysis: Figure 2
Groundwater Contour Map: Figures 3a (April, 1998), 3b (July, 1998), 3c (October, 1998) and 3d (January, 1999)
Groundwater Hydrograph Figure 4
Full-Suite Groundwater Sampling Results: previously submitted
Analytical Results: See 1999 Annual Groundwater Report. Results for temporary monitor well, TMW-1, are attached.
Well Completion Log/Diagram: TMW-1 only

Site Hydrology:

The Jacques 2A is located about one mile north of the San Juan River in a side drainage off Pump Canyon. An unnamed drainage runs from west to east, and the Jacques 2A site lies only about 100 feet from this drainage, which intersects Pump Canyon wash about 900 feet to the east. The site's elevation is about 5680 ft. amsl, and elevations drop eastward towards the valley floor of Pump Canyon along which elevations drop southward towards the San Juan River. The site receives roughly 8 to 10 inches of rainfall each year (based on data from Stone et al., 1983).

Pump Canyon is a major drainage, and covers a broad area. Alluvium on its valley floor spans more than 1,000 feet in width, and is probably from 50 to 100 feet thick (Stone et al., 1983). The northwestern-most well (MW-1; see Figure 2) reportedly encountered a "hard sandstone" at 42 feet, while deeper wells (MW-2 at 46.5 ft.) did not show any bedrock materials. Therefore, the general configuration of the bedrock-alluvium interface probably conforms to the surface topography (elevated in the northwest, and depressed towards the southeast).

Subsurface materials at the Jacques 2A site are described as clayey, silty sands. Well MW-2 reportedly encountered mostly clay and silt, with very little sand. Well MW-2 has been reinstalled after an additional source removal activity in December 1997, and now draws water from excavated and reworked material.

The depth to water ranges from 27 to 33 feet in monitor wells at the site. Maps showing the elevation of the water table over the last year appear in Figures 3a through 3d. In Figures 3b, 3c and 3d, the flow directions are towards the southeast, which agrees with the surface topography. Figure 3a, however, shows an anomalous mounding pattern centered on well MW-2. Figure 3a is based on the first set of water level data collected after site re-excavation and therefore is most likely unrepresentative of site conditions, but instead reflects the undeveloped state of well MW-2, collection of rainwater in the disturbed excavation materials, or other factors not related to the true groundwater surface.

Figure 4 shows water levels in the monitor wells over time. After irregularities in the earlier history of the site, water levels in the wells tend to track each other. The anomalously high water level in the newly installed MW-2 is clearly visible in Figure 4 (April, 1998 measurement). For the last three quarters, water levels in all four wells have shown consistent relationships, indicating a relatively constant flow direction, as is also reflected in the water table maps (Figures 3b through 3d).

Public Service Company of New Mexico - Gas Services
Environmental Services Division - Alvarado Square, MS-0408
Albuquerque, NM 87158

Contact: Maureen Gannon **Telephone: 505-241-2974**

1999. Water level measurements were taken in the four monitoring wells. In the January, 1999 sampling event, PNM conducted groundwater sampling in each well for chemical analyses of benzene, toluene, ethylbenzene, and xylenes (BTEX). All sampling was performed in strict compliance with EPA protocol. PNM delivered the samples to OnSite Technologies, Farmington, New Mexico. The samples were analyzed for BTEX using EPA Method 8021B.

The site was resurveyed in February, 1999 to more accurately measure the wellhead elevation in the re-installed MW-2. The new information was used to prepare the figures attached to this report.

On July 27, 1999, PNM installed a temporary monitor well southwest of our former pit. This well was installed as requested to alleviate any concerns regarding potential impacts to the southwest of PNM's former dehydrator pit. Figure 2 shows the exact location of this well. On August 5, 1999, this well was sampled and analyzed for BTEX by method 8021B and for polyaromatic hydrocarbons (PAHs) by method 8310.

Results:

Figure 2 presents a site map showing BTEX for each monitoring well since groundwater contamination was discovered. BTEX concentrations in the source well, MW-2, had been quite high since installation early in 1997; therefore, secondary source removal (about 5000 cubic yards) was conducted in December, 1997. After this additional work, concentrations rapidly fell below standards and have remained so for the last four quarters. No other samples from monitor wells, MW-1, -3 or -4, have contained BTEX constituents. Both BTEX and PAH concentrations in temporary monitor well, TMW-1, were below detection levels.

Future Actions:

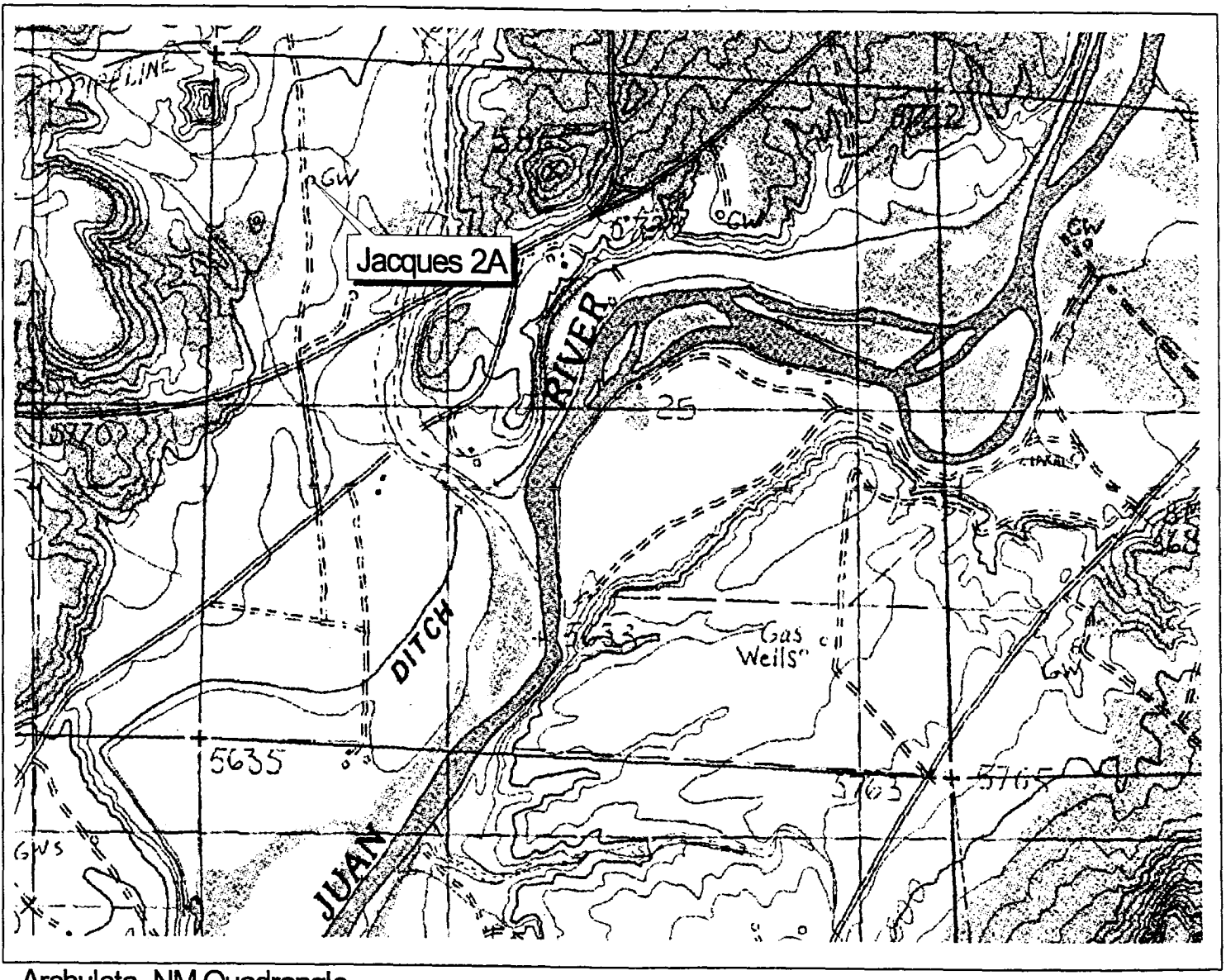
Consistent with PNM's San Juan Basin Groundwater Management Plan, PNM requests closure of the Jacques 2A. This request is based upon the analytical data collected over the last two years at the site. The secondary excavation of additional source materials was successful in achieving clean-up at the Jacques 2A; the BTEX concentrations in MW-2 have been below standards for four consecutive quarters. Resampling of all monitor wells including the new temporary well, TMW-1, have shown BTEX compounds to be below detection limits.

Upon approval of the groundwater closure report, PNM will plug and abandon the four groundwater monitoring wells at the site. The concrete pad and metal vault surrounding each well will be removed. The well casing will be cut to ground surface and each well will be plugged o the surface with cement containing 5% bentonite.

Public Service Company of New Mexico - Gas Services
Environmental Services Division - Alvarado Square, MS-0408
Albuquerque, NM 87158

Contact: Maureen Gannon **Telephone: 505-241-2974**

Figure 1.
Jacques 2A Groundwater Site
Twn. 30N Rng. 9W Sec. 25 Unit D



Archuleta, NM Quadrangle

0 1000 2000 3000 4000 5000 Feet

N
W E
S

Figure 2.
Jacques 2A Site Map & Analytical Results
(Concentrations in ppb)

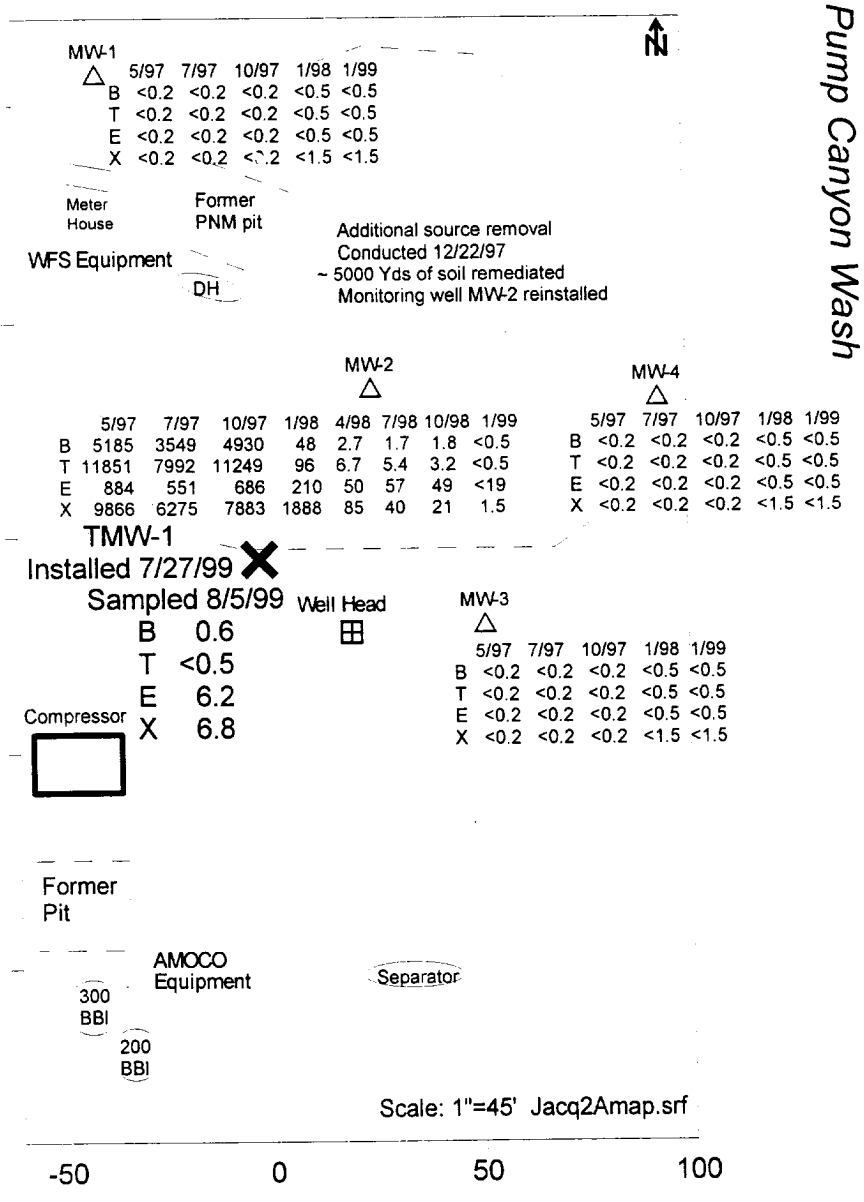
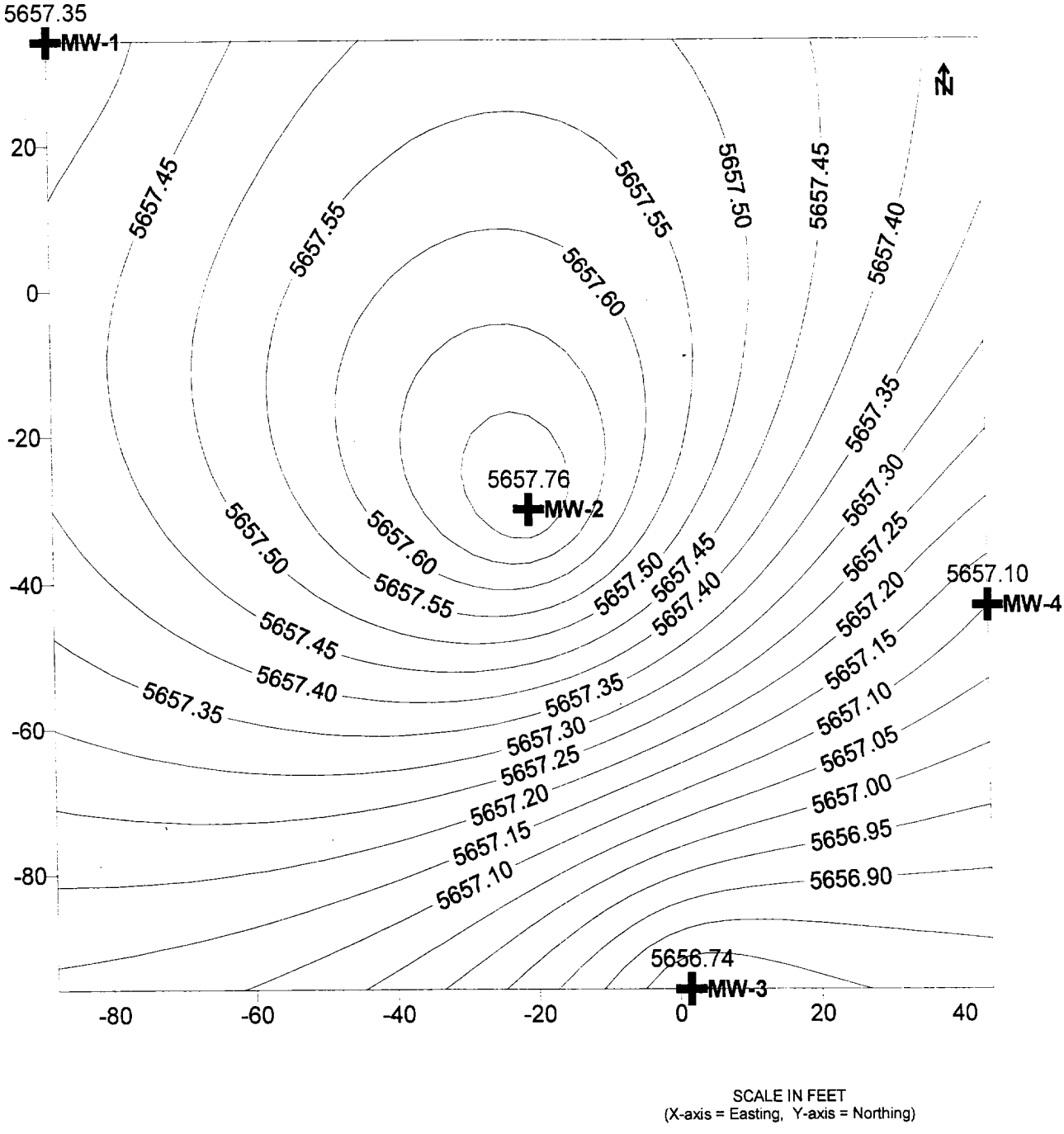
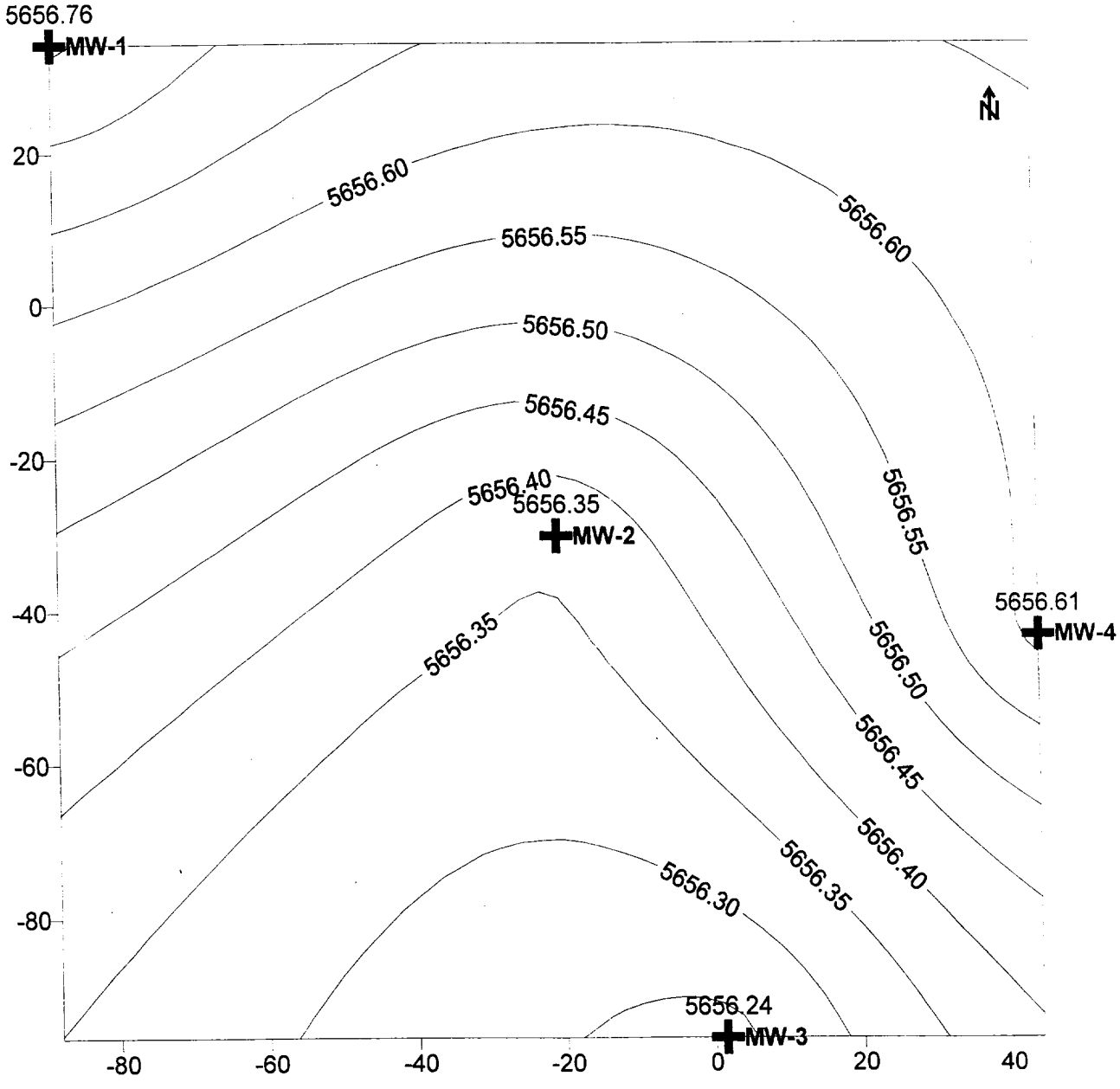


Figure 3a.
Jacques 2A Groundwater Contour Map
(April 29, 1998)



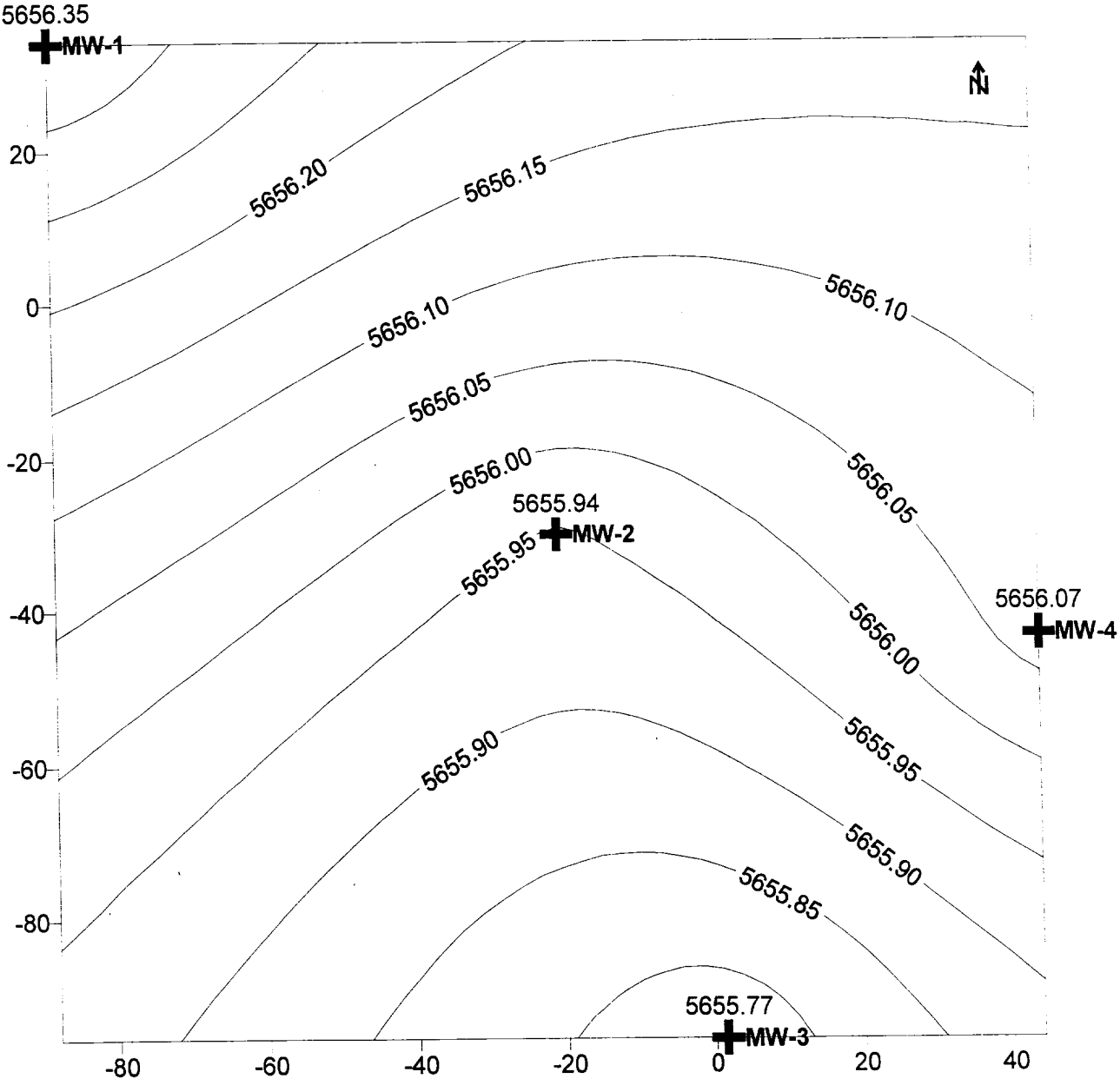
Jacques2A - 99w1

Figure 3b.
Jacques 2A Groundwater Contour Map
(July 9, 1998)



Jacques2A - 99wl2

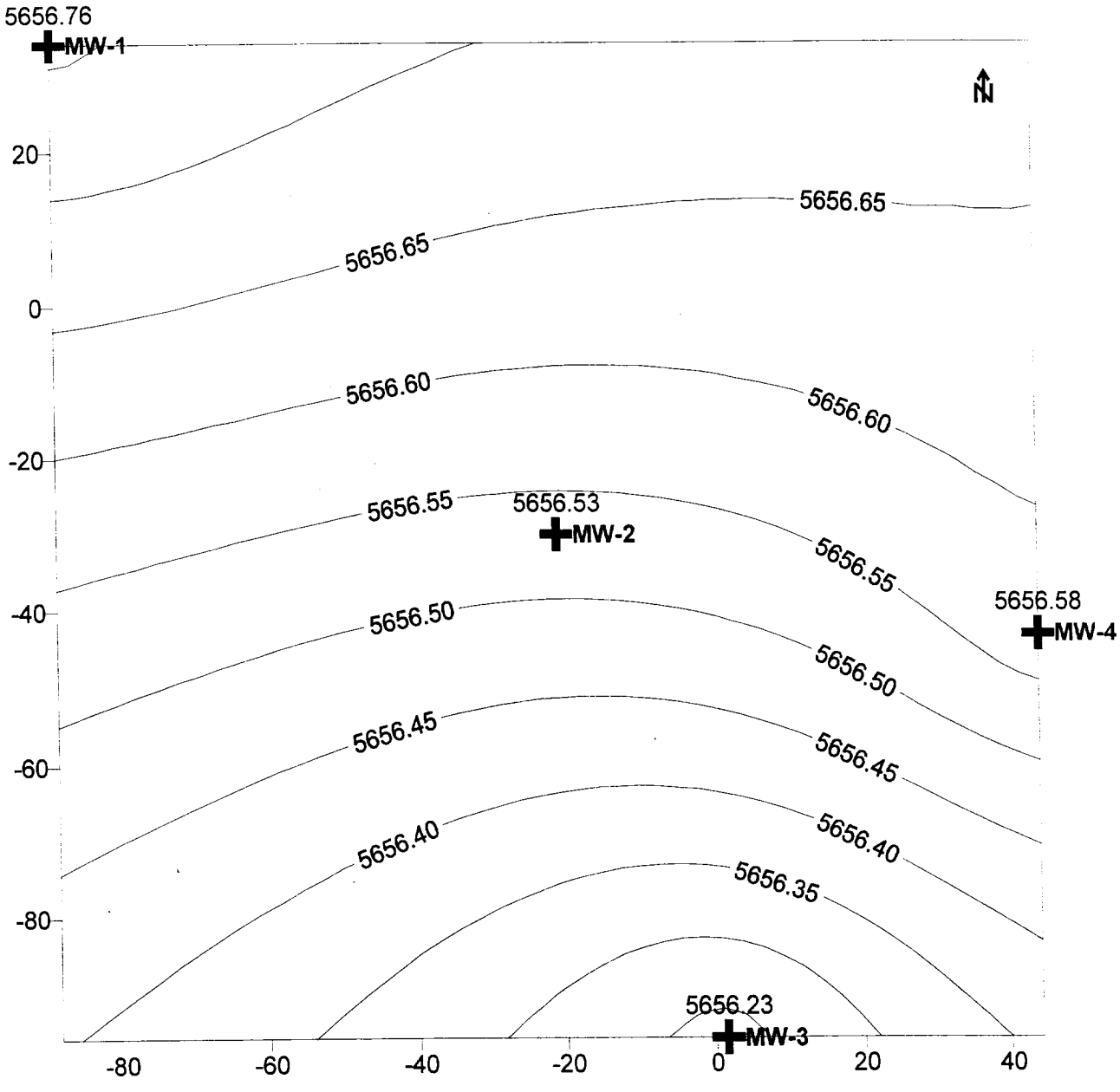
Figure 3c.
Jacques 2A Groundwater Contour Map
(October 5, 1998)



SCALE IN FEET
(X-axis = Easting, Y-axis = Northing)

Jacques2A - 99wl3

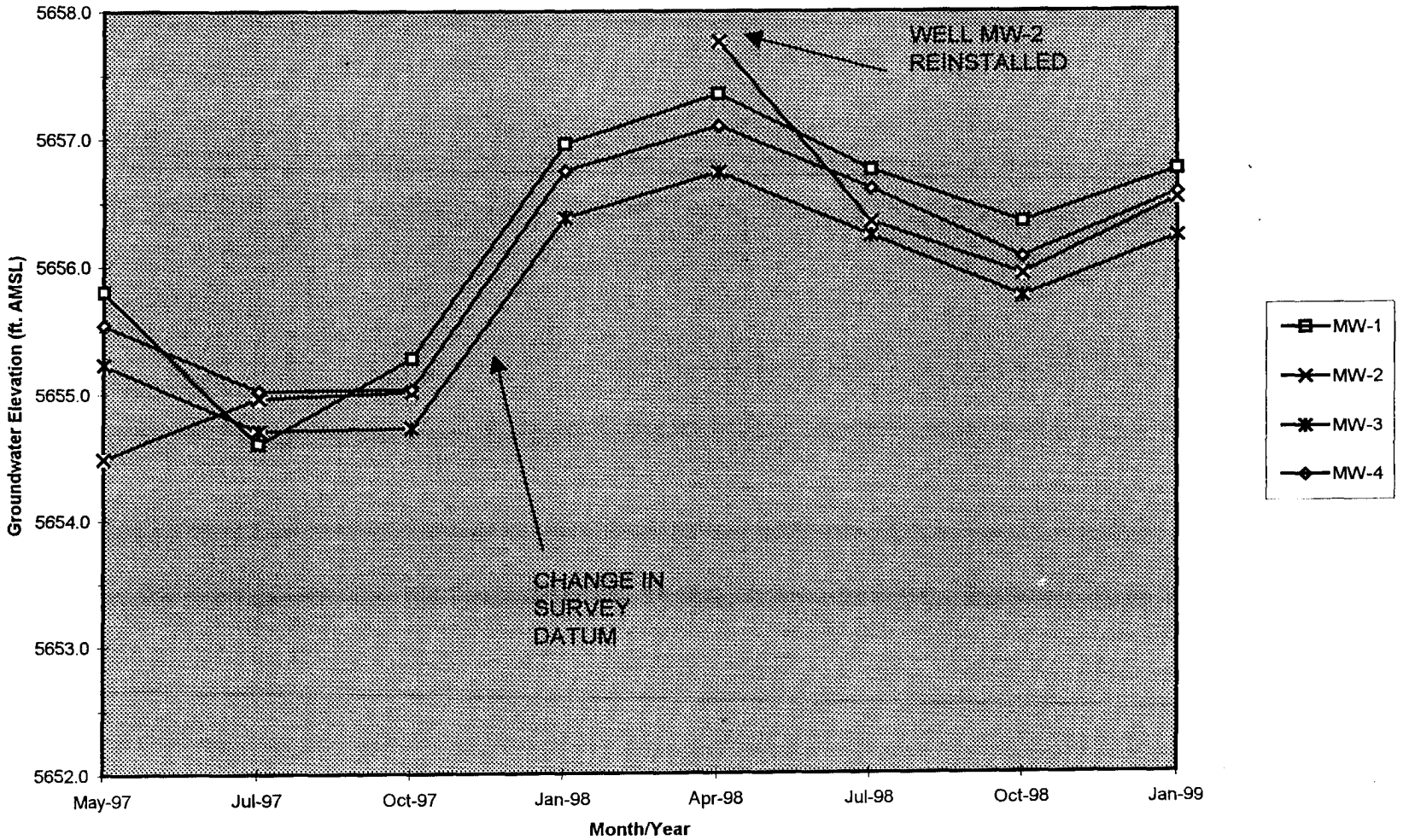
Figure 3d.
Jacques 2A Groundwater Contour Map
(January 18, 1999)



SCALE IN FEET
(X-axis = Easting, Y-axis = Northing)

Jacques2A - 99wl4

Figure 4. Jacques 2A Hydrograph
(Water Level vs. Time)



JACQUES.XLS

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

August 25, 1999

RECEIVED
SEP 0 1 1999

Maureen Gannon
PNM - Public Service Company of NM
Alvarado Square Mail Stop 0408
Albuquerque, NM 87158
TEL: (505) 241-2974
FAX (505) 241-2340

RE: Jacques 2A

Order No.: 9908013

Dear Maureen Gannon,

On Site Technologies, LTD. received 1 sample on 08/06/1999 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Aromatic Volatiles by GC/PID (SW8021B)
Polynuclear Aromatic Hydrocarbons (SW8310)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Cox

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD.

Date: *25-Aug-99*

CLIENT: PNM - Public Service Company of NM
Project: Jacques 2A
Lab Order: 9908013

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *25-Aug-99*

Client: PNM - Public Service Company of NM
Work Order: 9908013
Lab ID: 9908013-01A **Matrix:** AQUEOUS
Project: Jacques 2A

Client Sample Info: Jacques 2A
Client Sample ID: 9908051630; TMW-1
Collection Date: 08/05/1999 4:30:00 PM
COC Record: 7821

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DC**
Benzene	0.6	0.5		µg/L	1	08/16/1999
Toluene	ND	0.5		µg/L	1	08/16/1999
Ethylbenzene	6.2	0.5		µg/L	1	08/16/1999
m,p-Xylene	4.8	1		µg/L	1	08/16/1999
o-Xylene	2	0.5		µg/L	1	08/16/1999

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

August 17, 1999

Mr. David Cox
ON SITE TECHNOLOGIES
612 East Murray
Farmington, NM 87401

The following report contains analytical results for the sample(s) received at Southern Petroleum Laboratories (SPL) on August 10, 1999. The sample(s) was assigned to Certificate of Analysis No. (s) 9908283 and analyzed for all parameters as listed on the chain of custody.

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

Scot Bramfitt
Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 99-08-283

Approved for Release by:

Scot Bramfitt, Project Manager — 8/17/99 Date

Joel Grice
Laboratory Director

Ted Yen
Corporate Quality Assurance Director

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9908283-01

On Site Technologies
612 East Murray
Farmington, NM 87401
ATTN: David Cox

Jacques 2A 9908051630; TMW-1

08/16/99

PROJECT: 8310 Analysis
SITE:
SAMPLED BY: On Site Technologies, LTD.
SAMPLE ID: 9908013-01B

PROJECT NO: 9908013
MATRIX: WATER
DATE SAMPLED: 08/05/99 16:30:00
DATE RECEIVED: 08/10/99

ANALYTICAL DATA

PARAMETER	RESULTS	PQL*	UNITS
Naphthalene	ND	0.1	ug/L
Acenaphthylene	ND	0.1	ug/L
Acenaphthene	ND	0.1	ug/L
Fluorene	ND	0.1	ug/L
Phenanthrene	ND	0.1	ug/L
Anthracene	ND	0.1	ug/L
Fluoranthene	ND	0.1	ug/L
Pyrene	ND	0.1	ug/L
Chrysene	ND	0.1	ug/L
Benzo (a) anthracene	ND	0.1	ug/L
Benzo (b) fluoranthene	ND	0.1	ug/L
Benzo (k) fluoranthene	ND	0.1	ug/L
Benzo (a) pyrene	ND	0.1	ug/L
Dibenzo (a,h) anthracene	ND	0.1	ug/L
Benzo (g,h,i) perylene	ND	0.1	ug/L
Indeno (1,2,3-cd) pyrene	ND	0.1	ug/L

SURROGATES	AMOUNT SPIKED	% RECOVERY	LOWER LIMIT	UPPER LIMIT
1-Fluoronaphthalene	0.50 ug/L	64	50	150
Phenanthrene d-10	0.50 ug/L	69	50	150

ANALYZED BY: KA DATE/TIME: 08/13/99 06:41:23
EXTRACTED BY: KL DATE/TIME: 08/10/99 12:00:00
METHOD: 8310 Polynuclear Aromatic Hydrocarbons
NOTES: * - Practical Quantitation Limit ND - Not Detected
NA - Not Analyzed

COMMENTS:

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

7821

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

Date: 8/5/99

Page: 1 of 1

612 E. Murphy Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.: | Job No.

SEND INVOICE TO

Name	Denver Bearden
Company	PNM Gas Services — Dept. 324-3763
Address	603 W. Elm Street
City, State, Zip	Farmington, NM 87401

REPORT RESULTS TO

Name	Maureen Gannon — Title
Company	PNM Gas Services
Mailing Address	Alverado Square, Mail Stop 0408
City, State, Zip	Albuquerque, NM 87158
Telephone No.	505-848-2974 — Telefax No.

Sampling Location: Jacquos 2A

Sampler: Mark S. Kelliangos

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX 8021B	PAH 8310	LAB ID
9908051630 TMW-1			H_2O	HCl	3	X	X	

Relinquished by: Mark Kelliangos — Date/Time 8/6/99 1440 — Received by: Maureen Kannon — Date/Time 8/6/99 1440

Relinquished by: — Date/Time — Received by: — Date/Time

Relinquished by: — Date/Time — Received by: — Date/Time

Method of Shipment:

Authorized by: Mark Kelliangos Date 8/5/99

(Client Signature Must Accompany Request)

Rush | 24-48 Hours | 10 Working Days

Special Instructions: **Results to be sent to both parties.**

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

RECORD OF SUBSURFACE EXPLORA N

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # 1
Well # TEMP#1
Page 1 of 2

Project Name PNM WELL INSTALLATIC
Project Number 21300 Phase 6001
Project Location JACQUES #2A AMOCO

Elevation
Borehole Location SEC 25, T30N, R9W; O
GWL Depth 31.91 - TOC 2.3' = 29.6'
Logged By C. CULLICOTT
Drilled By K. PADILLA, D. PADILLA
Date/Time Started 7/27/99 10 AM
Date/Time Completed 7/27/99 3:45 PM

Well Logged By C. CULLICOTT
Personnel On-Site K. PADILLA, D PADILLA
Contractors On-Site
Client Personnel On-Site GARY COOK

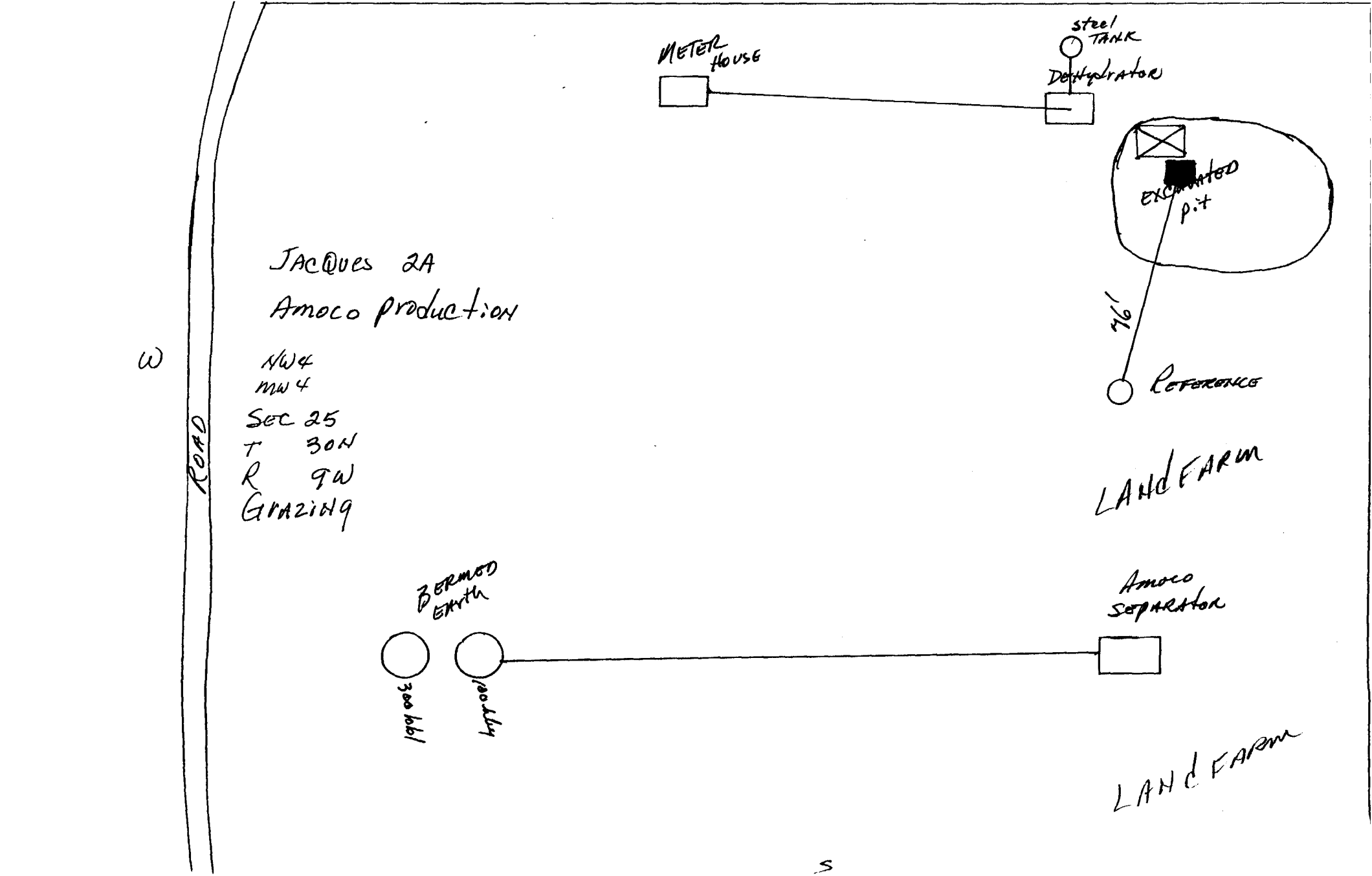
Drilling Method AUGER
Air Monitoring Method PID

Depth (Feet)	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0			SURFACE: SAND						
5									
10	1		① GRAY SANDY SILT, CONSOLIDATED, WITH TENDRILS OF CALICHE THROUGHOUT.			Ø		Ø	SS Ø 8 BLOWS
15									
20	2		② TAN FINE SAND W/ CLAY FRACTION. MODERATE CONSOLIDATION NO OBVIOUS HC STAIN OR ODOR. NO CALICHE.			Ø		Ø	SS Ø 16 BLOWS
25	3								
30	4		③ BROWN FINE SAND W/ MINOR CLAY, SLIGHTLY DAMP.			Ø		Ø	SS Ø 22 BLOWS
35			④ HYDROCARBON/WATER SATURATED SAND RIGHT AT 30'. SOLID BLACK PERVASIVE STAIN TO ~31.5' - 100% SATN.						18 BLOWS
40									

Comments: MONITOR WELL #2 27.5', 40' FROM TEMP #1
SUNNY, HOT

Geologist Signature Cathy Cullicott

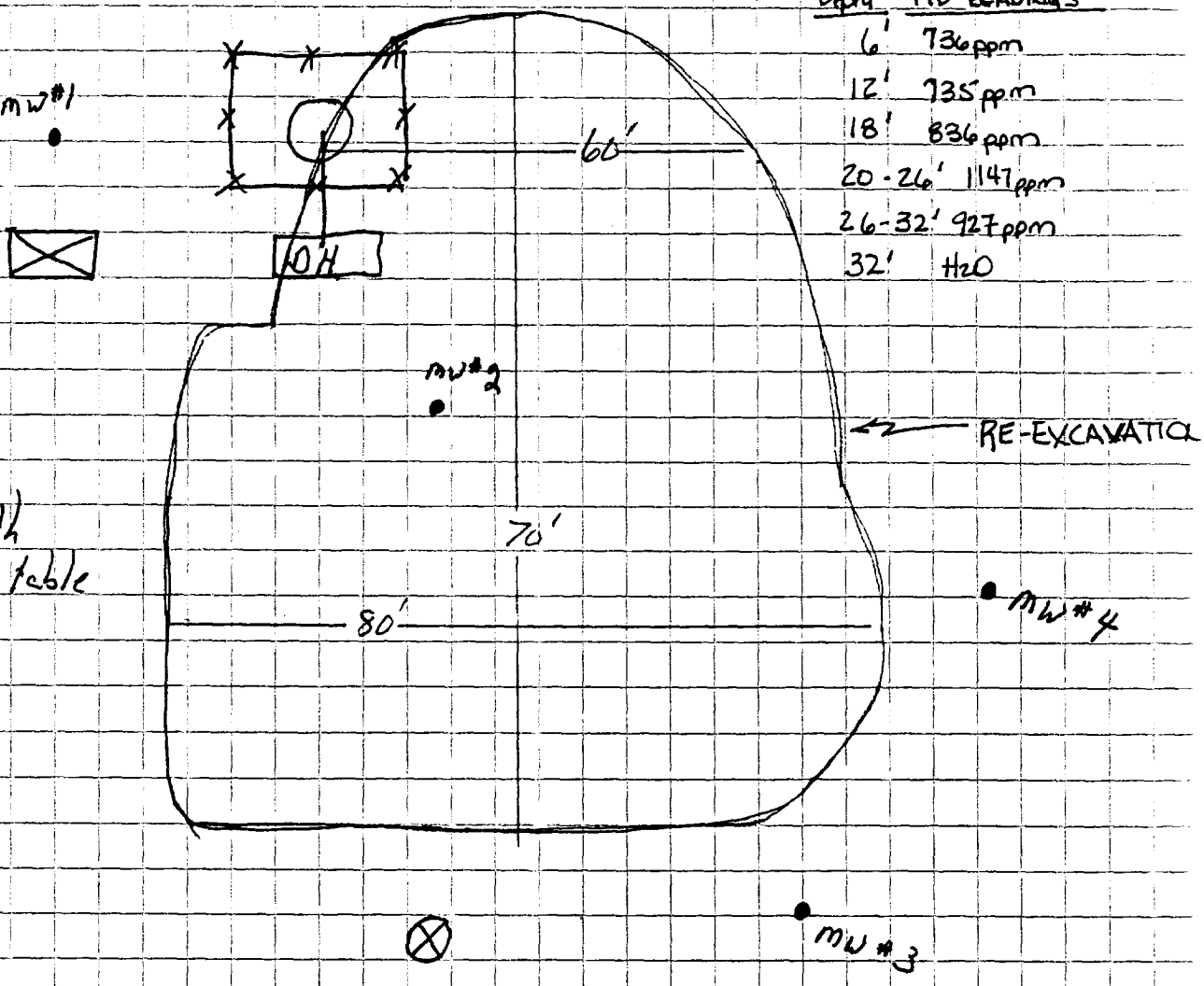
5/6/99\Drillog.xls


METER HOUSE
steel TANK
Dehydrator
EXCAVATED pit
72'
REFERENCE
LAND FARM
JACQUES 2A
Amoco production
NW4
MW 4
SEC 25
T 30N
R 9W
GRAZING
W
ROAD
BERMED EARTH
300 bbl
100 bbl
Amoco SEPARATOR
LAND FARM
S

Jacquez #2A
Amoco
Sec. 25, 30N, 9W, D

12-22-97

Depth	PID Readings
6'	736ppm
12'	735ppm
18'	836ppm
20-26'	1147ppm
26-32'	927ppm
32'	H_2O



5925 yds removed
3500 contaminated soil
2425 overburden

VOLATILE AROMATIC HYDROCARBONS

Gas Company of New Mexico

Project ID:	Pit Pilot Project	Report Date:	11/28/94
Sample ID:	JAQ 2A - 1 - EX	Date Sampled:	11/15/94
Lab ID:	0439	Date Received:	11/16/94
Sample Matrix:	Soil	Date Extracted:	11/22/94
Preservative:	Cool	Date Analyzed:	11/23/94
Condition:	Intact		

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Benzene	ND	0.20
Toluene	7.55	0.20
Ethylbenzene	3.46	0.20
m,p-Xylenes	40.6	0.40
o-Xylene	10.2	0.20

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	115	81 -117%
Bromofluorobenzene	100	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review

TOTAL PETROLEUM HYDROCARBONS

EPA Method 418.1

Gas Company of New Mexico

Project ID:	Pit Pilot Project	Report Date:	11/28/94
Sample Matrix:	Soil	Date Sampled:	11/16/94
Preservative:	Cool	Date Received:	11/16/94
Condition:	Intact	Date Extracted:	11/23/94
		Date Analyzed:	11/23/94

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
Jaques 2A 1 - EX	0439	526	47.1
Jaques 2A 1 - BLF	0440	ND	25.0

ND- Analyte not detected at the stated detection limit.

Reference: Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986; Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:

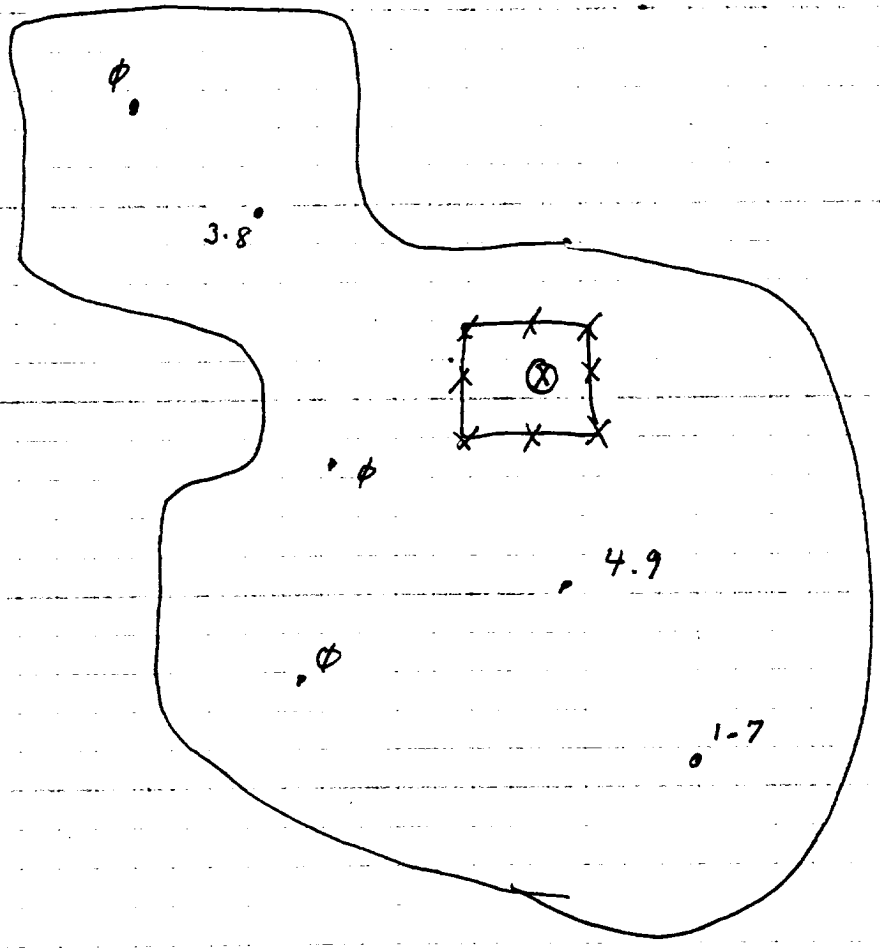
Analyst

Review

Jacques #2A
Amoco

7/9/98

Landfarm: Sandoval Gas Com "B" #1



980709 1500
2"-12" depth

soil vapor headspace = 22.3 ppm

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD. **Date:** *23-Jul-98*

CLIENT: PNM - Public Service Company of NM
Project: Jacquez #2A LF
Lab Order: 9807029

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

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ANALYTICAL REPORT

Date: *23-Jul-98*

Client:	PNM - Public Service Company of NM	**Client Sample Info:**	Jacquez #2A LF
Work Order:	9807029	**Client Sample ID:**	9807091500; Sandoval GC B#1
Lab ID:	9807029-01A **Matrix:** SOIL	**Collection Date:**	7/9/98 3:00:00 PM
Project:	Jacquez #2A LF	**COC Record:**	7312

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **HR**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	7/20/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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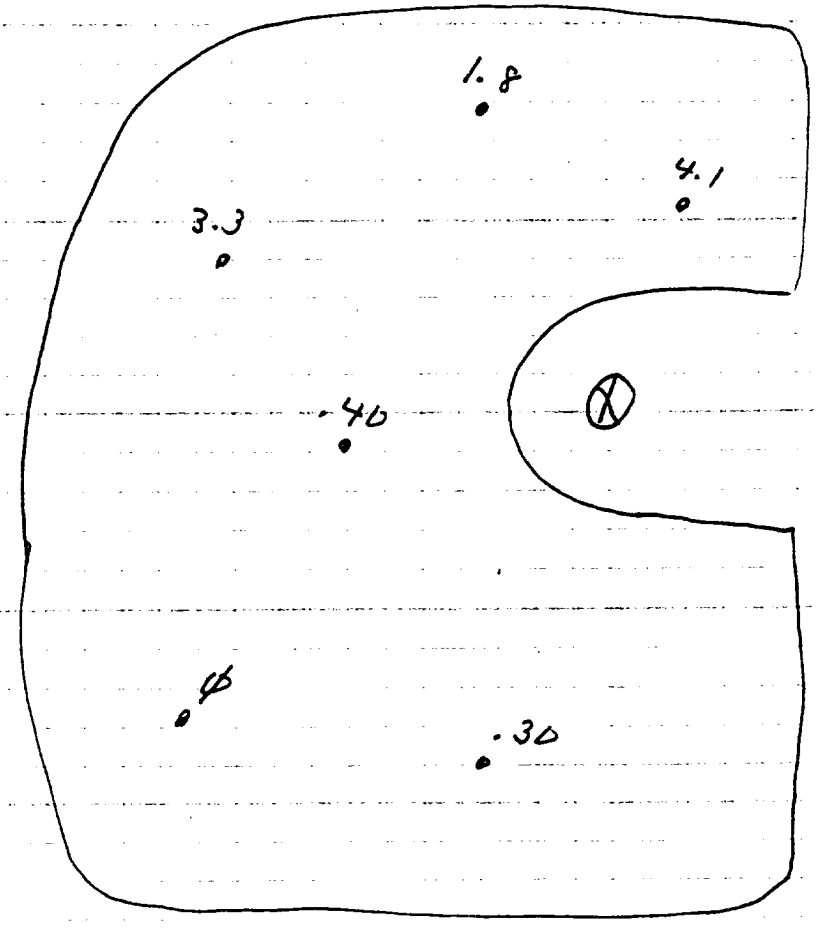
Jacquez #2A
Amoco

7/9/98

Landfarm: Sandoval Gas Com C #1E
Amoco
Sec. 35, 30N, 9W, E



9807091530
2"-12" depth
Soil vapor head space = 43.8 ppm

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ANALYTICAL REPORT

Date: *03-Jun-98*

Client: PNM - Public Service Company of NM
Work Order: 9805081
Lab ID: 9805081-01A **Matrix:** SOIL
Project: Landfarm Composites

Client Sample Info: Sandoval G.C.C#1E
Client Sample ID: 9805261150; Jaques #2 LF
Collection Date: 5/26/98 11:50:00 AM
COC Record: 5222

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015**				Analyst: **HR**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	6/1/98

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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