

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe , New Mexico 87505



September 26, 1995

Mr. Bill Kendrick
ENRON Operations Corp.
P.O. Box 1188
Houston, Texas 77251-1188

**RE: MONITOR WELL SAMPLING
ROSWELL COMPRESSOR STATION
TRANSWESTERN PIPELINE CO.**

Dear Mr. Kendrick:

Enclosed you will find the laboratory analytical results of the New Mexico Oil Conservation Division's (OCD) August 22, 1995 monitor well sampling at the ENRON Roswell Compressor Station.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc w/enclosure: Tim Gum, OCD Artesia District Supervisor
George Robinson, Cypress Engineering Services
Benito Garcia, NMED Hazardous and Radioactive
Materials Bureau



Analytical Technologies, Inc.

CLIENT : NMOCD DATE RECEIVED : 08/23/95
 PROJECT # : (NONE)
 PROJECT NAME : ENRON ROSWELL REPORT DATE : 08/30/95

ATI ID: 508434

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	MW-3	AQUEOUS	08/22/95
02	MW-6	AQUEOUS	08/22/95
03	MW-5	AQUEOUS	08/22/95
04	MW-8	AQUEOUS	08/22/95

---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
AQUEOUS	4

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 601/602)
 CLIENT : NMOCD ATI I.D.: 508434
 PROJECT # : (NONE)
 PROJECT NAME : ENRON ROSWELL

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	MW-3	AQUEOUS	08/22/95	NA	08/30/95	1
02	MW-6	AQUEOUS	08/22/95	NA	08/30/95	1
03	MW-5	AQUEOUS	08/22/95	NA	08/30/95	1

PARAMETER	UNITS	01	02	03
BENZENE	UG/L	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
BROMOFORM	UG/L	<0.5	<0.5	<0.5
BROMOMETHANE	UG/L	<1.0	<1.0	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2	<0.2	<0.2
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROETHANE	UG/L	<0.5	<0.5	<0.5
CHLOROFORM	UG/L	<0.5	<0.5	<0.5
CHLOROMETHANE	UG/L	<1.0	<1.0	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0	<1.0	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2	<0.2	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2	<0.2	<0.2
ETHYLBENZENE	UG/L	<0.5	<0.5	<0.5
METHYL-t-BUTYL ETHER	UG/L	<2.5	<2.5	<2.5
METHYLENE CHLORIDE	UG/L	<2.0	<2.0	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2	<0.2 D(1)	<0.2
TETRACHLOROETHENE	UG/L	<0.5	<0.5	<0.5
TOLUENE	UG/L	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0	<1.0	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2	<0.2	<0.2
TRICHLOROETHENE	UG/L	<0.2	<0.2	<0.2
TRICHLOROFLUOROMETHANE	UG/L	<0.2	<0.2	<0.2
VINYL CHLORIDE	UG/L	<0.5	<0.5	<0.5
TOTAL XYLENES	UG/L	<0.5	<0.5	<0.5

SURROGATES:

BROMOCHLOROMETHANE (%)	95	92	96
TRIFLUOROTOLUENE (%)	102	109	103

D(1)=DILUTED 1X, ANALYZED 08/29/95



GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 601/602)
 CLIENT : NMOCD ATI I.D.: 508434
 PROJECT # : (NONE)
 PROJECT NAME : ENRON ROSWELL

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	MW-8	AQUEOUS	08/22/95	NA	08/30/95	1
PARAMETER			UNITS	04		
BENZENE			UG/L	4.6		
BROMODICHLOROMETHANE			UG/L	<0.2		
BROMOFORM			UG/L	<0.5		
BROMOMETHANE			UG/L	<1.0		
CARBON TETRACHLORIDE			UG/L	<0.2		
CHLOROENZENE			UG/L	<0.5		
CHLOROETHANE			UG/L	<0.5		
CHLOROFORM			UG/L	<0.5		
CHLOROMETHANE			UG/L	<1.0		
DIBROMOCHLOROMETHANE			UG/L	<0.2		
1,2-DIBROMOETHANE (EDB)			UG/L	<0.2		
1,2-DICHLOROBENZENE			UG/L	<0.5		
1,3-DICHLOROBENZENE			UG/L	<0.5		
1,4-DICHLOROBENZENE			UG/L	<0.5		
1,1-DICHLOROETHANE			UG/L	<0.2		
1,2-DICHLOROETHANE (EDC)			UG/L	<0.5		
1,1-DICHLOROETHENE			UG/L	<0.2		
CIS-1,2-DICHLOROETHENE			UG/L	<0.2		
TRANS-1,2-DICHLOROETHENE			UG/L	<1.0		
1,2-DICHLOROPROPANE			UG/L	<0.2		
CIS-1,3-DICHLOROPROPENE			UG/L	<0.2		
TRANS-1,3-DICHLOROPROPENE			UG/L	<0.2		
ETHYLBENZENE			UG/L	<0.5		
METHYL-t-BUTYL ETHER			UG/L	<2.5		
METHYLENE CHLORIDE			UG/L	<2.0		
1,1,2,2-TETRACHLOROETHANE			UG/L	<0.2		
TETRACHLOROETHENE			UG/L	<0.5		
TOLUENE			UG/L	<0.5		
1,1,1-TRICHLOROETHANE			UG/L	<1.0		
1,1,2-TRICHLOROETHANE			UG/L	<0.2		
TRICHLOROETHENE			UG/L	<0.2		
TRICHLOROFLUOROMETHANE			UG/L	<0.2		
VINYL CHLORIDE			UG/L	<0.5		
TOTAL XYLENES			UG/L	<0.5		

SURROGATES:

BROMOCHLOROMETHANE (%)
 TRIFLUOROTOLUENE (%)

97
 104

GAS CHROMATOGRAPHY RESULTS - QUALITY CONTROL

REAGENT BLANK

TEST	: EPA 601/602	ATI I.D.	: 508434
BLANK I.D.	: 082995	MATRIX	: AQUEOUS
CLIENT	: NMOCD	DATE EXTRACTED	: NA
PROJECT #	: (NONE)	DATE ANALYZED	: 08/29/95
PROJECT NAME	: ENRON ROSWELL	DIL. FACTOR	: 1

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
BROMODICHLOROMETHANE	UG/L	<0.2
BROMOFORM	UG/L	<0.5
BROMOMETHANE	UG/L	<1.0
CARBON TETRACHLORIDE	UG/L	<0.2
CHLOROBENZENE	UG/L	<0.5
CHLOROETHANE	UG/L	<0.5
CHLOROFORM	UG/L	<0.5
CHLOROMETHANE	UG/L	<1.0
DIBROMOCHLOROMETHANE	UG/L	<0.2
1,2-DIBROMOETHANE (EDB)	UG/L	<0.2
1,2-DICHLOROBENZENE	UG/L	<0.5
1,3-DICHLOROBENZENE	UG/L	<0.5
1,4-DICHLOROBENZENE	UG/L	<0.5
1,1-DICHLOROETHANE	UG/L	<0.2
1,2-DICHLOROETHANE (EDC)	UG/L	<0.5
1,1-DICHLOROETHENE	UG/L	<0.2
CIS-1,2-DICHLOROETHENE	UG/L	<0.2
TRANS-1,2-DICHLOROETHENE	UG/L	<1.0
1,2-DICHLOROPROPANE	UG/L	<0.2
CIS-1,3-DICHLOROPROPENE	UG/L	<0.2
TRANS-1,3-DICHLOROPROPENE	UG/L	<0.2
ETHYLBENZENE	UG/L	<0.5
METHYL-t-BUTYL ETHER	UG/L	<2.5
METHYLENE CHLORIDE	UG/L	<2.0
1,1,2,2-TETRACHLOROETHANE	UG/L	<0.2
TETRACHLOROETHENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
1,1,1-TRICHLOROETHANE	UG/L	<1.0
1,1,2-TRICHLOROETHANE	UG/L	<0.2
TRICHLOROETHENE	UG/L	<0.2
TRICHLOROFLUOROMETHANE	UG/L	<0.2
VINYL CHLORIDE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
SURROGATES:		
BROMOCHLOROMETHANE (%)		107
TRIFLUOROTOLUENE (%)		108



GAS CHROMATOGRAPHY - QUALITY CONTROL

MSMSD

TEST : PURGEABLE HALOCARBONS/AROMATICS (EPA 601/602)
 MSMSD # : 50843401 ATI I.D. : 508434
 CLIENT : NMOCD DATE EXTRACTED : NA
 PROJECT # : (NONE) DATE ANALYZED : 08/30/95
 PROJECT NAME : ENRON ROSWELL SAMPLE MATRIX : AQUEOUS
 REF. I.D. : 50843401 UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD
BENZENE	<0.5	10	9.3	93	9.5	95	2
CHLOROBENZENE	<0.5	10	9.7	97	10	100	3
1,1-DICHLOROETHENE	<0.2	10	7.5	75	7.9	79	5
TOLUENE	<0.5	10	9.5	95	9.7	97	2
TRICHLOROETHENE	<0.2	10	9.6	96	9.4	94	2

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

LABORATORY SAMPLE RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS	REMARKS					
SAMPLERS: (Signature)										
DATE	TIME	STATION LOCATION								
Olson, Sanchez (505) 827-7154				601/002						
-01	950822 1200	MW-3		2	2					
-02	950822 1330	MW-6		2	2					
-03	950822 1445	MW-5		2	2					
-04	950822 1600	MW-8		2	2					
Relinquished by: (Signature)		Date / Time	Received by: (Signature)		SEALS INTACT <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
Relinquished by: (Signature)		Date / Time	Received by: (Signature)							
Relinquished by: (Signature)		Date / Time	Received for Laboratory by: (Signature)		Date / Time	Remarks				
[Signature]		8/23/95 1500	[Signature]		8/23	1500	Cold=Y Intact=Y # = 8 Normal TAT			