

NM - 2

MONITORING REPORTS

YEAR(S):

1989 - 1978

B+E INC.
WORK ORDER # H89-06.126
KEYSTONE-HOUSTON

Keystone Environmental Resources
Analytical Division - Houston Facility
3911 Fondren Road
Houston, Texas 77063-5821
(713) 266-6800

Work Order: H89-06.126
Date Received: 24-JUN-1989
Project ID:
P.O.#:

B+E INC.
SOUTH Y P.O. BOX 756
CARLSBAD, NEW MEXICO 88220

Attention: VALERIE LEMON

SOIL samples were received into the Keystone Houston facility on 24-JUN-1989. Listed below are the assigned laboratory sample IDs and the parameters requested. In all correspondence regarding these samples please make reference to work order H89-06.126. This document confirms receipt of your samples. Please direct any modifications to the Sample Control Center at (713) 975-2727.

Keystone Sample ID	Client's Sample Name	Date of Collection	Number of Containers
H89-06.126-001	TROUGH	23-JUN-1989	3
H89-06.126-002	PITS	23-JUN-1989	3

Analysis ID	Parameter Description	Number of Analyses
AG	Silver	2
AS	Arsenic	2
BA	Barium	2
CD	Cadmium	2
CR	Chromium	2
DRY_WT	Dry Weight Factor	2
EP_TOX	EP Toxicity by Method 1310	2
EXT_8080SX	(Soil) Pesticide/PCB Extraction by EPA 8080	2
HG	Mercury	2
PB	Lead	2
PCB_SX	PCB's in soil/sludge	2
SE	Selenium	2

Notes:

2 SAMPLES RECEIVED INTACT.

Analysis ID	Parameter Description	Number of Analyses
VOA_HSL_SX	Volatiles (Hazardous Compound list)-Soil	2
VOA_PREP	Volatile Soil Preparation and Screen Prepar	2

Notes:

2 SAMPLES RECEIVED INTACT.

REPORT TO:
B+E Inc.
P.O. Box 756
South Y
Carlsbad, NM 88220

ATTENTION: Valerie Lemon

PROJECT ID:
P.O. NUMBER:

WORK ORDER: H89-06.126
DATE RECEIVED: 24-JUN-1989
DATE REPORTED: 18-JUL-1989

PREPARED BY:
Keystone Environmental Resources
3911 Fondren Road
Houston, Texas 77063-5821
(713) 266-6800

CERTIFIED BY : Mark Fullerton

Please call the above number if you have any questions regarding this Work Order. NOTE: All samples will be retained for 60 days. Unused soil and waste samples will be returned to you at no charge. Alternately, Keystone can make disposal arrangement for a fee.

Samples included in this report:

Keystone Sample ID	Client's Sample Name	Date Collected	Sample Matrix
H89-06.126-001	TROUGH	23-JUN-1989	SOIL
H89-06.126-002	PITS	23-JUN-1989	SOIL

Analyses and Descriptions referred to in this report.

Analysis ID	Parameter Description
AG	Silver
AS	Arsenic
BA	Barium
CD	Cadmium
CR	Chromium
DRY_WT	Dry Weight Factor
EP_TOX	EP Toxicity by Method 1310
EXT_8080SX	(Soil) Pesticide/PCB Extraction by EPA 8080
HG	Mercury
PB	Lead
PCB_SX	PCB's in soil/sludge
SE	Selenium
VOA_HSL_SX	Volatiles (Hazardous Compound list)-Soil
VOA_PREP	Volatile Soil Preparation and Screen Prepar

INST ID: 4000

KEYSTONE DC # --- 8
SAMPLE NUMBER: TROUGH

ORGANIC ANALYSIS DATA SHEET -

LABORATORY NAME: KEYSTONE ENV.
LAB SAMPLE ID NO.: 890612601
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: *CB*
PERCENT MOISTURE:

CASE NO.: --
INITIAL CALIBRATION DATE:
CONTRACT NO.: --
DATE SAMPLE RECEIVED: 06-24-89
PH:

VOLATILES

CONCENTRATION: LOW
DATE ANALYZED: 07/03/89

DATAFILE: 4U06126V01A
DILUTION FACTOR: 6.30

COMPOUND		DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C010	CHLOROMETHANE	63 U	
C015	BROMOMETHANE	63 U	
C020	VINYL CHLORIDE	63 U	
C025	CHLOROETHANE	63 U	
C030	METHYLENE CHLORIDE	31	110
C035	ACETONE	63	410
C040	CARBON DISULFIDE	31	29 J
C045	1,1-DICHLOROETHENE	31 U	
C050	1,1-DICHLOROETHANE	31 U	
C053	1,2-DICHLOROETHENE (TOTAL)	31 U	
C060	CHLOROFORM	31 U	
C065	1,2-DICHLOROETHANE	31 U	
C110	2-BUTANONE	63 U	
C115	1,1,1-TRICHLOROETHANE	31 U	
C120	CARBON TETRACHLORIDE	31 U	
C125	VINYL ACETATE	63 U	
C130	BROMODICHLOROMETHANE	31 U	
C140	1,2-DICHLOROPROPANE	31 U	
C143	CIS-1,3-DICHLOROPROPENE	31 U	
C150	TRICHLOROETHENE	31 U	
C155	DIBROMOCHLOROMETHANE	31 U	
C160	1,1,2-TRICHLOROETHANE	31 U	
C165	BENZENE	31 U	
C172	TRANS-1,3-DICHLOROPROPENE	31 U	
C175	2-CHLOROETHYL VINYLETHYR	63 U	
C180	BROMOFORM	31 U	
C205	4-METHYL-2-PENTANONE	63 U	
C210	2-HEXANONE	63 U	
C220	TETRACHLOROETHENE	31 U	
C225	1,1,2,2-TETRACHLOROETHANE	31 U	
C230	TOLUENE	31	34
C235	CHLOROBENZENE	31 U	
C240	ETHYLBENZENE	31 U	
C245	STYRENE	31 U	
C250	XYLENES (TOTAL)	31	130

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

Lab Name: KEYSTONE ENV. RESOURCES, INC.
Case No: B & E, INC.
Lab No.: H89-06.126-001

DC No: N/A
SMO No: TROUGH

ORGANICS ANALYSIS DATA SHEET

(page 3)

PCBs
Conc: Low GPC Cleanup: Yes ✓
Extraction Date: 6/26/89
Date Analyzed: 7/3/89
Dilution Factor: 50

CAS #	Compound	ug/Kg
12674-11-2	AROCOLOR-1016	10000 U
11104-28-2	AROCOLOR-1221	10000 U
11141-16-5	AROCOLOR-1232	10000 U
53469-21-9	AROCOLOR-1242	10000 U
12672-29-6	AROCOLOR-1248	10000 U
11097-69-1	AROCOLOR-1254	20000 U
11096-82-5	AROCOLOR-1260	20000 U

Ws = 23.8 = Dry weight of sample extracted (g)
Vt = 20,000 = Volume of total extract (ul)
Vi = 2 = Volume of extract injected (ul)

1st Column Inst. : VA 6000A
2nd Column Inst. : N/A

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1
:

KEYSTONE ENVIRONMENTAL RESOURCES
ANALYTICAL DIVISION

General Result List Report

Results for Job ID: H89-06.126
Reported on 18-JUL-1989 at 11:07.

SAMPLE ID : H89-06.126-001
SAMPLE NAME: TROUGH

DATE COLLECTED: 23-JUN-1989
DATE RECEIVED : 24-JUN-1989

SAMPLING POINT:
MATRIX : SOIL

Analysis	Component name	Result	Units
Metals			
	Silver	<7.7	ug/L
	Arsenic	<114	ug/L
	Barium	<80.5	ug/L
	Cadmium	<4.3	ug/L
	Chromium	<9.4	ug/L
	Mercury	<0.2	ug/L
	Lead	<91.7	ug/L
	Selenium	<125	ug/L

INST ID: 4000

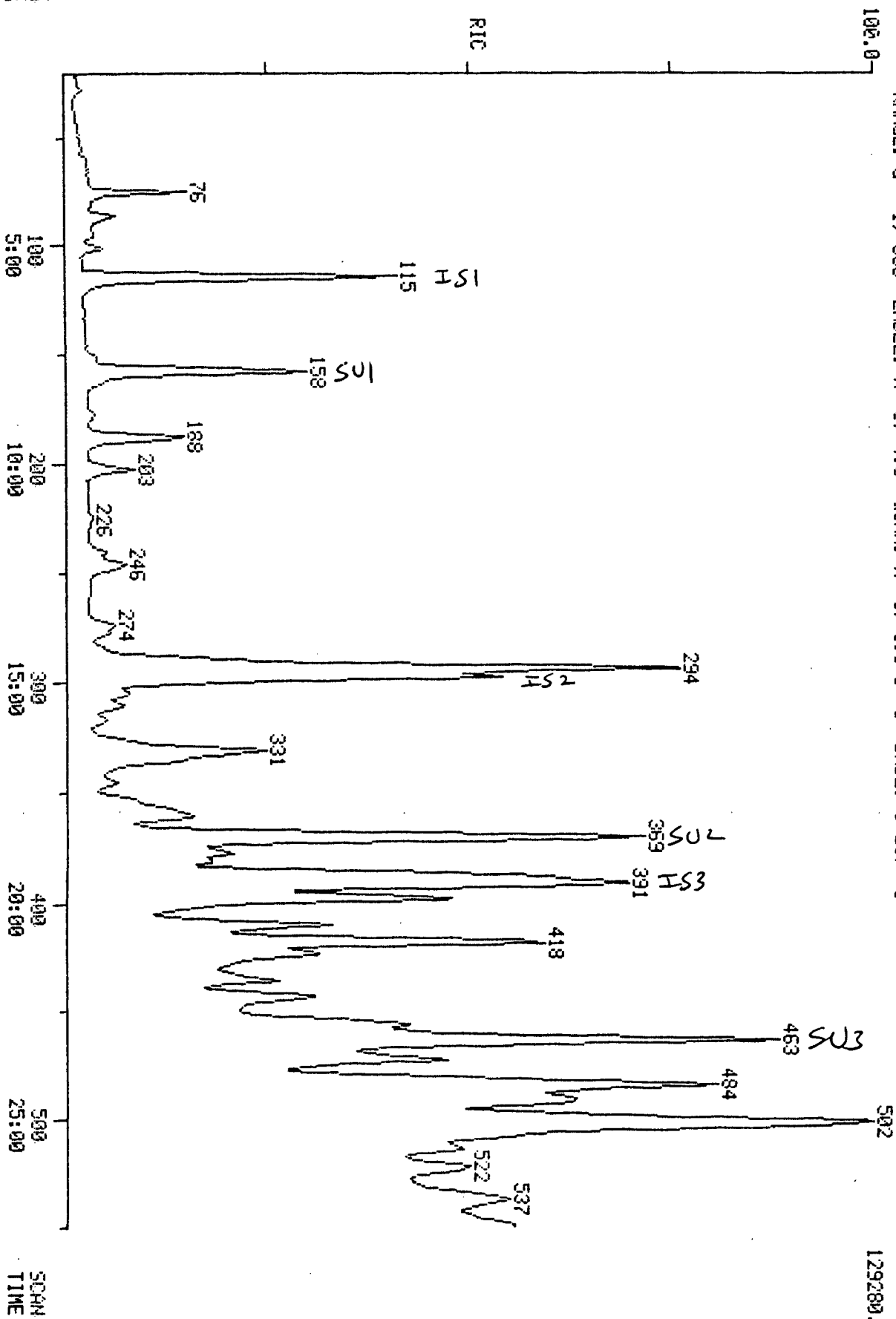
KEYSTONE DC # ---14

RIC
07/03/89 11:11:00
SAMPLE: TROUGH
CONDOS.: 05-24-83
RANGE: G 1, 600

DATA: 4U06125U01A #1
CALI: 4U06125U01A #3

SCANS 20 TO 550

LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



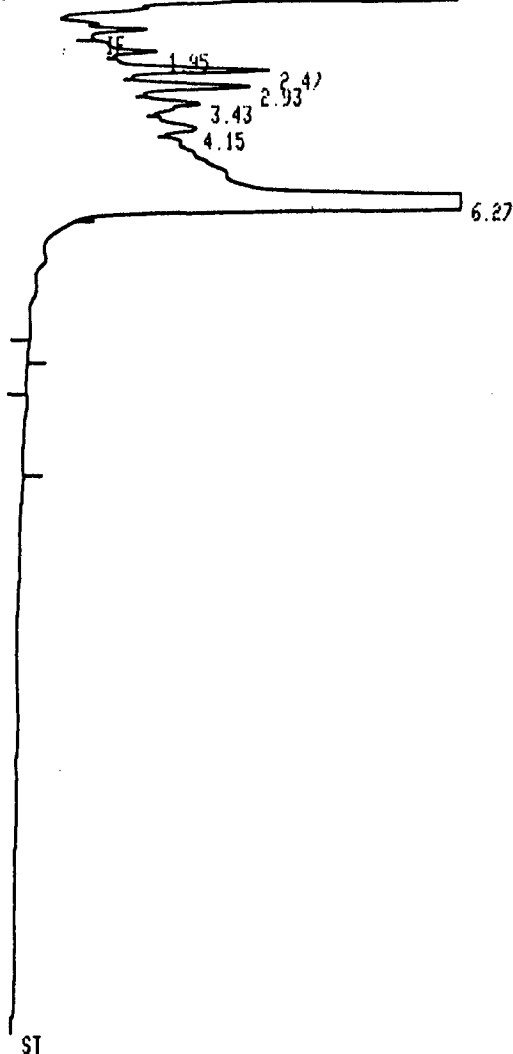
VOA QUANTITATION REPORT

SAMPLE ID. TROUGH
FILENAME 4U06126V01A INST 4000
CLIENT B+E INC ANALYST JDD
DATE INJECTED 07/03/89 11:11:00 VERIFIED BY *Sc*
CALIB STD DATE 06/26/89 CORR. FACTOR 6.30

SCAN#	VOA COMPOUNDS	M/E	AMOUNT	RRT	AREA
115 CI01	BROMOCHLOROMETHANE	**IS1** 128	315 UG/KG	1.000	21888
298 CI10	1,4-DIFLUOROBENZENE	**IS2** 114	315 UG/KG	1.000	99449
391 CI20	D5-CHLOROBENZENE	**IS3** 117	315 UG/KG	1.000	71156
158 CS15	D4-1,2-DICHLOROETHANE	**SU1** 65	93 %	1.374	37571
369 CS05	D8-TOLUENE	**SU2** 98	107 %	0.944	82908
463 CS10	P-BROMOFLUOROBENZENE	**SU3** 95	93 %	1.184	42249
76 C030	METHYLENE CHLORIDE	84	105 UG/KG	0.661	8385
87 C035	ACETONE	43	412 UG/KG	0.757	7694
97 C040	CARBON DISULFIDE	76	29 UG/KG	0.843	5131
373 C230	TOLUENE	92	34 UG/KG	0.954	7398
485 C250	XYLENES (TOTAL)	106	132 UG/KG	1.240	18957

TARGET 89-06-126-001 (1:50)

eg



DC#

KEYSTONE ENV. RESOURCES, INC.

CASE NO. BTE, INC.

SAMPLE NO. Trough

PESTICIDE FRACTION

1ST COLUMN MIX PHASE 26

1.8 m X 4mm ID X 6 mm OD

1.5% SP-2250

1.95% SP-2401

100/120 SUPELCOPORT

COLUMN TEMP. 201°C

VOLUME INJ. 2 uL

INSTRUMENT ID. VA 6000 A

RUN # 202

JUL/03/89 23:26:56

WORKFILE ID: C

WORKFILE NAME:

HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.95	4153	BY	0.202	1.007
2.47	11460	VV	0.233	2.779
2.93	10308	VV	0.278	2.499
3.43	7230	VV	0.406	1.753
4.15	7219	VV	0.505	1.750
6.27	372062	VB	0.295	90.212

TOTAL HGHT= 412430

MUL FACTOR= 1.0000E+00

INST ID: 4000

SAMPLE NUMBER: PITS

ORGANIC ANALYSIS DATA SHEET -

LABORATORY NAME: KEYSTONE ENV.
LAB SAMPLE ID NO.: 890612602
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: *CEB*
PERCENT MOISTURE:

CASE NO.: --
INITIAL CALIBRATION DATE:
CONTRACT NO.: --
DATE SAMPLE RECEIVED: 06/24/89
PH:

VOLATILES

CONCENTRATION: LOW
DATE ANALYZED: 06/29/89

DATAFILE: 4U06126V02
DILUTION FACTOR: 1.30

COMPOUND		DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C010	CHLOROMETHANE	13 U	
C015	BROMOMETHANE	13 U	
C020	VINYL CHLORIDE	13 U	
C025	CHLOROETHANE	13 U	
C030	METHYLENE CHLORIDE	6	44
C035	ACETONE	13	170
C040	CARBON DISULFIDE	6	7
C045	1,1-DICHLOROETHENE	6 U	
C050	1,1-DICHLOROETHANE	6 U	
C053	1,2-DICHLOROETHENE (TOTAL)	6 U	
C060	CHLOROFORM	6 U	
C065	1,2-DICHLOROETHANE	6 U	
C110	2-BUTANONE	13 U	
C115	1,1,1-TRICHLOROETHANE	6 U	
C120	CARBON TETRACHLORIDE	6 U	
C125	VINYL ACETATE	13 U	
C130	BROMODICHLOROMETHANE	6 U	
C140	1,2-DICHLOROPROPANE	6 U	
C143	CIS-1,3-DICHLOROPROPENE	6 U	
C150	TRICHLOROETHENE	6 U	
C155	DIBROMOCHLOROMETHANE	6 U	
C160	1,1,2-TRICHLOROETHANE	6 U	
C165	BENZENE	6	4 J
C172	TRANS-1,3-DICHLOROPROPENE	6 U	
C175	2-CHLOROETHYL VINYLETHER	13 U	
C180	BROMOFORM	6 U	
C205	4-METHYL-2-PENTANONE	13 U	
C210	2-HEXANONE	13 U	
C220	TETRACHLOROETHENE	6 U	
C225	1,1,2,2-TETRACHLOROETHANE	6 U	
C230	TOLUENE	6	32
C235	CHLOROBENZENE	6 U	
C240	ETHYLBENZENE	6	9
C245	STYRENE	6 U	
C250	XYLENES (TOTAL)	6	110

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

Lab Name: KEYSTONE ENV. RESOURCES, INC.
Case No: B & E, INC.
Lab No.: HB9-06.126-002

DC No: N/A
SMD No: PITS

ORGANICS ANALYSIS DATA SHEET
(page 3)

Conc: Low
Extraction Date: 6/26/89
Date Analyzed: 7/4/89
Dilution Factor: 50

PCBs
GPC Cleanup: Yes ☒

CAS #	Compound	ug/Kg
12674-11-2	AROCLOR-1016	10000 U
11104-28-2	AROCLOR-1221	10000 U
11141-16-5	AROCLOR-1232	10000 U
53469-21-9	AROCLOR-1242	10000 U
12672-29-6	AROCLOR-1248	10000 U
11097-69-1	AROCLOR-1254	20000 U
11096-82-5	AROCLOR-1260	20000 U

Ws = 23.8 = Dry weight of sample extracted (g)
Vt = 20,000 = Volume of total extract (ul)
Vi = 2 = Volume of extract injected (ul)

1st Column Inst. : VA 6000A
2nd Column Inst. : N/A

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

KEYSTONE ENVIRONMENTAL RESOURCES
ANALYTICAL DIVISION

General Result List Report

Results for Job ID: H89-06.126
Reported on 18-JUL-1989 at 11:07.

SAMPLE ID : H89-06.126-002
SAMPLE NAME: PITS

DATE COLLECTED: 23-JUN-1989
DATE RECEIVED : 24-JUN-1989

SAMPLING POINT:
MATRIX : SOIL

Analysis	Component name	Result	Units
Metals			
	Silver	<7.7	ug/L
	Arsenic	<114	ug/L
	Barium	<80.5	ug/L
	Cadmium	<4.3	ug/L
	Chromium	<9.4	ug/L
	Mercury	<0.2	ug/L
	Lead	<91.7	ug/L
	Selenium	<125	ug/L

INST ID: 4000

KEYSTONE DC # ---14

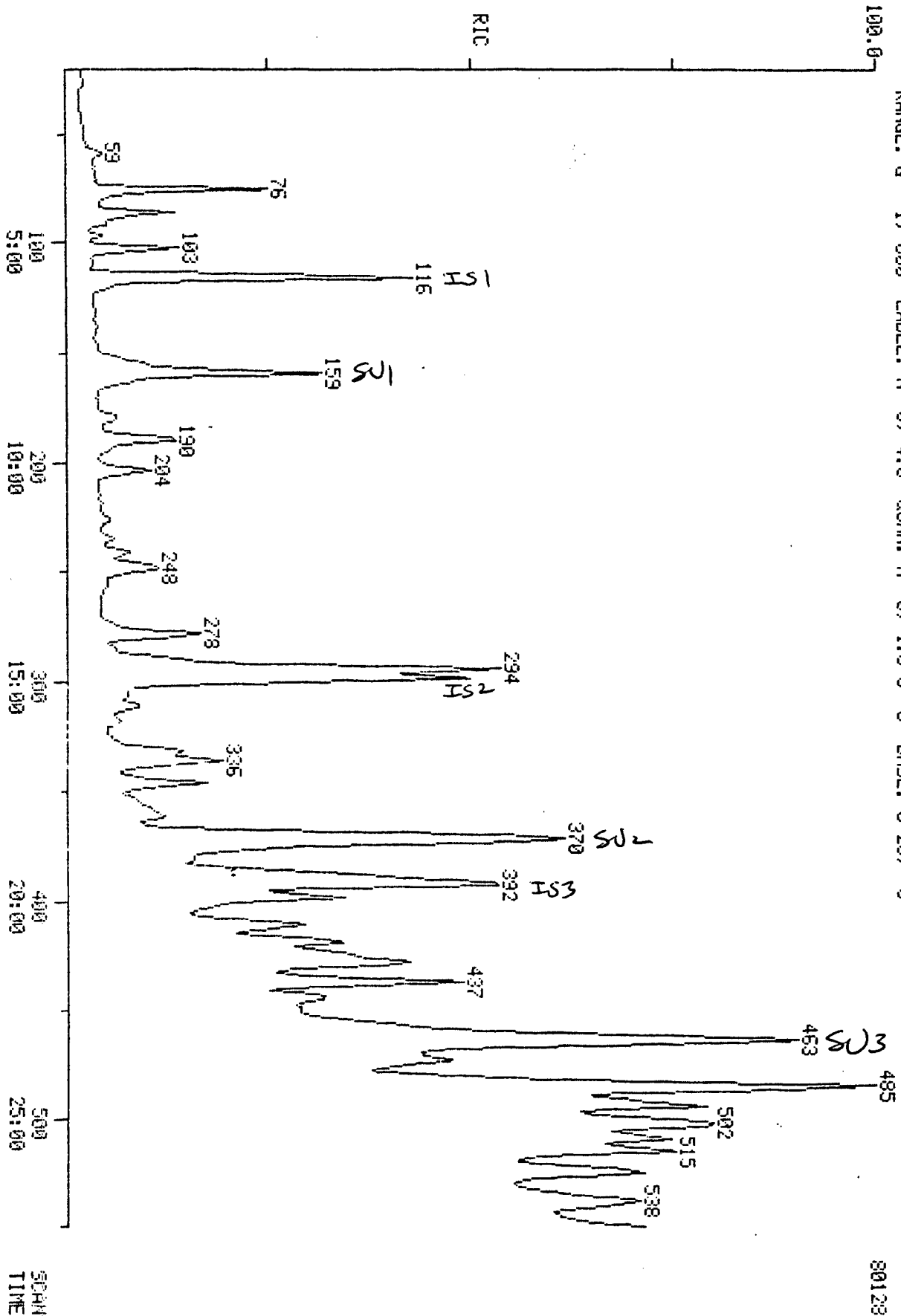
RIC
06/29/89 12:36:00
SAMPLE: PITS
CONDOS.: 06/24/89
RANGE: G 1, 600

DATA: 4U06126U02 #1
CALL: 4U06126U02 #3

SCANS 20 TO 550

LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

80123.



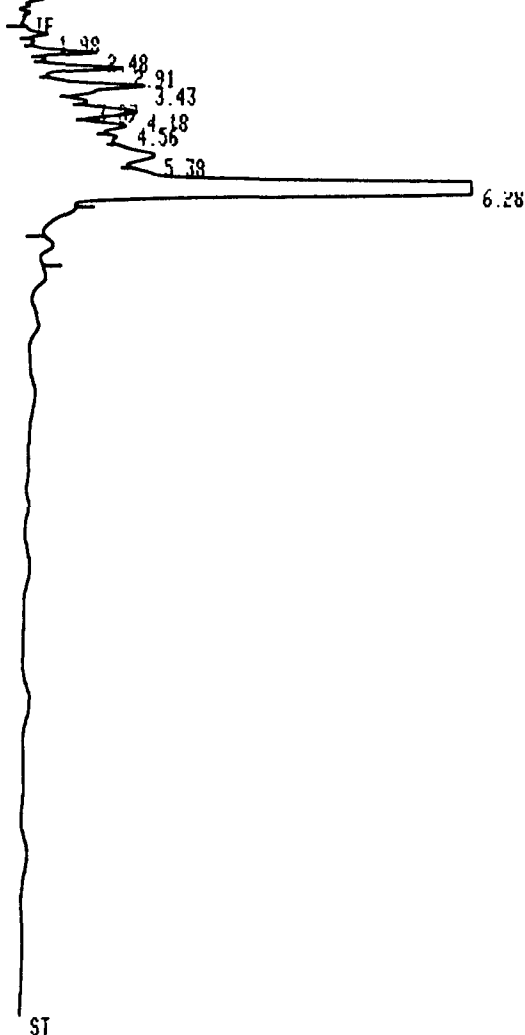
VOA QUANTITATION REPORT

SAMPLE ID. PITS
FILENAME 4U06126V02 INST 4000
CLIENT B+E INC. ANALYST SC
DATE INJECTED 06/29/89 12:36:00 VERIFIED BY *SC*
CALIB STD DATE 06/26/89 CORR. FACTOR 1.30

SCAN#	VOA COMPOUNDS	M/E	AMOUNT	RRT	AREA
116 CI01	BROMOCHLOROMETHANE **IS1**	128	65 UG/KG	1.000	14193
299 CI10	1,4-DIFLUOROBENZENE **IS2**	114	65 UG/KG	1.000	56529
392 CI20	D5-CHLOROBENZENE **IS3**	117	65 UG/KG	1.000	33531
159 CS15	D4-1,2-DICHLOROETHANE **SU1**	65	89 %	1.371	24693
370 CS05	D8-TOLUENE **SU2**	98	115 %	0.944	41420
464 CS10	P-BROMOFLUOROBENZENE **SU3**	95	84 %	1.184	17776
76 C030	METHYLENE CHLORIDE	84	44 UG/KG	0.655	10588
87 C035	ACETONE*	43	176 UG/KG	0.750	13545
97 C040	CARBON DISULFIDE	76	7 UG/KG	0.836	4102
250 C165	BENZENE	78	4 UG/KG	0.836	4266
373 C230	TOLUENE	92	32 UG/KG	0.952	15446
430 C240	ETHYLBENZENE	106	9 UG/KG	1.097	2326
485 C250	XYLENES (TOTAL)	106	107 UG/KG	1.237	33246

*BLANK CORRECTED ON DATA SHEET

START IF 89-06-126-002 (1.50) *lg*



DC# _____

KEYSTONE ENV. RESOURCES, INC.

CASE NO. B-E, INC

SAMPLE NO. Pito

PESTICIDE FRACTION

1ST COLUMN MIX PHASE 26

1.8 m X 4mm ID X 6 mm OD

1.5% SP-2250

1.95% SP-2401

100/120 SUPELCOPORT

COLUMN TEMP. 201°C

VOLUME INJ. 2 uL

INSTRUMENT ID. VA 6000 A

RUN # 204

JUL/04/89 00:29:27

WORKFILE ID: C

WORKFILE NAME:

HEIGHT%

RT	HEIGHT	TYPE	AR/HT	HEIGHT%
1.98	1492	BY	0.159	0.659
2.48	4294	VV	0.146	1.895
2.91	5735	VV	0.176	2.531
3.43	6714	VV	0.279	2.963
3.87	2739	VV	0.174	1.209
4.18	5670	VV	0.316	2.503
4.56	4786	VV	0.283	2.112
5.38	6111	VV	0.524	2.697
6.28	189026	VB	0.272	83.431

TOTAL HGHT= 226570

MUL FACTOR= 1.0000E+00

INST ID: 4000

KEYSTONE DC # --- 8
SAMPLE NUMBER: VBLK

ORGANIC ANALYSIS DATA SHEET -

LABORATORY NAME: KEYSTONE ENV.
LAB SAMPLE ID NO.: 89---
SAMPLE MATRIX: SOIL
DATA RELEASE AUTHORIZED BY: *CB*
PERCENT MOISTURE:

CASE NO.: --
INITIAL CALIBRATION DATE:
CONTRACT NO.: --
DATE SAMPLE RECEIVED: 06/23/89
PH:

VOLATILES

CONCENTRATION: LOW
DATE ANALYZED: 06/29/89

DATAFILE: EB0629V01A
DILUTION FACTOR: 1.00

COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C010 CHLOROMETHANE	10 U	
C015 BROMOMETHANE	10 U	
C020 VINYL CHLORIDE	10 U	
C025 CHLOROETHANE	10 U	
C030 METHYLENE CHLORIDE	5 U	
C035 ACETONE	10	9 J
C040 CARBON DISULFIDE	5 U	
C045 1,1-DICHLOROETHENE	5 U	
C050 1,1-DICHLOROETHANE	5 U	
C053 1,2-DICHLOROETHENE (TOTAL)	5 U	
C060 CHLOROFORM	5 U	
C065 1,2-DICHLOROETHANE	5 U	
C110 2-BUTANONE	10 U	
C115 1,1,1-TRICHLOROETHANE	5 U	
C120 CARBON TETRACHLORIDE	5 U	
C125 VINYL ACETATE	10 U	
C130 BROMODICHLOROMETHANE	5 U	
C140 1,2-DICHLOROPROPANE	5 U	
C143 CIS-1,3-DICHLOROPROPENE	5 U	
C150 TRICHLOROETHENE	5 U	
C155 DIBROMOCHLOROMETHANE	5 U	
C160 1,1,2-TRICHLOROETHANE	5 U	
C165 BENZENE	5 U	
C172 TRANS-1,3-DICHLOROPROPENE	5 U	
C175 2-CHLOROETHYL VINYLETHER	10 U	
C180 BROMOFORM	5 U	
C205 4-METHYL-2-PENTANONE	10 U	
C210 2-HEXANONE	10 U	
C220 TETRACHLOROETHENE	5 U	
C225 1,1,2,2-TETRACHLOROETHANE	5 U	
C230 TOLUENE	5 U	
C235 CHLOROBENZENE	5 U	
C240 ETHYLBENZENE	5 U	
C245 STYRENE	5 U	
C250 XYLENES (TOTAL)	5 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

INST ID: 4000

KEYSTONE DC # --- 8
SAMPLE NUMBER: VBLK

ORGANIC ANALYSIS DATA SHEET -

LABORATORY NAME: KEYSTONE ENV.

CASE NO.: --

LAB SAMPLE ID NO.: 89--

INITIAL CALIBRATION DATE:

SAMPLE MATRIX: SOIL

CONTRACT NO.: --

DATA RELEASE AUTHORIZED BY: *CEB*

DATE SAMPLE RECEIVED: --

PERCENT MOISTURE:

PH:

VOLATILES

CONCENTRATION: LOW

DATAFILE: EB0703V01A

DATE ANALYZED: 07/03/89

DILUTION FACTOR: 1.00

COMPOUND	DETECTION LIMIT (MICROGRAMS / KG)	AMOUNT FOUND
C010 CHLOROMETHANE	10 U	
C015 BROMOMETHANE	10 U	
C020 VINYL CHLORIDE	10 U	
C025 CHLOROETHANE	10 U	
C030 METHYLENE CHLORIDE	5 U	
C035 ACETONE	10 U	
C040 CARBON DISULFIDE	5 U	
C045 1,1-DICHLOROETHENE	5 U	
C050 1,1-DICHLOROETHANE	5 U	
C053 1,2-DICHLOROETHENE (TOTAL)	5 U	
C060 CHLOROFORM	5 U	
C065 1,2-DICHLOROETHANE	5 U	
C110 2-BUTANONE	10 U	
C115 1,1,1-TRICHLOROETHANE	5 U	
C120 CARBON TETRACHLORIDE	5 U	
C125 VINYL ACETATE	10 U	
C130 BROMODICHLOROMETHANE	5 U	
C140 1,2-DICHLOROPROPANE	5 U	
C143 CIS-1,3-DICHLOROPROPENE	5 U	
C150 TRICHLOROETHENE	5 U	
C155 DIBROMOCHLOROMETHANE	5 U	
C160 1,1,2-TRICHLOROETHANE	5 U	
C165 BENZENE	5 U	
C172 TRANS-1,3-DICHLOROPROPENE	5 U	
C175 2-CHLOROETHYL VINYLETHER	10 U	
C180 BROMOFORM	5 U	
C205 4-METHYL-2-PENTANONE	10 U	
C210 2-HEXANONE	10 U	
C220 TETRACHLOROETHENE	5 U	
C225 1,1,2,2-TETRACHLOROETHANE	5 U	
C230 TOLUENE	5 U	
C235 CHLOROBENZENE	5 U	
C240 ETHYLBENZENE	5 U	
C245 STYRENE	5 U	
C250 XYLENES (TOTAL)	5 U	

U = UNDETECTED AT THE LISTED DETECTION LIMIT

J = COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT

Lab Name: KEYSTONE ENV. RESOURCES, INC.
Case No: B & E, INC.
Lab No.: H89-06.126-BLK

DC No: N/A
SMO No: LAB BLANK

ORGANICS ANALYSIS DATA SHEET
(page 3)

PCBs
Conc: Low GPC Cleanup: Yes ☒
Extraction Date: 6/26/89
Date Analyzed: 7/3/89
Dilution Factor: 1

CAS #	Compound	ug/Kg
12674-11-2	AROCLOLOR-1016	160 U
11104-38-2	AROCLOLOR-1231	160 U
11141-16-5	AROCLOLOR-1232	160 U
53469-21-9	AROCLOLOR-1242	160 U
12672-29-6	AROCLOLOR-1248	160 U
11097-69-1	AROCLOLOR-1254	320 U
11096-82-5	AROCLOLOR-1260	320 U

Ws = 30 = Dry weight of sample extracted (g)
Vt = 20,000 = Volume of total extract (ul)
Vi = 2 = Volume of extract injected (ul)

1st Column Inst. : VA 6000A
2nd Column Inst. : N/A

U=UNDETECTED AT THE LISTED DETECTION LIMIT.
J=COMPOUND IS PRESENT, BUT BELOW THE LISTED DETECTION LIMIT.
B=COMPOUND ALSO FOUND IN BLANK.

Form 1

INST ID: 4000

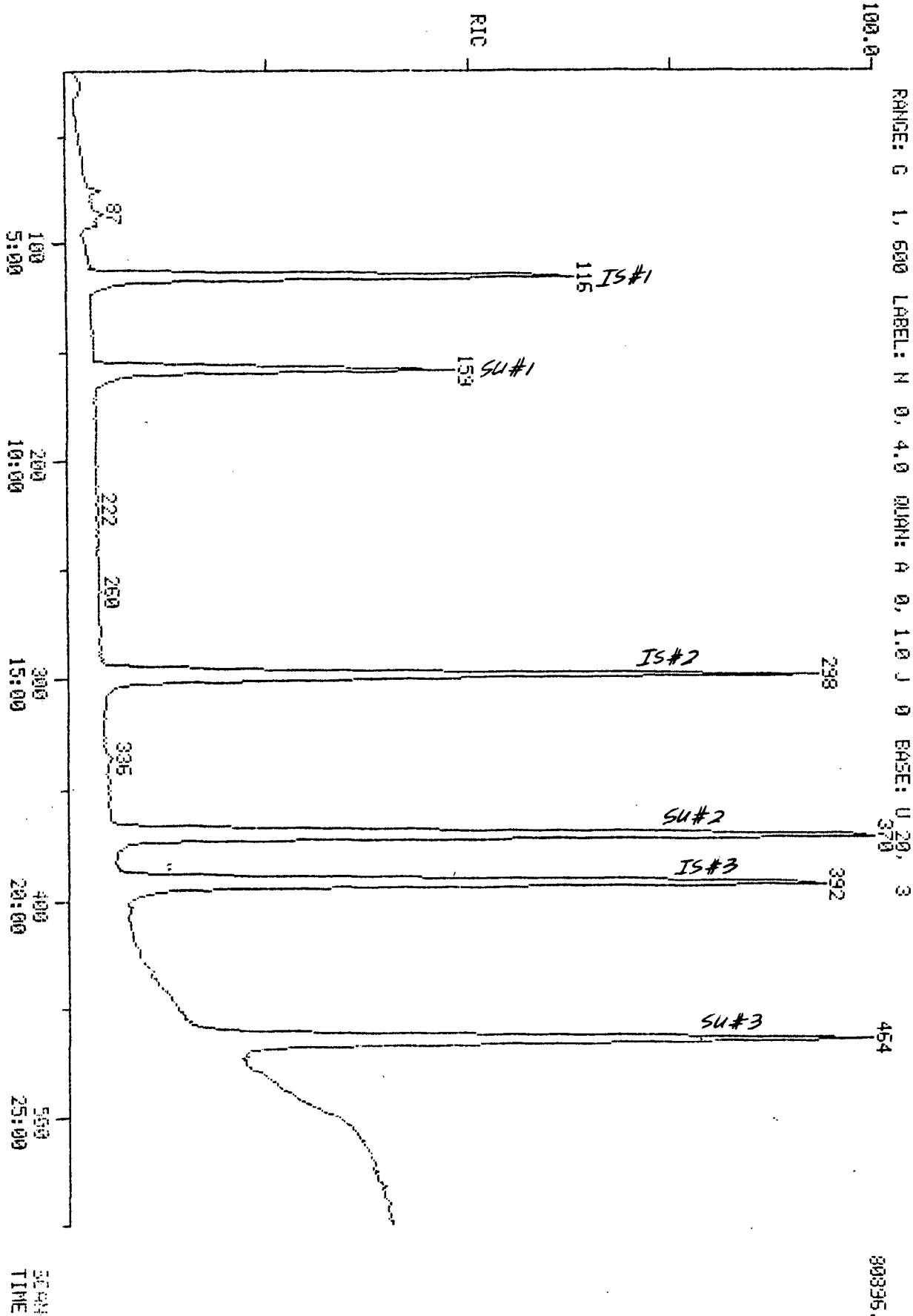
KEYSTONE DC # ---14

RIC
06/29/89 10:44:00
SAMPLE: UBLK
COND5.: 06/23/89
RANGE: G 1, 600

DATA: EB0629001A #1
CALL: EB0629001A #3

SCANS 20 TO 550

808395.



VOA QUANTITATION REPORT

SAMPLE ID. VBLK
FILENAME EB0629V01A INST 4000
CLIENT KEYSTONE ANALYST SC
DATE INJECTED 06/29/89 10:44:00 VERIFIED BY
CALIB STD DATE 06/26/89 CORR. FACTOR 1.00

SCAN#	VOA COMPOUNDS	M/E	AMOUNT	RRT	AREA
115 CI01	BROMOCHLOROMETHANE **IS1**	128	50 UG/KG	1.000	22017
298 CI10	1,4-DIFLUOROBENZENE **IS2**	114	50 UG/KG	1.000	119263
392 CI20	D5-CHLOROBENZENE **IS3**	117	50 UG/KG	1.000	95231
159 CS15	D4-1,2-DICHLOROETHANE **SU1**	65	89 %	1.383	38265
370 CS05	DB-TOLUENE **SU2**	98	102 %	0.944	104450
464 CS10	P-BROMOFLUOROBENZENE **SU3**	95	101 %	1.184	60717
87 C035	ACETONE	43	9 UG/KG	0.757	1401

INST ID: 4000

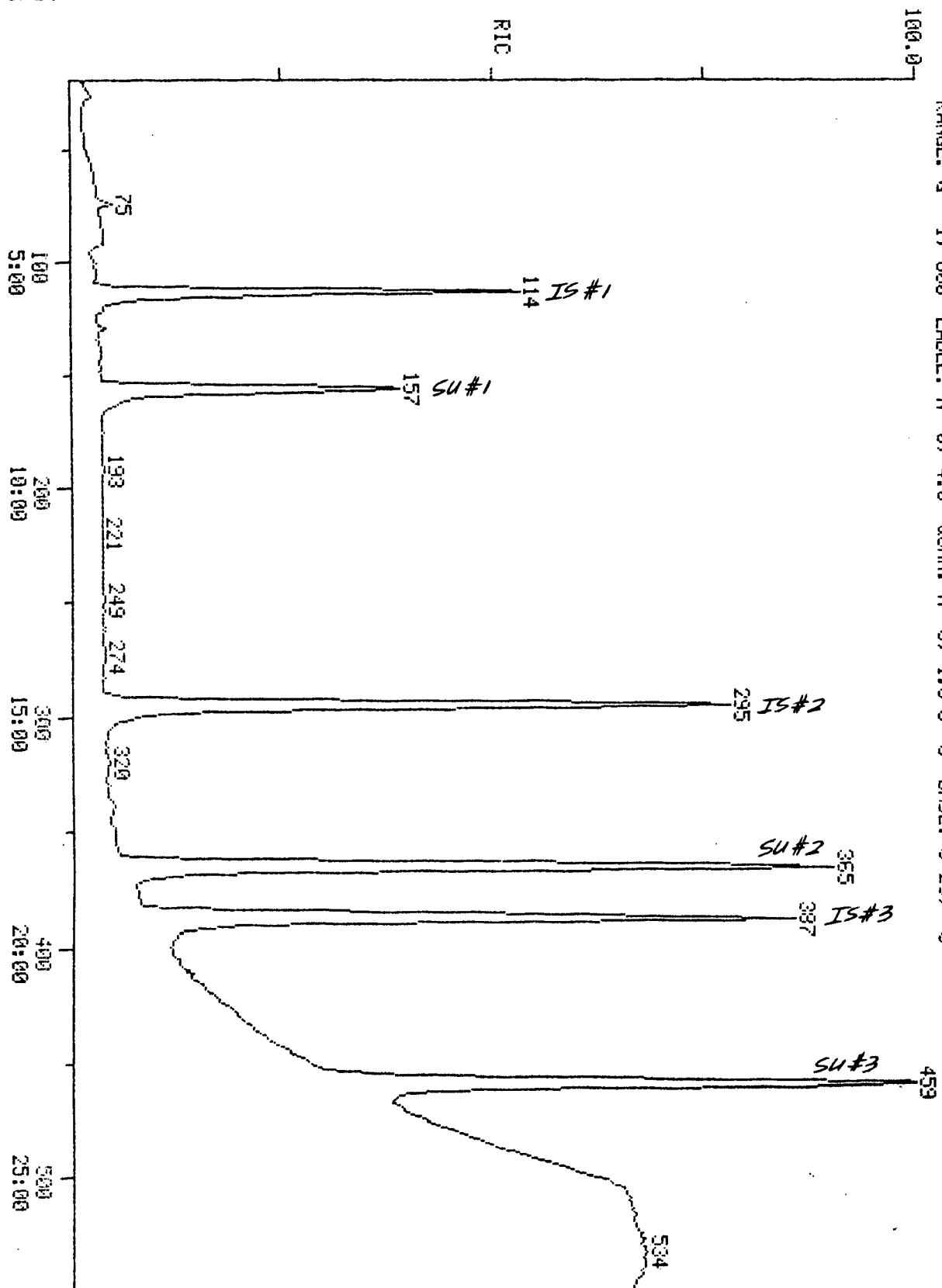
KEYSTONE DC # ---14

RIC
07/03/89 9:27:00
SAMPLE: UBLK
CONDOS: --
RANGE: G 1, 600 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

DATA: EB0703U01A #1
CALL: EB0703U01A #3

SCANS 20 TO 550

101120.



SCAN
TIME

VOA QUANTITATION REPORT

SAMPLE ID. VBLK
FILENAME EB0703V01A INST 4000
CLIENT KEYSTONE ANALYST JDD
DATE INJECTED 07/03/89 9:27:00 VERIFIED BY
CALIB STD DATE 06-26-89 CORR. FACTOR 1.00

SCAN#	VOA COMPOUNDS	M/E	AMOUNT	RRT	AREA
113 CI01	BROMOCHLOROMETHANE **IS1**	128	50 UG/KG	1.000	26206
295 CI10	1,4-DIFLUOROBENZENE **IS2**	114	50 UG/KG	1.000	132840
387 CI20	D5-CHLOROBENZENE **IS3**	117	50 UG/KG	1.000	107472
157 CS15	D4-1,2-DICHLOROETHANE **SU1**	65	92 %	1.389	44177
365 CS05	D8-TOLUENE **SU2**	98	100 %	0.943	117020
459 CS10	P-BROMOFLUOROBENZENE **SU3**	95	98 %	1.186	66754

89-06-126-BLK

cy

IF

ST

DC#

KEYSTONE ENV. RESOURCES, INC.

CASE NO. BCE INC

SAMPLE NO. Lab BLK

PESTICIDE FRACTION

1ST COLUMN MIX PHASE 26

1.8 m X 4mm ID X 6 mm OD

1.5% SP-2250

1.95% SP-2401

100/120 SUPELCOPORT

COLUMN TEMP. 201°C

VOLUME INJ. 2 µL

INSTRUMENT ID. VA 6000

RUN # 201
WORKFILE ID: C
WORKFILE NAME:
NO RUN PEAKS STORED

JUL/83/89 22:55:42

_____ Date Shipped _____ Carrier _____
 Phone _____ Airbill No. _____ Cooler No. _____

SEND RESULTS TO:
Client Name B + E INC.
Company SOUTH Y P.O. BOX 756
Address CARLSBAD, NM. 81220
Phone (505) 885-6663

Phone (505) 885-6663

PROJECT NAME _____ PROJECT NO. _____ P.O. NO. _____

Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Received at lab by: (Signature)	Date	Time
Relinquished from lab by: (Signature)	Received by: (Signature)	Date	Time

[illegible]

NOTE: UNUSED PORTIONS OF NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT (UNLESS OTHERWISE ARRANGED).

Expected Analytical T. A. T's: _____ Urgent Attention (100% Surcharge) _____ RUSH (50% Surcharge) _____ Standard

Form 1542-4
(April 1976)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ROUTING AND TRANSMITTAL SLIP

CODE	TO		ACTION	ROOM NO.
	NAME	ORGANIZATION		

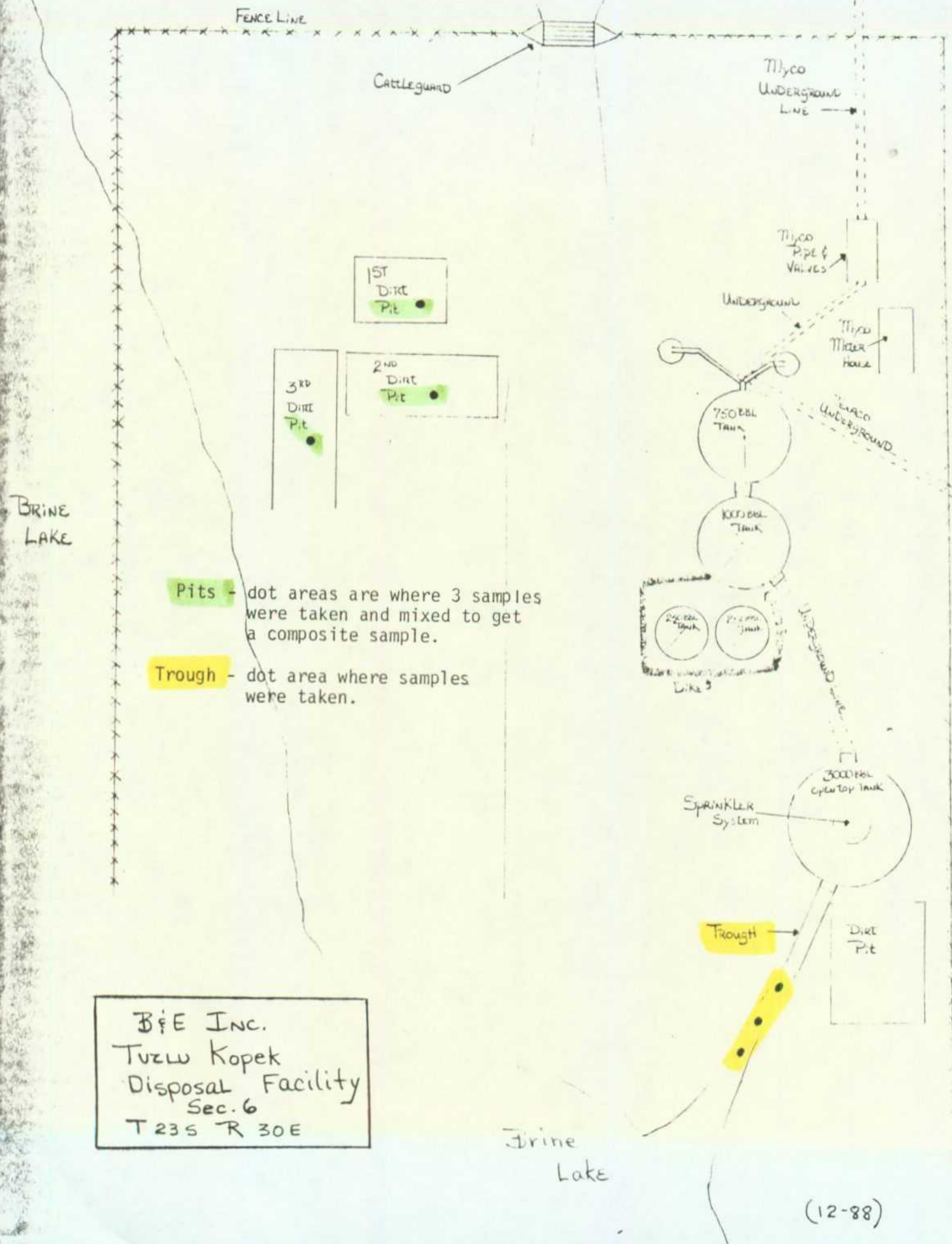
Indicate Action by Number

- | | |
|----------------------------|---------------------|
| 1. Necessary action | 6. Note and surname |
| 2. Approval | 7. Note and return |
| 3. Signature | 8. Your information |
| 4. Prepare reply | 9. See me |
| 5. Your comment and return | 10. |

From	<i>Fred Lockley</i> - 622-9042	Room No.
Office		Phone (505) 622-9042

Remarks

Test for:
- ✓ Heavy Metals (EP Toxicity)
- ✓ PCB's -
- ✓ VOC's -
~~Dropped Pesticides / Herbicides~~
per
Lockley
6-12-89



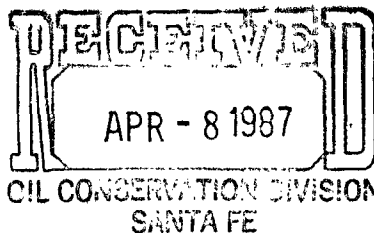
Pits - dot areas are where 3 samples were taken and mixed to get a composite sample.

Trough - dot area where samples were taken.

B&E Inc.
Tuzlu Kopek
Disposal Facility
Sec. 6
T 23 S R 30 E

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 04-01-87
 FIELD, LEASE & WELL : WINDMILL
 SAMPLING POINT: WELLHEAD
 DATE SAMPLED : 03-25-87



SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 1049
 PH = 7.29

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	3.8	76.1
MAGNESIUM	(MG)+2	2.4	29.1
SODIUM	(NA), CALC.	9.6	222.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	4.2	256.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.6	225
CHLORIDES	(CL)-1	7	240

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	2.4
BARIUM	(BA)+2	.1
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .021

SCALING INDEX

TEMP

30C

86F

1.21

CARBONATE INDEX
 CALCIUM CARBONATE SCALING

LIKELY

CALCIUM SULFATE INDEX
 CALCIUM SULFATE SCALING

-15.
 UNLIKELY

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 04-01-87
 FIELD, LEASE & WELL : WELL #1
 SAMPLING POINT : WELLHEAD
 DATE SAMPLED : 03-25-87

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 694
 PH = 7.95

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.4	8.0
MAGNESIUM	(MG)+2	1.3	15.8
SODIUM	(NA), CALC.	7.5	172.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	6.2	378.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	0	0
CHLORIDES	(CL)-1	3	120

		ME/L	MG/L
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

IRON(TOTAL)	(FE)		4
BARIUM	(BA)+2	0	.1
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .01

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.93
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-19.
CALCIUM SULFATE SCALING	UNLIKELY

NICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 04-01-87

FIELD, LEASE & WELL : WELL #2

SAMPLING POINT: WELLHEAD

DATE SAMPLED : 03-25-87

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 929

PH = 8.48

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.33	6.6
MAGNESIUM	(MG)+2	2.0	25.1
SODIUM	(NA), CALC.	11.4	263.

ANIONS			
BICARBONATE	(HCO3)-1	4	244.
CARBONATE	(CO3)-2	.8	24
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.0	195.
CHLORIDES	(CL)-1	5	170

DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

IRON(TOTAL)	(FE)		7.6
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .018

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.62
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-17.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 04-01-87

FIELD, LEASE & WELL : WELL #3

SAMPLING POINT: WELLEAD

DATE SAMPLED : 03-25-87

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 1447

PH = 8.98

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.4	8.0
MAGNESIUM	(MG)+2	1.8	22.4
SODIUM	(NA), CALC.	21.0	483.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	.6	36.6
CARBONATE	(CO3)-2	1	30
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	8.6	416.
CHLORIDES	(CL)-1	13	450

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)		4.8
BARIUM	(BA)+2	0	.1
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .029

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.16
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-15.
CALCIUM SULFATE SCALING	UNLIKELY



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Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

December 11, 1986

Mr. Eddie Seay
Burro Pipeline
P. O. Box 3179
Midland, Texas 79701

Dear Mr. Seay:

Enclosed please find our water analysis reports on the samples from the Lane Lake submitted to our laboratory on December 3, 1986.

If you have any questions or require further information, please contact us.

Sincerely,

A handwritten signature in cursive script that reads 'Sharon Wright'. Below the signature, the name and title are printed in a sans-serif font.

Sharon Wright
Laboratory Technician

SW/djs

cc: Harold McCullough

Oil Commission
P. O. Box 1980
Hobbs, New Mexico 88240

UNICHEM INTERNATIONAL INC.

NICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 12-11-86

FIELD, LEASE & WELL : LANE SALT LAKE MONITOR WELL #1

SAMPLING POINT:

DATE SAMPLED : 12-02-86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 724

PH = 7.7

ME/L

MG/L

CATIONS

CALCIUM	(CA)+2	.67	13.5
MAGNESIUM	(MG)+2	1.6	20.5
SODIUM	(NA), CALC.	8.1	187.

ANIONS

BICARBONATE	(HCO3)-1	5.2	317.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.31	15
CHLORIDES	(CL)-1	5	170

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	16.6
BARIUM	(BA)+2	1.0
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .012

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	1.66
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-19.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 12-11-86

FIELD, LEASE & WELL : LANE LAKE MONITOR WELL #2

SAMPLING POINT:

DATE SAMPLED : 12-02-86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 657

PH = 8.69

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.92	18.3
MAGNESIUM	(MG)+2	2.0	24.4
SODIUM	(NA), CALC.	8.0	185.

ANIONS			
BICARBONATE	(HCO3)-1	0	0
CARBONATE	(CO3)-2	2.4	72.0
HYDROXIDE	(OH)-1	.2	3.4
SULFATE	(SO4)-2	3.4	163.
CHLORIDES	(CL)-1	5	190

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	6.1
BARIUM	(BA)+2	.2
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .015

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	2.15
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-17.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 12-11-86

FIELD, LEASE & WELL : LANE LAKE MONITOR WELL #3

SAMPLING POINT:

DATE SAMPLED : 12-02-86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 812

PH = 9.09

ME/L

MG/L

CATIONS

CALCIUM	(CA)+2	.63	12.6
MAGNESIUM	(MG)+2	2.1	26.2
SODIUM	(NA), CALC.	11.1	255.

ANIONS

BICARBONATE	(HCO3)-1	.6	36.6
CARBONATE	(CO3)-2	1.2	36
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.1	5
CHLORIDES	(CL)-1	12	440

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	2.8
BARIUM	(BA)+2	.14
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .016

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	2.18
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-19.
CALCIUM SULFATE SCALING	UNLIKELY

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707 NORTH LEECH

P.O.BOX 1477

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 12-11-86

FIELD, LEASE & WELL : LANE RANCH WINDMILL

SAMPLING POINT :

DATE SAMPLED : 12-02-86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 756

PH = 7.57

ME/L

MG/L

CATIONS

CALCIUM	(CA)+2	3.4	70
MAGNESIUM	(MG)+2	1.8	22.0
SODIUM	(NA), CALC.	5.7	131.

ANIONS

BICARBONATE	(HCO3)-1	3.4	207.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.6	175
CHLORIDES	(CL)-1	4	150

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	.2
BARIUM	(BA)+2	.18
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .016

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	1.71
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-16.
CALCIUM SULFATE SCALING	UNLIKELY



File Copy

Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

August 21, 1986

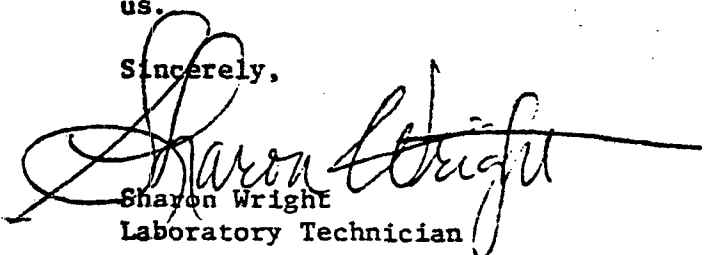
Burro Pipeline
Box 3179
Midland, TX 79701

Attention: Production Dept.

Enclosed please find our water analyses report on the samples from the Lane Lake, submitted to our laboratory August 13, 1986.

If you have any questions or require further information, please contact us.

Sincerely,


Sharon Wright
Laboratory Technician

SW/kn

cc: Harold McCullough

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 08/21/86
FIELD, LEASE & WELL : LANE LAKE
SAMPLING POINT: MONITOR WELL #3
DATE SAMPLED : 08/13/86

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 1230
PH = 8.48

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.49	9.9
MAGNESIUM	(MG)+2	1.4	17.0
SODIUM	(NA), CALC.	18.0	414.
ANIONS			
BICARBONATE	(HCO3)-1	0	0
CARBONATE	(CO3)-2	.8	24
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	6.1	295
CHLORIDES	(CL)-1	13	470

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	35.6
BARIUM	(BA)+2	.04
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .025

SCALING INDEX

TEMP

30C

86F

.641

LIKELY

CARBONATE INDEX
CALCIUM CARBONATE SCALING

-16.

UNLIKELY

CALCIUM SULFATE INDEX
CALCIUM SULFATE SCALING

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 08/21/86

FIELD, LEASE & WELL : LANE LAKE

SAMPLING POINT: MONITOR WELL #2

DATE SAMPLED : 08/13/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 970

PH = 8

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.4	8
MAGNESIUM	(MG)+2	1.1	14.3
SODIUM	(NA), CALC.	12.3	283.

ANIONS			
BICARBONATE	(HCO3)-1	5	305.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	2.9	140
CHLORIDES	(CL)-1	6	220

DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

IRON(TOTAL)	(FE)		68.3
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .016

SCALING INDEX

TEMP

30C

86F

CARBONATE INDEX

1.32

CALCIUM CARBONATE SCALING

LIKELY

CALCIUM SULFATE INDEX

-18.

CALCIUM SULFATE SCALING

UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 08/21/86

FIELD, LEASE & WELL : LANE LAKE

SAMPLING POINT: MONITOR WELL #1

DATE SAMPLED : 08/13/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 671

PH = 7.74

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.33	6.6
MAGNESIUM	(MG)+2	.53	6.4
SODIUM	(NA), CALC.	8.1	187.

ANIONS			
BICARBONATE	(HCO3)-1	5.8	353.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.21	10
CHLORIDES	(CL)-1	3	107

DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

IRON(TOTAL)	(FE)		81.3
BARIUM	(BA)+2	0	.03
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .01

SCALING INDEX

TEMP

30C

86F

1.69

LIKELY

CARBONATE INDEX

CALCIUM CARBONATE SCALING

CALCIUM SULFATE INDEX

-19.

CALCIUM SULFATE SCALING

UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 08/21/86

FIELD, LEASE & WELL : LANE RANCH

SAMPLING POINT : WINDMILL

DATE SAMPLED : 08/13/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 802

PH = 7.35

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.8	37.4
MAGNESIUM	(MG)+2	.6	7.2
SODIUM	(NA), CALC.	9.1	211.

ANIONS			
BICARBONATE	(HCO3)-1	3.8	231.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.8	185
CHLORIDES	(CL)-1	4	130

DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

IRON(TOTAL)	(FE)		.5
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .015

SCALING INDEX

TEMP

30C

86F

1.34

CARBONATE INDEX

CALCIUM CARBONATE SCALING

LIKELY

CALCIUM SULFATE INDEX

CALCIUM SULFATE SCALING

-17.

UNLIKELY



**UNICHEM
INTERNATIONAL**

Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

February 24, 1986

File Copy

Burro Pipeline
Box 3179
Midland, TX 79701

Attention: Production Dept.

Dear Sirs:

Enclosed please find our water analyses report on the samples from the Lane Salt Lake, submitted to our laboratory February 19, 1986.

If you have any questions or require further information, please contact us.

Sincerely,



Sharon Wright
Laboratory Technician

SW/kn

cc: Cy Foster
N.M. Oil Commission

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1479

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 02/24/86

FIELD, LEASEWELL : LAKE SALT LAKE

SAMPLING POINT: MONITOR WELL #3

DATE SAMPLED : 02/19/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 1054

TS = 3.75

ME/L

MG/L

CATIONS

CALCIUM	(CA)+2	.9	18.0
MAGNESIUM	(MG)+2	1	12.1
SODIUM	(NA), CALC.	15.1	347.

ANIONS

BICARBONATE	(HCO3)-1	.6	36.6
CARBONATE	(CO3)-2	2	60.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	5.4	260
CHLORIDES	(CL)-1	9	320

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	8.2
BARIUM	(BA)+2	.1
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .022

SCALING INDEX

TEMP

30C

86F

2.04

LIKELY

CARBONATE INDEX

CALCIUM CARBONATE SCALING

CALCIUM SULFATE INDEX

-16.

CALCIUM SULFATE SCALING

UNLIKELY

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707 NORTH LEECH

P.O. BOX 1497

HOSBRS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 02/24/86
FIELD, LEASEWELL : LANE SALT LAKE
SAMPLING POINT: MONITOR WELL #2
DATE SAMPLED : 02/19/86

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 932
PH = 7.88

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.1	22.0
MAGNESIUM	(MG)+2	2.5	30.3
SODIUM	(NA), CALCD.	9.6	222.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	4.6	280.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.6	225
CHLORIDES	(CL)-1	4	152

		ME/L	MG/L
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

		ME/L	MG/L
IRON(TOTAL)	(FE)		9.5
BARIUM	(BA)+2	0	.3
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .018

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.51
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-17.
CALCIUM SULFATE SCALING	UNLIKELY

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P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 02/24/86

FIELD, LEASEWELL : LANE SALT LAKE

SAMPLING POINT: MONITOR WELL #1

DATE SAMPLED : 03/19/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 717

PH = 7.74

MEAL

MG/L

CATIONS

CALCIUM	(CA)+2	1.1	22.0
MAGNESIUM	(MG)+2	.7	8.5
SODIUM	(NA), CALC.	7.8	190.

ANIONS

BICARBONATE	(HCO3)-1	5.5	335.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	1.1	55
CHLORIDES	(CL)-1	3	116

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	4.8
BARIUM	(BA)+2	.3
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .011

SCALING INDEX

TEMP

30C

86F

1.99

CARBONATE INDEX

CALCIUM CARBONATE SCALING

LIKELY

CALCIUM SULFATE INDEX

CALCIUM SULFATE SCALING

-18.
UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 02/24/86

FIELD, LEASE & WELL : LANE SALT LAKE

SAMPLING POINT : WINDMILL

DATE SAMPLED : 02/19/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 776

PH = 5.76

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	3.7	74.1
MAGNESIUM	(MG)+2	1.7	20.6
SODIUM	(NA), CALC.	6.0	138.
ANIONS			
BICARBONATE	(HCO3)-1	3.2	195.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	5.2	250
CHLORIDES	(CL)-1	3	100
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		.12
BARIUM	(BA)+2	0	.5
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .017

SCALING INDEX

TEMP

30C

86F

1.05

LIKELY

CARBONATE INDEX

CALCIUM CARBONATE SCALING

CALCIUM SULFATE INDEX

CALCIUM SULFATE SCALING

-15.

UNLIKELY



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Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

February 14, 1986

Burro Pipeline
Box 3179
Midland, TX 79701

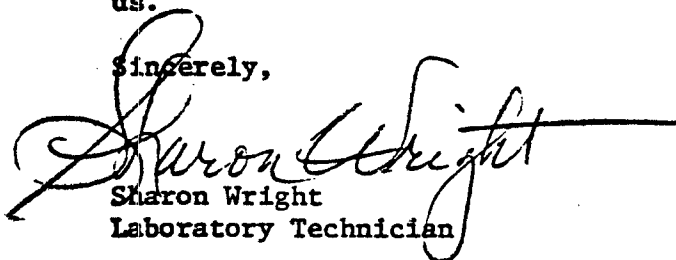
Attention: Production Dept.

Dear Sirs:

Enclosed please find our water analysis report on the sample from the
Lane Salt Lake Windmill, Sample #2, submitted to our laboratory on
February 14, 1986.

If you have any questions or require further information, please contact
us.

Sincerely,


Sharon Wright
Laboratory Technician

SW/kn

cc: Cy Foster

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 02/14/86
FIELD, LEASE & WELL : LANE SALT LAKE
SAMPLING POINT: WINDMILL SAMPLE #2
DATE SAMPLED : 02/14/86

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 1532
PH = 7.34

CATIONS		ME/L	MG/L
CALCIUM	(CA)+2	2.4	48.1
MAGNESIUM	(MG)+2	.31	3.8
SODIUM	(NA), CALC.	21.9	503.

ANIONS		ME/L	MG/L
BICARBONATE	(HCO3)-1	4.2	256.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.43	20.5
CHLORIDES	(CL)-1	20	700

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	.2
BARIUM	(BA)+2	.3
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .026

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	.842
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-18.
CALCIUM SULFATE SCALING	UNLIKELY



File Copy

Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010
February 11, 1986

Burro Pipeline
300 Marienfeld
Box 3179
Midland, TX 79701

Attention: Emily Bigby

Dear Ms. Bigby:

Enclosed please find our water analyses report on the samples from the Lane Salt Lake, submitted to our laboratory February 6, 1986.

If you have any questions or require further information, please contact us.

Sincerely,

A handwritten signature in cursive script that reads "Sharon Wright".

Sharon Wright
Laboratory Technician

SW/kn

cc: Cy Foster
Eddie Seay

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 02/11/86

FIELD, LEASE & WELL : LANE SALT LAKE

SAMPLING POINT : #3 CARL LANE RANCH - 19'0"

DATE SAMPLED : 02/06/86

SPECIFIC GRAVITY = 1.001

TOTAL DISSOLVED SOLIDS = 3228

PH = 8.16

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.4	8.0
MAGNESIUM	(MG)+2	2.1	26.2
SODIUM	(NA), CALC.	49.3	1135.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	6.2	378.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.7	180
CHLORIDES	(CL)-1	42	1500

		ME/L	MG/L
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

		ME/L	MG/L
IRON(TOTAL)	(FE)		13.8
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .055

SCALING INDEX

TEMP

30C

86F

.332

LIKELY

CARBONATE INDEX

CALCIUM CARBONATE SCALING

CALCIUM SULFATE INDEX

CALCIUM SULFATE SCALING

-17.

UNLIKELY

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707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 02/11/86

FIELD, LEASE & WELL : LANE SALT LAKE

SAMPLING POINT: #2 MONITOR WELL - 12' 9"

#1 Monitor Well 12' 9"

DATE SAMPLED : 02/06/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 1733

PH = 9.44

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.08	1.6
MAGNESIUM	(MG)+2	1.2	15.0
SODIUM	(NA), CALC.	27.1	624.
ANIONS			
BICARBONATE	(HCO3)-1	1.6	97.6
CARBONATE	(CO3)-2	2	60.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.8	235
CHLORIDES	(CL)-1	20	700
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		7.9
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .033

SCALING INDEX

TEMP

30C

86F

CARBONATE INDEX

1.17

CALCIUM CARBONATE SCALING

LIKELY

CALCIUM SULFATE INDEX

-17.

CALCIUM SULFATE SCALING

UNLIKELY

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707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 02/11/86

FIELD, LEASE & WELL : LANE SALT LAKE

SAMPLING POINT : #2 MONITOR WELL - 18'9"

DATE SAMPLED : 02/06/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 1334

PH = 8.44

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.4	29.3
MAGNESIUM	(MG)+2	4.6	56.6
SODIUM	(NA), CALC.	15.8	363.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	2.4	146.
CARBONATE	(CO3)-2	1.6	48.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.9	190
CHLORIDES	(CL)-1	14	500

		ME/L	MG/L
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

		ME/L	MG/L
IRON(TOTAL)	(FE)		25.8
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .028

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.63
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-17.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 02/11/86

FIELD, LEASE & WELL : LANE SALT LAKE

SAMPLING POINT: SAMPLE #1 - WINDMILL

DATE SAMPLED : 02/06/86

SPECIFIC GRAVITY = 1.007

TOTAL DISSOLVED SOLIDS = 11584

PH = 8.03

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	68	1362.
MAGNESIUM	(MG)+2	68	826.
SODIUM	(NA), CALC.	75.3	1732.
ANIONS			
BICARBONATE	(HCO3)-1	4.8	292.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.5	170
CHLORIDES	(CL)-1	203	7200
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		.8
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .282

SCALING INDEX

TEMP

30C

86F

1.33

LIKELY

-22.

UNLIKELY

CARBONATE INDEX

CALCIUM CARBONATE SCALING

CALCIUM SULFATE INDEX

CALCIUM SULFATE SCALING



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Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

January 28, 1986

Burro Pipeline
Box 3179
Midland, TX 79701

Attention: Emily Bigby

Dear Ms. Bigby:

Enclosed please find our water analyses report on the samples from the Carl Lane Ranch, submitted to our laboratory January 10, 1986.

If you have any questions or require further information, please contact us.

Sincerely,

A handwritten signature in cursive script that reads 'Sharon Wright'.

Sharon Wright
Laboratory Technician

SW/kn

cc: Cy Foster
Eddie Seay

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 01/28/86
FIELD, LEASE & WELL : CARL LANE RANCH
SAMPLING POINT : WINDMILL WATER
DATE SAMPLED : 01/10/86

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 2842
PH = 7.89

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	4.2	84.1
MAGNESIUM	(MG)+2	1.8	21.8
SODIUM	(NA), CALC.	40.4	929.

ANIONS			
BICARBONATE	(HCO3)-1	3.8	231.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.6	175
CHLORIDES	(CL)-1	39	1400

DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	

IRON(TOTAL)	(FE)		0
BARIUM	(BA)+2	0	.3
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .052

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	.931
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-16.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 01/28/86

FIELD, LEASE & WELL : CARL LANE RANCH

SAMPLING POINT: MONITOR #3 (12'7")

DATE SAMPLED : 01/10/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 2694

PH = 9.3

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.4	8.0
MAGNESIUM	(MG)+2	.8	9.7
SODIUM	(NA), CALC.	44.5	1023.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	.8	48.8
CARBONATE	(CO3)-2	2	60.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.92	44
CHLORIDES	(CL)-1	42	1500

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON (TOTAL)	(FE)	17.7
BARIIUM	(BA)+2	.2
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .048

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.25
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-19.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 01/28/86

FIELD, LEASE & WELL : CARL LANE RANCH

SAMPLING POINT: MONITOR #2 (17'9")

DATE SAMPLED : 01/10/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 2589

PH = 8.25

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.6	12.0
MAGNESIUM	(MG)+2	.7	8.5
SODIUM	(NA), CALC.	41.8	963.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	2	122.
CARBONATE	(CO3)-2	1.2	36
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.99	47.5
CHLORIDES	(CL)-1	39	1400

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	8
BARIUM	(BA)+2	.2
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .045

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	.489
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-19.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 01/28/86

FIELD, LEASE & WELL : CARL LANE RANCH

SAMPLING POINT: MONITOR #1 (19' 11")

DATE SAMPLED : 01/10/86

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 2899

PH = 7.92

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.5	10.0
MAGNESIUM	(MG)+2	.6	7.2
SODIUM	(NA), CALC.	45.3	1041.

ANIONS			
BICARBONATE	(HCO3)-1	6.4	390.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	1.0	49
CHLORIDES	(CL)-1	39	1400

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON (TOTAL)	(FE)	1
BARIUM	(BA)+2	.4
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .048

SCALING INDEX

TEMP

30C

86F

.330

LIKELY

CARBONATE INDEX

CALCIUM CARBONATE SCALING

CALCIUM SULFATE INDEX

CALCIUM SULFATE SCALING

-19.
UNLIKELY



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/886-0070

May 13, 1985

*54 Jurg
file*

Burro Pipeline
300 Marienfeld
P.O. Box 3179
Midland, TX 79701

Attention: Emily Bigby

Dear Ms. Bigby:

Enclosed please find our water analyses report on the samples submitted to our laboratory on May 8, 1985.

If you have any questions or require further information, please contact us.

Sincerely,

Bernadette Alarid
Laboratory Technician

BA/kn

cc: Cy Foster

*cc: Bagley 5-17-85
Mex oil Conservation Com.*

*cc: [illegible]
[illegible]*

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 05/13/85

FIELD, LEASE & WELL : WELL #2, SALT WATER DISPOSAL

SAMPLING POINT:

DATE SAMPLED : 05/08/85

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 977

PH = 7.98

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.8	36.0
MAGNESIUM	(MG)+2	2.8	34.0
SODIUM	(NA), CALC.	10.1	233.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	4.2	256.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.5	217.
CHLORIDES	(CL)-1	6	200

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	41
BARIUM	(BA)+2	.3
MANGANESE	(MN)	NOT RUN

ONIC STRENGTH (MOLAL) = .019

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.69
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-16.
CALCIUM SULFATE SCALING	UNLIKELY

707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 86240

COMPANY : BURRO PIPELINE
 DATE : 05/13/85
 FIELD, LEASE & WELL : LANE LAKE MONITER WELL #1
 SAMPLING POINT:
 DATE SAMPLED : 05/08/85

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 634
 PH = 8.62

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.3	6.0
MAGNESIUM	(MG)+2	.7	8.5
SODIUM	(NA), CALC.	8.6	199.
ANIONS			
BICARBONATE	(HCO3)-1	2	122.
CARBONATE	(CO3)-2	1.6	48.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	2.0	100
CHLORIDES	(CL)-1	.4	150

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	14.1
BARIUM	(BA)+2	.2
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .012

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	2.23
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-18.
CALCIUM SULFATE SCALING	UNLIKELY

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707 NORTH LEECH

P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 05/13/85

FIELD, LEASE & WELL : MONITER WELL #3

SAMPLING POINT:

DATE SAMPLED : 05/08/85

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 884

PH = 8.8

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.5	10.0
MAGNESIUM	(MG)+2	.8	9.7
SODIUM	(NA), CALC.	12.9	297.
ANIONS			
BICARBONATE	(HCO3)-1	1	61.0
CARBONATE	(CO3)-2	2.4	72.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.8	184.
CHLORIDES	(CL)-1	7	250
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		20.9
BARIUM	(BA)+2	0	.1
MANGANESE	(MN)	NOT RUN	

IONIC STRENGTH (MOLAL) = .018

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.93
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-17.
CALCIUM SULFATE SCALING	UNLIKELY

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707 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 05/13/85

FIELD, LEASE & WELL : LANE RANCH WINDMILL

SAMPLING POINT :

DATE SAMPLED : 05/08/85

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 812

PH = 7.14

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	4.4	88.1
MAGNESIUM	(MG)+2	2.6	31.6
SODIUM	(NA), CALC.	5.1	118.

		ME/L	MG/L
ANIONS			
BICARBONATE	(HCO3)-1	4	244.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.1	200
CHLORIDES	(CL)-1	4	130

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	.4
BARIUM	(BA)+2	.1
MANGANESE	(MN)	NOT RUN

IONIC STRENGTH (MOLAL) = .018

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.32
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-15.
CALCIUM SULFATE SCALING	UNLIKELY



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

December 28, 1983

Burro Pipeline
500 W. Illinois
Midland, TX 79701

Attention: Gloria Hardesty

Dear Ms. Hardesty:

Enclosed please find our corrected water analysis report on the sample from the Lane Lake Windmill, submitted to our laboratory on December 28, 1983.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Elizabeth Wesley
Elizabeth Wesley
Senior Lab Technician

EW/bf

cc: N. M. Oil Conservation ✓
Carl Lane Johnson, Jr.
Cy Foster

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601 NORTH LEECH

P.O. BOX 1499

MOBES, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 12-28-83
FIELD LEASE & WELL : LANE LAKE
SAMPLING POINT : WINDWILL
DATE SAMPLED : 12-16-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 712
RESISTIVITY AT 75F IS 9.17 OHMS
PH = 7.68

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	4.4	86.1
MAGNESIUM	(MG)+2	3.6	43.9
SODIUM	(NA).CALC.	2.5	58.6
ANIONS			
BICARBONATE	(HCO3)-1	3.8	231.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.7	180
CHLORIDES	(CL)-1	3	110
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
HYDROGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		1
BARIUM	(BA)+2	0	.08
MANGANESE	(MN)	NOT RUN	

ONIC STRENGTH (MOLAL) = .017

SCALING INDEX	TEMP
CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
	1.91
	LIKELY
CALCIUM SULFATE INDEX	-15.
CALCIUM SULFATE SCALING	UNLIKELY



Home Office 707 N. Leach, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

December 20, 1983

Burro Pipeline
500 West Illinois
Midland, TX 79701

Attention: Gloria Hardesty

Dear Ms. Hardesty:

Enclosed please find our water analyses reports on the samples from the Lane Lake Field, submitted to our laboratory on December 14, 1983.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Bernadette Alarid
Laboratory Technician

BA/bf

cc: Cy Foster - Unichem
N. M. Oil Conservation - Hobbs
Carl Lane Johnson, Jr. - Tatum

UNICHEM INTERNATIONAL INC.

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601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY BURRO PIPELINE
DATE 12-19-83
FIELD LEASE/WELL LANE LAKE
SAMPLING POINT MONITOR WELL #3
DATE SAMPLED 12-16-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 1185
RESISTIVITY AT 76F IS 4.48 OHMS
H = 8.59

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.3	26.7
MAGNESIUM	(MG)+2	4.8	59.1
SODIUM	(NA), CALC	12.0	277.
ANIONS			
BICARBONATE	(HCO3)-1	4	244.
CARBONATE	(CO3)-2	1.4	42.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.8	235 ✓
CHLORIDES	(CL)-1	8	300 ✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		16.3
ARIUM	(BA)+2	0	.08
MANGANESE	(MN)	NOT RUN	

DNIC STRENGTH (MOLAL) = .025

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	2.00
CALCIUM CARBONATE SCALING	LIKELY
CALCIUM SULFATE INDEX	-16
CALCIUM SULFATE SCALING	UNLIKELY

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601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 12-19-83
FIELD, LEASE & WELL : LANE LAKE
SAMPLING POINT : WINDMILL
DATE SAMPLED : 12-16-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 2527
RESISTIVITY AT 76F IS 9.17 OHMS
H = 7.68

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	5.3	106.
MAGNESIUM	(MG)+2	14.6	178.
SODIUM	(NA), CALC.	24.1	555.
ANIONS			
BICARBONATE	(HCO3)-1	3.4	207.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.7	180 ✓
CHLORIDES	(CL)-1	37	1300 ✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		1
BARIIUM	(BA)+2	0	.06
MANGANESE	(MN)	NOT RUN	

ONIC STRENGTH (MOLAL) = .056

SCALING INDEX	TEMP
CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
	708
	LIKELY
CALCIUM SULFATE INDEX	-15
CALCIUM SULFATE SCALING	UNLIKELY

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P.O. BOX 1499

HOES, NEW MEXICO 88240

COMPANY BURRO PIPELINE
DATE 12-19-83
FIELD LEASE & WELL LANE LAKE
SAMPLING POINT MONITOR WELL #1
DATE SAMPLED 12-16-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 492
RESISTIVITY AT 76F IS 9.53 OHMS
CM = 10.03

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.2	4.0
MAGNESIUM	(MG)+2	8.4	102
SODIUM	(NA), CALC.	1.1	26.4
ANIONS			
BICARBONATE	(HCO3)-1	.4	24.4
CARBONATE	(CO3)-2	3	90.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	1.3	65
CHLORIDES	(CL)-1	5	180
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		2.8
BARIUM	(BA)+2	0	.09
MANGANESE	(MN)	NOT RUN	

ONIC STRENGTH (MOLAL) = .016

SCALING INDEX

TEMP

CARBONATE INDEX
CALCIUM CARBONATE SCALING
CALCIUM SULFATE INDEX
CALCIUM SULFATE SCALING

30C
86F
2.89
LIKELY
-19
UNLIKELY

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P.O. BOX 1499

MOORE, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 12-19-83
FIELD, LEASE & WELL : LANE LAKE
SAMPLING POINT: MONITOR WELL #2
DATE SAMPLED : 12-16-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 670
RESISTIVITY AT 76°F IS 7.95 OHMS
= 9.24

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.6	12.0
MAGNESIUM	(MG)+2	7.4	89.9
SODIUM	(NA), CALC.	2.8	65.2
ANIONS			
BICARBONATE	(HCO3)-1	3	183
CARBONATE	(CO3)-2	.8	24
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.0	145 ✓
CHLORIDES	(CL)-1	4	150 ✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		17
COPPER	(BA)+2	0	.01
MANGANESE	(MN)	NOT RUN	

CHLORINE STRENGTH (MOLAL) = .017

SCALING INDEX	TEMP
CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
	2.58
	LIKELY
CALCIUM SULFATE INDEX	-18
CALCIUM SULFATE SCALING	UNLIKELY



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Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

August 9, 1983

Burro Pipeline
500 W. Illinois
Midland, TX 79701

Attention: Gloria Hardesty

Dear Ms. Hardesty:

Enclosed please find our water analyses reports on the samples from the Lane Salt Lake Area, submitted to our laboratory on August 5, 1983.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Elizabeth Wesley
Elizabeth Wesley
Senior Lab Technician

EW/bf

cc: Cy Foster
N. M. Oil Conservation ✓
Carl Lane Johnson, Jr.

UNICHEM INTERNATIONAL INC.

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601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 8-8-83
WELL, LEASE & WELL : LANE LAKE WELL #2
SAMPLING POINT: MONITOR WELL
DATE SAMPLED : 8-4-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 901
pH = 9.89

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	2	40.0
MAGNESIUM	(MG)+2	4.4	53.4
SODIUM	(NA), CALC.	7.4	171.
ANIONS			
BICARBONATE	(HCO3)-1	3.4	207.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.5	218 ✓
CHLORIDES	(CL)-1	5.9	209 ✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		55.5
BARIUM	(BA)+2		.1
MANGANESE	(MN)	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.54
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-16.
CALCIUM SULFATE SCALING	UNLIKELY

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601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 8-8-83
 FIELD, LEASE & WELL : LANE SALT LAKE
 SAMPLING POINT: LANE RANCH WINDMILL
 DATE SAMPLED : 8-4-83

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 841
 pH = 7.85

		ME/L	MG/L
CATIONS			
ALCIUM	(CA)+2	4	80.1
MAGNESIUM	(MG)+2	3.6	43.7
SODIUM	(NA), CALC.	5.4	124.
ANIONS			
BICARBONATE	(HCO3)-1	3	183.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.3	210
CHLORIDES	(CL)-1	5.6	199.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
HYDROGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		.4
ARIUM	(BA)+2		.3
MANGANESE	(MN)	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	1.27
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-15.
CALCIUM SULFATE SCALING	UNLIKELY



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

March 9, 1983

Burro Pipeline
500 West Illinois
Midland, Texas 79701

Attention: Ms. Gloria Hardesty

Dear Ms. Hardesty:

Enclosed please find our water analyses reports on the samples submitted to our laboratory on March 4, 1983.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Bernadette Alarid

Bernadette Alarid
Lab Technician

BA/la

cc: N. M. Oil Commission
Carl Lane Johnson
Cy Foster



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

March 9, 1983

Burro Pipeline
500 West Illinois
Midland, Texas 79701

Attention: Ms. Gloria Hardesty

Dear Ms. Hardesty:

Enclosed please find our water analyses reports on the samples submitted to our laboratory on March 4, 1983.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Bernadette Alarid

Bernadette Alarid
Lab Technician

BA/la

cc: N. M. Oil Commission
Carl Lane Johnson
Cy Foster

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601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 3-8-83
FIELD, LEASE & WELL : LANE SALT LAKE
SAMPLING POINT : MONITOR WELL #1
DATE SAMPLED : 3-4-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 855
= 8.91

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.6	12.0
MAGNESIUM	(MG)+2	5.2	63.2
SODIUM	(NA), CALC.	7.6	175.
ANIONS			
CARBONATE	(HCO3)-1	3.8	231.
CARBONATE	(CO3)-2	1.2	36.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	3.0	146. ✓
CHLORIDES	(CL)-1	5.3	189. ✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		4.6
BARIUM	(BA)+2		.02
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
	2.26
	LIKELY
SULFATE INDEX	-18.
CALCIUM SULFATE SCALING	UNLIKELY

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601 NORTH LEECH

P.O. BOX 1499

MORRIS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 3-7-83
FIELD, LEASE & WELL : LANE SALT LAKE
SAMPLING POINT : MONITOR WELL #2
DATE SAMPLED : 3-4-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 893
= 8.3

		ME/L	MG/L
CATIONS			
SODIUM	(CA)+2	1	20.0
MAGNESIUM	(MG)+2	6	72.9
CHLORIDE	(NA), CALC.	7.1	143.
ANIONS			
CARBONATE	(HCO3)-1	2.8	170.
BICARBONATE	(CO3)-2	.4	12.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	5.2	254. ✓
CHLORIDES	(CL)-1	5.4	199. ✓
DISSOLVED GASES			
HYDROGEN DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
HYDROGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		17
COPPER	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX	30C
SODIUM CARBONATE SCALING	86F
	1.56
	LIKELY
SULFATE INDEX	-16.
SODIUM SULFATE SCALING	UNLIKELY

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401 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 3-8-83
 FIELD LEASE & WELL : LANE SALT LAKE
 SAMPLING POINT: MONITOR WELL #3
 DATE SAMPLED : 3-4-83

SPECIFIC GRAVITY = 1.001
 TOTAL DISSOLVED SOLIDS = 1667
 TDS = 7.57

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.2	24.0
MAGNESIUM	(MG)+2	5.6	68.0
SODIUM	(NA), CALC.	18.6	429.

		ME/L	MG/L
ANIONS			
CARBONATE	(HCO3)-1	4.6	280.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	9.8	475 ✓
CHLORIDES	(CL)-1	10.9	389. ✓

DISSOLVED GASES		
CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	75
CHROMIUM	(CR)+2	.07
MANGANESE	(MN)	NOT RUN

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	.541
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-14.
CALCIUM SULFATE SCALING	UNLIKELY

802 01 800

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601 NORTH LEECH

P.O. BOX 1499

HOBBES, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 3-8-83
FIELD, LEASE & WELL : LANE RANCH
SAMPLING POINT : WINDMILL
DATE SAMPLED : 2-4-83

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 1154
pH = 7.33

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	4.9	100
MAGNESIUM	(MC)+2	12.3	150
SODIUM	(NA).CALC.	.33	7.7
ANIONS			
BICARBONATE	(HCO3)-1	7.8	475.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	5.6	270.✓
CHLORIDES	(CL)-1	4.2	149.✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		2.8
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX
CALCIUM CARBONATE SCALING

30C
86F
1.30
LIKELY

SULFATE INDEX
CALCIUM SULFATE SCALING

-14.
UNLIKELY

EST 6/1/83

EST 6/1/83



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

October 25, 1982

Gloria Hardesty
500 W. Illinois
Midland, TX 79701

Dear Ms. Hardesty:

Enclosed please find our water analyses reports on the samples from the Lane Salt Lake, submitted to our laboratory on October 20, 1982.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

A handwritten signature in cursive script, reading 'Bernadette Alarid'.

Bernadette Alarid
Laboratory Technician

BA/bf

cc: Oil Commission - Hobbs ✓
Carl Lane Johnson Ranch - Tatum
Cy Foster

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 10-22-82
FIELD, LEASE & WELL : LANE SALT LAKE
SAMPLING POINT: LANE RANCH WINDMILL
DATE SAMPLED : 10-20-82

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 838
= 8.03

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	4.4	88.1
MAGNESIUM	(MG)+2	3.6	43.7
SODIUM	(NA), CALC.	4.2	98.1
ANIONS			
BICARBONATE	(HCO3)-1	4	244.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	5.6	270. ✓
CHLORIDES	(CL)-1	2.6	93.3 ✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		.4
COPPER	(BA)+2		.07
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

30C
86F
3.51
CARBONATE INDEX
CALCIUM CARBONATE SCALING
LIKELY
SULFATE INDEX
-3.3
CALCIUM SULFATE SCALING
UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 10-22-82
 FIELD LEASE & WELL : LANE SALT LAKE
 SAMPLING POINT: MONITER WELL #3 ✓
 DATE SAMPLED : 10-20-82

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 1320
 pH = 10.1

ME/L

MG/L

CATIONS

ALCIUM	(CA)+2	.53	10.6
MAGNESIUM	(MG)+2	4.0	49.4
SODIUM	(NA), CALC.	16.9	389.

ANIONS

BICARBONATE	(HCO3)-1	.1	6.1
CARBONATE	(CO3)-2	1.6	48.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	9.1	437 ✓
CHLORIDES	(CL)-1	10.7	379 ✓

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON (TOTAL)	(FE)		31.6
BARIUM	(BA)+2		.05
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX	30C
ALCIUM CARBONATE SCALING	84F
	4.20
	LIKELY
SULFATE INDEX	-29.
ALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 10-22-82
FIELD LEASES WELL : LANE SALT LAKE
SAMPLING POINT: MONITOR WELL #2
DATE SAMPLED : 10-20-82

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 947
H = 8.97

ME/L

MG/L

CATIONS

CALCIUM	(CA)+2	.93	18.7
MAGNESIUM	(MG)+2	3.5	43.3
SODIUM	(NA), CALC.	10.1	233.

ANIONS

BICARBONATE	(HCO3)-1	3	183.
CARBONATE	(CO3)-2	.3	9.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.5	220
CHLORIDES	(CL)-1	6.7	239 ✓

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)	9.6
BARIUM	(BA)+2	.04
MANGANESE	(MN)	NOT RUN

SCALING INDEX

TEMP

CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
	3.76
	LIKELY
SULFATE INDEX	-18.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 10-22-82
 FIELD LEASE & WELL : LANE SALT LAKE
 SAMPLING POINT : MONITOR WELL #1
 DATE SAMPLED : 10-20-82

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 932
 pH = 9.6

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.26	5.3
MAGNESIUM	(MG)+2	3.1	38.0
SODIUM	(NA).CALC.	10.8	248.
ANIONS			
BICARBONATE	(HCO3)-1	4.3	262.
CARBONATE	(CO3)--2	1.1	33.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	2.6	125✓
CHLORIDES	(CL)-1	6.2	219✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		13.7
BARIUM	(BA)+2		.09
MANGANESE	(MN)	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	3.95
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-69.
CALCIUM SULFATE SCALING	UNLIKELY



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

August 11, 1982

Gloria Hardesty
Burro Pipeline
500 W. Illinois
Midland, TX 79701

Dear Ms. Hardesty:

Enclosed please find our water analyses reports on the samples from the Lane Salt Lake, submitted to our laboratory on August 9, 1982.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Bernadette Alarid

Bernadette Alarid
Laboratory Technician

BA/bf

cc: Carl Lane Johnson
Oil Commission ✓
Cy Foster

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 8-11-82
 FIELD, LEASE & WELL : LANE LAKE
 SAMPLING POINT: WINDMILL
 DATE SAMPLED : 8-6-82

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 814
 pH = 7.4

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	5.6	112.
MAGNESIUM	(MG)+2	7.0	85.9
SODIUM	(NA), CALC.	.12	2.7
ANIONS			
BICARBONATE	(HCO3)-1	3.5	213.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	5.6	270 ✓
CHLORIDES	(CL)-1	3.6	129 ✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		.4
BARIUM	(BA)+2		.6
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

30C
 86F
 2.83

LIKELY

-2.5
 UNLIKELY

CARBONATE INDEX
 CALCIUM CARBONATE SCALING
 SULFATE INDEX
 CALCIUM SULFATE SCALING

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 8-11-82
FIELD, LEASE & WELL : LANE LAKE
SAMPLING POINT: MONITERHOLE #1
DATE SAMPLED : 8-6-82

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 766
TDS = 8.53

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1	20.0
MAGNESIUM	(MG)+2	2	24.4
SODIUM	(NA), CALC.	8.6	199.
ANIONS			
CARBONATE	(HCO3)-1	3.4	207.
BICARBONATE	(CO3)-2	1.3	39.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	2.1	105.✓
CHLORIDES	(CL)-1	4.7	169.✓
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		14.4
BARIUM	(BA)+2	0	0
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	3.45
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-18.
CALCIUM SULFATE SCALING	UNLIKELY

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601 NORTH LEECH

P.O. BOX 1499

MORRIS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 8-11-82
FIELD, LEASE & WELL : LANE LAKE
PIPLING POINT: MONITER WELL #2
DATE SAMPLED : 8-6-82

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 843
= 7.9

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1	20.0
MAGNESIUM	(MG)+2	3.6	43.7
SODIUM	(NA).CALC.	7.9	183.
ANIONS			
CARBONATE	(HCO3)-1	3.9	237.
BICARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.1	200
CHLORIDES	(CL)-1	4.5	159.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		41.8
COPPER	(BA)+2		.05
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
	2.87
	LIKELY
SULFATE INDEX	-17.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBES, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 8-11-82
FIELD, LEASE & WELL : LANE LAKE #3
SAMPLING POINT:
DATE SAMPLED : 8-6-82

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 1366
PH = 8.61

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	1.2	24.0
MAGNESIUM	(MG)+2	3.8	46.1
SODIUM	(NA), CALC.	16.6	381.
ANIONS			
BICARBONATE	(HCO3)-1	1.3	79.3
CARBONATE	(CO3)-2	.5	15.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	9.3	450
CHLORIDES	(CL)-1	10.4	369
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		15.2
ARIUM	(BA)+2		.1
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX
CALCIUM CARBONATE SCALING
SULFATE INDEX
CALCIUM SULFATE SCALING

30C
86F
3.07
LIKELY
-12
UNLIKELY



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Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

May 24, 1982

Gloria Hardesty
Burro Pipeline
500 W. Illinois
Midland, TX 79701

Dear Ms. Hardesty:

Enclosed please find our water analyses reports on the samples from the "Lane Salt Lake", submitted to our laboratory on May 18, 1982.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Elizabeth Wesley
Elizabeth Wesley
Senior Laboratory Technician

EW/bf

cc: Carl Lane Johnson
N. M. Oil Comm. ✓
Cy Foster

did not have copy of analysis on windmill

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

401 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 5-24-82
 FIELD, LEASE & WELL : LANE SALT LAKE
 SAMPLING POINT: MONITOR HOLE #1
 DATE SAMPLED : 5-17-82

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 854
 pH = 9.01

ME/L

MG/L

CATIONS

CALCIUM	(CA)+2	2.8	5.6
MAGNESIUM	(MG)+2	8.4	10.2
SODIUM	(NA), CALC.	11.5	264.

ANIONS

CARBONATE	(HCO3)-1	4.4	268.
BICARBONATE	(CO3)-2	1.2	36.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	1.6	80
CHLORIDES	(CL)-1	5.3	190

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON (TOTAL)	(FE)		4.1
COPPER	(BA)+2		
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	3.60
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-67.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 5-24-82
 FIELD, LEASE & WELL : LANE SALT LAKE
 SAMPLING POINT: MONITER HOLE #2
 DATE SAMPLED : 5-17-82

SPECIFIC GRAVITY = 1.001
 TOTAL DISSOLVED SOLIDS = 2116
 pH = 8.2

		ME/L	MC/L
CATIONS			
CALCIUM	(CA)+2	.72	14.4
MAGNESIUM	(MG)+2	2.7	33.0
SODIUM	(NA), CALC.	24.2	556.
ANIONS			
CARBONATE	(HCO3)-1	19.6	1195.
BICARBONATE	(CO3)-2	.2	6.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	2.4	120
CHLORIDES	(CL)-1	5.3	190
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		2.6
COPPER	(BA)+2	NOT RUN	
MANGANESE	(MN)	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	2.38
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-25.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 5-24-82
FIELD, LEASE & WELL : LANE SALT LAKE
SAMPLING POINT: MONITOR HOLE #3
DATE SAMPLED : 5-17-82

SPECIFIC GRAVITY = 1.001
TOTAL DISSOLVED SOLIDS = 2678
pH = 9.02

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	56	11.2
MAGNESIUM	(MG)+2	2.3	28.2
SODIUM	(NA), CALC.	33.6	774.
ANIONS			
CARBONATE	(HCO3)-1	18.8	1147.
BICARBONATE	(CO3)-2	.6	18.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	7.2	350
CHLORIDES	(CL)-1	9.8	350
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		27.8
CHROMIUM	(BA)+7	NOT RUN	
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX
CALCIUM CARBONATE SCALING
SULFATE INDEX
CALCIUM SULFATE SCALING

30C
86F
2.79
LIKELY
-29
UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 5-24-82
FIELD, LEASE & WELL : LANE SALT LAKE
SAMPLING POINT: LANE RANCH WINDMILL
DATE SAMPLED : 5-17-82

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 727
PH = 7.93

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	5.0	101.
MAGNESIUM	(MG)+2	3.1	38.0
SODIUM	(NA), CALC.	2.4	56.0
ANIONS			
BICARBONATE	(HCO3)-1	3.8	231.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.5	220
CHLORIDES	(CL)-1	2.2	80
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		.5
CHROMIUM	(BA)+2	NOT RUN	
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

	30C
	86F
CARBONATE INDEX	3.60
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-3.3
CALCIUM SULFATE SCALING	UNLIKELY



Home Office 707 N. Leach, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

February 4, 1982

Burro Pipeline
500 W. Illinois
Midland, TX 79701

Dear Sir:

Enclosed please find our water analyses reports on the samples from the Lane Lake, submitted to our lab on February 1, 1982.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Linda Morgan

Linda Morgan
Lab Technician

LM/bf

cc: N. M. Oil Conservation ✓
Lane Ranch
Cy Foster

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 2-5-82

FIELD LEASE & WELL : LANE SALT LAKE; LANE RANCH WINDMILL

SAMPLING POINT:

DATE SAMPLED : 2-1-82

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 654

7.58

		MG/L	MG/L
CATIONS			
CALCIUM	(CA)+2	5	100.
MAGNESIUM	(MG)+2	5.7	69.8
SODIUM	(NA), CALC.	2.3	53.0
ANIONS			
CARBONATE	(HCO3)-1	3.6	219.
BICARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	6.0	291.
CHLORIDES	(CL)-1	3.3	119.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
AMMONIA	(NH3)	NOT RUN	
IRON (TOTAL)	(FE)		11.7
COPPER	(CU)+2		.1
MANGANESE	(MN)	NOT RUN	

SCALING INDEX

TEMP

30C

86F

1.54

LIKELY

CARBONATE INDEX

CALCIUM CARBONATE SCALING

SULFATE INDEX

CALCIUM SULFATE SCALING

-2.8

UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 2-5-82

FIELD LEASE & WELL : LANE SALT LAKE; WELL #3

SAMPLING POINT: MONITOR WELL

DATE SAMPLED : 2-1-82

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 1347

= 8.78

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.73	14.6
MAGNESIUM	(MG)+2	2.4	29.9
SODIUM	(NA), CALC.	18.3	420.

ANIONS			
CARBONATE	(HCO3)-1	.19	12.2
BICARBONATE	(CO3)-2	1.2	36.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	9.6	464.
CHLORIDES	(CL)-1	10.4	369.

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
NITROGEN	(O2)	NOT RUN

IRON (TOTAL)	(FE)	13.1
COPPER	(BA)+2	.02
MANGANESE	(MN)	NOT RUN

SCALING INDEX

TEMP

		30C
		86F
CARBONATE INDEX	1.19	
CALCIUM CARBONATE SCALING	LIKELY	
SULFATE INDEX	-20.	
CALCIUM SULFATE SCALING	UNLIKELY	

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 2-5-82

FIELD LEASES WELL : LANE SALT LAKE WELL #2

SAMPLING POINT: MONITOR WELL

DATE SAMPLED : 2-1-82

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 954

= 8.04

MG/L

MG/L

CATIONS

Calcium	(CA)+2	.73	14.6
Magnesium	(MG)+2	3	36.4
Sodium	(NA).CALC.	10.2	235.

ANIONS

Carbonate	(HCO3)-1	4.6	280.
Bicarbonate	(CO3)-2	0	0
Hydroxide	(OH)-1	0	0
Sulfate	(SO4)-2	4.3	207.
Chlorides	(CL)-1	5.0	179.

DISSOLVED GASES

Carbon Dioxide	(CO2)	NOT RUN
Hydrogen Sulfide	(H2S)	NOT RUN
Ammonia	(NH3)	NOT RUN

Iron (TOTAL)	(FE)	13.9
Copper	(CU)+2	0
Manganese	(MN)	NOT RUN

SCALING INDEX

TEMP

Carbonate Index	30C
Calcium Carbonate Scaling	86F
	1.47
	LIKELY
Sulfate Index	-23.
Calcium Sulfate Scaling	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 2-5-82

FIELD : LEASE & WELL : LANE SALT LAKE; WELL #1

SAMPLING POINT : MONITOR WELL

DATE SAMPLED : 2-1-82

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 1072

SG = 8.95

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.23	4.6
MAGNESIUM	(MG)+2	.9	10.9
SODIUM	(NA), CALC.	15.5	358.
ANIONS			
CARBONATE	(HCO3)-1	4	244.
BICARBONATE	(CO3)-2	1.6	48.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	.96	46.5
CHLORIDES	(CL)-1	10.1	359.

DISSOLVED GASES

PROPANE DIOXIDE	(CO2)	NOT RUN
PROGEN SULFIDE	(H2S)	NOT RUN
ACETEN	(C2)	NOT RUN

IRON (TOTAL)	(FE)	12.6
COPPER	(CU)+2	1
MANGANESE	(MN)	NOT RUN

SCALING INDEX

TEMP

CARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	84F
	1.93
	LIKELY
SULFATE INDEX	-82.
CALCIUM SULFATE SCALING	UNLIKELY



**UNICHEM
INTERNATIONAL**

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

*This retest looks
O.K.*

December 1, 1981

Burro Pipeline
500 W. Illinois
Midland, TX 79701

Dear Sir:

Enclosed please find our water analyses reports on the samples from the Lane Ranch, submitted to our lab on November 24, 1981.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

Linda Morgan

Linda Morgan
Lab Technician

LM/bf

cc: N. M. Oil Conservation/
Cy Foster

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 12-01-81
 FIELD, LEASE & WELL : LANE LAKE WINDMILL
 SAMPLING POINT :
 DATE SAMPLED : 11-24-81

SPECIFIC GRAVITY = 1
 TOTAL DISSOLVED SOLIDS = 535
 pH = 7.51

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	5.3	106.
MAGNESIUM	(MG)+2	.66	8.1
SODIUM	(NA), CALC.	2.1	49.9
ANIONS			
CARBONATE	(HCO3)-1	2.4	146.
BICARBONATE	(CO3)-2	0	0
CHLORIDE	(OH)-1	0	0
SULFATE	(SO4)-2	1.5	74
CHLORIDES	(CL)-1	4.2	<u>149.</u>
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		.3
COPPER	(BA)+2	NOT RUN	
ANTIMONY	(SR)+2	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
	2.01
BICARBONATE INDEX	LIKELY
CALCIUM CARBONATE SCALING	
SULFATE INDEX	-10.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

401 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 12-01-81
WELL, LEASE & WELL : LANE LAKE WELL #1
SAMPLING POINT:
DATE SAMPLED : 11-24-81

SPECIFIC GRAVITY = 1
TOTAL DISSOLVED SOLIDS = 960
= 9.17

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.8	16.0
MAGNESIUM	(MG)+2	1	12.1
SODIUM	(NA), CALC.	12.8	296.
ANIONS			
CARBONATE	(HCO3)-1	4.4	268.
BICARBONATE	(CO3)-2	1.9	57.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	1.0	50.5
CHLORIDES	(CL)-1	7.3	259.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		.3
COPPER	(CU)+2	NOT RUN	
STRONTIUM	(SR)+2	NOT RUN	

SCALING INDEX

TEMP

BICARBONATE INDEX	30C
CALCIUM CARBONATE SCALING	86F
	2.84
	LIKELY
SULFATE INDEX	-23.
CALCIUM SULFATE SCALING	UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

PANY : BURRO PIPELINE

E : 12-01-81

ID, LEASE WELL : LANE LAKE WELL #2

PLING POINT:

E SAMPLED : 11-24-81

ELIFIC GRAVITY = 1

AL DISSOLVED SOLIDS = 859

= 7.93

		ME/L	MG/L
CATIONS			
LIUM	(CA)+2	.8	16.0
MESIU	(MG)+2	2.2	27.5
LIUM	(NA).CALC.	9.7	223.
ANIONS			
ARBONATE	(HCO3)-1	4.6	280.
BONATE	(CO3)-2	0	0
ROXIDE	(OH)-1	0	0
FATE	(SO4)-2	1.7	82.
ORIDES	(CL)-1	6.4	229.
DISSOLVED GASES			
BON DIOXIDE	(CO2)	NOT RUN	
ROGEN SULFIDE	(H2S)	NOT RUN	
GEN	(O2)	NOT RUN	
IN(TOTAL)	(FE)		7
LIUM	(BA)+2	NOT RUN	
ONTIUM	(SR)+2	NOT RUN	

SCALING INDEX

TEMP

30C

86F

1.60

LIKELY

BONATE INDEX
LIUM CARBONATE SCALING

FATE INDEX
LIUM SULFATE SCALING

--23.
UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE

DATE : 12-01-81

FIELD, LEASE & WELL : LANE LAKE WELL #3

SAMPLING POINT :

DATE SAMPLED : 11-24-81

SPECIFIC GRAVITY = 1

TOTAL DISSOLVED SOLIDS = 888

TEMP = 9.04

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	.7	14.0
MAGNESIUM	(MG)+2	1.3	15.8
SODIUM	(NA), CALC.	12.6	290.
ANIONS			
CARBONATE	(HCO3)-1	1.2	73.2
BICARBONATE	(CO3)-2	.9	27.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	1.8	88
CHLORIDES	(CL)-1	10.7	379.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		1.4
COPPER	(BA)+2	NOT RUN	
ANTIMONY	(SR)+2	NOT RUN	

SCALING INDEX

TEMP

30C

86F

2.18

LIKELY

CARBONATE INDEX
CALCIUM CARBONATE SCALING

SULFATE INDEX
CALCIUM SULFATE SCALING

-26.
UNLIKELY



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

*mg/L is almost
the same as PPM*

*Retest 11-24-81
due to high Chlorides.*

November 18, 1981

Burro Pipeline
500 W. Illinois
Midland, TX 79701

Dear Sir:

Enclosed please find our water analyses reports on the samples
from the Lane Ranch Windmill submitted to our lab on November 10, 1981.

If you have any questions or require further information, please
do not hesitate to contact us.

Sincerely,

Linda Morgan

Linda Morgan
Lab Technician

LM/bf

cc: N.M. Oil Conversation ✓
Cy Foster

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
 DATE : 11-17-81
 FIELD, LEASE & WELL : LANE RANCH WINDMILL
 SAMPLING POINT:
 DATE SAMPLED : 11-10-81

SPECIFIC GRAVITY = 1.001
 TOTAL DISSOLVED SOLIDS = 2173
 pH = 7.54

		ME/L	MG/L ²
CATIONS			
CALCIUM	(CA)+2	12	240.
MAGNESIUM	(MG)+2	21	255.
SODIUM	(NA), CALC.	6.5	150.
ANIONS			
BICARBONATE	(HCO3)-1	2.8	170.
CARBONATE	(CO3)-2	0	0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	4.3	206.
CHLORIDES	(CL)-1	32.4	1149.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		0
BARIUM	(BA)+2	.05	4
STRONTIUM	(SR)+2	NOT RUN	

SCALING INDEX

TEMP

30C
86F

CARBONATE INDEX
 CALCIUM CARBONATE SCALING

.803

LIKELY

SULFATE INDEX
 CALCIUM SULFATE SCALING

-2.8

UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 11-16-81
FIELD, LEASE & WELL : MONITER #1
SAMPLING POINT:
DATE SAMPLED : 11-10-81

SPECIFIC GRAVITY = 1.001
TOTAL DISSOLVED SOLIDS = 1417
H = 8.92

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	8	160.
MAGNESIUM	(MG)+2	11	133.
SODIUM	(NA), CALC.	9.9	229.
		2.6	158.
	(CO3)-2	2.7	81.0
	(OH)-1	0	0
SULFATE	(SO4)-2	1.1	54
CHLORIDES	(CL)-1	22.5	799.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON (TOTAL)	(FE)		3.6
COPPER	(BA)+2	.04	2.8
ZINC	(SR)+2	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX
CALCIUM CARBONATE SCALING

30C
86F
2.61
LIKELY

SULFATE INDEX
CALCIUM SULFATE SCALING

-13
UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 11-17-81
FIELD, LEASE & WELL : MONITER WELL #2
SAMPLING POINT:
DATE SAMPLED : 11-10-81

SPECIFIC GRAVITY = 1.001
TOTAL DISSOLVED SOLIDS = 2274
PH = 8.09

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	12.6	253.
MAGNESIUM	(MG)+2	22.3	271.
SODIUM	(NA), CALC.	6.0	139.
ANIONS			
BICARBONATE	(HCO3)-1	5	305.
CARBONATE	(CO3)-2	.1	3.0
HYDROXIDE	(OH)-1	0	0
SULFATE	(SO4)-2	2.1	102
CHLORIDES	(CL)-1	33.8	1199.

DISSOLVED GASES

CARBON DIOXIDE	(CO2)	NOT RUN
HYDROGEN SULFIDE	(H2S)	NOT RUN
OXYGEN	(O2)	NOT RUN

IRON(TOTAL)	(FE)		1.3
BARIUM	(BA)+2	0	0
STRONTIUM	(SR)+2	NOT RUN	

SCALING INDEX

TEMP

CARBONATE INDEX	1.61	30C 86F
CALCIUM CARBONATE SCALING		LIKELY
SULFATE INDEX	-6.4	
CALCIUM SULFATE SCALING		UNLIKELY

UNICHEM INTERNATIONAL

601 NORTH LEECH

P.O. BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BURRO PIPELINE
DATE : 11-16-81
FIELD, LEASE & WELL : MONITER #3
SAMPLING POINT:
DATE SAMPLED : 11-10-81

SPECIFIC GRAVITY = 1.001
TOTAL DISSOLVED SOLIDS = 1856
H = 9.61

		ME/L	MG/L
CATIONS			
CALCIUM	(CA)+2	7.3	146.
MAGNESIUM	(MG)+2	16.6	202.
SODIUM	(NA), CALC.	10.4	240.
ANIONS			
BICARBONATE	(HCO3)-1	0	0
CARBONATE	(CO3)-2	3.2	96.0
HYDROXIDE	(OH)-1	.4	6.8
SULFATE	(SO4)-2	5.4	263.
CHLORIDES	(CL)-1	25.3	899.
DISSOLVED GASES			
CARBON DIOXIDE	(CO2)	NOT RUN	
HYDROGEN SULFIDE	(H2S)	NOT RUN	
OXYGEN	(O2)	NOT RUN	
IRON(TOTAL)	(FE)		.1
BARIUM	(BA)+2	0	0
STRONTIUM	(SR)+2	NOT RUN	

SCALING INDEX	TEMP
	30C
	86F
CARBONATE INDEX	2.88
CALCIUM CARBONATE SCALING	LIKELY
SULFATE INDEX	-2.4
CALCIUM SULFATE SCALING	UNLIKELY



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

April 8, 1981

Burro Pipeline
500 West Illinois
Midland, Texas 79701

Dear Sirs:

Enclosed please find our water analysis report on the four samples from your Lane Lake Observation Wells, submitted to our lab on April 6, 1981.

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,

A handwritten signature in cursive script that reads 'Elizabeth Wesley'.

Elizabeth Wesley
Senior Lab Technician

EW/ds

Enclosures

cc: ✓ New Mexico Oil Conservation
Carl Lane Johnson
Cy Foster

UNICHEM INTERNATIONAL INC.



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

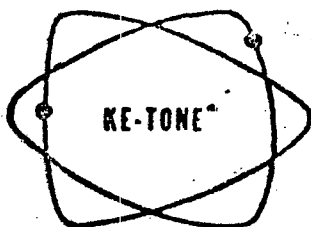
TO: Burro Pipeline
500 West Illinois
Midland, Texas 79701

DATE 4-8-81

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Well #1	Well #2	Well #3	Windmill
pH	8.80	8.05	8.12	7.58
Total Hardness as CaCO_3 (PPM)	100.00	140.00	230.00	620.00
Calcium as CaCO_3 (PPM)	8.00	70.00	56.00	420.00
Magnesium as CaCO_3 (PPM)	92.00	70.00	174.00	200.00
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	420.00	250.00	200.00	200.00
P Alkalinity as CaCO_3 (PPM)	75.00	0	0	0
Chloride as Cl (PPM)	240.00 ✓	260.00 ✓	380.00 ✓	200.00 ✓
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	3.00 ✓	232.50 ✓	465.00 ✓	193.00 ✓
Sulfite as SO_3 (PPM)				
Iron as Fe (PPM)	5.70	37.5	4.00	1.00
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
SPECIFIC GRAVITY	1.000	1.000	1.000	1.000



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

Location: Burro Pipeline
500 West Illinois
Midland, Texas 79701

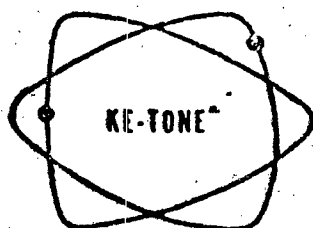
DATE Sampled 1-8-81

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Wind-mill	OB #1 No depth 19.6	OB #2 19.5 depth	OB #3 13.10 depth
pH	7.58	8.30	8.03	7.90
Total Hardness as CaCO ₃ (PPM)	520	400	740	420
Calcium as CaCO ₃ (PPM)	280	33	80	83
Magnesium as CaCO ₃ (PPM)	240	367	660	337
Total Phosphate as PO ₄ (PPM)				
Orthophosphate as PO ₄ (PPM)				
Polyphosphate as PO ₄ (PPM)				
M Alkalinity as CaCO ₃ (PPM)	125	460	260	225
P Alkalinity as CaCO ₃ (PPM)	0	0	0	0
Chloride as Cl (PPM)	72 ✓	144 ✓	152 ✓	304
Total Dissolved Solids (PPM)				
Sulfate as SO ₄ (PPM)	200 ✓	15 ✓	61 ✓	380
Sulfite as SO ₃ (PPM)				
Iron as Fe (PPM)	0	50	25	1.3
Silica as SiO ₂ (PPM)				
Carbon Dioxide as CO ₂ (PPM)				
Chromate as CrO ₄ (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific gravity	1.000	1.000	1.000	1.000

"KE-TONE Makes Water Work"



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

D: Burro Pipeline
500 West Illinois
Midland, Texas 79701

DATE Sampled 1-8-81

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Wind- mill	OB #1 No depth 19.6	OB #2 19.5 depth	OB #3 13.10 depth
pH	7.58	8.30	8.03	7.90
Total Hardness as CaCO_3 (PPM)	520	400	740	420
Calcium as CaCO_3 (PPM)	280	33	80	83
Magnesium as CaCO_3 (PPM)	240	367	660	337
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	125	460	260	225
P Alkalinity as CaCO_3 (PPM)	0	0	0	0
Chloride as Cl (PPM)	72 ✓	144 ✓	152 ✓	304
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	200 ✓	15 ✓	61 ✓	380
Sulfite as SO_3 (PPM)				
Iron as Fe (PPM)	0	50	25	1.3
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific gravity	1.000	1.000	1.000	1.000

"KE-TONE Makes Water Work"



Horne Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

January 15, 1981

Burro Pipeline
500 West Illinois
Midland, Texas 79701

Dear Sirs:

Attached is the Water Analysis Report on the four Lane Lake Observation samples submitted to our lab on January 8, 1981.

If you have any questions or require further information, please do not hesitate to contact us.

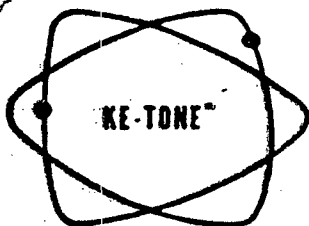
Sincerely,

A handwritten signature in cursive script that reads 'Sara Campbell'.

Sara Campbell

SC/ds

cc: ✓New Mexico Oil Conservation
Cy Foster
Carl Lane Johnson



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

TO: Burro Pipeline
500 West Illinois
Midland, Texas 79701

DATE Sampled 1-8-81

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Wind-mill	No depth	19.5 depth	13.10 depth
pH	7.58	8.30	8.03	7.90
Total Hardness as CaCO_3 (PPM)	520	400	740	420
Calcium as CaCO_3 (PPM)	280	33	80	83
Magnesium as CaCO_3 (PPM)	240	367	660	337
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	125	460	260	225
P Alkalinity as CaCO_3 (PPM)	0	0	0	0
Chloride as Cl (PPM)	72 ✓	144 ✓	152 ✓	304
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	200	15	61	380
Sulfite as SO_3 (PPM)				
Iron as Fe (PPM)	0	50	25	1.3
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific gravity	1.000	1.000	1.000	1.000

"KE-TONE Makes Water Work"



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

July 9, 1980

Burro Pipeline
500 West Illinois
Midland, Texas 79701

Dear Sir:

Attached are water analyses reports on the four Lane Lake Observation samples submitted to our lab on July 3, 1980.

If you have any questions or require further information, please do not hesitate to contact us.

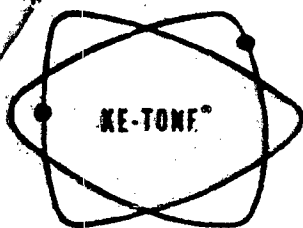
Sincerely,

Jerre Wortham
Lab Technician

JW/dd

cc: N.M. Oil Conservation
Cy Foster

UNICHEM INTERNATIONAL INC.



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

TO: Burro Pipeline
500 West Illinois
Midland, Texas 79701

DATE July 8, 1980

PLANT _____

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE

Wind-
Mill

Well
#1

Well
#2

Well
#3

pH	6.99	8.61	7.79	8.01
Total Hardness as CaCO_3 (PPM)	667	127	467	400
Calcium as CaCO_3 (PPM)	300	30	100	60
Magnesium as CaCO_3 (PPM)	367	97	367	340
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	210	440	240	120
P Alkalinity as CaCO_3 (PPM)	0	0	0	0
Chloride as Cl (PPM)	111 /	167 /	189 /	299 /
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	271	13.5	340	525
Sulfite as SO_3 (PPM)				
Iron as Fe (PPM)	none	3.1	31	15
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific Gravity	1.000	1.000	1.001	1.001



Home Office 707 N. Leach, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

April 15, 1980

Burro Pipeline
500 West Illinois
Midland, Texas 79701

Dear Sir:

Attached are water analyses reports on the four Lane Lake Observation samples submitted to our lab on April 3, 1980.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

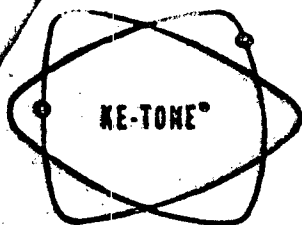
A handwritten signature in cursive script that reads 'Jerre Wortham'.

Jerre Wortham
Lab Technician

JW/lm

cc:

N. M. Oil Conservation
Cy Foster



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

TO: Burro Pipeline Corporation
500 West Illinois
Midland, Texas 79701

DATE April 15, 1980

PLANT _____

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE

	Wind- mill	Well #1	Well #2	Well #2
pH	7.68	8.03	7.65	7.90
Total Hardness as CaCO ₃ (PPM)	415	200	260	250
Calcium as CaCO ₃ (PPM)	247	25	92	55
Magnesium as CaCO ₃ (PPM)	168	175	168	195
Total Phosphate as PO ₄ (PPM)				
Orthophosphate as PO ₄ (PPM)				
Polyphosphate as PO ₄ (PPM)				
M Alkalinity as CaCO ₃ (PPM)	190	350	270	160
P Alkalinity as CaCO ₃ (PPM)	0	0	0	0
Chloride as Cl (PPM)	120	160	230	380
Total Dissolved Solids (PPM)				
Sulfate as SO ₄ (PPM)	191	1	211	410
Sulfite as SO ₃ (PPM)				
Iron as Fe (PPM)	0.18	60	66	50
Silica as SiO ₂ (PPM)				
Carbon Dioxide as CO ₂ (PPM)				
Chromate as CrO ₄ (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific Gravity	1.000	1.000	1.005	1.000



**UNICHEM
INTERNATIONAL**

Home Office 707 N. Leach, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

January 23, 1980

Burro Pipeline
500 West Illinois
Midland, Texas 79701

Dear Sir:

Attached are water analysis reports on the four Lane Lake Observation samples submitted to our lab on January 16, 1980.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

UNICHEM INTERNATIONAL

Elizabeth Wesley

Elizabeth Wesley
Senior Technician

EW/lm

cc: New Mexico Oil Conservation ✓
Cy Foster

UNICHEM INTERNATIONAL INC.



P.O. BOX 1499

HOBBS, NEW MEXICO 88240

707 NORTH LEECH

PHO: (505) 393-7751

WATER ANALYSIS REPORT

(Expressed in ppm Unless Indicated Otherwise)

FOR: Burro Pipeline

DATE SAMPLED: January 16, 1980

PLANT: Lane Lake Observation

DATE SUBMITTED:

LOCATION:

DATE ANALYZED:

SAMPLE SOURCE:

Windmill	Well #1	Well #2	Well #3
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

		7.37	8.35	8.31	8.86
pH					
Pheno. Alkalinity	(CaCO ₃)		20	10	15
Total Alkalinity	(CaCO ₃)	185	430	250	115
Bicarbonate	(HCO ₃)				
Carbonate	(CO ₃)				
Hydroxide	(OH)				
Total Hardness	(CaCO ₃)	300	130	250	170
Calcium	(CaCO ₃)	240	50	120	50
Magnesium	(CaCO ₃)	60	80	130	120
Chloride	(CL)	110	116	220	380
Sulfate	(SO ₄)	204	7	228	293
Total Phosphate	(PO ₄)				
Orthophosphate	(PO ₄)				
Polyphosphate	(PO ₄)				
Silica	(SiO ₂)				
Iron	(Fe)				
Chromate	(CrO ₄)				
Specific Conductance (MMHOS)					
Chloride Concentrations					
Hardness Concentrations					
Specific Gravity		1.000	1.000	1.000	1.000

Specific Gravity	1.000	1.000	1.000	1.000
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**UNICHEM
INTERNATIONAL**

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

January 26, 1979

Burro Pipeline Corporation
500 W. Illinois
Midland, Texas 79701

Dear Sir:

Enclosed please find our water analyses reports on the four (4) Lane Lake Observation samples, submitted January 16, 1979.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

UNICHEM INTERNATIONAL

Lucille Little

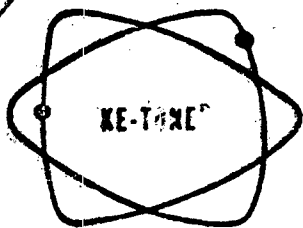
Lucille Little
Technician

LL/mdm

cc: NMOCC /
Mr. Jack Donahue
Mr. Cy Foster

Enc.

UNICHEM INTERNATIONAL INC.



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

TO: Burro Pipeline Corporation
500 W. Illinois
Midland, Texas 79701

DATE January 26, 1979

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Wind-mill	Well #1	Well #2	Well #3
pH	7.4	7.6	7.3	7.8
Total Hardness as CaCO_3 (PPM)	400	100	400	140
Calcium as CaCO_3 (PPM)	272	44	232	46
Magnesium as CaCO_3 (PPM)	128	56	168	94
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	192	312	264	152
P Alkalinity as CaCO_3 (PPM)	0	0	0	0
Chloride as Cl (PPM)	96	96	180	278
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	340	109	513	500
Sulfite as SO_3 (PPM)				
Iron as Fe (PPM)	0.10	49	19	13
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific Gravity	1.000	1.000	1.000	1.000



**UNICHEM
INTERNATIONAL**

Home Office 707 N. Leach, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

April 16, 1979

Burro Pipeline Corporation
500 W. Illinois
Midland, Texas 79701

Dear Sir:

Enclosed are the water analyses reports on the fresh water well, windmill and the three (3) Lane Lake Observation wells, submitted April 12, 1979.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

UNICHEM INTERNATIONAL

Lucille Little

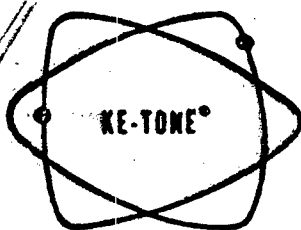
gt Lucille Little
Technician

LL/mdm

cc: NMOCC ✓
Mr. Cy Foster

Enc.

UNICHEM INTERNATIONAL INC.



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

TO: Burro Pipeline
500 W. Illinois
Midland, Texas 79701

DATE 4-16-79

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Wind- mill	Well #1	Well #2	Well #3
pH	7.6	8.6	7.8	8.8
Total Hardness as CaCO_3 (PPM)	320	120	316	140
Calcium as CaCO_3 (PPM)	234	30	126	38
Magnesium as CaCO_3 (PPM)	86	90	190	102
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	188	270	222	142
P Alkalinity as CaCO_3 (PPM)	0	20	0	12
Chloride as Cl (PPM)	92	144	200	284
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	228	158	300	400
Sulfite as SO_3 (PPM)				
Iron as Fe (PPM)	0.4	32	46	34
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific Gravity	1.000	1.000	1.000	1.000



UNICHEM
INTERNATIONAL

Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

July 13, 1979

Burro Pipeline Corporation
500 W. Illinois
Midland, TX 79701

Dear Sir:

Enclosed please find our water analyses reports on the four (4) Lane Lake Observation samples, submitted July 9, 1979.

If you have any questions or require further information, please do not hesitate to contact us.

Sincerely,

UNICHEM INTERNATIONAL

Judy Pharis

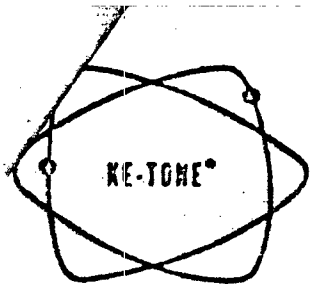
Judy Pharis
Technician

JP/mdm

cc: NMOCC
Mr. Cy Foster

Enc.

UNICHEM INTERNATIONAL INC.



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

Burro Pipeline
500 W. Illinois
Midland, TX 79701

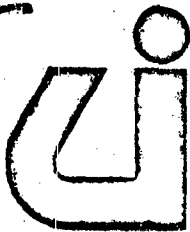
DATE 7-13-79

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

*SAMPLES COLLECTED & OBSERVATIONS
MADE ON JULY 9, 1979 BY LESLIE A. CLEMENTS*

SAMPLE SOURCE	Wind- mill		Well #1		Well #2		Well #3
	7.71		8.69		7.66		9.22
Total Hardness as CaCO ₃ (PPM)	296		90		232		116
Calcium as CaCO ₃ (PPM)	230		19		80		34
Magnesium as CaCO ₃ (PPM)	66		71		152		82
Total Phosphate as PO ₄ (PPM)							
Orthophosphate as PO ₄ (PPM)							
Polyphosphate as PO ₄ (PPM)							
Alkalinity as CaCO ₃ (PPM)	185		240		210		165
Alkalinity as CaCO ₃ (PPM)	0		30		0		40
Chloride as Cl (PPM)	90		148		205		278
Total Dissolved Solids (PPM)							
Sulfate as SO ₄ (PPM)	207		117		222		375
Sulfite as SO ₃ (PPM)							
Iron as Fe (PPM)	.06		26		35		34
Silica as SiO ₂ (PPM)							
Carbon Dioxide as CO ₂ (PPM)							
Chromate as CrO ₄ (PPM)							
Specific Conductance (mmhos)							
Concentrations Chloride							
Concentrations Hardness							
Specific Gravity	1.001		1.001		1.001		1.001
DEPTH TO H ₂ O			19'-1"		18'-11"		12'-11"
ARKER LEVELS		NO. 1	11'-0"	NO. 2	10'-3"	NO. 3	11'-0"



UNICHEM
INTERNATIONAL

Home Office 707 N. Leach, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

October 24, 1979

Burro Pipeline Corporation
500 W. Illinois
Midland, Texas 79701

Dear Sir:

Enclosed please find our water analyses reports on the four (4) Lane Lake
Observation samples, submitted October 18, 1979.

If you have any questions or require further information, please do not hesitate
to contact us.

Sincerely,

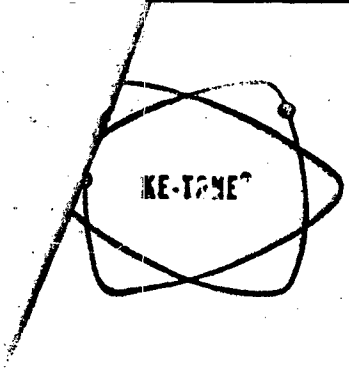
UNICHEM INTERNATIONAL

Judy Pharis
Lab Technician

JP:nd

cc: ✓ NMOCC
Cy Foster

UNICHEM INTERNATIONAL INC.



KE-TONE™

UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

TO: Burro Pipeline Corporation
500 W. Illinois
Midland, Texas 79701

DATE October 18, 1979

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Wind mill		Well #1		Well #2		Well #3
pH	7.73		8.16		8.36		9.18
Total Hardness as CaCO ₃ (PPM)	310		120		280		200
Calcium as CaCO ₃ (PPM)	275		50		100		65
Magnesium as CaCO ₃ (PPM)	35		70		180		135
Total Phosphate as PO ₄ (PPM)							
Orthophosphate as PO ₄ (PPM)							
Polyphosphate as PO ₄ (PPM)							
M Alkalinity as CaCO ₃ (PPM)	380		340		570		280
P Alkalinity as CaCO ₃ (PPM)	0		0		30		70
Chloride as Cl (PPM)	90		120		280		200
Total Dissolved Solids (PPM)							
Sulfate as SO ₄ (PPM)	211		97		193		353
Sulfite as SO ₃ (PPM)							
Iron as Fe (PPM)	.13		34		28		33
Silica as SiO ₂ (PPM)							
Carbon Dioxide as CO ₂ (PPM)							
Chromate as CrO ₄ (PPM)							
Specific Conductance (mmhos)							
Concentrations Chloride							
Concentrations Hardness							
Specific gravity	1.000		1.000		1.000		1.000



Home Office 707 N. Leech, P. O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

October 27, 1978

Burro Pipeline
500 W. Illinois
Midland, TX 79701

Dear Sir:

Enclosed are the water analyses reports on the four (4) Lane Lake Observation samples, submitted October 18, 1978.

Please let us know if additional information is needed.

Yours truly,

UNICHEM INTERNATIONAL

Lucille Little

Lucille Little
Technician

LL/mdm

cc: NMOCC ✓
Mr. Ernest Underwood

Enc.



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

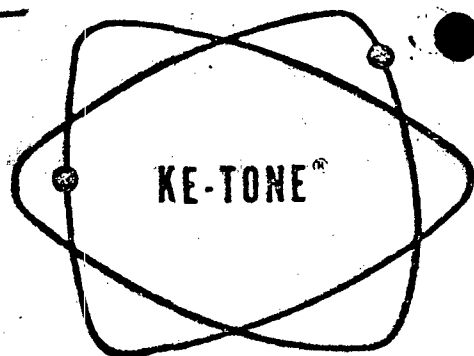
TO: Burro Pipeline
500 W. Illinois
Midland, TX

DATE October 25, 1978

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Wind- mill	Well #1	Well #2	Well #3
pH	7.6	8.6	8.1	9.35
Total Hardness as CaCO_3 (PPM)	594	66	232	80
Calcium as CaCO_3 (PPM)	440	30	96	40
Magnesium as CaCO_3 (PPM)	154	36	136	40
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	174	244	204	200
P Alkalinity as CaCO_3 (PPM)	0	24	0	58
Chloride as Cl (PPM)	168	74	186	250
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	513	105	293	430
Sulfite as SO_3 (PPM)				
Iron as Fe (PPM)	0.13	25	40	112
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific Gravity	1.000	1.000	1.000	1.000

**UNITED CHEMICAL CORPORATION**

OF NEW MEXICO

707 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

January 12, 1978

Burro Pipeline
500 W. Illinois
Midland, TX 79701

Dear Sir:

Enclosed are the water analyses reports on the four Lane Lake Observation samples submitted January 11, 1978.

Please let us know if additional information is needed.

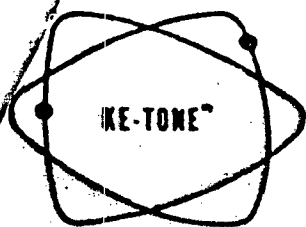
Yours truly,

UNITED CHEMICAL CORP. OF NM

Lucille Little
Lucille Little
Technician

LL/pv

cc: Ernest Underwood
New Mexico Oil Conservation Commission ✓
P. O. Box 1980
Hobbs, NM 88240



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

WATER ANALYSIS REPORT-(REMARKS)

TO: Burro Pipeline
500 W. Illinois
Midland, Texas 79701

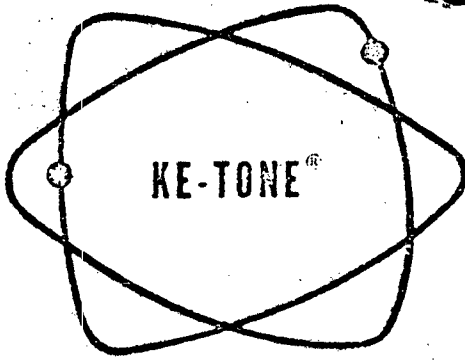
DATE January 12, 1978

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE		well	well	well			
	windmill	1	2	3			
pH	7.1	7.65	7.7	8.8			
Total Hardness as CaCO_3 (PPM)	316	138	240	144			
Calcium as CaCO_3 (PPM)	240	58	100	54			
Magnesium as CaCO_3 (PPM)	76	80	140	90			
Total Phosphate as PO_4 (PPM)							
Orthophosphate as PO_4 (PPM)							
Polyphosphate as PO_4 (PPM)							
M Alkalinity as CaCO_3 (PPM)	192	262	304	202			
P Alkalinity as CaCO_3 (PPM)	0	0	0	48			
Chloride as Cl (PPM)	74	244	292	314			
Total Dissolved Solids (PPM)							
Sulfate as SO_4 (PPM)	210	205	154	370			
Sulfite as SO_3 (PPM)							
Iron as Fe (PPM)	0.18	23	40	14			
Silica as SiO_2 (PPM)							
Carbon Dioxide as CO_2 (PPM)							
Chromate as CrO_4 (PPM)							
Specific Conductance (mmhos)							
Concentrations Chloride							
Concentrations Hardness							
Specific Gravity	1.000	1.000	1.000	1.000			

TELEPHONE: HOBBS 393-7751
Area Code 505



UNITED CHEMICAL CORPORATION
OF NEW MEXICO

601 NORTH LEECH

P. O. BOX 1499

HOBBS, NEW MEXICO 88240

January 19, 1977

Burro Pipeline
Box 1714
Midland, TX 79701

Attention: Mr. Ben Gould

Dear Mr. Gould:

Enclosed please find our water analyses reports on the samples submitted
January 14, 1977.

Please let us know if additional information is needed.

Very truly yours,

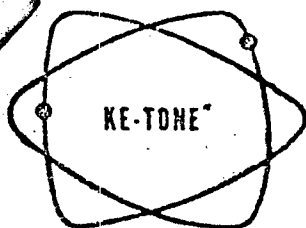
UNITED CHEMICAL CORP. of N.M.

Lucille Little
Lucille Little
Analyst

LL/jw

cc: Pacho Jara
Jerry Sexton
Melvin Crossland ✓
Cy Foster

===== *Makes Water Work* =====



UNITED CHEMICAL CORPORATION

OF NEW MEXICO

601 NORTH LEECH
P.O. BOX 1499
HOBBS, NEW MEXICO
88240

PHONE
(505)
393-7751

TO: Burro Pipeline
Box 1714
Midland, TX 79701

DATE 1-18-77

PLANT Lane Lake Observation

REMARKS AND RECOMMENDATIONS

SAMPLE SOURCE	Lane Ranch Wind- mill	Well #1	Well #2	Well #3
pH	7.5	7.65	7.5	8.0
Total Hardness as CaCO_3 (PPM)	360	164	220	152
Calcium as CaCO_3 (PPM)	262	58	110	50
Magnesium as CaCO_3 (PPM)	98	106	110	102
Total Phosphate as PO_4 (PPM)				
Orthophosphate as PO_4 (PPM)				
Polyphosphate as PO_4 (PPM)				
M Alkalinity as CaCO_3 (PPM)	210	264	264	232
P Alkalinity as CaCO_3 (PPM)	0	0	0	0
Chloride as Cl (PPM)	88	176	172	256
Total Dissolved Solids (PPM)				
Sulfate as SO_4 (PPM)	305	262	173	400
Sulfite as SO_2 (PPM)				
Iron as Fe (PPM)	0.24	25	49	32.5
Silica as SiO_2 (PPM)				
Carbon Dioxide as CO_2 (PPM)				
Chromate as CrO_4 (PPM)				
Specific Conductance (mmhos)				
Concentrations Chloride				
Concentrations Hardness				
Specific Gravity	1.000	1.000	1.000	1.000