P.O. Box 1980, House, NM DEPLETACION RIGAS INSPECTOR

State of New Mexico Energy, Minerals and Natural Resources Department

APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

ZU

RANKING SCORE (TOTAL POINTS):

SUBMIT 1 COPY TO

Drawer DD, Artesia, NM 88211 \_atrice/\II 3 1999 1000 Rio Brazos Rd, Aztes, NM 87410

#### OIL CONSERVATION DIVISION P.O. Box 2088

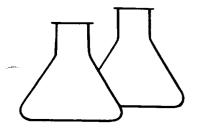
Santa Fe, New Mexico 87504-2088

### PIT REMEDIATION AND CLOSURE REPORT

C4514 Telephone: (505) - 326-9200 Operator: Amoco Production Company Address: 200 Amoco Court, Farmington, New Mexico 87401 Pacility Or: LEFKOVITZ 6C Well Name Location: Unit or Qtr/Qtr Sec A Sec TZ90 R 10W County 5AD JUAD Pit Type: Separator\_\_\_ Dehydrator\_\_\_ Other\_&Low\_\_ Land Type: BLM\_\_, State \_\_, Fee \_\_\_, Other\_\_ Com. A6mT. length 80', width 60', depth 37' it Location: Pit dimensions: (Attach diagram) Reference: wellhead X , other Footage from reference: \_\_ 240 Direction from reference:  $\geq 0$  Degrees  $\times$  East North West South imesLess than 50 feet (20 points) Depth To Ground Water: (10 points) (Vertical distance from 50 feet to 99 feet Greater than 100 feet (0 Points) 75 contaminants to seasonal high water elevation of ground water) Yes (20 points) Wellhead Protection Area: No (0 points) (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources) Less than 200 feet (20 points) istance To Surface Water: 200 feet to 1000 feet (10 points) (Horizontal distance to perennial Greater than 1000 feet (0 points) lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

		Date Completed: 3/16/94
Date Remediation St		,
Remediation Method: (Check all appropriate		Approx. cubic yards <u>6800</u>
sections)	Landfarmed $\underline{\times}$	Insitu Bioremediation
	Other	
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)		ite
General Description	Of Remedial Action:	
·		
Ground Water Encoun	tered: No	Yes X Depth 37
Final Pit: Closure Sampling: (if multiple samples,	Sample location Ref	FER TO CLOSURE VERIFICATION " SHEET
attach sample results and diagram of sample	Sample depth	
locations and depths)	Sample date	Sample time
	Sample Results	<del></del>
	Benzene(ppm)	
	_	
	Total BTEX(ppm	n)
	Total BTEX(ppm	n)
	Total BTEX(ppm	n)
Ground Water Sample	Total BTEX(ppm Field headspace	n)
-	Total BTEX(ppm Field headspace TPH Yes No	n)

	<del></del>			DOFFICIA		
			ENV	ROTECH	Inc.	C4514
		579	96 US HWY.	64, FARMING	STON, NM 87401	
=====			(50	5) 632-061	5 ————————————————————————————————————	coer 3431
	ELD REPO			VERIFIC.	ATION	JOB No:
LOCATION:_ SEC: 25	TWP 29 A RN	G JOW BY	WELL: &	C OD: A	PELU NE 14 (A)	DATE STARTED: 3/16/94
CONTRACTO EQUIPMENT		RACKHOE	V€Z	1.57HM E CHC:	MM PIT: BLOOK	DATE FINISHED: 3/14/94
						ENVIRONMENTAL NV
SOIL REME	DIATION: QI	UANTITY: _	80×60	×371		
	DISPOSAL I	ND USE: _	LANDFAR RANGI		SITE	
SURFACE (	CONDITIONS:	<u> </u>	(SEE SITE	ASSESSW	KNT FIELD REG	inkt
FIELD NOTE	FS & REMAR	VS. DIT			0	
I DEL LII LE L	GROUNDWATER ATER SOURCE	: 6 30	CATED APP	ROXIMATELY	YARDS _	S 20°€ FROM WELLHEAD.
NEAREST SL	JRFACE WATE	R: > 2 006 °	·			
La	B SAMPLES					
,	\$ @ KI	BTEX (80	,,,)			
	3e 32'	TPH (418 N	BTEX (	8020)		
· <del>-</del> ·	_					
	SAMPLE I.D.	LAB No:	WEIGHT (a)	1 CALCULAT	DILUTION READING	2010
• -			(97		DICOTION READING	ALC. ppm
SCALE		<del></del>				
_ <del></del> _	FEET	N		0.5.0		
PIT	' PERIME	ETER	ਸ਼ਕ	OVM SULTS	PIT	PROFILE A'
			SAMPLE	FIELD HEADSPACE PIO (ppm)		PROFILE A
		<del></del>	De 31'	910 (ppm) 52.7	اعبيد	_ 60'
_ <i> (</i>	0		(3)@ ₹3 <sup>1</sup>	789	SWREAME	
_   , \	(A)		De301	3.9	E VI	/ =
- 80 A	( Grown				F 7	
	WATER				37'\	
- \	<b>O</b>	9 ( :				☞ →
_	(	SHILE.			F 7	
<del>-</del>	SHELF					GW SURFACE
_		/ :	7			
<del>-</del>	Jac S	-	<b>_</b>		-	
	11119	<u>! !  </u>     [				
TRAVEL NOTE	S: CALLOUT:	3 16 (94	ONS	ITE: 3/14	4	
		<del>-</del>		<del></del>		



5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615 • FAX: (505) 632-1865

#### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	3 @ 32′	Date Reported:	03-18-94
Laboratory Number:	7061	Date Sampled:	03-16-94
Sample Matrix:	Soil	Date Received:	03-16-94
Preservative:	Cool	Date Extracted:	03-18-94
Condition:	Cool & Intact	Date Analyzed:	03-18-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Limit (ug/Kg)
Benzene	ND	19.8
Toluene	124	49.5
Ethylbenzene	. 445	19.8
p,m-Xylene	6,300	29.7
o-Xylene	1,620	19.8

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	~	
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

Method:

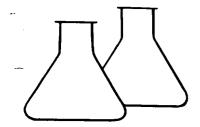
Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Lefkovitz GC B1 Blow Pit C4514

Mu A. (Yewer Analyst Review Young



5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615 • FAX: (505) 632-1865

# EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Amoco Project #: 92140 Sample ID: 3 @ 32' Date Sampled: 03-16-94 Laboratory Number: 7061 Date Received: 03-16-94 Sample Matrix: Soil Date Analyzed: 03-27-94 Preservative: Cool Date Reported: 03-27-94 Condition: Cool & Intact Analysis Needed: TPH

Parameter Concentration Limit

(mg/kg) (mg/kg)

Total Petroleum

Hydrocarbons 1,110 10.0

ND = Parameter not detected at the stated detection limit. N/A = Not applicable

Method:

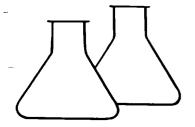
Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and

Waste, USEPA Storet No.4551, 1978

Comments: Lefkovitz GC Bl Blow Pit C4514

Tony Tristano Analyst

Review Young



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#### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ GW (37')	Date Reported:	03-18-94
Laboratory Number:	7062	Date Sampled:	03-16-94
Sample Matrix:	Water	Date Received:	03-16-94
Preservative:	HgCl and Cool	Date Analyzed:	03-18-94
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	148	1.0
Toluene	570	2.5
Ethylbenzene	83	1.0
p,m-Xylene	1,410	1.5
o-Xylene	245	1.0

SURROGATE	RECOVERIES:	Parameter	Recovery	•
		Trifluorotoluene	97	કૃ
		Bromofluorobenzene	99	o,

Method:

Analyst

Method 5030A, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Lefkovitz GC B1 Blow Pit C4514

Revier

111211	4/01/		Remarks							Date Time	3-11-94 1309			
		ANALYSIS/PARAMETERS		No. o Sontain (373 (373 (373	\ \ \ \	> 2				Received by (Signature)	ele- d. Greunen	Received by: (Signature)	Received by: (Signature)	NC. 3014 87401
CHAIN OF CUSTODY RECORD	BLOW PIT	60 81		Sample Matrix	7105	WATER				Time	126/14	Received	Received	<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615
ᇴ	Project Location	LEFKOVITZ	Chain of Custody Tape No.	Lab Number	7061	7007					3///8			
				Sample Time	1040	5001								
		92140	In the second	Sample Date	3/16/94	3/16/94				(0)	3	0	-	•
	Client/Project Name		Sampler: (Signature)	Sample No./ Identification	(3) @ 32,	SEGW(371)				Relinquished by: (Signature)	Relinquished by: (Signature)		Relinquished by: (Signature)	

# AMOCO GROUNDWATER MONITOR WELL LABORATORY RESULTS SUBMITTED BY BLAGG ENGINEERING, INC.

LEFKOVITZ GC B # 1 - BLOW PIT UNIT A, SEC. 25, T29N, R10W

REVISED DATE: JANUARY 13, 1997 FILENAME: (LE-2Q-96.WK3) NJV

		<del>,</del> .						BTE	X EPA MET	HOD 8020 (	PPB)
	MONITOR	D.T.W.	T.D.	TDS	COND.	рΗ	PRODUCT			Ethyl	Total
DATE	WELL No:	(ft)	(ft)	mg/L	umhos		(in)	Benzene	Toluene	Benzene	Xylene
				-							
11-Jun-96	MW #1	30.98	35.39	4440	3400	6.9		ND	ND	ND	1.09
11-Jun-96 11-Jun-96		30.98	35.39 35.39	4440 5900	3400 4800	6.9		ND ND	ND ND	ND ND	1.09 ND

# GENERAL WATER QUALITY AMOCO PRODUCTION COMPANY LEFKOVITZ GC B # 1

SAMPLE DATE: JUNE 11, 1996

	PARAMETERS	MW # 1	MW # 2	MW # 3	Units
GENERAL	LAB pH	7.3	7.4	7.3	S. U.
	LAB CONDUCTIVITY				
	(25 DEG. CELCIUS)	5,920	8,410	6,210	umhos cm
	TOTAL DISSOLVED SOLIDS				
	(180 DEG. CELCIUS)	4,440	5,900	4,420	mg/L
	TOTAL DISSOLVED SOLIDS				
	(CALCULATED)	4,130	5,880	4,190	mg/L
ANIONS	TOTAL ALKALINITY AS CaCO3	215	287	239	mg/L
	BICARBONATE ALKALINITY (AS CaCO3)	215	287	239	mg/L
	CARBONATE ALKALINITY (AS CaCO3)	NA	NA	NA	mg / L
	HYDROXIDE ALKALINITY (AS CaCO3)	NA	NA	NA	mg/L
	CHLORIDE	20.0	42.5	90.0	mg / L
	SULFATE	2,770	3,670	2,720	mg / L
	NITRATE + NITRITE - N	NA	NA	NA	
	NITRATE - N	NA	NA	NA	
	NITRITE - N	NA	NA	NA	
CATIONS	TOTAL HARDNESS AS CaCO3	1,440	1,300	1,410	mg/L
	CALCIUM	550	435	508	mg/L
	MAGNESIUM	16.9	42	35.1	mg/L
	POTASSIUM	6.00	6.00	6.00	mg/L
	SODIUM	640	1,500	680	mg/L
ATA VALIDATION					ACCE PTANCE LEVEL
	CATION/ANION DIFFERENCE	4.71	4.67	4.98	+/- 5%
	TDS (180):TDS (CALCULATED)	1.1	1.0	1.1	1.0 - 1.2

## FIGURE 1

WELL HEAD

PROD

SEP

TANK PIT

**₽** MW #3

MW #2 �

**⊕** MW #1

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND ARE NOT TO SCALE.

50 100 FT.

AMOCO PRODUCTION COMPANY

LEFKOVITZ GC B1

NE/4 NE/4 SEC. 25, T29N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC. consulting petroleum / reclamation services
P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW INSTALL.

DRAWN BY: NUV

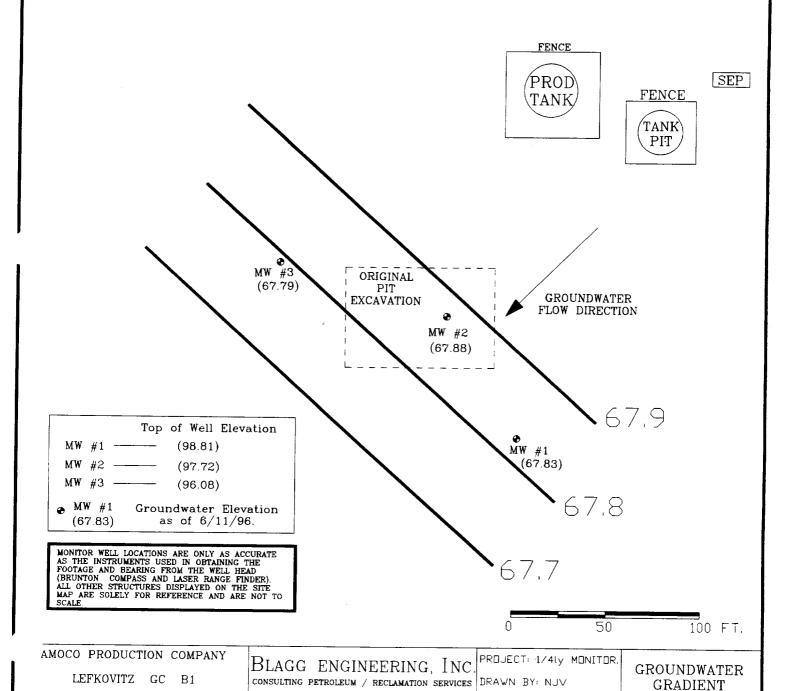
FILENAME: LEFKOV-B1

SITE MAP 6/96



# FIGURE 2 (2nd 1/4, 1996)

WELL HEAD



P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

NE/4 NE/4 SEC. 25, T29N, R10W

SAN JUAN COUNTY, NEW MEXICO

MAP

6/96

FILENAME: LEFKOV-B1

REVISED: 2/10/97 NJV

# BLAGG ENGINEERING, Inc.

P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199

BORE /	TEST HOLE REPORT	BORING # BH - 1
CLIENT: CONTRACTOR: EQUIPMENT USED:	LEFKOVITZ GC B # 1  AMOCO PRODUCTION COMPANY  BLAGG ENGINEERING, INC.  MOBILE DRILL RIG (EARTHPROBE)  S26E, 312 FEET FROM WELL HEAD.	MW #
DEPTH & LITHOLOGY MW FEET E INTERVAL SCHEMATIC	FIELD CLASSIFICATION AND REMA	ARKS
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 10 52 44 46 48 10 52 44 46 48 10 52 44 46 48 10 52 44 46 48 10 52 44 16 16 16 16 16 16 16 16 16 16 16 16 16	DARK YELLOWISH BROWN SAND TO SILTY SAND CONTINUOUS BORING, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARE OBSERVED (0.0 - 35.0 FT. INTERVAL).  GW DEPTH ON 6/11/96 = 30.98 FT. (APPROX.)  NUTES: - SAND TO SILTY SAND.  TOS - TOP OF SCREEN FROM GROUND SURF TD - TOTAL DEPTH OF MONITOR WELL FROM GW - GROUND WATER.	THROUGHOUT ENTIRE ENT HYDROCARBON ODOR  ACE. M GROUND SURFACE.
	DRAWING: LEF-B1-1	DATE: 1/28/97   DWN BY: NJV

# BLAGG ENGINEERING, Inc.

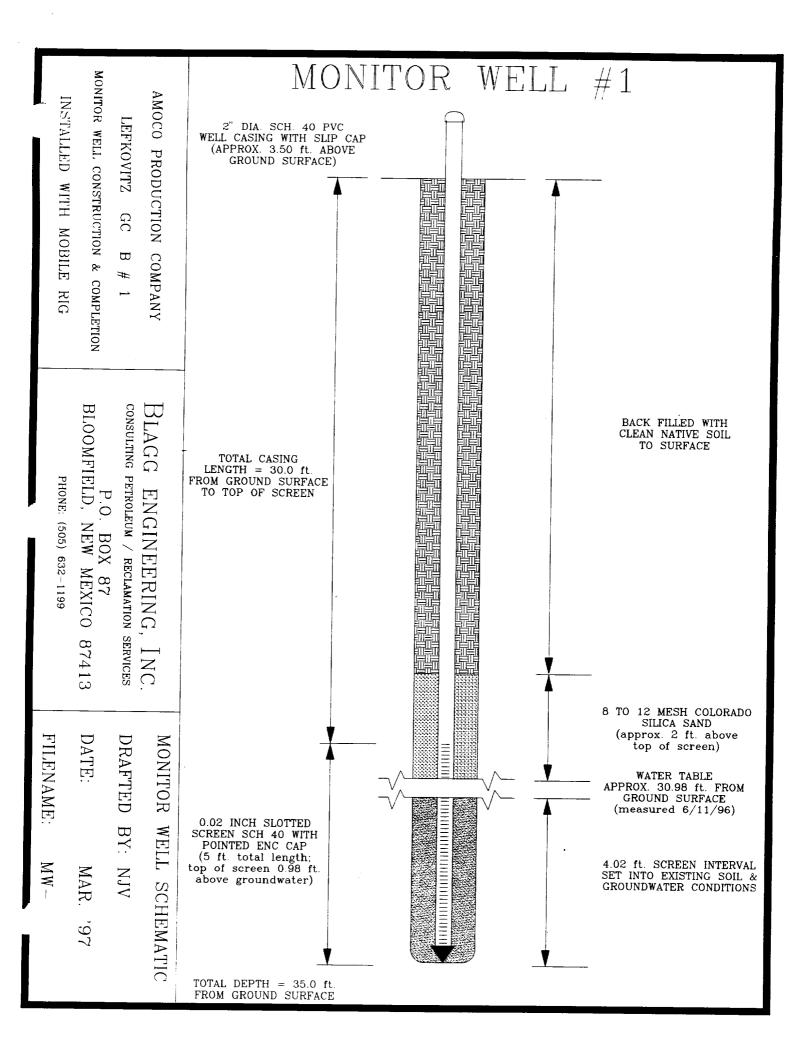
P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199

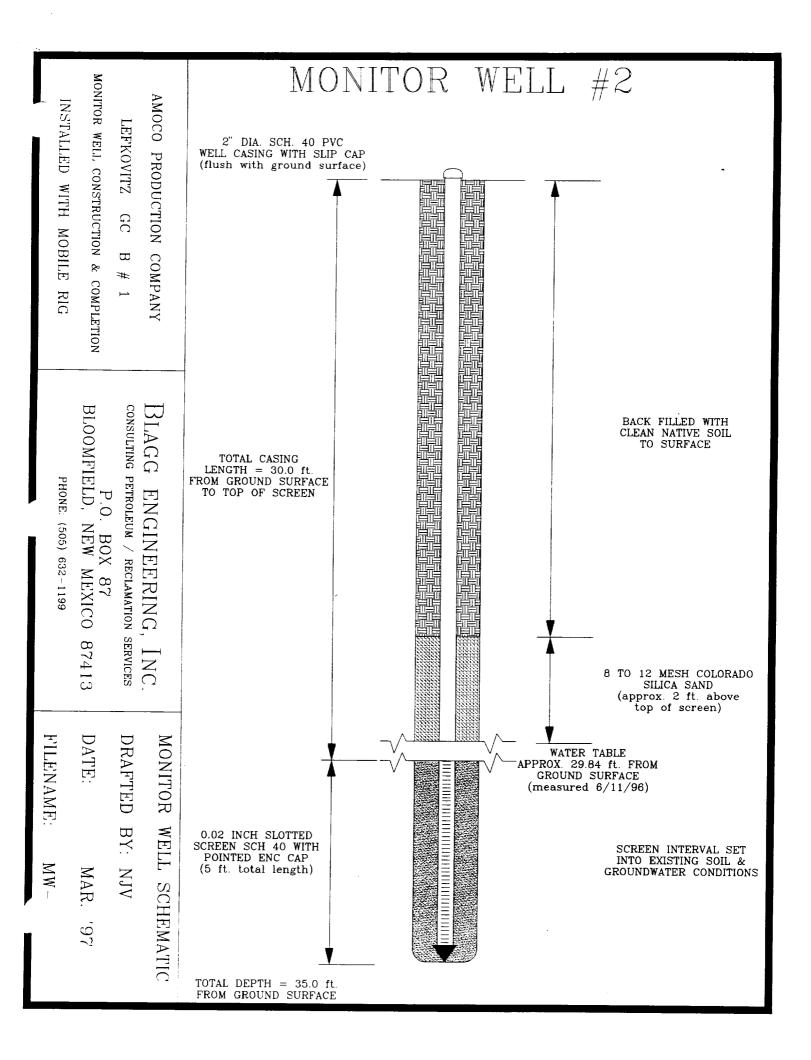
BORE / TEST HOLE REPORT    COLORATION NAME:   LEFKOVITZ GC B # 1		
CLIENT: CONTRACTOR: EQUIPMENT USED: BORING LOCATION:  SET   Section   Sectio	·	EPORT         BORING #         BH - 2           MW #         2
CONTRACTOR EQUIPMENT USED: BORING LOCATION:  S25E. 237 FEET FROM WELL HEAD.  PREPARED BY NJV  S25E. 237 FEET FROM WELL HEAD.  PREPARED BY NJV  FIELD CLASSIFICATION AND REMARKS  FIELD CLASSIFICATION AND REMARKS  TOP OF CASING FLUSH WITH GROUND SURFACE.  DARK YELLOWISH BROWN SAND TO SILTY SAND. NON COHESIVE SLIGHTLY MOIST. FIRM NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 26.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST. FIRM NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST. FIRM NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND. NON COHESIVE, SATURATED. FIRM NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND. NON COHESIVE, SATURATED. FIRM NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND. NON COHESIVE, SATURATED. FIRM NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  TO SECONDARY SECONDARY OF THE PROPERTY OF		
BORING LOCATION:  SZSE, 237 FEET FROM WELL HEAD.  DEPTH   SUPERIOR   MARKS   M		
BORING LOCATION: S25E. 237 FEET FROM WELL HEAD.  PREPARED BY NIV  SET UTHOLOGY MP INTERNAL SCHEMATIC  CHAIND SUFFACE  TOP OF CASING FLUSH WITH GROUND SURFACE  TOP OF CASING FLUSH WITH GROUND SURFACE  TOP OF CASING FLUSH WITH GROUND SURFACE  DARK YELLOWISH BROWN SAID TO SILTY SAND. NON COHESIVE. SLIGHTLY MOIST. FIRM NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 25.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC. SLIGHTLY MOIST. FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SAID TO SILTY SAND. NON COHESIVE. SATURATED. HITM. NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 30.0 FT. INTERVAL).  ON TOS SOLVE TO PLASTIC. SLIGHTLY MOIST. FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 30.0 FT. INTERVAL).  ON TOS SOLVE TO PLASTIC. SLIGHTLY MOIST. FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 30.0 FT. INTERVAL).  NUTES: STIP CLAY TO CLAY.  TOS - TOP OF SCREEN FROM GROUND SURFACE.  TO - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  TO - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  TO - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  TO - GROUND WATER		
DEPTH S LITHCLOON NW SCHEMATIC FIELD CLASSIFICATION AND REMARKS  TOP OF CASING FLUSH WITH GROUND SURFACE.  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODDR OBSERVED (0.0 - 25.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIPF, NO APPARENT HYDROCARBON ODDR OBSERVED (25.0 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIPF, NO APPARENT HYDROCARBON ODDR OBSERVED (26.5 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODDR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODDR OBSERVED (26.5 - 35.0 FT. INTERVAL).  SULTY CLAY TO CLAY.  TOS - TOP OF SCREEN FROM GROUND SURFACE.  TO - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  GW - GROUND WATER		D.D.
DARK YELLOWISH BROWN SAND TO SILTY SAND. NON COHESIVE SLIGHTLY MOIST. FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 26.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 26.5 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  TO SET OF THE PROPERTY OF THE		
DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 26.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, PIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  GW DEPTH ON 6/11/96 = 29.84 FT. (APPOX.)  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  MILTES: SAND TO SILTY SAND.  SILTY CLAY TO CLAY.  TOS - TOP OF SCREEN FROM GROUND SURFACE.  TO - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  GW - GROUND WATER	GROUND SURFACE	
DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 25.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  CW DEPTH ON 6/11/96 = 29.84 FT. (APPROX.)  DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SILTY CLAY TO CLAY. COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND. NON COHESIVE SATURATED.  TO TO TO TH	TOP OF CASING FLUSH WIT	H GROUND SURFACE.
DARK YELLOWISH BROWN SILTY CLAY TO CLAY, COHESIVE TO PLASTIC, SLIGHTLY MOIST, FIRM TO VERY STIFF, NO APPARENT HYDROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  GW DEPTH ON 6/11/96 = 29.84 FT. (APPROX.)  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR OBSERVED (26.5 - 35.0 FT. INTERVAL).  NUTES: SAND TO SILTY SAND.  SILTY CLAY TO CLAY.  TOS - TOP OF SCREEN FROM GROUND SURFACE.  TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  GW - GROUND WATER.	DARK YELLOWISH BROWN SAND TO FIRM, NO APPARENT HYDROCARBON  12 14 16 18 20	SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, ODOR OBSERVED (0.0 - 25.0 FT. INTERVAL).
NOTES: SAND TO SILTY SAND.  SILTY CLAY TO CLAY.  TOS - TOP OF SCREEN FROM GROUND SURFACE.  TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  GW - GROUND WATER.  50 - 52 - 54 - 56 - 58 - 58	DARK YELLOWISH BROWN SILTY CLAY TO VERY STIFF, NO APPARENT HYDI  30.0  32  DARK YELLOWISH BROWN SILTY CLAY TO VERY STIFF, NO APPARENT HYDI  DARK YELLOWISH BROWN SAND TO FIRM, NO APPARENT HYDROCARBON  35.0	ROCARBON ODOR OBSERVED (25.0 - 26.5 FT. INTERVAL).  34 FT. (APPROX.)  SILTY SAND NON COHESIVE SATURATED
TOS - TOP OF SCREEN FROM GROUND SURFACE.  TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  GW - GROUND WATER.  50 - 58 - 58 - 58 - 58 - 58 - 58 - 58 -		SILTY SAND.
TOS - TOP OF SCREEN FROM GROUND SURFACE.  TD - TOTAL DEPTH OF MONITOR WELL FROM GROUND SURFACE.  GW - GROUND WATER.  50 - 52 - 54 - 56 - 58 - 58 - 58 - 58 - 58 - 58 - 58		AY TO CLAY.
46 - GW - GROUND WATER.  50 - 52 - 54 - 56 - 58 - 58 - 58 - 56 - 58 - 58 - 58	TOS - TOP OF SO	
48 - 50 - 52 - 54 - 56 - 58 - 58 - 58 - 58 - 58 - 58 - 58	I I I I I I I I I I I I I I I I I I I	
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52 DRAWING: LEF-B1-2 DATE: 1/28/97 DWN BY: NJV		i
DRAWING: LEF-B1-2 DATE: 1/28/97 DWN BY: NJV		
	94 T 1	DRAWING: LEF-B1-2 DATE: 1/28/97 DWN BY: NJV

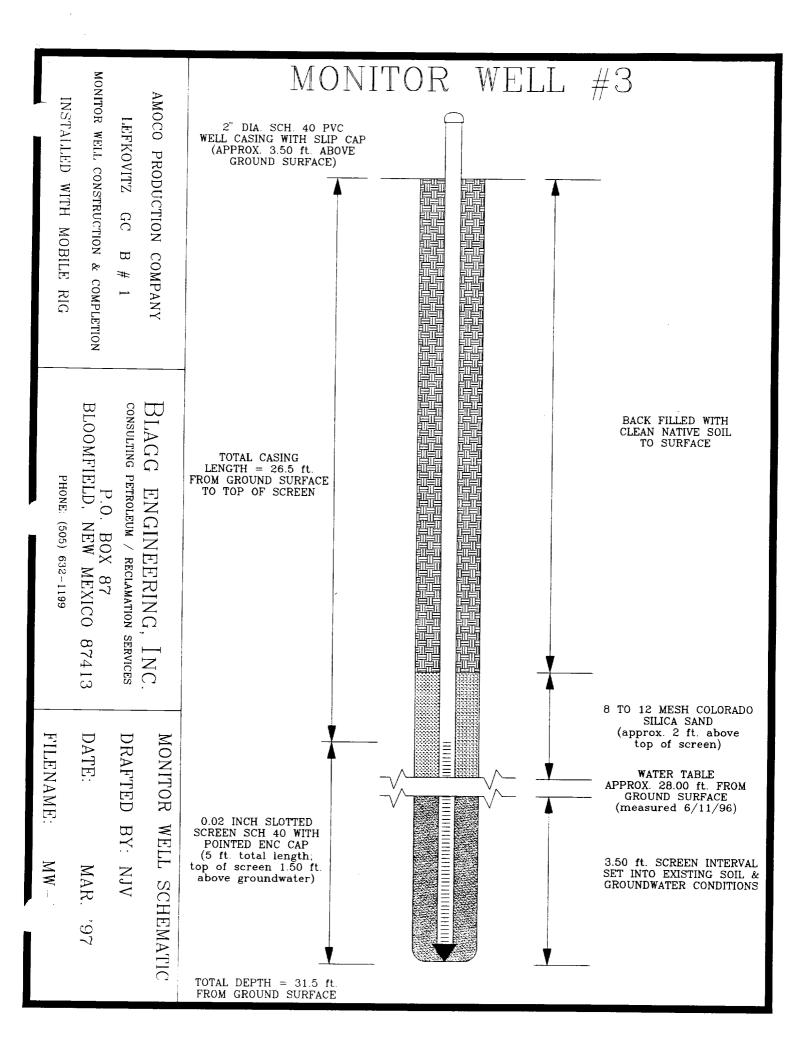
# BLAGG ENGINEERING, Inc.

P.O. BOX 87 BLOOMFIELD, NM 87413 (505) 632-1199

BORE /	TEST HOLE REPORT	BORING # <u>BH - 3</u> MW # <u>3</u>
LOCATION NAME:	LEFKOVITZ GC B # 1	PAGE # 3
CLIENT:	AMOCO PRODUCTION COMPANY	DATE STARTED <u>5/31/96</u>
CONTRACTOR:	BLAGG ENGINEERING, INC.	DATE FINISHED <u>5/31/96</u>
EQUIPMENT USED:	MOBILE DRILL RIG ( EARTHPROBE )	OPERATOR JCB
BORING LOCATION:	S4E, 186 FEET FROM WELL HEAD.	PREPARED BY NJV
DEPTH & LITHOLOGY MW SCHEMATI	GROUND SORFACE	
	TOP OF CASING APPROX. 3.50 FT. ABOVE GROUND S	SURFACE.
2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 31.5 34 36 38 40 42	DARK YELLOWISH BROWN SAND TO SILTY SAND CONTINUOUS BORING, NON COHESIVE, SLIGHTLY MOIST TO SATURATED (NO APPARENT HYDROCARBON ODOR OBSERVED (0.0 - 31.4)  GW DEPTH ON 6/11/96 = 28.00 FT. (APPROX.)	US THROUGHOUT ENTIRE WATER TABLE), FIRM, 5 FT. INTERVAL).
44		
50 -		
54 -		
58 -		
62 -		
	DRAWING: LEF-B1-3	DATE: 1/28/97 DWN BY: NJV







#### BLAGG ENGINEERING, INC. MONITOR WELL SAMPLING DATA

CLIENT: AMOCO PRODUCTION CO.

CHAIN-OF-CUSTODY #: 2488

LEFKOVITZ GC B # 1 - BLOW PIT

LABORATORY (S) USED : ANAITAS

UNIT A, SEC. 25, T29N, R10W

Date: June 11, 1996

SAMPLER: REO

Filename: 06-11-96.WK3

PROJECT MANAGER:

REO

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	VOLUME	FREE
#	ELEV.	ELEV.	WATER	DEPTH	TIME			PURGED	PRODUCT
	(ft)	(ft)	(ft)	(ft)			(umhos)	(gal.)	(ft)
1	98.81	67.83	30.98	35.39	1015	6.9	3,400	2.00	_
2	97.72	67.88	29.84	35.39	1040	6.9	4,800	2.00	_
3	96.08	67.79	28.29	31.81	1110	7.0	3,600	1.00	· _

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW  $r = (1/12) \, \text{ft.}$   $h = 1 \, \text{ft.}$ ) (i.e. 4" MW  $r = (2/12) \, \text{ft.}$   $h = 1 \, \text{ft.}$ )

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3/4" teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments	<i>)</i>	HOLE	Well	ulametei	Н	HŲL	Stariuaru	 <u> •</u>



#### **PURGEABLE AROMATICS**

#### Blagg Engineering, Inc.

Project ID: Sample ID:

Lefkovitz GC B1

MW - 1

Lab ID:

3902

Sample Matrix: Preservative:

Condition:

Water

Cool, HgCl<sub>2</sub> Intact

Report Date: 06/24/96 Date Sampled: 06/11/96 Date Received: 06/11/96

Date Analyzed:

06/21/96

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	1.09	1.00
o-Xylene	ND	0.50

I Total BTEX 4 /	
	<b>W</b>
TOWN DIEN THE	

### ND - Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate Trifluorotoluene Percent Recovery 96

**Acceptance Limits** 

Bromofluorobenzene

98

88 - 110% 86 - 115%

Reference:

Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209,

Oct. 1984.

Comments:



### **PURGEABLE AROMATICS**

#### Blagg Engineering, Inc.

Report Date:

Date Sampled:

Date Received:

Date Analyzed:

06/24/96

06/11/96

06/11/96

06/21/96

Project ID:

Lefkovitz GC B1

Sample ID:

MW - 2

Lab ID:

3903 Water

Sample Matrix: Preservative:

Cool, HgCl<sub>2</sub>

Condition:

Intact

Target Analyte	Concentration (ug/L)	Detection Limit (ug/L)
Benzene	ND	0.50
Toluene	ND	0.50
Ethylbenzene .	ND	0.50
m,p-Xylenes	· ND	1.00
o-Xylene	ND	0.50

Total BTEX

ND - Analyte not detected at the stated detection limit.

**Quality Control:** 

<u>Surrogate</u>

Percent Recovery

Acceptance Limits

Trifluorotoluene Bromofluorobenzene

94 97

88 - 110% 86 - 115%

Reference:

Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209,

Oct. 1984.

Comments:

Analyst Ourna

Review



#### **PURGEABLE AROMATICS**

#### Blagg Engineering, Inc.

Project ID:

Lefkovitz GC B1

Sample ID:

MW- 3

Lab ID: Sample Matrix: 3904 Water

Preservative:

Cool, HgCl<sub>2</sub>

Condition:

Intact

Report Date:

06/24/96

Date Sampled: Date Received:

06/11/96 06/11/96

Date Analyzed:

06/21/96

Target Analyte	Concentration (ug/L)	Detection Limit: (ug/L)
Benzene	ND	0.50
Toluene	2.63	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	1.00
o-Xylene	ND	0.50

	IRTEY	

### ND - Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate

Percent Recovery

Acceptance Limits

Trifluorotoluene Bromofluorobenzene

91 95

88 - 110% 86 - 115%

Deniela

Reference:

Method 602.2, Purgeable Aromatics; Federal Register, Vol. 49, No. 209,

Oct. 1984.

Comments:

Review



### **General Water Quality** Blagg Engineering, Inc.

Project ID:

Lefkovitz GC B1

Sample ID:

MW - 1

Laboratory ID:

3902 Water

Sample Matrix:

Date Reported: Date Sampled:

06/24/96 06/11/96

Time Sampled:

10:15

Date Received:

06/11/96

Parameter		Analytical Result	Units
General	Lab pH	7.3	S.U.
	Lab Conductivity @ 25° C	5,920	μmhos/cm
	Total Dissolved Solids @ 180°C	4,440	mg/L
	Total Dissolved Solids (Calc)	4,130	mg/L
Anions	Total Alkalinity as CaCO <sub>3</sub>	215	mg/L
	Bicarbonate Alkalinity as CaCO <sub>3</sub>	215	mg/L
	Carbonate Alkalinity as CaCO₃	NA	mg/L
	Hydroxide Alkalinity as CaCO <sub>3</sub>	NA	mg/L
	Chloride	20.0	mg/L
	Sulfate	2,770	mg/L
	Nitrate + Nitrite - N	NA	Ü
-	Nitrate - N	NA	
	Nitrite - N	NA	
Cations	Total Hardness as CaCO₃	1,440	mg/L
	Calcium	550	mg/L
•	Magnesium	16.9	mg/L
	Potassium	6.00	mg/L
	Sodium	640	mg/L
ata Validation			Assessed
	Cation/Anion Difference	4.71	Acceptance Level +/- 5 %
	TDS (180):TDS (calculated)	1.1	1.0 - 1.2
. •		1	

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 Wastewater, 18th ed., 1992.



# General Water Quality Blagg Engineering, Inc.

Project ID:

Lefkovitz GC B1

Sample ID:

MW - 2

Laboratory ID:

3903

Sample Matrix:

Water

Date Reported:

06/24/96

Date Sampled:

06/11/96

Time Sampled:

10:40

Date Received:

06/11/96

DHConductivity @ 25° C	7.4 8,410 5,900	S.U.
Conductivity @ 25° C  Dissolved Solids @ 180°C		
Dissolved Solids @ 180°C  Dissolved Solids (Calc)		μmhos/cm
Dissolved Solids (Calc)		mg/L
	5,880	mg/L
Alkalinity as CaCO <sub>3</sub>	287	mg/L
carbonate Alkalinity as CaCO <sub>3</sub>	287	mg/L
arbonate Alkalinity as CaCO <sub>3</sub>	NA	mg/L
droxide Alkalinity as CaCO <sub>3</sub>	NA	mg/L
de	42.5	mg/L
e	3,670	mg/L
e + Nitrite - N	NA	mg/L
rate - N	NA	•
rite - N	NA	
Hardness as CaCO₃	1,300	mg/L
lcium	453	mg/L
gnesium	42.3	mg/L
sium	6.00	mg/L
n	1,500	mg/L
•		Acceptance Leve
/Anion Difference		+/- 5 %
180):TDS (calculated)	1.0	1.0 - 1.2
180	):TDS (calculated)	ion Difference

Standard Methods For The Examination Of Water And Wastewater, 18th ed., 1992.

Review



### **General Water Quality** Blagg Engineering, Inc.

Project ID:

Lefkovitz GC B1

Sample ID:

MW - 3

Laboratory ID:

3904

Sample Matrix:

Water

Date Reported:

06/24/96

Date Sampled:

06/11/96

Time Sampled:

11:10

Date Received:

06/11/96

Parameter		Analytical Result	Units
General	Lab pH	7.3	S.U.
	Lab Conductivity @ 25° C	6,210	μmhos/cm
	Total Dissolved Solids @ 180°C	4,420	'mg/L
	Total Dissolved Solids (Calc)	4,190	mg/L
Anions	Total Alkalinity as CaCO <sub>3</sub>	239	-
	Bicarbonate Alkalinity as CaCO <sub>3</sub>		mg/L
	Carbonate Alkalinity as CaCO <sub>3</sub>	239	mg/L
		NA	mg/L
	Hydroxide Alkalinity as CaCO <sub>3</sub>	NA	mg/L
	Chloride	90.0	mg/L
	Sulfate	2,720	mg/L
•	Nitrate + Nitrite - N	NA	. •
	Nitrate - N	NA	
	Nitrite - N	NA	-
Cations	Total Hardness as CaCO <sub>3</sub>	1,410	mg/L
	Calcium	508	mg/L
	Magnesium	35.1	mg/L
	Potassium	6.00	mg/L
	Sodium	680	mg/L
ata Validation			Accordence Law
	Cation/Anion Difference		Acceptance Lev
	TDS (180):TDS (calculated)	4.98	+/- 5 %
	(100). 100 (calculated)	1.1	1.0 - 1.2

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 Wastewater, 18th ed., 1992.



June 24, 1996

Bob O'Neill Blagg Engineering, Inc. PO Box 87 Bloomfield, NM 87413

Dear Mr. O'Neill:

Enclosed are the results for the analysis of the samples received June 11, 1996. The samples were from the Lefkovitz GC B1 site. Analyses for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and general water quality parameters were performed on the samples, as per the accompanying chain of custody form.

Analysis was performed on the samples according to EPA Method 602, using a Hewlett-Packard 5890 gas chromatograph equipped with an OI Analytical purge and trap (model 4560) and a photoionization detector. Detectable levels of btex analytes were found in the samples, as reported.

Water parameters were determined for the samples according to the appropriate methodologies as outlined in <u>Standard Methods for the Examination of Water and Wastewater</u>, 18th edition, 1992.

Quality control reports appear at the end of the analytical package and can be identified by title. Should you have any questions regarding the analysis, feel free to call.

Sincerely,

Denise A. Bohemier

Lab Director

AN 1TAS ENVIRONMENTAL LABS

7 188

Please Fill Out Thoroughly. White/Yellow: Anaitas Pink: Client Page of COMMENTS Shaded areas for lab use only. METALS Other (specify): RCRA Metals TCLP (1311) RCRA Metals (Total) Priority Pollutants Relinquished By: Other (specify): Received By: WATER ANALYSES Oil and Grease Nutrients: NH4+ / NO2- / NO3- / TKN SO | SST | SQT :sbiloS **CHAIN OF CUSTODY** BOD / Fecal / Total Coliform 92-11-9 1430 Specific Anions (specify): Specific Cations (specify): Cation / Anion Relinquished By: Other (specify): Received By: TCLP Extraction RES Company: Polynuclear Aromatic Hydrocarbons (8100) Signature Company ORGANIC ANALYSES Base / Neutral / Acid GC/MS (625 / 8270) 91-11-9 Volatiles GC/MS (624 / 8240 / 8260) Herbicides (615 / 8150) <u>=</u> ١٩ Chlorinated Pesticides / PCBs (608 / 8080) (LE03 \ r.S03) eelitsloV AWQS Chlorinated Hydrocarbons (8010) BTEX/NTBE (602 / 8020) Sampled By: Required Turnaround Time (Prior Authorization Required for Rush) Received By: (ORව) enilossව R 53 BET Gasoline / Diesel (mod. 8015) Company: Company: Petroleum Hydrocarbons (418.1) Suntody Soule: Y / N / NA 632-1199 Sample Receipt 807 S. CARLTON • FARMINGTON, NM 87401 • (505) 326-2395 SAME Matrix 15 TO 3CA 66 2 8 Mo. Containers. Tocelved intact: Received Cold: 0401 5/0 0= Time しら 11-9 PROJECT MANAGER: Date LEF KOUTTE ٢ 5 0,230 Project Information Proj. Name: Auoco Anaitas Lab I.D.: Sample ID MW-2 Company: Address: とうと Company: . **2**5 Shipped Via: Address: Phone: Bill To: P. O. No: Fax: Proj. #:

- New -

### LEFKOVITZ GC B # 1 - Blow Pit Ne/4 Ne/4 Sec. 25, T29N, R10W

Site Assessment Date: September 14, 1992

(Documentation Included)

Pit closure Date: March 16, 1994

(Documentation Included)

Monitor Well Installation Date: May 31, 1996

Monitor Well Sampling Date: June 11, 1996

### **Groundwater Monitor Well Sampling Procedures:**

Groundwater samples were collected from site monitor wells following USEPA: SW-846 protocol. The samples were collected using new disposable bailers and placed in new laboratory supplied 40 ml glass vials with teflon septa caps. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per USEPA Method 8020. When applicable, additional groundwater was collected and place in laboratory supplied 250 or 500 ml plastic containers and analyzed for general water quality per USEPA Method 600/4-79-020. The samples were preserved cool (BTEX samples also preserved with mercuric chloride) and hand delivered to a qualified laboratory for testing. Waste generated during monitor well sampling and development was disposed of utilizing the separator tank pit located on the well site.

### Water Quality Information:

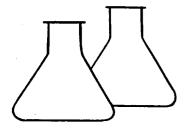
The BTEX results for all three (3) monitor wells during the June 11, 1996 sampling event were non detectable or below 25% of the New Mexico Water Quality Control Commission's allowable concentration for groundwater. The general water quality results revealed total dissolved solids within the blow pit area (MW #2) to be above the apparent background level (MW #1). However, the background level itself exceed the allowable concentration for domestic consumption. Groundwater from all monitor wells appear to be statistically equivalent for all general water quality parameters.

#### Summary and/or Recommendations:

Based on the enclosed documentation, the groundwater within the blow pit area appears to meet all the criteria for permanent closure. All aspects of the Amoco groundwater plan dated October 22, 1996 (approved by NMOCD with letter dated February 7, 1997) has been adhered to. Therefore, Amoco is requesting permanent closure status for this pit. Amoco acknowledges that it is not supplicating closure for the entire site.

### ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401 (505) 632-0615	847 /1842
FIELD REPORT: SITE ASSESSMENT	JOB No: 92140 PAGE No: of
PROJECT: PIT ASSESSMENTS & CLOSURE  CLIENT: AMOCO PRODUCTION COMPANY  CONTRACTOR: ENVIROTECH, INC.  EQUIPMENT USED: EXTENDAHOE  LOCATION LODGE COMPANY  Fed. LSE  Ale. SF-BIOGI	DATE STARTED: 9-14-92 DATE FINISHED: 9-15-92 ENVIRO. SPCLT: JW OPERATOR: RW ASSISTANT: TC
LOCATION: LSE: Lefkouitz Gas Con. B WELL: No.1 QD: SW 1/4 NE SEC: 25 TWP: 29 N RNG: 10W PM: NM CNTY: SJ ST: NM P	1/4 Gr IT: Blow
LAND USE: RIM	11. B/G00
SURFACE CONDITIONS: EARthen Pit Appear 3' deep	
FIELD NOTES & REMARKS: Pit is Located approx. 300' south head. T.1 Soil wis Stained for Black from surface to T. T.2 Soil is sandy Brown from surface to T.D. T.3 is sandy to T.D. Soil stailed smelling at approx. 9' down No SAMPLE INVENTORY:  SMPL INVENTORY:  SMPL INDORATORY  TYPE: INDUSTRY  DISTRIPTION SOIL TPH  T.3015 SOIL TPH-BTEX	D. of The Brown from surface discount for
TEST HOLE LOC TH#: _1 TH#: _2 TH#:	= :
SCALE 4	-   -
SITE DIAGRAM  5-  SW Soil Q2	
Surface B- Drainage - B- SW S	il 200 -
	1 214
Surface DRAINAGE	Planta Grading: P - Pearly, W - Well



5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615 • FAX: (505) 632-1865

#### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T1 @ 15'	Date Reported:	09-21-92
Laboratory Number:	2583	Date Sampled:	09-14-92
Sample Matrix:	Soil	<del>-</del> .	09-14-92
Preservative:	Cool	Date Analyzed:	09-16-92
Condition: Cool &	Intact	Analysis Needed:	

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	387	5.0

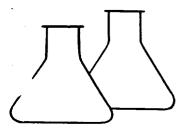
Method:

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

ND - Parameter not detected at the stated detection limit.

Comments: Lefkovitz Gas Com. B1 Blow Pit. 94514



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### EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	T3 @ 15'	Date Reported:	10-01-92
Laboratory Number:	3009	Date Sampled:	09-15-92
Sample Matrix:	Soil	Date Received:	09-15-92
Preservative:	Cool	Date Analyzed:	10-01-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter _	Concentration	Det. Limit
ralameter -	(mg/kg)	(mg/kg)
Total Petroleum		
Hydrocarbons	12.2	5.0

Method:

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

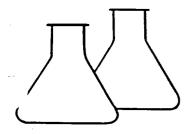
ND - Parameter not detected at the stated detection limit.

Comments: Lefkovitz Gas Com. B1 Blow Pit. 94514

Analyst

Review.

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#### EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client: Amoco		Project #:	92140
Sample ID: T3 @ 15'		Date Reported:	10-06-92
Laboratory Number:	3009	Date Sampled:	09-15-92
Sample Matrix:	Soil	Date Received:	09-15-92
Preservative:	Cool	Date Extracted:	10-01-92
Condition:	Cool & Intact	Date Analyzed:	10-03-92
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	29.2
Toluene	ND	58
Ethylbenzene	ND	29.2
p,m-Xylene	346	97
o-Xylene	186	48.6

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	105 %
	Bromfluorobenzene	100 %

Method:

Method 5030, Purge-and-Trap, Test Methods for

Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Lefkovitz Gas Com B No.1---Blow Pit---94514

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