

Administrative Conference

Company

NOV #

Date

McELVAIN OIL + GAS

3-07-15

MAY 30, 2007

NAME

TITLE

Phone #

Email

or

KELLY ROBERTS

DEPUTY OIL & GAS INSPECTOR

394-6178 x116

WIA MERRICK

DISTRICT MANAGER

505-320-8938

JOHN STURLE

VP Engineering

303-893-0833

artm@mcElvain.com

JOHNS@mcElvain.com

WHY NO CALL ???

CHECK FILE TO SEE WHERE MY
INSPECTION RECORD IS !!!

MC ELVAIN

NOV ADMIN CONFERENCE

5-30-07

30-043-21013

JOHN STEUBLE
ART MERRICK
CHARLIE PERRIN
KELLY ROBERTS

MACKER #1

- * RECEIVED LETTER MAY 15
- * TOOK OVER OPERATIONS JANUARY 1
- * JAN 11 SNOW ON GROUND - NO SNOW ~~IN~~ SINCE DEC. PHOTOS
- * 35 INCHES OF SNOW IN JANUARY + FEBRUARY
- * COULD NOT GET TO LOCATION FEB 21ST WITH TRUCK TO RETRIEVE PUMPING UNIT.
- * MAY 1ST REMOVED 320 BBLs FLUID FROM PIT
- * MAY 3RD SUBMIT REQUEST FOR NSL TO OGD
- * FORGOT TO SUBMIT REQUEST FOR EXTENSION ON PIT - PLAN TO RE-COMPLETE WELL TO MV
- * ENVIROTECH SAMPLED SOIL AND WATER IN AND AROUND PIT
- * STARTED EVALUATING TAKE-OVER LATE OCTOBER 2006
- * CHARLIE SUGGESTS WAIVE PENALTY FOR 50 C (1) (OVERTOPPING) BUT CANNOT SUGGEST THAT WE WAIVE THE PENALTY FOR CLOSURE
- * HAVE DONE INTERNAL REVIEW OF PAPERWORK AND WILL BE SUBMITTING CLOSURE EXTENSIONS FOR SEVERAL OTHER PITS.
- * DO NOT LIKE KNOWINGLY + WILLFULLY.
- * ACD + 1 PENALTY
- * 5-6 EXTENSIONS TO BE FILED SOON FOR PITS
- * SUNDRIES WILL BE SENT IN FOR THIS WELL SOON

5-30-07 (3-07-15)

meelvar odd nov

Rec Letter ^{m17} 15 by OPELTER

Took over OPEL JAN 1ST

OPEL left Bts in (took Job w ute).

Took over well,

JAN 11 snow limited fluid,

snow totals 35" ext wet site 2 months. JAN Feb

Feb 21 Bts sent d/PO^{unt} could not get in to get it,

Trucks sent may 1ST from 320 bbls. Before any ocd finished.

may 3rd ASL APP

Evolution OCT. Photos JAN when took over.

Did not bomb to file for P.T. Extension

will file P.T. EXT

write Rongry,

Know & willingly Problem.

~~6~~ EXT

ACD drafted & sent 6-11-07

DIARY AND WORK RECORD

APRIL

20 DATE 2007

FRIDAY

DAY

REF	NAME OR PROJECT	DETAILS OF MEETINGS	AGREEMENTS	DECISIONS	TIME MAY 11/10
1	AMACKER #1	SIGN SAYS FRONTIER DRILLING -			
2	SUTZ R.1	PIT OPEN - HAS BEEN OVERTOPPED -			
3		TOOK PHOTOS.			
4					
5	ROSETTA RESOURCES	SIGN SHOWS SECTION 2			
6	TSAN TAN H#3	OPEN PIT IS OK			
7	SUTZ R.10	WELL IS DRILLED - PAD FOR PJ			
8					
9	TSAN TAN SWO#11	WELL IS DRILLED - PIT OPEN - NO WELL			
10	SUTZ R.10	SIGN ON LOCATION			
11					
12		TALKED TO PAUL THOMPSON W/ WALSH -			
13		HE STATED THAT HE WOULD HAVE NEW SIGNS			
14		IN PLACE ASAP FOR BOTH WELLS			
15					
16	TSAN TAN SWO#34	NOT YET DRILLED - LOCATION NOT			
17		BUILT - STAKE ONLY			
18					
19					
20					
21					
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40					

DESK

UPDATED TWO PAGE PER DAY REFERENCE

26,181 m. 3 SOP

MAY

WEDNESDAY

30 DATE 7007

DAY

APPOINTMENTS & SCHEDULED EVENTS		DIARY AND WORK RECORD	
NOV ADMIN CONF M'ELVAIN 8:00A	8 0800	SAT IN NOV CONFERENCE WITH CP - JOHN STEUBLE - AND ART MEDRICK	
	9 0900	DATA ENTRY + MAIL AT BLM	
	10 1000		
	11 1100		
	12 1200		
	1 1300		
	2 1400		
	3 1500		
	4 1600		
	5 1700		
	6 1800	TALKED WITH BOB KETZLER FROM SAUDER MILLER - HE WANTED A	
	7 1900	SPUD DATE FOR A WELL NEAR WILDFLOWER DRIVE	
	8 2000		
TO BE DONE TODAY (ACTION LIST)		EXPENSE & REIMBURSEMENT RECORD	
✓ MAIL TO BLM			
✓ NOV ADMIN CONF			
✓ DATA ENTRY			
✓ MAIL TO OGD			
✓ TRIP REPORT			

Weather Data

Here is the data for the station requested. If you need additional assistance on how to use this file with a database, please check the Weather Source website Frequently Asked Questions (FAQ) page.

Weather Source Stations are identified by a unique Weather Source ID (WsID). For your convenience we also provide other popular IDs as available.

T = Trace

N = Not Reported by the Government

TmaxF - High Temperature (degrees Fahrenheit)

TminF - Low Temperature (degrees Fahrenheit)

TmeanF - Mean Temperature (degrees Fahrenheit)

PrcpIn - Precipitation (inches)

SnowIn - Snow (inches)

CDD - Cooling Degree Days

HDD - Heating Degree Days

GDD - Growing Degree Days

A Note about Recent Not Reported Precipitation: For more recent data (generally one to three months from the current date),

a number of stations do not immediately report zero precipitation; thus the report will show N for not reported.

99% of the time the data will later be merged by the government into the station report to show a zero.

Station: Lindrith 1 Wsw

Location: Lindrith, NM 87029

County: Rio Arriba

FIPS: 35039

Elevation: 2200 66 meters, 7220 37'

DST Flag: Y[]

Time Zone: -7

Latitude: 36 3042[]

Longitude: -107 054

WsID: 20909

CoopID: 294960

IcaoID: N/A

WmoID: N/A

WbanID: N/A

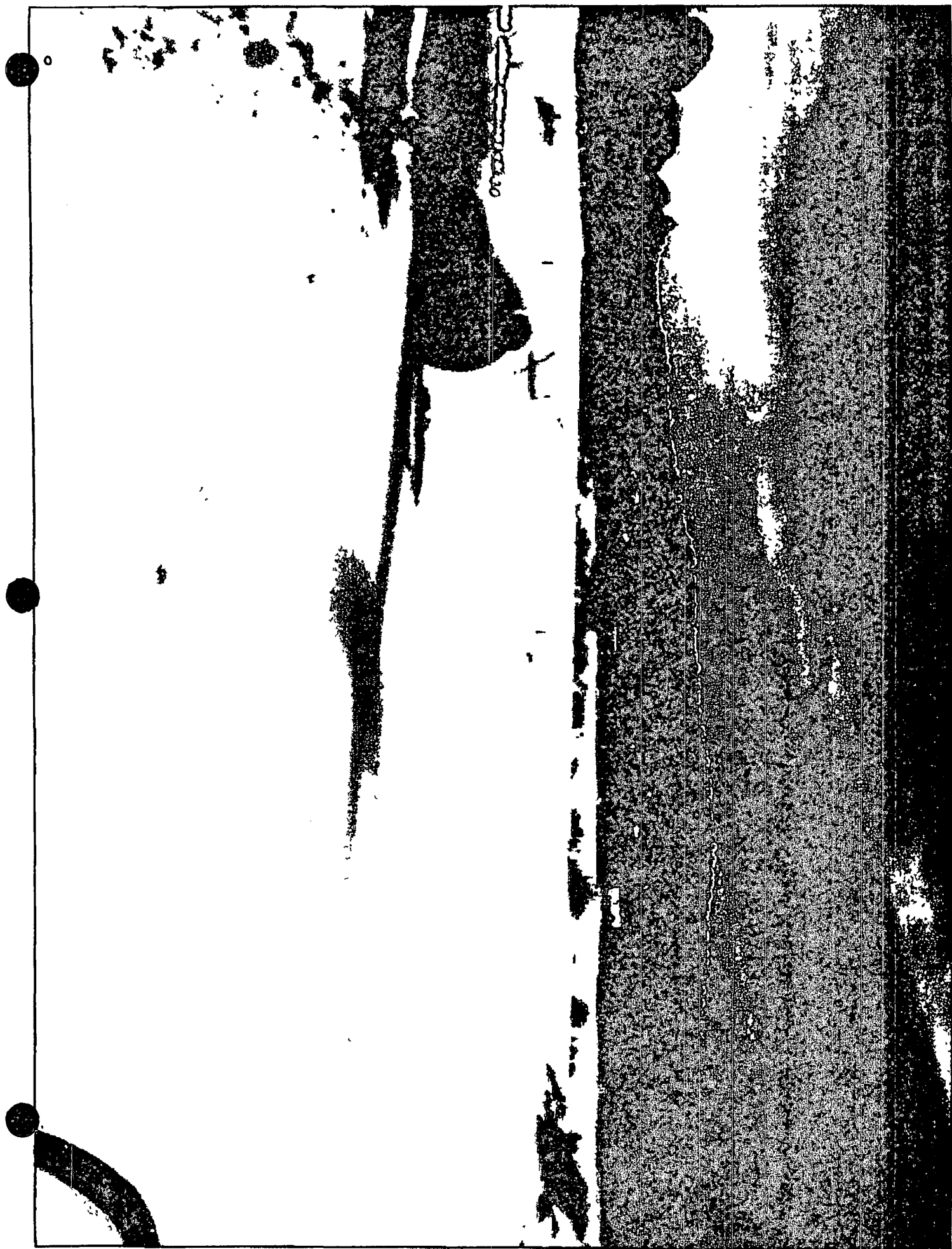
NwsID: LDRN5

<----- Cut Here ----->

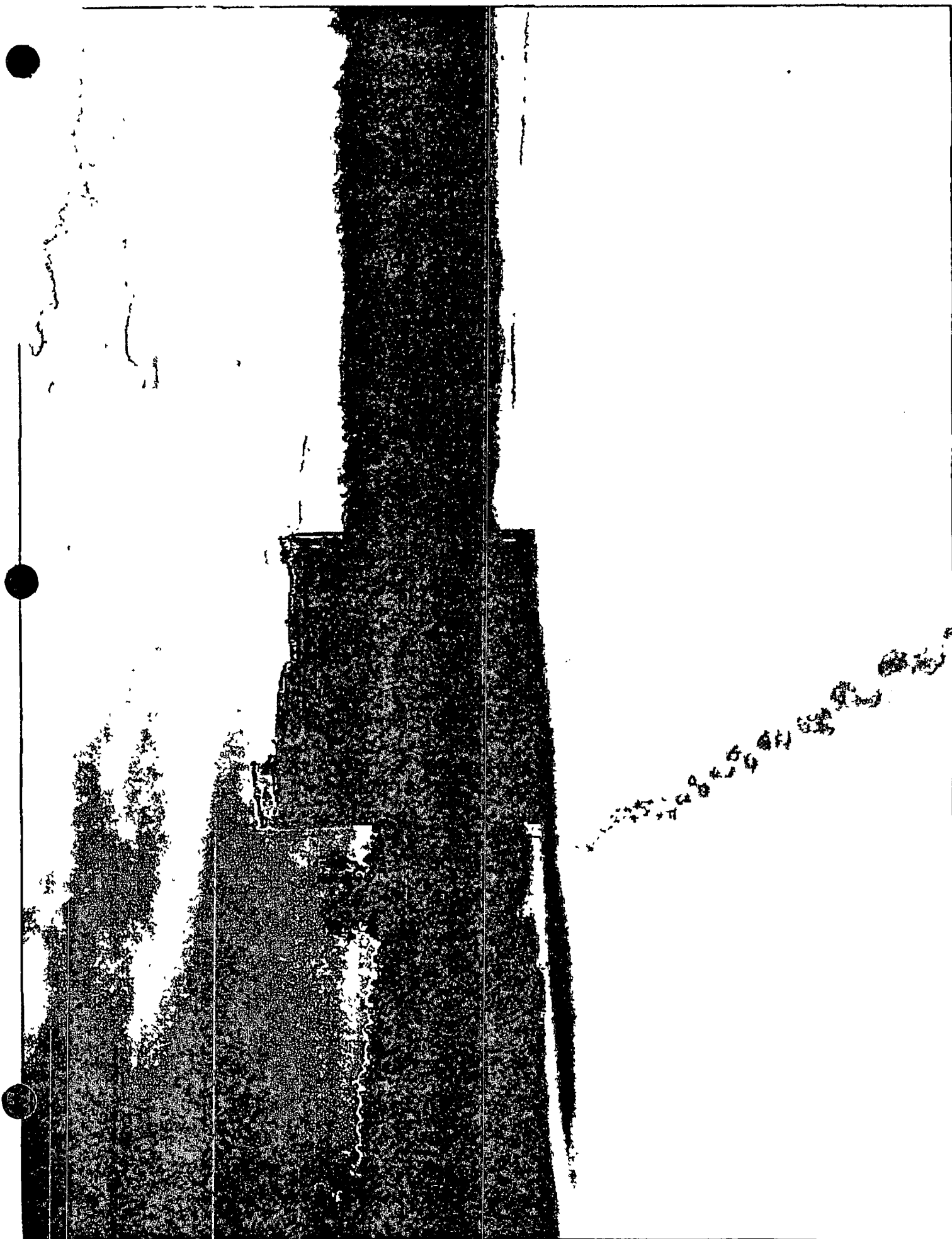
WsID	Date	TmaxF	TminF	TmeanF	PrcpIn	SnowIn	CDD	HDD	GDD
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20909	1/2/2007	36	7	21.5	0	0	0	43.5	0
20909	1/3/2007	41	2	21.5	0	0	0	43.5	0
20909	1/4/2007	38	10	24	0	0	0	41	0
20909	1/5/2007	48	13	30.5	0.06	2	0	34.5	0
20909	1/6/2007	32	7	19.5	0	0	0	45.5	0
20909	1/7/2007	29	-2	13.5	0	0	0	51.5	0
20909	1/8/2007	27	-2	12.5	0	0	0	52.5	0
20909	1/9/2007	35	1	18	0	0	0	47	0
20909	1/10/2007	46	10	28	0	0	0	37	0
20909	1/11/2007	47	15	31	0	0	0	34	0
20909	1/12/2007	45	27	36	0.1	1.5	0	29	0
20909	1/13/2007	42	24	33	0.45	6	0	32	0
20909	1/14/2007	31	16	23.5	0.31	5	0	41.5	0

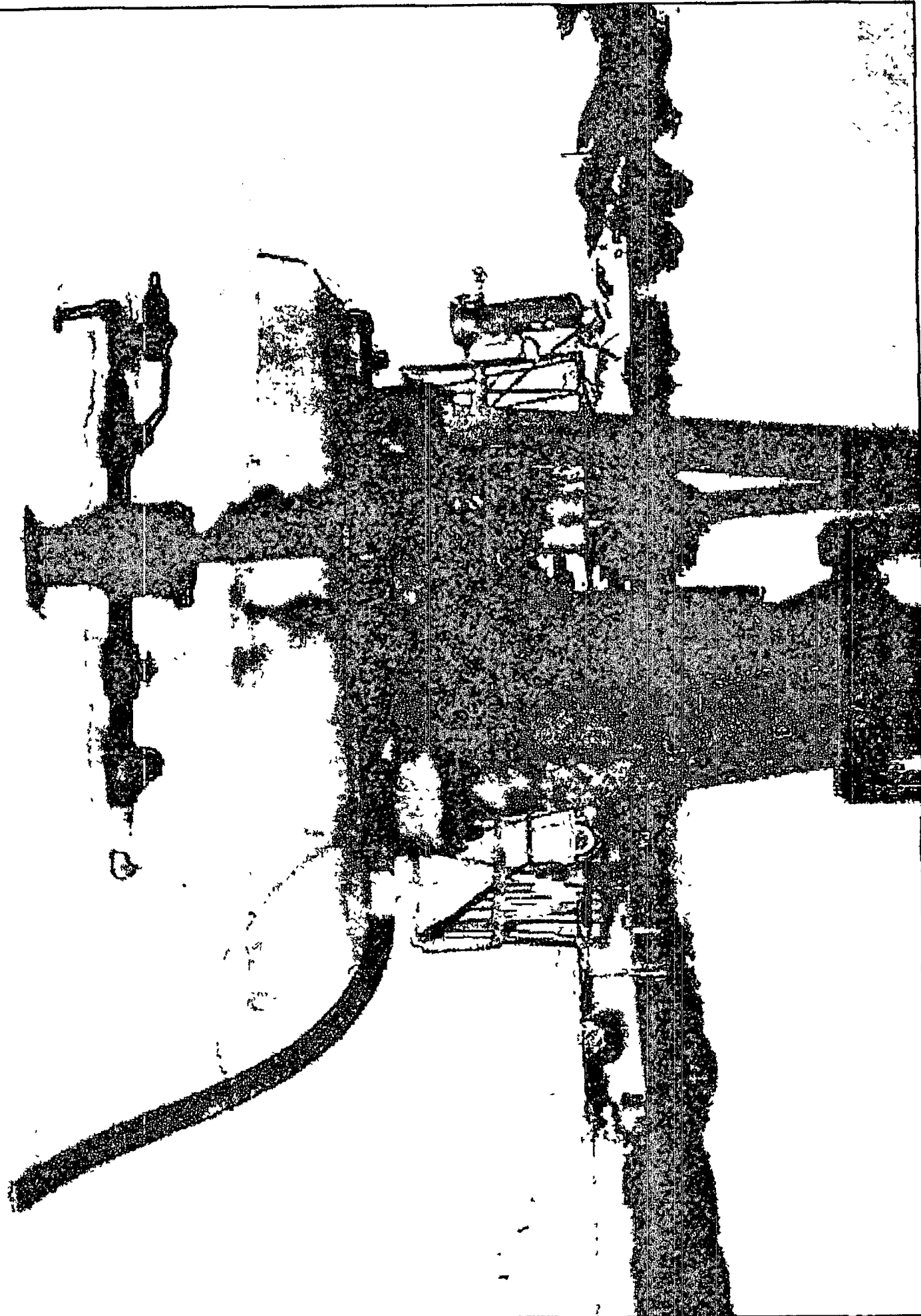
20909	1/15/2007	19	-12	3 5	0	0	0	61 5	0
20909	1/16/2007	20	-9	5 5	0	0	0	59 5	0
20909	1/17/2007	27	-9	9	0	0	0	56	0
20909	1/18/2007	30	1	15 5	0	0	0	49 5	0
20909	1/19/2007	33	6	19 5	0	0	0	45 5	0
20909	1/20/2007	43	17	30	0 15	2	0	35	0
20909	1/21/2007	29	15	22	0 23	3 5	0	43	0
20909	1/22/2007	31	3	17	0	0	0	48	0
20909	1/23/2007	34	-2	16	0	0	0	49	0
20909	1/24/2007	37	-2	17 5	0	0	0	47 5	0
20909	1/25/2007	47	9	28	0	0	0	37	0
20909	1/26/2007	50	12	31	0	0	0	34	0
20909	1/27/2007	43	11	27	0	0	0	38	0
20909	1/28/2007	40	10	25	0	0	0	40	0
20909	1/29/2007	41	11	26	0	0	0	39	0
20909	1/30/2007	39	9	24	0 2	5	0	41	0
20909	1/31/2007	41	9	25	0 09	2	0	40	0
20909	2/1/2007	34	7	20 5	0	0	0	44 5	0
20909	2/2/2007	34	-6	14	0	0	0	51	0
20909	2/3/2007	22	-6	8	0	0	0	57	0
20909	2/4/2007	34	1	17 5	0	0	0	47 5	0
20909	2/5/2007	42	9	25 5	0	0	0	39 5	0
20909	2/6/2007	51	11	31	0	0	0	34	0
20909	2/7/2007	54	19	36 5	0	0	0	28 5	0
20909	2/8/2007	51	20	35 5	0	0	0	29 5	0
20909	2/9/2007	51	20	35 5	0	0	0	29 5	0
20909	2/10/2007	48	24	36	0	0	0	29	0
20909	2/11/2007	47	30	38 5	0	0	0	26 5	0
20909	2/12/2007	43	30	36 5	0	0	0	28 5	0
20909	2/13/2007	41	20	30 5	0 32	2	0	34 5	0
20909	2/14/2007	40	23	31 5	0 48	3	0	33 5	0
20909	2/15/2007	34	3	18 5	0	0	0	46 5	0
20909	2/16/2007	35	8	21 5	0	0	0	43 5	0
20909	2/17/2007	44	8	26	0	0	0	39	0
20909	2/18/2007	46	17	31 5	0	0	0	33 5	0
20909	2/19/2007	43	N	N	0	0	N	N	0
20909	2/20/2007	45	27	36	0	0	0	29	0
20909	2/21/2007	N	15	N	0	0	N	N	0
20909	2/22/2007	50	17	33 5	0	0	0	31 5	0
20909	2/23/2007	52	30	41	0 12	1	0	24	0
20909	2/24/2007	45	13	29	0 16	2	0	36	0
20909	2/25/2007	33	7	20	0	0	0	45	0
20909	2/26/2007	48	7	27 5	0	0	0	37 5	0
20909	2/27/2007	46	N	N	0	0	N	N	0
20909	2/28/2007	48	26	37	0	0	0	28	0

Total 35









ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

May 25, 2007

Project No. 06039-003

McElvain Oil and Gas
Attn: Mr. Art Merrick
P.O. Box 5610
Farmington, New Mexico 87499

Phone (505) 320-8938

RE: SITE ASSESSMENT AT AMACKER # 1 WELL SITE, SECTION 22 TOWNSHIP 23N RANGE 1W, RIO ARRIBA COUNTY, NEW MEXICO

Dear Mr. Merrick.

Envirotech, Inc. has completed a site assessment of the Amacker # 1 well site, Section 22 Township 23N Range 1W, Rio Arriba County, New Mexico; see *Figure 1, Vicinity Map*. During the past winter the reserve pit overflowed due to an abundant amount of precipitation. The following is a letter report documenting the sampling in the areas potentially impacted by the overflow.

SITE ACTIVITIES

Envirotech was contacted with a request to determine the extent of contamination from the overflow at the above referenced location. On May 17, 2007 an Environmental Scientist collected five (5) soil samples from the site and one (1) water sample from the reserve pit. One (1) soil sample was collected as a background sample taken from off the location to the northwest of the reserve pit. The other four (4) samples were collected from the area that contamination was believed to have occurred. The four (4) samples were analyzed in the field using USEPA Method 418.1 for Total Petroleum Hydrocarbons (TPH) and a Photo Ionization Detector (PID) for organic vapors; see **Table 1: Field Analysis Results**

Table 1: Field Analysis Results

Sample ID	TPH (ppm)	PID (ppm)
Sample # 1	694	1.8
Sample # 2	24.3	1.1
Sample # 3	41.6	1.8
Sample #4	31.5	1.2
Background	27.8	1.1

* value in bold exceeds the NMOCD closure standard

Sample # 1, Sample # 3 and the Background sample were then turned in to Envirotech's Laboratory for analysis via USEPA Method 8021 Aromatic Volatile Organics (BTEX), USEPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons (TPH), and Chlorides. Both samples were below the most stringent 100 ppm regulatory standard from NMOCD for TPH and BTEX; see *Appendix A, Laboratory Analysis*. Sample # 2 and #4 were not analyzed at Envirotech's Laboratory because the field analysis results were below regulatory standards. The water sample from the reserve pit and was analyzed for Cations/Anions. The location of the samples can be found in *Figure 2, Site Map*. Table 2 below is a summary of the laboratory analysis.

McElvam Oil and Gas
Project No 06039-003
May 25, 2007
Page 2

Table 2: Laboratory Analysis Results

Sample ID	TPH (ppm)	Benzene (ppm)	Total BTEX (ppm)	Total Chloride (ppm)
Sample # 1	80.7	ND	0.0097	92
Sample # 3	7.5	ND	0.0068	38
Background	ND	ND	0.0084	48
NMOCD Regulations	100	10	50	

CONCLUSION

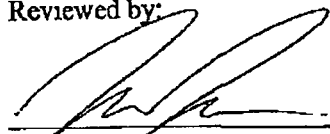
Envirotech, Inc. has completed a site assessment of the Amacker # 1 well site, Section 22 Township 23N Range 1W, Rio Arriba County, New Mexico. Laboratory results show that no contamination tested for was above regulatory standards. Sample #1 showed slightly higher than background readings for TPH and Chlorides; however these levels do not pose a significant threat to the environment. Envirotech recommends that the reserve pit be closed in accordance with all applicable standards to prevent the incident from occurring in the future.

If you have any questions or comments regarding this spill cleanup, please feel free to contact us at (505) 632-0615

Sincerely,
ENVIROTECH, INC.

Greg Crabtree
Environmental Engineer, EIT
gcrabtree@envirotech-inc.com

Reviewed by:



Kyle P. Kerr
Senior Environmental Scientist
NMCES #299
kpkerr@envirotech-mc.com

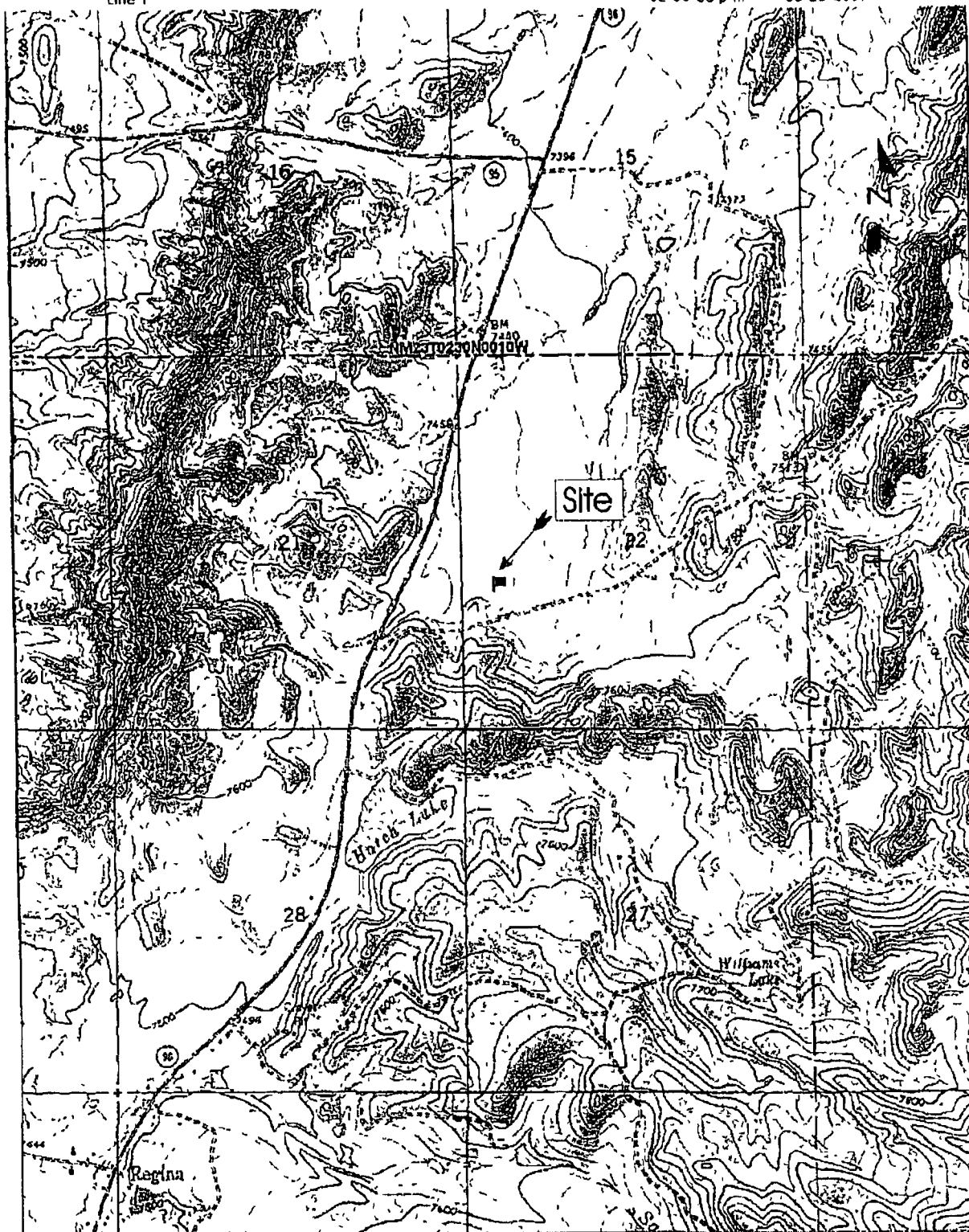
Morris D. Young
President
NMCES #098
myoung@envirotech-inc.com

Enclosures Figures
Appendix A, Field Analysis
Appendix B, Laboratory Analysis

Figures:

Figure 1, Vicinity Map

Figure 2, Site Map



Source: Regina, New Mexico 7.5 Minute U.S.G.S. Topographic Quadrangle Maps
 Scale: 1:24,000 1" = 2000'

McElvain Oil and Gas
 Amacker #1
 Section 22 T23N R1W
 Rio Arriba Co, New Mexico

ENVIROTECH INC.

ENVIRONMENTAL SCIENTISTS & ENGINEERS

5796 U.S. HIGHWAY 64
 FARMINGTON, NEW MEXICO 87401

PHONE (505) 632-0615

Vicinity Map

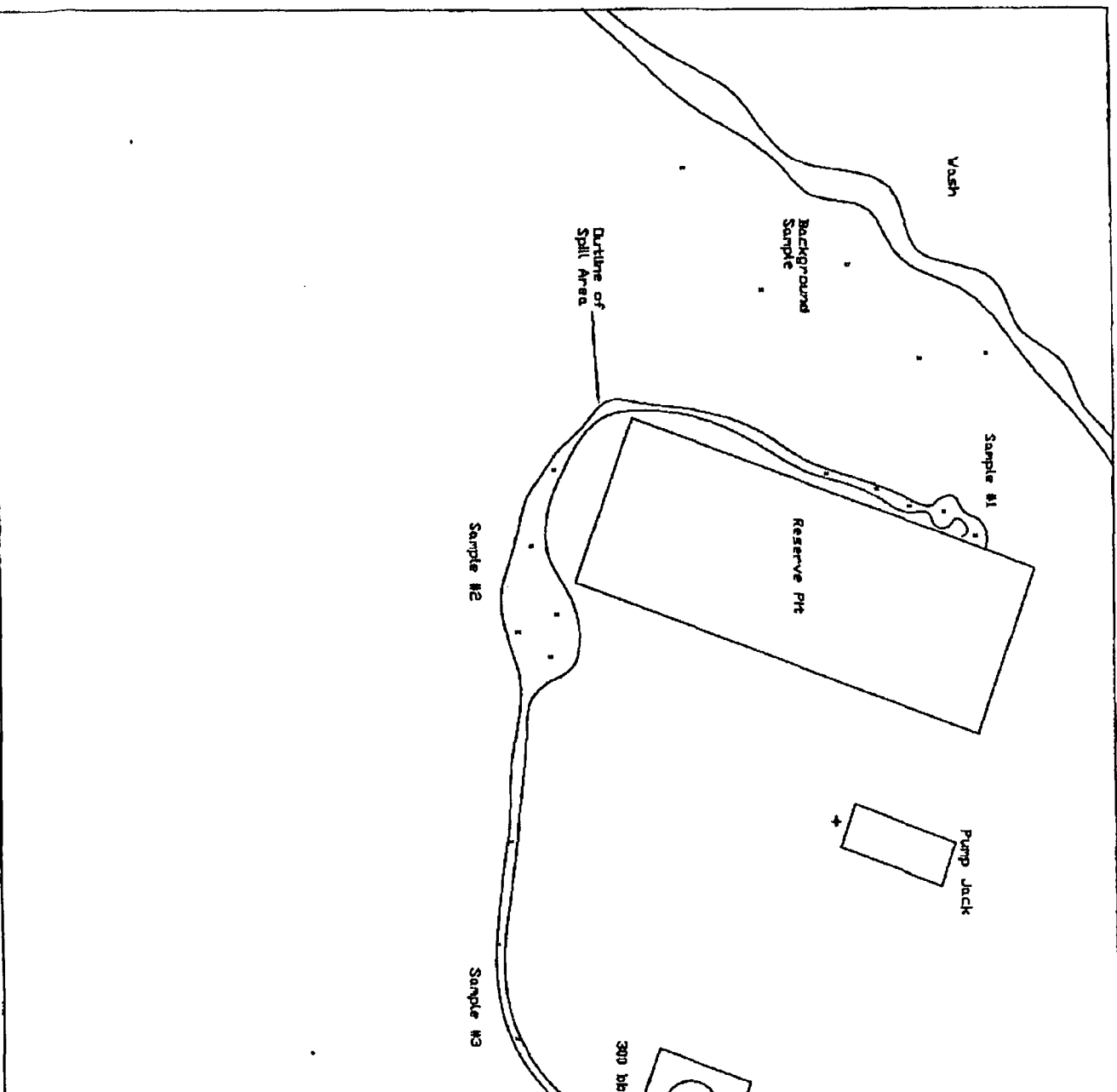
Figure 1

Project# 06039-003

Date Drawn: 5/24/07

Drawn By:
 Greg Crabtree

Project Manager
 Kyle P. Kerr



**McElvain Oil and Gas
Spill assessment at the
Amacker #1
Well Site**

SCALE: n/a	FIGURE NO 2	REV
PROJECT NO 06039-003		

REVISIONS

NO	DATE	BY	DESCRIPTION
1	5/24/07	GNC	BASE DRNN
2	5/27/07	GNC	

ENVIROTECH
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

Appendix A:

Field Analysis

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client	McElvain Oil and Gas	Project #:	06039-003
Sample No.	1	Date Reported	5/25/2007
Sample ID	Sample #1 Composite	Date Sampled	5/17/2007
Sample Matrix	Soil	Date Analyzed	5/17/2007
Preservative	Cool	Analysis Needed	TPH-418.1
Condition	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	694	5.0
------------------------------	-----	-----

ND = Parameter not detected at the stated detection limit

References Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments Amacker #1


Analyst


Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	McElvain Oil and Gas	Project #	06039-003
Sample No.	2	Date Reported	5/25/2007
Sample ID	Sample #2 Composite	Date Sampled	5/17/2007
Sample Matrix	Soil	Date Analyzed	5/17/2007
Preservative	Cool	Analysis Needed:	TPH-418.1
Condition	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	24.3	5.0

ND = Parameter not detected at the stated detection limit

References Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments Amacker #1


Analyst


Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	McElvain Oil and Gas	Project #	06039-003
Sample No.:	3	Date Reported	5/25/2007
Sample ID	Sample #3 Composite	Date Sampled:	5/17/2007
Sample Matrix:	Soil	Date Analyzed	5/17/2007
Preservative	Cool	Analysis Needed	TPH-418.1
Condition	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	41.6	5.0
------------------------------	------	-----

ND = Parameter not detected at the stated detection limit

References Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: **Amacker #1**


Analyst


Review

ENVIROTECH INC.**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS**

Client	McElvain Oil and Gas	Project #	06039-003
Sample No	4	Date Reported	5/25/2007
Sample ID	Sample #4 Composite	Date Sampled	5/17/2007
Sample Matrix	Soil	Date Analyzed	5/17/2007
Preservative	Cool	Analysis Needed	TPH-418.1
Condition	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	31.5	5.0

ND = Parameter not detected at the stated detection limit

References Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments: **Amacker #1**



Analyst



Review

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client	McElvain Oil and Gas	Project #	06039-003
Sample No	5	Date Reported	5/25/2007
Sample ID	Background	Date Sampled	5/17/2007
Sample Matrix	Soil	Date Analyzed	5/17/2007
Preservative	Cool	Analysis Needed	TPH-418.1
Condition	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----------	--------------------------	--------------------------

Total Petroleum Hydrocarbons	27.8	5.0
------------------------------	------	-----

ND = Parameter not detected at the stated detection limit

References Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments. Amacker #1


Analyst


Review

ENVIROTECH INC.**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS
QUALITY ASSURANCE REPORT**

Client		Project #	06039-003
Sample ID	QA/QC	Date Reported.	5/25/2007
Laboratory Number	01-24-TPH QA/QC	Date Sampled.	N/A
Sample Matrix	Freon-113	Date Analyzed	5/17/2007
Preservative	N/A	Date Extracted	5/17/2007
Condition	N/A	Analysis Needed	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
	05-22-04	5/17/2007	1,735	1,600	7.8%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	5.0

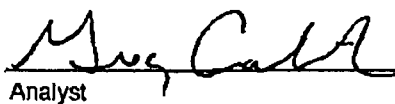
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	2,471	2,352	4.8%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	2,471	2,000	5,030	112.5%	80 - 120%

ND = Parameter not detected at the stated detection limit

References Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

Comments. QA/QC for Amacker #1


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client	McElvain Oil & Gas	Project #	06039-003
Sample ID	Background	Date Reported	05-21-07
Lab ID#	41582	Date Sampled	05-17-07
Sample Matrix	Soil	Date Received	05-17-07
Preservative	Cool	Date Analyzed	05-18-07
Condition	Cool and Intact	Chain of Custody	2685

Parameter**Concentration (mg/Kg)****Total Chloride****48 0**

Reference Standard Methods For The Examination of Water And Waste Water", 18th ed , 1992

Comments. Amacker #1.

Christine M. Wallen
Analyst

Blair K. Wall
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client	McElvain Oil & Gas	Project #	06039-003
Sample ID	Sample #1	Date Reported	05-21-07
Lab ID#	41583	Date Sampled	05-17-07
Sample Matrix	Soil	Date Received	05-17-07
Preservative	Cool	Date Analyzed	05-18-07
Condition	Cool and Intact	Chain of Custody	2685

Parameter**Concentration (mg/Kg)****Total Chloride****92.0**

Reference

Standard Methods For The Examination of Water And Waste Water", 18th ed , 1992

Comments

Amacker #1.

Christine M. Waller
Analyst

Blanca V. Vazquez
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

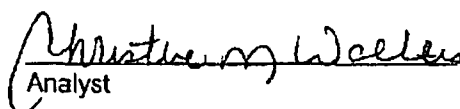
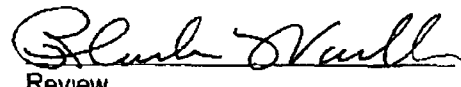
Client	McElvain Oil & Gas	Project #	06039-003
Sample ID	Sample #3	Date Reported	05-21-07
Lab ID#	41584	Date Sampled	05-17-07
Sample Matrix	Soil	Date Received	05-17-07
Preservative	Cool	Date Analyzed	05-18-07
Condition	Cool and Intact	Chain of Custody	2685

Parameter**Concentration (mg/Kg)****Total Chloride****38.0**

Reference

Standard Methods For The Examination of Water And Waste Water[®], 18th ed., 1992

Comments:

Amacker #1.
Analyst
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client	McElvain Oil & Gas	Project #	06039-003
Sample ID	Background	Date Reported	05-21-07
Laboratory Number	41582	Date Sampled	05-17-07
Chain of Custody	2685	Date Received	05-17-07
Sample Matrix	Soil	Date Analyzed	05-18-07
Preservative	Cool	Date Extracted	05-18-07
Condition	Cool & Intact	Analysis Requested	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	5.7	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	2.7	2.2
o-Xylene	ND	1.0
Total BTEX	8.4	

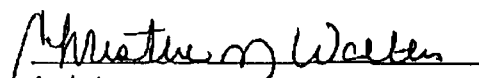
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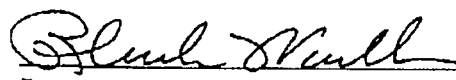
Surrogate Recoveries	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Amacker #1


Analyst


Review

ENVIROTECH LABS**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client	McElvain Oil & Gas	Project #	06039-003
Sample ID	Sample #1	Date Reported,	05-21-07
Laboratory Number	41583	Date Sampled	05-17-07
Chain of Custody	2685	Date Received,	05-17-07
Sample Matrix	Soil	Date Analyzed	05-18-07
Preservative	Cool	Date Extracted	05-18-07
Condition	Cool & Intact	Analysis Requested	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	6.4	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	3.3	2.2
o-Xylene	ND	1.0
Total BTEX	9.7	

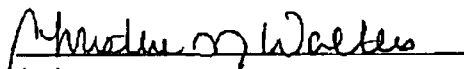
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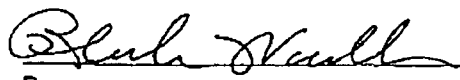
Surrogate Recoveries	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Amacker #1


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client	McElvain Oil & Gas	Project #	06039-003
Sample ID	Sample #3	Date Reported	05-21-07
Laboratory Number	41584	Date Sampled	05-17-07
Chain of Custody	2685	Date Received	05-17-07
Sample Matrix	Soil	Date Analyzed	05-18-07
Preservative	Cool	Date Extracted	05-18-07
Condition	Cool & Intact	Analysis Requested	BTEX

Parameter	Concentration (ug/Kg)	Det Limit (ug/Kg)
Benzene	ND	1.8
Toluene	6.8	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	6.8	

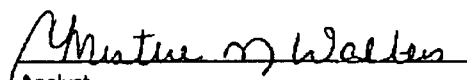
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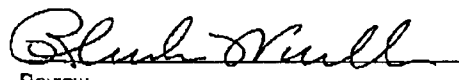
Surrogate Recoveries	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Amacker #1


Analyst


Review

ENVIROTECH LABS**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client	N/A	Project #	N/A
Sample ID	05-18-BTEX QA/QC	Date Reported	05-21-07
Laboratory Number	41580	Date Sampled	N/A
Sample Matrix	Soil	Date Received	N/A
Preservative	N/A	Date Analyzed	05-18-07
Condition	N/A	Analysis	BTEX

Calibration and Detection Limits (ug/L)	Sample Range	Spiked Range	Blank	Range
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Benzene	2.7956E+007	2.8012E+007	0.2%	ND	0.2
Toluene	2.7003E+007	2.7057E+007	0.2%	ND	0.2
Ethylbenzene	2.2960E+007	2.3006E+007	0.2%	ND	0.2
p,m-Xylene	4.7073E+007	4.7167E+007	0.2%	ND	0.2
o-Xylene	2.0913E+007	2.0955E+007	0.2%	ND	0.1

Duplicate Conc (ug/Kg)	Sample	Duplicate	Diff	Percent Range	Detectability
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Benzene	5.2	5.2	0.0%	0 - 30%	1.8
Toluene	14.1	14.0	0.7%	0 - 30%	1.7
Ethylbenzene	7.2	7.2	0.0%	0 - 30%	1.5
p,m-Xylene	31.1	31.0	0.3%	0 - 30%	2.2
o-Xylene	9.7	9.8	1.0%	0 - 30%	1.0

Spiked Conc (ug/Kg)	Sample	Spiked Sample	Recovery	Detectability
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Benzene	5.2	50.0	55.1	99.8%	39 - 150
Toluene	14.1	50.0	64.0	99.8%	46 - 148
Ethylbenzene	7.2	50.0	57.1	99.8%	32 - 160
p,m-Xylene	31.1	100	131	99.8%	46 - 148
o-Xylene	9.7	50.0	59.7	100.0%	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 41580 - 41584.

Christine M. Wheeler
 Analyst

Blanca Smith
 Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

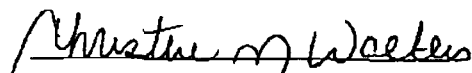
Client	McElvain	Project #	06039-003
Sample ID	Background	Date Reported	05-21-07
Laboratory Number	41582	Date Sampled	05-17-07
Chain of Custody No	2685	Date Received	05-17-07
Sample Matrix	Soil	Date Extracted	05-18-07
Preservative	Cool	Date Analyzed	05-18-07
Condition	Cool and Intact	Analysis Requested	8015 TPH

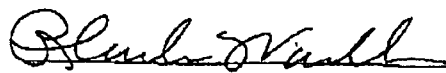
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments **Amacker #1.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

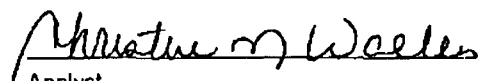
Client	McElvain	Project #	06039-003
Sample ID	Sample #1	Date Reported	05-21-07
Laboratory Number	41583	Date Sampled	05-17-07
Chain of Custody No	2685	Date Received	05-17-07
Sample Matrix	Soil	Date Extracted	05-18-07
Preservative	Cool	Date Analyzed	05-18-07
Condition	Cool and Intact	Analysis Requested	8015 TPH

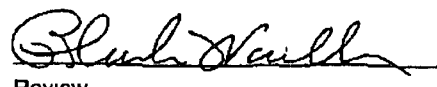
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.3	0.2
Diesel Range (C10 - C28)	80.4	0.1
Total Petroleum Hydrocarbons	80.7	0.2

ND - Parameter not detected at the stated detection limit

References Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,
SW-846, USEPA, December 1996

Comments Amacker #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

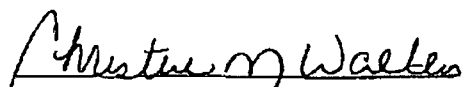
Client	McElvain	Project #	06039-003
Sample ID	Sample #3	Date Reported	05-21-07
Laboratory Number	41584	Date Sampled	05-17-07
Chain of Custody No	2685	Date Received	05-17-07
Sample Matrix	Soil	Date Extracted	05-18-07
Preservative	Cool	Date Analyzed	05-18-07
Condition	Cool and Intact	Analysis Requested	8015 TPH

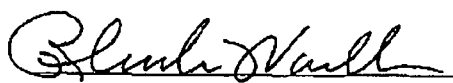
Parameter	Concentration (mg/Kg)	Det Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.8	0.2
Diesel Range (C10 - C28)	6.7	0.1
Total Petroleum Hydrocarbons	7.5	0.2

ND - Parameter not detected at the stated detection limit

References Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,
SW-846, USEPA, December 1996

Comments Amacker #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client	QA/QC	Project #	N/A
Sample ID	05-18-07 QA/QC	Date Reported	05-21-07
Laboratory Number	41580	Date Sampled	N/A
Sample Matrix	Methylene Chloride	Date Received	N/A
Preservative	N/A	Date Analyzed	05-18-07
Condition	N/A	Analysis Requested	TPH

Sample	Calculated	Lab Ref	Lab Value	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.1978E+003	1.1981E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.1634E+003	1.1639E+003	0.04%	0 - 15%

Blank Conc. (mg/kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	0.7	0.7	0.0%	0 - 30%
Diesel Range C10 - C28	4.5	4.4	2.2%	0 - 30%

Spike Conc. (mg/kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	0.7	250	251	100.0%	75 - 125%
Diesel Range C10 - C28	4.5	250	254	99.6%	75 - 125%

ND - Parameter not detected at the stated detection limit

References Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996

Comments QA/QC for Samples 41580, 41582 - 41584 and 41586.

Christine M. Woelke
Analyst

Blair S. Vail
Review

ENVIROTECH LABS**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW****CATION / ANION ANALYSIS**

Client	McElvain Oil & Gas	Project #	06039-003
Sample ID	Reserve Pit	Date Reported	05-21-07
Laboratory Number	41585	Date Sampled	05-17-07
Chain of Custody	2685	Date Received	05-17-07
Sample Matrix	Water	Date Extracted	N/A
Preservative	Cool	Date Analyzed	05-18-07
Condition	Cool & Intact		

Parameter	Analytical Result	Units
pH	7.64	su
Conductivity @ 25° C	7,950	umhos/cm
Total Dissolved Solids @ 180C	4,510	mg/L
Total Dissolved Solids (Calc)	4,110	mg/L
SAR	11.9	ratio
Total Alkalinity as CaCO ₃	772	mg/L
Total Hardness as CaCO ₃	736	mg/L

Bicarbonate as HCO ₃	772	mg/L	12.65	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.6	mg/L	0.01	meq/L
Nitrite Nitrogen	0.011	mg/L	0.00	meq/L
Chloride	1,870	mg/L	52.75	meq/L
Fluoride	0.92	mg/L	0.05	meq/L
Phosphate	2.2	mg/L	0.07	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	0.404	mg/L	0.01	meq/L
Calcium	294	mg/L	14.67	meq/L
Magnesium	<0.1	mg/L	0.00	meq/L
Potassium	733	mg/L	18.75	meq/L
Sodium	738	mg/L	32.10	meq/L

Cations	65.52	meq/L
Anions	65.53	meq/L

Cation/Anion Difference	0.02%
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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: Amacker #1.

Christine M. Wieden
Analyst

Blair D. Smith
Review

2685

Sample Receipt			
	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		