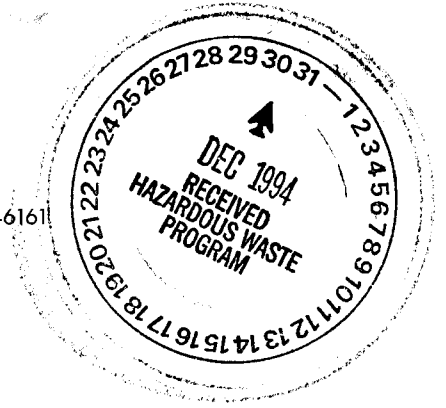


# ENRON OPERATIONS CORP.

P. O. Box 1188 Houston, Texas 77251-1188 (713) 853-6161



December 20, 1994

Ms. Barbara Hoditschek  
New Mexico Environment Department  
Hazardous & Radioactive Materials Bureau  
525 Camino de Los Marquez  
P.O. Box 26110  
Santa Fe, NM 87502

VIII

RE: Sampling Plan for Water Wells Within Two Miles of the Site  
Transwestern Pipeline Company Roswell Compressor Station

Dear Ms. Hoditschek,

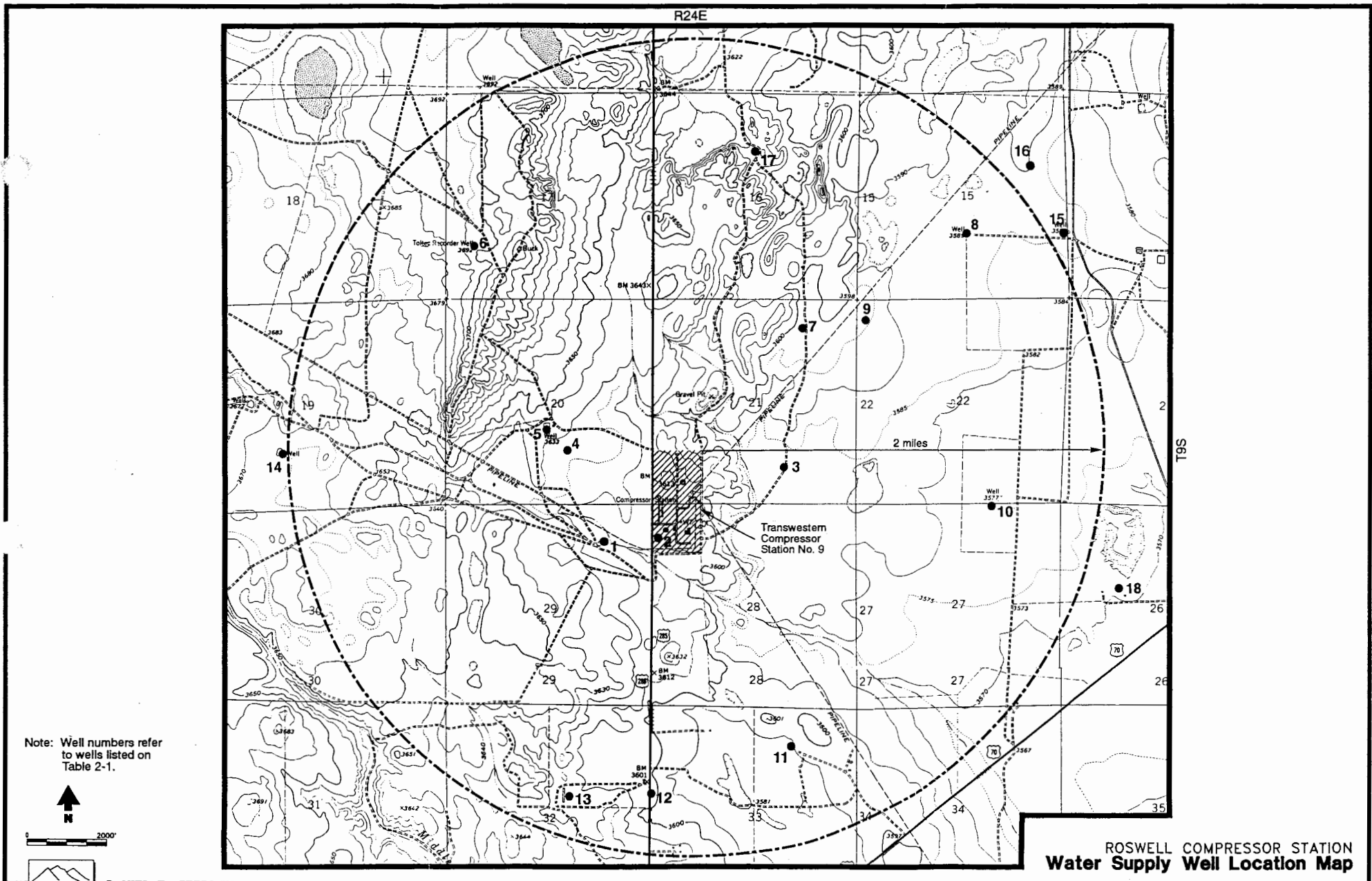
Transwestern Pipeline Company (TPC) has recently completed an effort to locate and characterize the existing conditions and current use of ground water production wells located within two miles of the Roswell Station. Efforts were concentrated on those wells closest to the site and those potentially downgradient (to the east). A location map and a summary of the information obtained are attached.

Wells indicated on the attached location map as #1, #2, #3, #5, #7, #8, #9, #10, #15, #16, and #18 were visually inspected. A GPS instrument was used to determine the precise location of these wells. Although the State Engineers Office records indicate that well #4 is located near the Roswell Station, no evidence of this well could be found other than the abandoned remnants of an irrigation ditch in the general vicinity. Well #17 was viewed from a distance and was verified to be active by a representative of the State Land Office.

The results of this effort indicate that there are three water wells of potential interest which could be sampled without considerable effort. The first is the on-site observation well completed in the San Andres formation and indicated on the attached location map as well #2. The second is an abandoned stock well located on private property in the general downgradient direction from the Roswell Station. This well is completed in the San Andres formation and is indicated as well #9 on the attached location map. The third is a well which supplies water for a gravel mining operation and is the closest production well to the site that is currently in use. This well is located on State of New Mexico property in the general upgradient direction from the Roswell Station. This well is completed in the San Andres Formation and is indicated as well #5 on the attached location map.

At this time, TPC will sample only the on-site observation well and the production well currently in use, wells #2 and #5, respectively. The primary objective for sampling well #5 is to obtain additional background ground water quality data for the San Andres formation aquifer. TPC does not propose to sample well #9 at this time because it is located on private property and would subject ENRON to a potential liability not commensurate with the expected value of the information to be gained from sampling this well.

The procedures for collecting ground water samples from wells #2 and #5 will follow the applicable Standard Operating Procedures (SOP) included in the closure plan previously submitted for the subject site and dated May 31, 1994. Ground water samples will be collected and submitted to a qualified lab for the analyses shown in Table 1.



Note: Well numbers refer to wells listed on Table 2-1.



0 2000'



DANIEL B. STEPHENS & ASSOCIATES, INC.  
12-94 JN 4115

ROSWELL COMPRESSOR STATION  
Water Supply Well Location Map

Figure 2-5

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**Table 2-1. Water Supply Wells Located Within 2 Miles of Roswell Compressor Station No. 9**

Well Number <sup>1</sup>	Latitude	Longitude	Well ID	Well Depth (ft)	Depth to Water (ft) / Year	Aquifer	Distance From Site (miles)	Date Drilled	Use	Status
1	333028	1043119	09S.24E.29.223313	NA	63 / 1961	San Andres Fm	0.66	NA	Livestock	Abandoned; plugged
2	333031	1043103	09S.24E.28.113132	352	65 / 1994	San Andres Fm	0.49	09/17/69	Observation	Abandoned; open
3	333050	1043025	09S.24E.21.43213	58	15 / 1937	Alluvial Fill	0.45	NA	Livestock	Abandoned; plugged
4	333053	1043134	09S.24E.20.413	NA	NA	San Andres Fm	0.63	NA	NA	Abandoned; not found
5	333059	1043135	09S.24E.20.32422	370	63 / 1948	San Andres Fm	0.73	NA	Industrial	In Use
6	333145	1043159	09S.24E.17.331222	208	119 / 1948	Artesia Group	1.54	NA	Observation	NA
7	333128	1043022	09S.24E.21.2124	NA	NA	NA	0.83	NA	Livestock	Abandoned; plugged
8	333149	1042931	09S.24E.15.41313	425	47 / 1961	San Andres Fm	1.72	03/18/59	Irrigation	In Use
9	333128	1043004	09S.24E.22.1113	386	281 / 1968	San Andres Fm	1.06	NA	Livestock	Abandoned; open
10	333041	1042924	09S.24E.27.21212	NA	NA	NA	1.50	NA	Irrigation	Not in use
11	332934	1043021	09S.24E.33.21443	510	53 / 1965	San Andres Fm	1.60	NA	Irrigation	NA
12	332927	1043106	09S.24E.32.242443	NA	43 / 1961	Artesia Group	1.66	NA	Livestock	Abandoned
13	332921	1043134	09S.24E.32.233324	116	72 / 1960	San Andres Fm	1.86	NA	Livestock	NA
14	333055	1043236	09S.24E.19.41331	550	126 / 1962	San Andres Fm	2.01	NA	Irrigation	NA
15	333151	1042903	09S.24E.15.42442	375	55 / 1959	San Andres Fm	2.08	12/15/58	Domestic	Abandoned; open
16	333207	1042914	09S.24E.15.24321	365	66 / 1966	San Andres Fm	2.12	11/15/65	Irrigation	Abandoned; has pump
17	333211	1043037	09S.24E.16.1422	NA	NA	NA	1.53	NA	Irrig/Stock	In Use
18	333021	1042845	09S.24E.26.1431	NA	NA	NA	2.15	NA	Domestic	In Use

Sources: USGS Ground-Water Site Inventory; field verification by Transwestern using GPS.

<sup>1</sup> Well numbers correspond to well locations shown on Figure 2-5.

NA = Not available

Table 1. Ground water sample analysis for production wells #2 and #5.

Method	Compound Class/Analyte	Well #2	Well #5	Comment
8240	Volatile Organics	yes	yes	
8270	Semi-Volatile Organics	yes	no	not included for well #5 because prior experience at other TPC sites indicates that semi-volatile organic compounds will not be present at a distance from the source area without the presence of more mobile and prevalent volatile organics
8080	Organochlorine Pesticides and PCB's	yes	no	not included for well #5 because this compound class is highly immobile in the subsurface and could not reasonably be expected to have migrated the distance to well #5
8140	Organophosphorus Pesticides	no	no	not included for wells #2 or #5 because pesticides are not potential constituents of concern at this site
8150	Chlorinated Herbicides	no	no	not included for wells #2 or #5 because herbicides are not potential constituents of concern at this site
8280	Polychlorinated Dibenzo-P-Dioxins and Polychlorinated Dibenzo Furans	no	no	not included for wells #2 or #5 because these compounds are not potential constituents of concern at this site
6010	App. IX metals	yes	yes	
7470	Mercury	yes	yes	
9010	Cyanide	yes	yes	
9030	Sulfide	yes	yes	
160.1	Total Dissolved Solids	yes	yes	not an App. IX analyte
6010	Ca, K, Mg, Na, Cu, Fe, Mn, and Zn	yes	yes	not an App. IX analyte
310.1	Alkalinity	yes	yes	not an App. IX analyte
325.2	Chloride	yes	yes	not an App. IX analyte
353.2	Nitrite/Nitrate-N, Total	yes	yes	not an App. IX analyte
375.2	Sulfate	yes	yes	not an App. IX analyte

Notes:

- 1) yes/no - A ground water sample will/(will not) be analyzed by the method indicated.
- 2) All Appendix IX constituents can be detected by the first ten methods listed.

We believe it is important to include this information in the modified closure plan since this plan may be subject to public review and comment. In order to obtain analytical results in time to include in the modified closure plan, TPC has tentatively scheduled to collect the ground water samples on Thursday, December 22, 1994. If you have any questions or comments regarding this issue, please contact me at (713) 646-7644 or George Robinson at (713) 646-7327.

Sincerely,



Bill Kendrick  
 Projects Group Manager  
 EOC Environmental Affairs

gcr/BK

cp w/enclosures: Roger Anderson NMOCD Santa Fe, NM