

# Umetco Minerals Corporation

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September 30, 2005

Mr. Richard Weller, Project Manager  
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Division of Fuel Cycle Safety and Safeguards  
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**Subject: Nuclear Regulatory Commission Annual Report  
Gas Hills, Wyoming  
For the report period July 2004 through June 2005**

**Reference: License SUA-648, Docket No. 40-0299**

Dear Mr. Weller,

Umetco Minerals Corporation hereby submits two copies of the Gas Hills, Wyoming Annual Report prepared in accordance with License SUA-648. This document is submitted in accordance with License Conditions 10, 16, 32, 34, 35, and 39 for the above report period.

If you or your staff have any questions, please call me at (970) 256-8889.

Sincerely,

Thomas E. Gieck  
Reclamation Leader

Enclosures

c : NRC Region IV (Arlington, TX)  
M. Moxley (WDEQ Lander)  
J. Murkin (BLM Casper)  
J. Kelly (BLM Lander)

**Nuclear Regulatory Commission  
Annual Report  
for  
Gas Hills, Wyoming**

**July 2004 through June 2005**

**License SUA-648  
Docket Number 40-0299**

**Umetco Minerals Corporation  
2754 Compass Drive, Suite 280  
Grand Junction, Colorado 81506**

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**September 2005**

## CONTENTS

|     |   |    |
|-----|---|----|
| 1.0 | INTRODUCTION .....  | 1  |
| 2.0 | ORGANIZATIONAL CHART .....                                    | 2  |
| 3.0 | ALARA AUDIT .....   | 4  |
| 4.0 | ANNUAL LAND USE SURVEY .....                                  | 5  |
| 4.1 | Private Residences .....                                      | 5  |
| 4.2 | Grazing .....   | 5  |
| 4.3 | Private and Public Potable Water and Agricultural Wells ..... | 6  |
| 4.4 | Other Operations .....  | 6  |
| 5.0 | AIR SAMPLING .....  | 7  |
| 6.0 | GROUNDWATER MONITORING REVIEW .....                           | 9  |
| 6.1 | Annual Sampling .....   | 9  |
| 6.2 | Semi-Annual Sampling .....                                    | 11 |
| 7.0 | REFERENCES .....  | 13 |



## **TABLES**

|           |   |    |
|-----------|---|----|
| Table 2.1 | 2005 Organizational Chart .....                                     | 3  |
| Table 5.1 | Radon-222 Data for July 2004 to June 2005 .....                     | 7  |
| Table 5.2 | Gamma Monitoring Data for July 2004 to June 2005 .....              | 8  |
| Table 6.1 | Annual Sampling Results for the Western Flow Regime .....           | 10 |
| Table 6.2 | Annual Sampling Results for the Southwestern Flow Regime.....       | 10 |
| Table 6.3 | Semi-Annual Sampling Results for the Western Flow Regime.....       | 11 |
| Table 6.4 | Semi-Annual Sampling Results for the Southwestern Flow Regime ..... | 12 |

## **FIGURES**

|                    |  |
|--------------------|--|
| Figure 1 .....     | Air, Direct Radiation, and Radon Sample Locations                            |
| Figure 2 .....     | Groundwater Monitor Wells  |
| Figure 3 .....     | Analyte Data for Point of Compliance Wells                                   |
| Figure 4 .....     | Natural Uranium Data for East Gas Hills Monitor Wells                        |
| Figures 5 - 12 ... | Concentration Trends in Western Flow Regime POC Wells                        |
| Figures 13 - 20 .  | Concentration Trends in Southwestern Flow Regime POC Wells                   |
| Figure 21 .....    | Water Level Elevation Map, May - June 2005, East Gas Hills Monitor Wells     |
| Figure 22 .....    | Phreatic Elevations in Western Flow Regime POC Wells                         |
| Figure 23 .....    | Phreatic Elevations in Western Flow Regime Monitoring Wells                  |
| Figure 24 .....    | Phreatic Elevations in Southwestern Flow Regime POC Wells                    |
| Figure 25 .....    | Phreatic Elevations in Southwestern Flow Regime Monitoring Wells             |
| Figure 26 .....    | Chloride Data for East Gas Hills Monitor Wells                               |
| Figure 27 .....    | Sulfate Data for East Gas Hills Monitor Wells                                |
| Figures 28 - 29 .  | Chloride and Sulfate Trends in the Western Flow Regime POC Wells             |
| Figures 30 - 31 .  | Chloride and Sulfate Trends in the Southwestern Flow Regime POC Wells        |
| Figures 32 - 33 .  | Chloride and Sulfate Trends in the Western Flow Regime Monitoring Wells      |
| Figures 34 - 35 .  | Natural Uranium Trends in the Western Flow Regime Monitoring Wells           |
| Figures 36 - 37 .  | Chloride and Sulfate Trends in the Southwestern Flow Regime Monitoring Wells |
| Figure 38 .....    | Natural Uranium Trends in the Southwestern Flow Regime Monitoring Wells      |

## **APPENDICES**

|            |   |
|------------|---|
| Appendix A | Water Rights Within Five-Mile Radius of East Gas Hills Site |
| Appendix B | Water Rights Within Proposed Land Transfer Boundary         |

## **1.0 INTRODUCTION**

This document is submitted in accordance with U. S. Nuclear Regulatory Commission (NRC) License No. SUA-648 Amendment Number 55, Conditions 10B, 16, 32, 34, 35, and 39, Docket Number 40-0299, for the former uranium mill site at Gas Hills, Wyoming. The report includes the Umetco Minerals Corporation (Umetco) organizational structure, environmental monitoring report, land use survey, and groundwater monitoring review for the period between July 1, 2004 and June 30, 2005.

## 2.0 ORGANIZATIONAL CHART

In accordance with License Condition 10B, the authority and responsibilities of each management level for Umetco are presented in Table 2.1 and are described below. Because of the completion of remedial activities, including the final stabilization of the Above Grade Tailings, Heap Leach and A-9 repositories, Umetco has only one on-site employee, the Site Superintendent. The Radiation Safety Officer is a contract employee.

Umetco is a wholly owned subsidiary of Union Carbide Corporation. Union Carbide is a wholly owned subsidiary of the Dow Chemical Company (Dow).

The President of Umetco is responsible for all practices and decisions made by the personnel reporting to him and reports to the Vice President of Environmental, Health and Safety at Dow.

The General Manager is responsible to the President of Umetco for conducting the firm's operations, programs and practices.

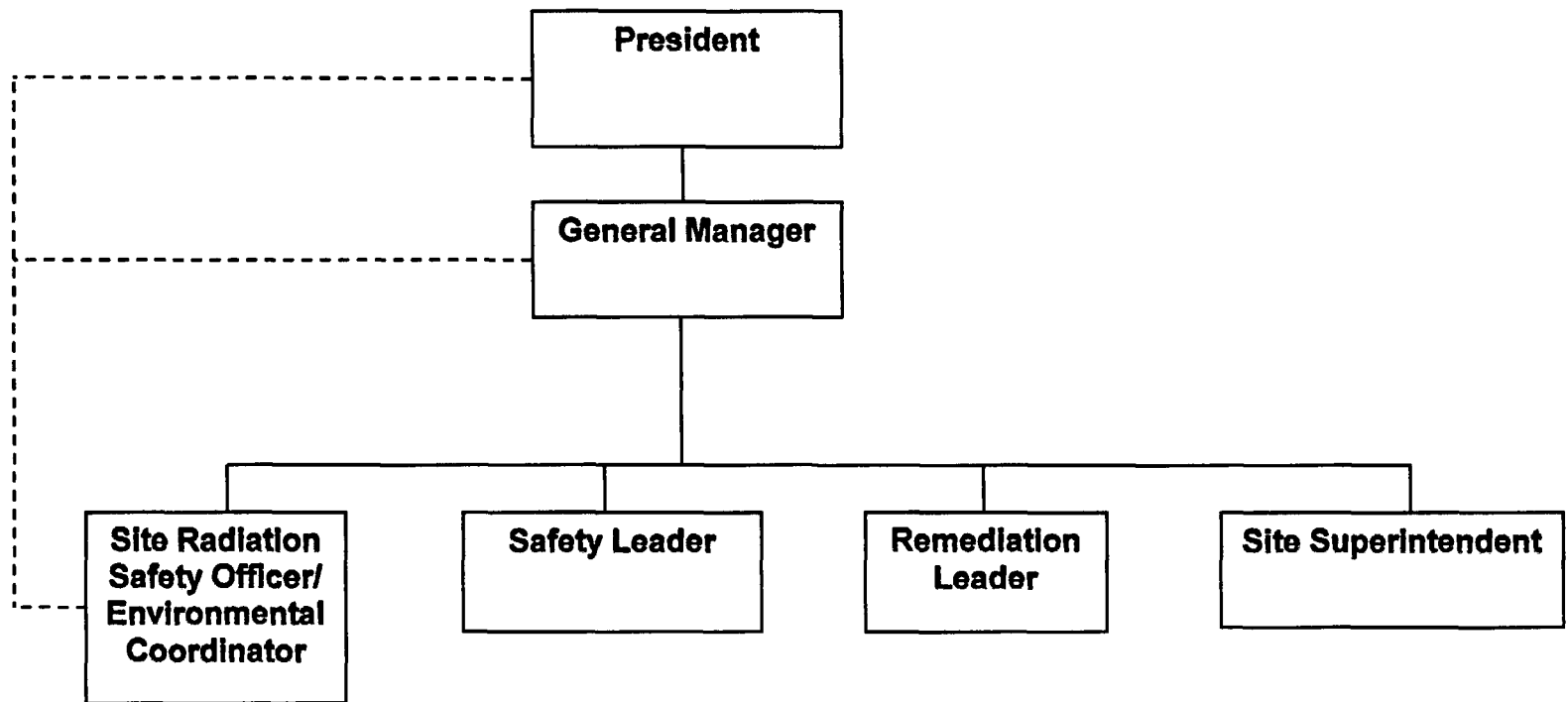
The Safety Leader reports to the General Manager and provides surveillance and guidance to the reclamation personnel. The Safety Leader is also responsible for occupational health and periodically audits the Gas Hills operations to identify potential liabilities and recommend appropriate responses.

The Remediation Leader reports to the General Manager and provides site management.

The Site Superintendent reports directly to the General Manager and is responsible for compliance with the corporation's operational, health, radiation, safety and environmental practices and standards. The Site Superintendent is responsible for the day-to-day operating decisions at the site.

The Radiation Safety Officer/Environmental Coordinator is responsible for conducting activities that ensure the site radiation safety program meets applicable standards. This involves monitoring, evaluating personnel exposure and area surveys, overseeing the radiation protection program, providing appropriate training, maintaining monitoring equipment, and reporting. The Radiation Safety Officer/Environmental Coordinator develops and coordinates procedure modifications for radiological protection and ALARA policy adherence. The Radiation Safety Officer/Environmental Coordinator is authorized to address concerns to the President of Umetco. In routine matters of radiation safety, the Radiation Safety Officer/Environmental Coordinator reports directly to the General Manager. The Radiation Safety Officer/Environmental Coordinator is also responsible for conducting industrial hygiene activities.

**Table 2.1      2005 Organization Chart for Umetco Minerals Corporation**



### **3.0 ALARA AUDIT**

As required by License Condition 16, an ALARA audit was completed on September 14, 2005. A copy of the annual ALARA audit report is retained at the East Gas Hills site office and is available for NRC review.

The dose assessment for an individual member of the public for the reporting period of July 2004 through June 2005 was calculated to be 63 millirem, which is less than the public dose limit of 100 millirem.

#### **4.0 ANNUAL LAND USE SURVEY**

The annual land use survey was prepared in accordance with License Condition 32. Mining, mine reclamation, mineral exploration (for oil and gas), recreational use and seasonal grazing are the primary land uses within the five-mile radius of the Gas Hills site. Five changes in land use have occurred within the survey area since the 2004 annual report was submitted and are listed below:

1. Rock Springs Minerals has started mining bentonite near the Clay Borrow Pit, operated by Umetco.
2. Umetco was granted an Incidental Boundary Revision (IBR) to Wyoming Department of Environmental Quality – Land Quality Division Permit No. 349C. The IBR increased the permit area by approximately 82.5 acres on the western permit boundary. The northern portion will provide frost protection material for the reclamation of the GHP-2 area during the 2005 construction season. The southern portion is needed for regrading activities associated with the former North and South Evaporation Ponds.
3. Umetco has initiated the reclamation of GHP-2. Reclamation of the C-18 Pit and GHP-2 are scheduled for completion in 2005.
4. The Kinder Morgan compressor station was enlarged and additional buildings and equipment have been added.
5. The Bureau of Land Management issued a right-of-way grant (WYW156362) to Barnhart Drilling Co. Inc. for an access and water haul road to the Cross Meadows Federal 12-1 oil and gas lease. The right-of-way is approximately 4 miles west of the East Gas Hills site. The project is subject to restrictions between December 30 and June 1.

The following sections document current land uses.

#### **4.1 Private Residences**

Umetco's Gas Hills site is located in a sparsely populated area within Natrona and Fremont counties in central Wyoming. The majority of the land within five miles of the site is public domain under Bureau of Land Management jurisdiction.

The nearest residence, the JE Ranch, is approximately five miles northeast of the site. It is occupied for one to two weeks per year. The nearest full-time residents are located approximately eight miles to the west-southwest at the Puddle Spring Ranch.

#### **4.2 Grazing**

Cattle are the primary livestock in the area and normally graze between April and October. Sheep graze in the early winter months. Native grazing species include antelope, deer, and elk.

### **4.3 Private and Public Potable Water and Agricultural Wells**

The results of the ground water and surface water rights search are given in Appendix A.

### **4.4 Other Operations**

Umetco has three permitted mines within the five-mile radius. Two of these mines, the Rattlesnake Quarry (active) and the Dutton Limestone Quarry (inactive), produce rock for the reclamation activities at the East Gas Hills site. The third permitted mine, the Clay Borrow Pit (active), produces clay for reclamation use at the site.

The presence of tailings on the Susquehanna haul road is addressed in Addendum 2 of the Final Status Survey Report submitted to the NRC on May 11, 2005. The report concluded that no additional cleanup activities are necessary as the characteristics of the soils on the road more closely resemble those of low-grade ore/mine spoils (i.e., NORM material) rather than tailings sands and that if any spills occurred they were indistinguishable from the low-grade ore utilized to construct the roadway.

The Natrona County Road Department continued to haul and stockpile waste rock from Umetco's Rattlesnake Quarry under a free use permit issued by the Bureau of Land Management.

Power Resources, Inc. is in the permitting stage of an *in-situ* uranium mining operation, approximately 2.5 miles south of the site. Pathfinder is conducting reclamation activities at the former Lucky Mc uranium mill site, approximately six miles west of the site.

## 5.0 AIR SAMPLING

Radon and direct radiation samples were collected at Air Towers 1, 4, and 6 in accordance with License Condition 34. The air sampling locations are shown on Figure 1 and are described as follows:

- Tower 1 approximately one-sixth mile northeast of the Above Grade Tailings Impoundment (downwind),
- Tower 4 background location approximately three miles west of the site, and
- Tower 6 approximately five miles to the northeast of the site at JE Ranch (nearest residence).

In accordance with License Condition 34A, the Radiation Safety Officer determined that no air particulate sampling was necessary for the reporting period.

As required by License Condition 34B, Radon-222 was monitored at the air sampling locations. The Trak Etch detectors were submitted semi-annually to Landauer, Inc. of Glenwood, Illinois for analyses. Radon-222 data are presented in Table 5.1.

In accordance with License Condition 34C, gamma monitoring was performed quarterly at the tower locations. Results of the gamma monitoring are presented in Table 5.2.

**Table 5.1 Radon-222 Data for July 2004 to June 2005**

| Location                    | Daily Average (microcuries per milliliter, $\mu\text{Ci/mL}$ ) |                    |                 |
|-----------------------------|--|--------------------|-----------------|
|                             | Concentration  | Percent            |                 |
|                             |  | Standard Deviation | Detection Limit |
| Second Half 2004            |  |                    |                 |
| Tower 1 (downwind)          | 2.0 E-9  | 7.0                | 0.2 E-9         |
| Tower 4 (background)        | 2.0 E-9  | 6.5                | 0.2 E-9         |
| Tower 6 (nearest residence) | 0.6 E-9  | 11.5               | 0.2 E-9         |
| First Half 2005             |  |                    |                 |
| Tower 1 (downwind)          | 1.6 E-9 <sup>(1)</sup>   | 7.2                | 0.2 E-9         |
| Tower 4 (background)        | 1.6 E-9 <sup>(1)</sup>   | 7.2                | 0.2 E-9         |
| Tower 6 (nearest residence) | 0.7 E-9 <sup>(1)</sup>   | 10.2               | 0.2 E-9         |

<sup>(1)</sup> Historical data. The detectors were placed in the canisters upside down and are void.



**Table 5.2      Gamma Monitoring Data for July 2004 to June 2005**

| <b>Sample Date</b>                                  | <b>Location</b>             | <b>Direct Radiation Result<sup>(1)</sup><br/>(millirem per quarter)</b> |
|---|-----------------------------|---|
| <b>Third Quarter 2004</b><br>(July to September)    | Tower 1 – downwind          | 69  |
|   | Tower 4 – background        | 50  |
|   | Tower 6 – nearest residence | 38  |
| <b>Fourth Quarter 2004</b><br>(October to December) | Tower 1 – downwind          | 61  |
|   | Tower 4 – background        | 49  |
|   | Tower 6 – nearest residence | 37  |
| <b>First Quarter 2005</b><br>(January to March)     | Tower 1 – downwind          | 65  |
|   | Tower 4 – background        | 53  |
|   | Tower 6 – nearest residence | 38  |
| <b>Second Quarter 2005</b><br>(April to June)       | Tower 1 – downwind          | 70  |
|   | Tower 4 – background        | 50  |
|   | Tower 6 – nearest residence | 40  |

<sup>(1)</sup> Background results have not been subtracted from Tower 1 and Tower 6 data.

## 6.0 GROUNDWATER MONITORING REVIEW

Groundwater monitoring was performed in accordance with the *Groundwater Monitoring Plan, Appendix M*, dated March 2002, and revisions dated October 2002 and January 2004, as required by License Condition 35A.

### 6.1 Annual Sampling

The Point of Compliance (POC) wells (MW1, MW21A, GW7 and GW8) were sampled for the Alternate Concentration Limit (ACL) constituents identified in License Conditions 35B and 35C. The POC wells, shown on Figure 2, were sampled in May and June 2005. The analytical results are shown in Tables 6.1 and 6.2 and Figure 3.

As noted in the *Nuclear Regulatory Commission Annual Report for Gas Hills, Wyoming, July 2003 through June 2004*, the ACL for lead-210 in the Southwestern Flow Regime was exceeded. The sampling activities, analytical results, and cause of the exceedance are described in the report *Determination of Lead-210 ACL for the Southwestern Flow Regime*, dated June 2005, which was submitted to the NRC on June 15, 2005 along with an amendment request to increase the lead-210 ACL to 189 pCi/L. The lead-210 results for GW7 sampled in October 2004 and May 2005 exceed the existing ACL but do not exceed the proposed ACL.

During this report period, the ACL for radium-226 plus -228 was exceeded in Southwestern Flow Regime well GW7. Reanalysis of the same sample provided the same result. GW7 and GW8 were resampled on August 3, 2005 and the samples split between two laboratories. The resample results from ACZ Laboratories indicated a radium-226 concentration of  $320 \pm 4.5$  pCi/L and a radium-228 concentration of  $12 \pm 1$  pCi/L for GW7 and a radium-226 concentration of  $260 \pm 3.7$  pCi/L and a radium-228 concentration of  $11 \pm 1.1$  pCi/L for GW8. The results from Paragon Analytics showed radium-226 concentrations to be  $194 \pm 48$  pCi/L for GW7 and  $128 \pm 32$  pCi/L for GW8. The results of the radium-228 analyses have not been finalized to date. The difference between the laboratories results is attributed to the different methodologies used by each laboratory. Paragon Analytics uses EPA Method 903.1(m) to determine radium-226, while ACZ Laboratories uses Method 9315. Method 9315 can have a high bias as the results include the effects of radium-224 and/or radium-223 if they are present. The both laboratories results indicate that the resampled radium concentrations are less than the ACL for the Southwestern Flow Regime.

The isoconcentration map for natural uranium is given in Figure 4. Concentration trend plots for the ACL constituents were developed for the POC wells. Concentration trend plots for MW1 and MW21A (Western Flow Regime) are shown in Figures 5 through 12. The concentration trend plots for GW7 and GW8 (Southwestern Flow Regime) are shown in Figures 13 through 20. The ACL value for each constituent is indicated in the applicable concentration plots for comparison.

**Table 6.1 Annual Sampling Results for the Western Flow Regime**

| Analyte           | Units | ACL   | MW1                                    | MW21A                                 |
|-------------------|-------|-------|--|---------------------------------------|
| Arsenic           | mg/L  | 1.8   | 0.0017                                 | 0.0493                                |
| Beryllium         | mg/L  | 1.64  | 0.0004                                 | 0.021                                 |
| Lead-210          | pCi/L | 35.4  | $1.74 \pm 0.6^{(1)}$<br>$0.66 \pm 0.5$ | $0.62 \pm 0.5^{(1)}$<br>$1.1 \pm 0.6$ |
| Nickel            | mg/L  | 13.0  | 0.492                                  | 0.392                                 |
| Radium-226 + -228 | pCi/L | 250   | $20.8 \pm 1.0$                         | $21.2 \pm 1.3$                        |
| Selenium          | mg/L  | 0.161 | 0.034                                  | 0.003                                 |
| Thorium-230       | pCi/L | 57.4  | $0.01 \pm 0.1$                         | $-0.034 \pm 0.4$                      |
| Natural Uranium   | mg/L  | 11.9  | 8.18                                   | 0.0063                                |

<sup>(1)</sup> Additional samples collected on September 29, 2004 (MW21) and October 6, 2004 (MW1).

**Table 6.2 Annual Sampling Results for the Southwestern Flow Regime**

| Analyte           | Units | ACL  | GW7   | GW8  |
|-------------------|-------|------|---|--|
| Arsenic           | mg/L  | 1.36 | 0.0028  | 0.0272   |
| Beryllium         | mg/L  | 1.70 | 0.0273  | 0.22   |
| Lead-210          | pCi/L | 46.7 | $123 \pm 4.7^{(1)}$<br>$94 \pm 2.3$<br>$27 \pm 1^{(2)}$ | $19.6 \pm 1.1^{(1)}$<br>$30 \pm 8.4$<br>$18 \pm 0.6^{(2)}$ |
| Nickel            | mg/L  | 9.34 | 0.57  | 3.2  |
| Radium-226 + -228 | pCi/L | 353  | $388.2 \pm 4.3$<br>$332 \pm 4.6^{(2)}$                  | $287.2 \pm 3.6$<br>$271 \pm 3.9^{(2)}$                     |
| Selenium          | mg/L  | 0.53 | 0.011   | 0.05   |
| Thorium-230       | pCi/L | 44.8 | $0.42 \pm 0.2$  | $1.1 \pm 0.4$  |
| Natural Uranium   | mg/L  | 34.1 | 11.9  | 22.9   |

<sup>(1)</sup> Additional samples collected on October 6, 2004.

<sup>(2)</sup> Results of resampling performed on August 3, 2005.

## 6.2 Semi-Annual Sampling

POC wells MW21A and GW7 and the non-POC wells listed in Table M-1 of Appendix M were sampled semiannually in the fall of 2004 and spring of 2005 for natural uranium, chloride, sulfate, and measured for water levels. The analytical results are shown in Table 6.3 and Table 6.4.

**Table 6.3 Semi-Annual Sampling Results for the Western Flow Regime**

| Monitoring Location    | Sampling Date | Analyte (mg/L) |         |                                |
|------------------------|---------------|----------------|---------|--------------------------------|
|                        |               | Chloride       | Sulfate | Natural Uranium <sup>(1)</sup> |
| MW1                    | 10-06-04      | 41             | 1560    | 9.84                           |
|                        | 6-02-05       | 53             | 1350    | 8.18                           |
| MW21A                  | 9-29-04       | 81             | 1630    | 0.00251                        |
|                        | 5-16-05       | 83             | 1510    | 0.0063                         |
| MW25                   | 9-28-04       | 116            | 2840    | 0.00889                        |
|                        | 5-23-05       | 110            | 2550    | 0.0093                         |
| MW28 <sup>(2)(3)</sup> | 9-30-04       | 44             | 1310    | 0.00069                        |
|                        | 5-26-05       | 43             | 1150    | 0.0011                         |
| MW164                  | 10-07-04      | 174            | 4930    | 7.14                           |
|                        | 6-02-05       | 174            | 4220    | 9.81                           |
| MW70A                  | 9-28-04       | 154            | 3080    | 3.39                           |
|                        | 5-26-05       | 158            | 2770    | 3.2                            |
| MW71B <sup>(2)</sup>   | 9-29-04       | 27             | 570     | 0.00119                        |
|                        | 5-25-05       | 32             | 600     | 0.0016                         |
| MW77                   | 9-29-04       | 4              | 610     | 0.00108                        |
|                        | 5-25-05       | 5              | 590     | <0.002                         |
| Iron Spring            | 10-11-04      | 13             | 610     | 0.0205                         |
|                        | 6-02-05       | 11             | 750     | 0.014                          |

(1) There are no action levels for natural uranium at the non-POC wells.

(2) MW28 and MW71B are Model Validation Wells for Western Flow Regime.

(3) Revised target levels given in the January 2004 revision to Appendix M.

**Table 6.4      Semi-Annual Sampling Results for the Southwestern Flow Regime**

| Monitoring Location | Sampling Date | Analyte (mg/L) |         |                                |
|---------------------|---------------|----------------|---------|--------------------------------|
|                     |               | Chloride       | Sulfate | Natural Uranium <sup>(1)</sup> |
| GW7                 | 10-06-04      | 183            | 1310    | 12                             |
|                     | 5-27-05       | 201            | 1250    | 11.9                           |
| GW8                 | 10-06-04      | 350            | 2780    | 23.4                           |
|                     | 5-27-05       | 420            | 3020    | 22.9                           |
| PW4                 | 10-07-04      | 203            | 1550    | 0.464                          |
|                     | 5-26-05       | 193            | 1540    | 0.372                          |
| MW72 <sup>(2)</sup> | 10-05-04      | 102            | 860     | 0.757                          |
|                     | 6-01-05       | 72             | 670     | 0.609                          |
| MW82 <sup>(2)</sup> | 10-05-04      | 49             | 560     | 0.0427                         |
|                     | 6-01-05       | 52             | 560     | 0.0495                         |

(1) There are no action levels for natural uranium in non-POC wells.

(2) MW72 and MW82 are Model Validation Wells for the Southwestern Flow Regime.

A water level elevation map is provided in Figure 21. Hydrographs for Western Flow Regime POC and non-POC wells are shown in Figures 22 and 23. The Southwestern Flow Regime hydrographs are shown in Figures 24 and 25. Isoconcentration maps for natural uranium, chloride and sulfate are shown in Figures 4, 26 and 27, respectively. Comprehensive isoconcentration maps for each of the ACL constituents developed from data collected prior to ACL monitoring can be found in Appendix G of the Final Application for ACLs for Gas Hills, Wyoming, (Umetco May 2001). The Appendix G isoconcentration maps provide a baseline assessment of the distribution of ACL constituents. Concentration trend plots of chloride and sulfate for the POC wells are shown in Figures 28 through 31. Chloride, sulfate and natural uranium trends for the non-POC wells are shown in Figures 32 through 37.

The chloride and sulfate results of the four groundwater model verification wells (MW71B, MW28, MW72 and MW82) were compared with the target levels for 2005 given in Tables 2 through 5 of Appendix M and its subsequent revisions. The sulfate and chloride target levels were not exceeded in any of the model verification wells.

## 7.0 REFERENCES

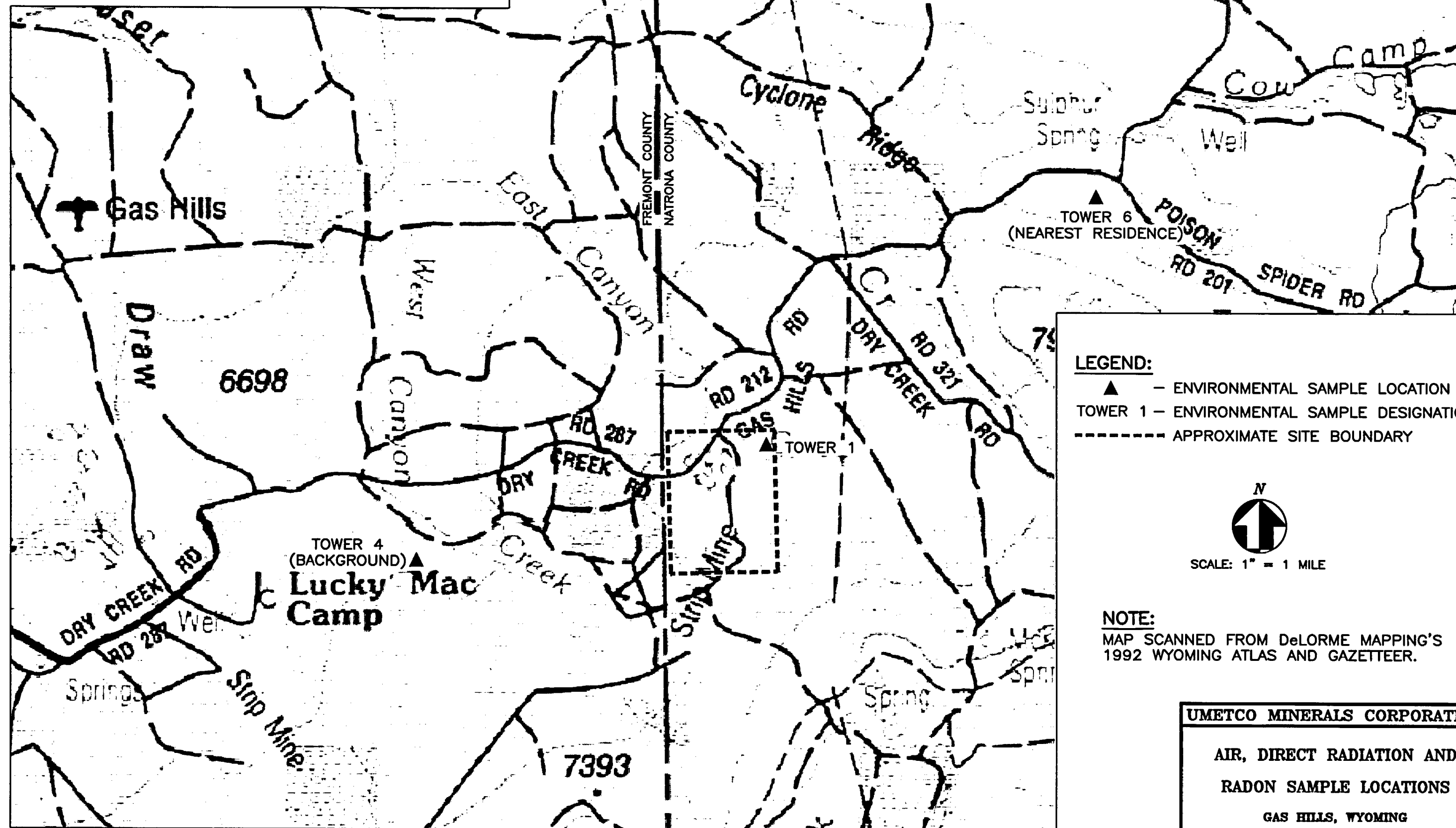
- Umetco Minerals Corporation. March 2002. *Application for Alternate Concentration Limits for Gas Hills, Wyoming, Appendix M - Groundwater Monitoring Plan.*
- Umetco Minerals Corporation. October 2002. *Application for Alternate Concentration Limits for Gas Hills, Wyoming, Appendix M – Groundwater Monitoring Plan; Revised Table M-1 and Table 5.*
- Umetco Minerals Corporation. January 2004. *Application for Alternate Concentration Limits for Gas Hills, Wyoming, Appendix M – Groundwater Monitoring Plan; Revised Table 3.*
- U. S. Nuclear Regulatory Commission. February 2004. License Condition Changes for License SUA-648-Amendment #55.

**SAMPLE DESIGNATION AND SAMPLES COLLECTED:**

TOWER 1 – AIR, DIRECT RADIATION AND RADON

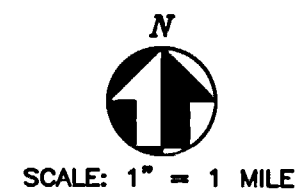
TOWER 4 – AIR, DIRECT RADIATION AND RADON

TOWER 6 – AIR, DIRECT RADIATION AND RADON



**LEGEND:**

- ▲ – ENVIRONMENTAL SAMPLE LOCATION
- TOWER 1 – ENVIRONMENTAL SAMPLE DESIGNATION
- APPROXIMATE SITE BOUNDARY



**NOTE:**

MAP SCANNED FROM DeLORME MAPPING'S 1992 WYOMING ATLAS AND GAZETTEER.

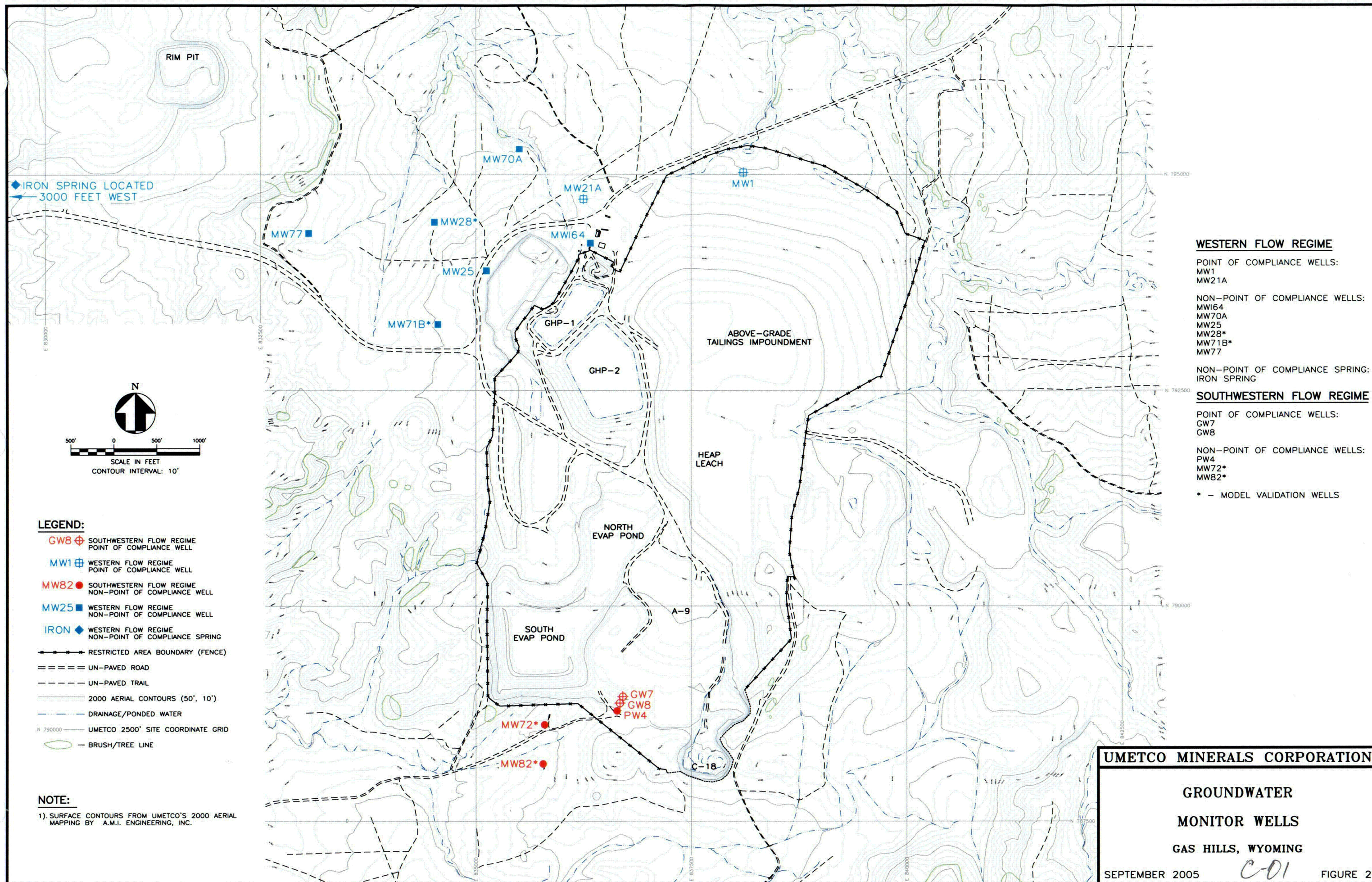
**UMETCO MINERALS CORPORATION**

**AIR, DIRECT RADIATION AND  
RADON SAMPLE LOCATIONS  
GAS HILLS, WYOMING**

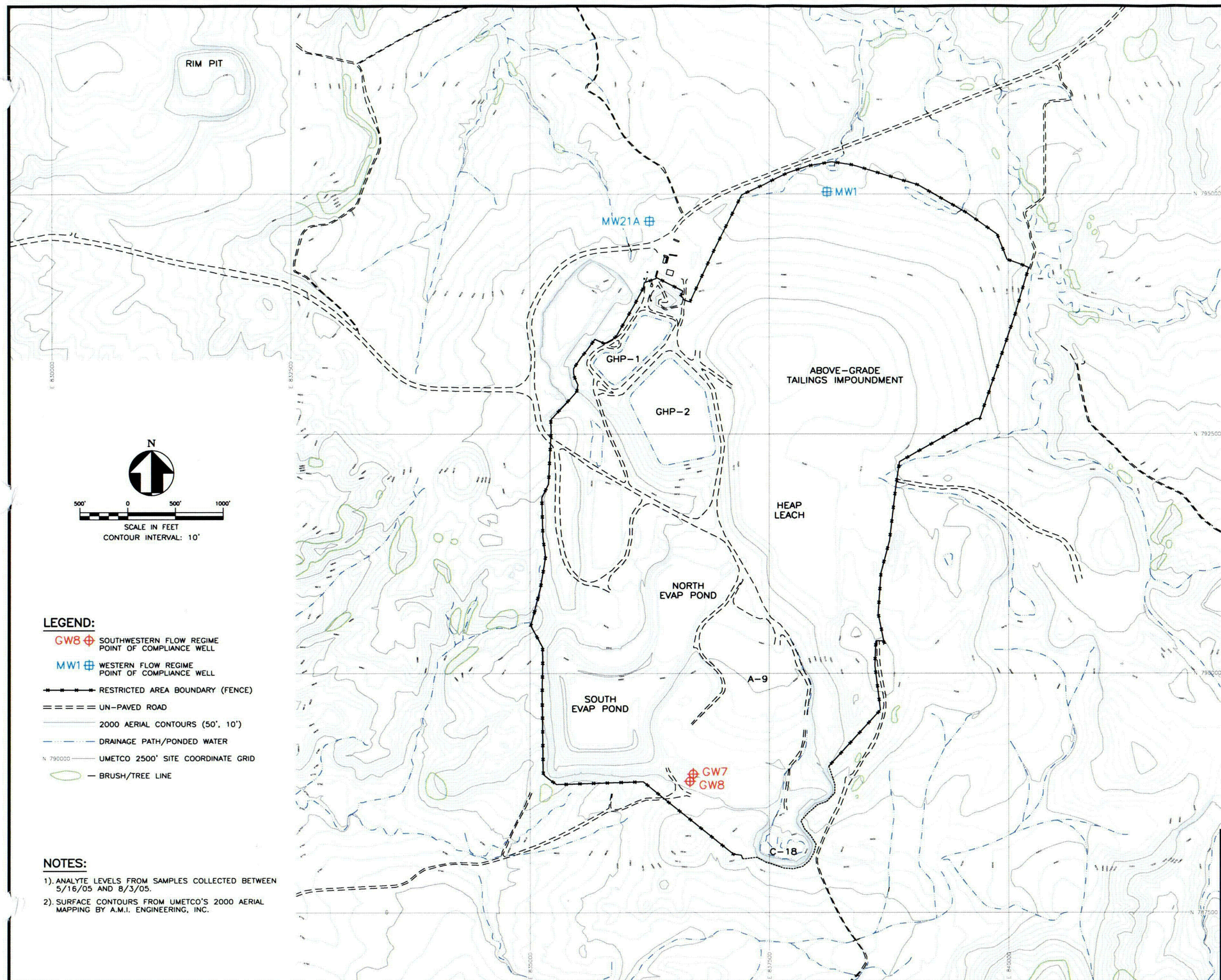
SEPTEMBER 2005

FIGURE 1









#### WESTERN FLOW REGIME ANALYTE DATA

| WELL ID | ANALYTE      | LEVEL/UNIT  | DATE      |
|---------|--------------|-------------|-----------|
| MW1     | ARSENIC      | 0.002 mg/L  | 6/2/2005  |
| MW1     | BERYLIUM     | 0.0004 mg/L | 6/2/2005  |
| MW1     | LEAD 210     | 0.66 pCi/L  | 6/2/2005  |
| MW1     | NAT. URANIUM | 8.18 mg/L   | 6/2/2005  |
| MW1     | NICKEL       | 0.492 mg/L  | 6/2/2005  |
| MW1     | RADIUM 226   | 18 pCi/L    | 6/2/2005  |
| MW1     | RADIUM 228   | 2.8 pCi/L   | 6/2/2005  |
| MW1     | SELENIUM     | 0.034 mg/L  | 6/2/2005  |
| MW1     | THORIUM 230  | 0.01 pCi/L  | 6/2/2005  |
| MW21A   | ARSENIC      | 0.049 mg/L  | 5/16/2005 |
| MW21A   | BERYLIUM     | 0.021 mg/L  | 5/16/2005 |
| MW21A   | LEAD 210     | 1.1 pCi/L   | 5/16/2005 |
| MW21A   | NAT. URANIUM | 0.006 mg/L  | 5/16/2005 |
| MW21A   | NICKEL       | 0.392 mg/L  | 5/16/2005 |
| MW21A   | RADIUM 226   | 9.2 pCi/L   | 5/16/2005 |
| MW21A   | RADIUM 228   | 12 pCi/L    | 5/16/2005 |
| MW21A   | SELENIUM     | 0.003 mg/L  | 5/16/2005 |
| MW21A   | THORIUM 230  | -0.03 pCi/L | 5/16/2005 |

#### SOUTHWESTERN FLOW REGIME ANALYTE DATA

| WELL ID | ANALYTE      | LEVEL/UNIT  | DATE      |
|---------|--------------|-------------|-----------|
| GW7     | ARSENIC      | 0.003 mg/L  | 5/27/2005 |
| GW7     | BERYLIUM     | 0.027 mg/L  | 5/27/2005 |
| GW7     | LEAD 210     | 27 pCi/L    | 8/3/2005* |
| GW7     | NAT. URANIUM | 11.9 mg/L   | 5/27/2005 |
| GW7     | NICKEL       | 0.957 mg/L  | 5/27/2005 |
| GW7     | RADIUM 226   | 320 pCi/L   | 8/3/2005* |
| GW7     | RADIUM 228   | 12 pCi/L    | 8/3/2005* |
| GW7     | SELENIUM     | 0.011 mg/L  | 5/27/2005 |
| GW7     | THORIUM 230  | 0.42 pCi/L  | 5/27/2005 |
| GW8     | ARSENIC      | 0.0272 mg/L | 5/27/2005 |
| GW8     | BERYLIUM     | 0.22 mg/L   | 5/27/2005 |
| GW8     | LEAD 210     | 18 pCi/L    | 8/3/2005* |
| GW8     | NAT. URANIUM | 22.9 mg/L   | 5/27/2005 |
| GW8     | NICKEL       | 3.2 mg/L    | 5/27/2005 |
| GW8     | RADIUM 226   | 260 pCi/L   | 8/3/2005* |
| GW8     | RADIUM 228   | 11 pCi/L    | 8/3/2005* |
| GW8     | SELENIUM     | 0.05 mg/L   | 5/27/2005 |
| GW8     | THORIUM 230  | 1.1 pCi/L   | 5/27/2005 |

\* - INITIAL 5/27/2005 SAMPLE RESULTS FOR LEAD-210, RADIUM-226 AND RADIUM-228 EXCEEDED THE ACL LIMITS AND WELLS GW7 AND GW8 WERE RE-SAMPLED ON 8/3/2005.

#### UMETCO MINERALS CORPORATION

#### ANALYTE DATA FOR POINT OF COMPLIANCE WELLS

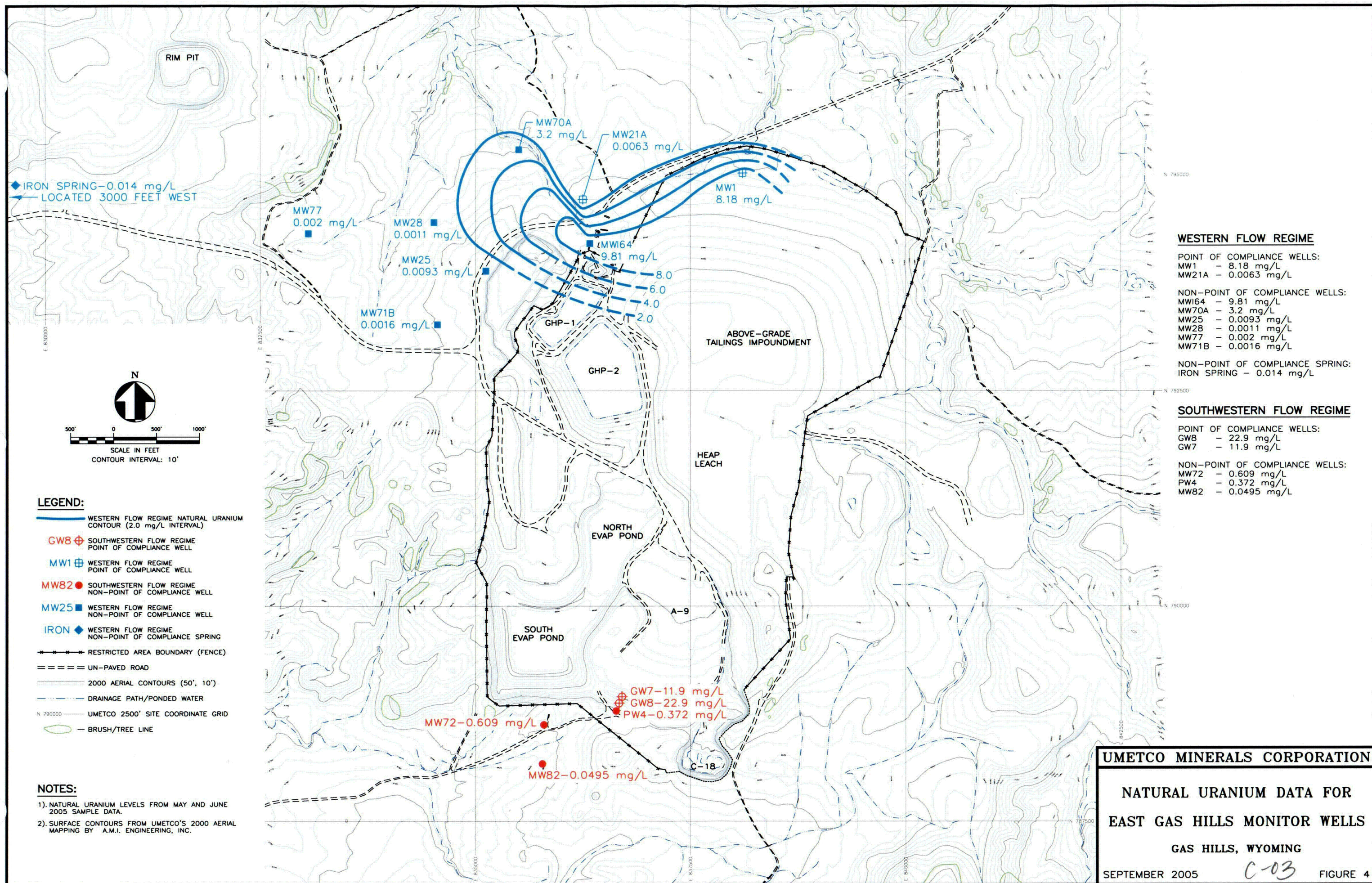
GAS HILLS, WYOMING

SEPTEMBER 2005

C-12

FIGURE 3





### WESTERN FLOW REGIME

POINT OF COMPLIANCE WELLS:  
MW1 - 8.18 mg/L  
MW21A - 0.0063 mg/L

NON-POINT OF COMPLIANCE WELLS:  
MW64 - 9.81 mg/L  
MW70A - 3.2 mg/L  
MW25 - 0.0093 mg/L  
MW28 - 0.0011 mg/L  
MW77 - 0.002 mg/L  
MW71B - 0.0016 mg/L

NON-POINT OF COMPLIANCE SPRING:  
IRON SPRING - 0.014 mg/L

### SOUTHWESTERN FLOW REGIME

POINT OF COMPLIANCE WELLS:  
GW8 - 22.9 mg/L  
GW7 - 11.9 mg/L

NON-POINT OF COMPLIANCE WELLS:  
MW72 - 0.609 mg/L  
PW4 - 0.372 mg/L  
MW82 - 0.0495 mg/L

### LEGEND:

- WESTERN FLOW REGIME NATURAL URANIUM CONTOUR (2.0 mg/L INTERVAL)
- GW8 SOUTHWESTERN FLOW REGIME POINT OF COMPLIANCE WELL
- MW1 WESTERN FLOW REGIME POINT OF COMPLIANCE WELL
- MW82 SOUTHWESTERN FLOW REGIME NON-POINT OF COMPLIANCE WELL
- MW25 WESTERN FLOW REGIME NON-POINT OF COMPLIANCE WELL
- IRON WESTERN FLOW REGIME NON-POINT OF COMPLIANCE SPRING
- RESTRICTED AREA BOUNDARY (FENCE)
- UN-PAVED ROAD
- 2000 AERIAL CONTOURS (50', 10')
- DRAINAGE PATH/PONDED WATER
- UMETCO 2500' SITE COORDINATE GRID
- BRUSH/TREE LINE

### NOTES:

- NATURAL URANIUM LEVELS FROM MAY AND JUNE 2005 SAMPLE DATA.
- SURFACE CONTOURS FROM UMETCO'S 2000 AERIAL MAPPING BY A.M.I. ENGINEERING, INC.

UMETCO MINERALS CORPORATION

NATURAL URANIUM DATA FOR  
EAST GAS HILLS MONITOR WELLS

GAS HILLS, WYOMING

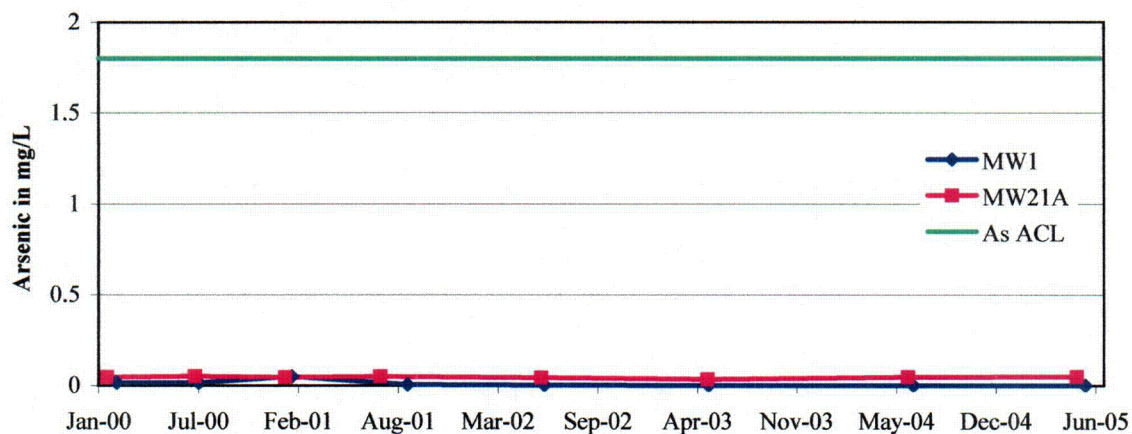
SEPTEMBER 2005

C-03

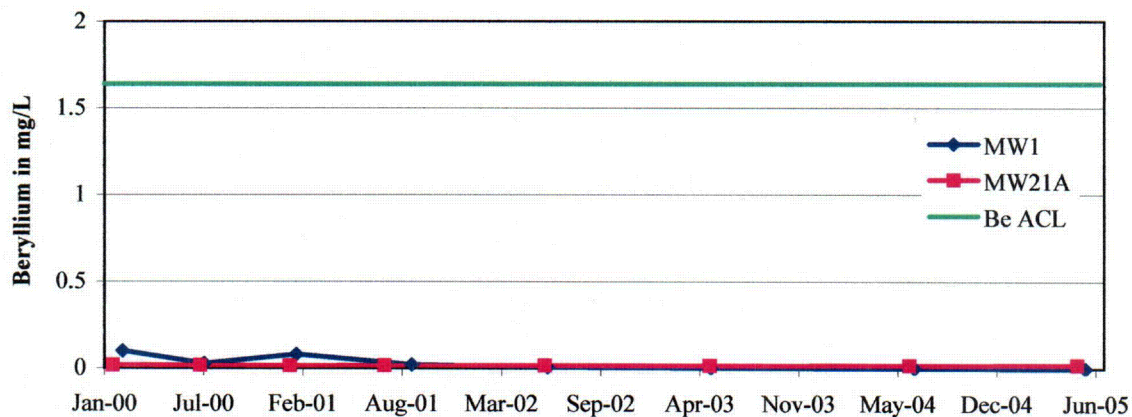
FIGURE 4



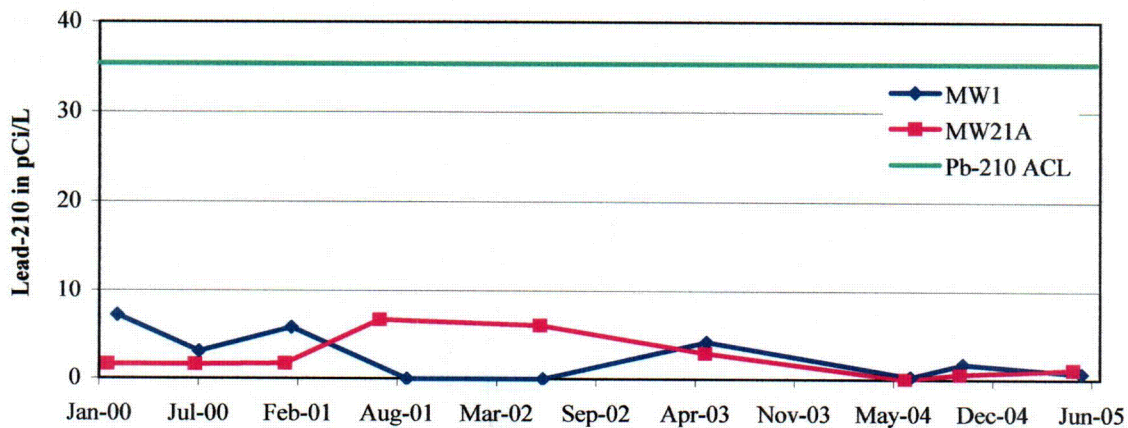
**Figure 5 Arsenic Trends in the Western Flow Regime POC Wells**



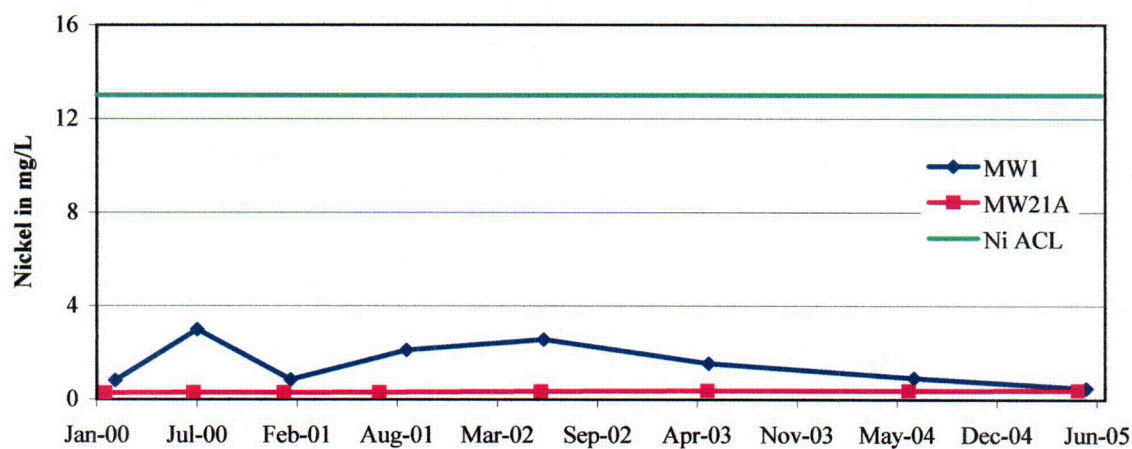
**Figure 6 Beryllium Trends in the Western Flow Regime POC Wells**



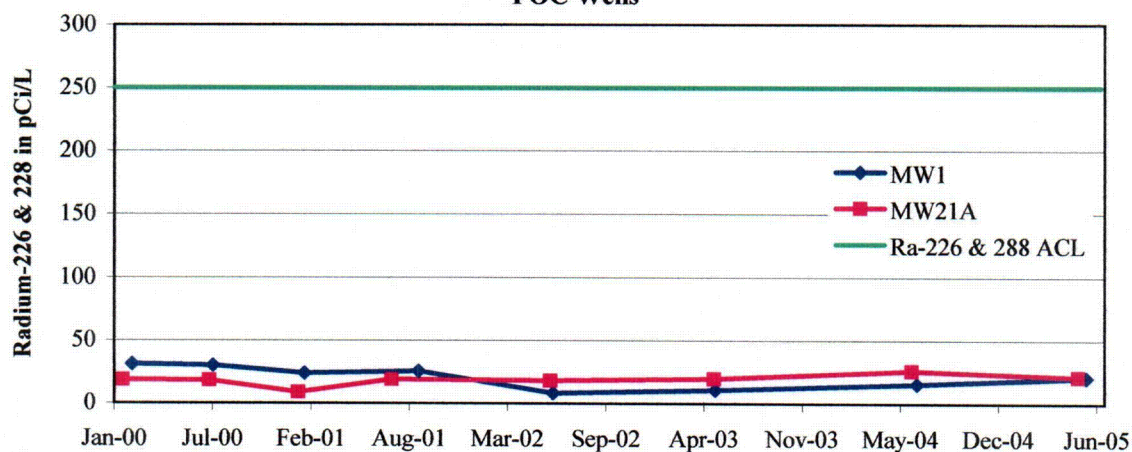
**Figure 7 Lead-210 Trends in the Western Flow Regime POC Wells**



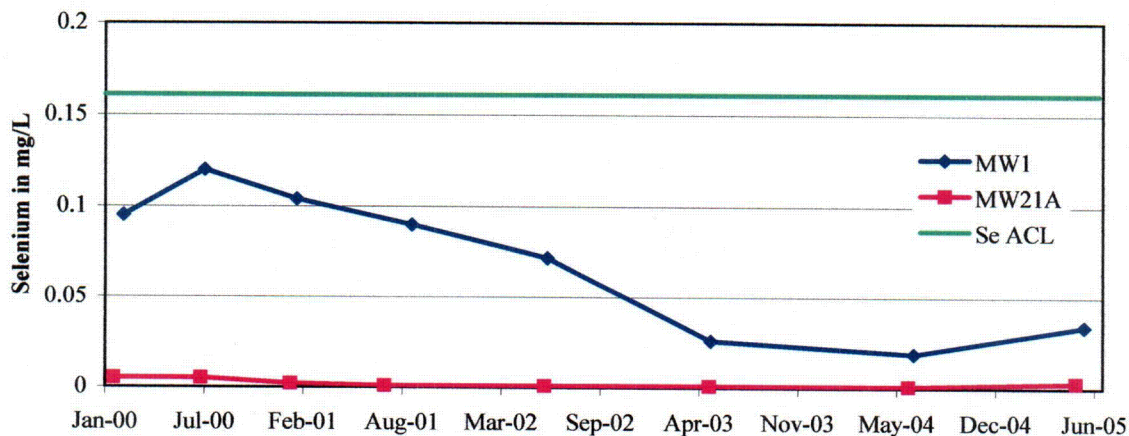
**Figure 8 Nickel Trends in the Western Flow Regime POC Wells**



**Figure 9 Combined Radium-226 & 228 Trends in the Western Flow Regime POC Wells**

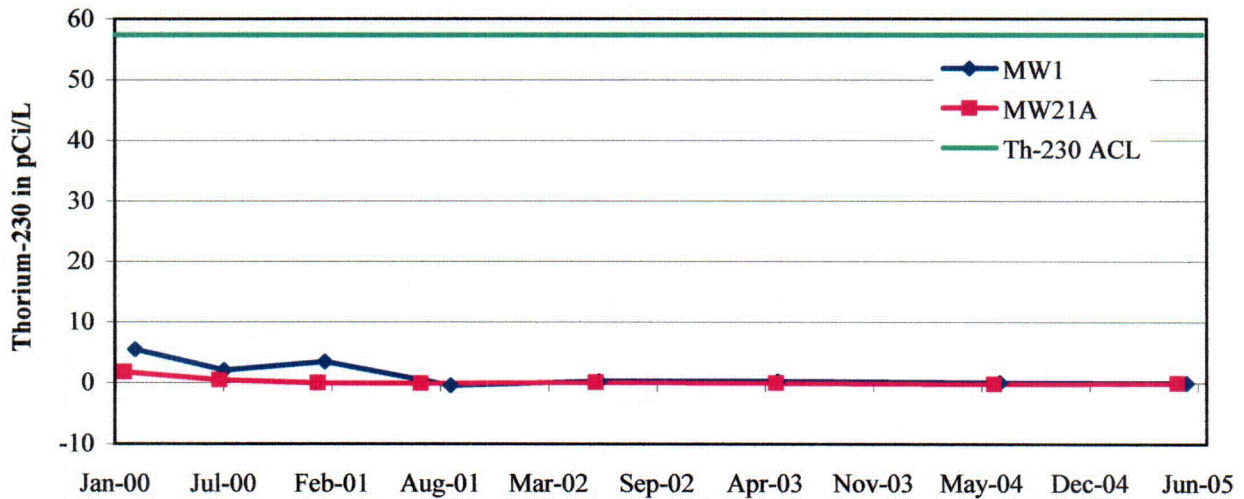


**Figure 10 Selenium Trends in the Western Flow Regime POC Wells**

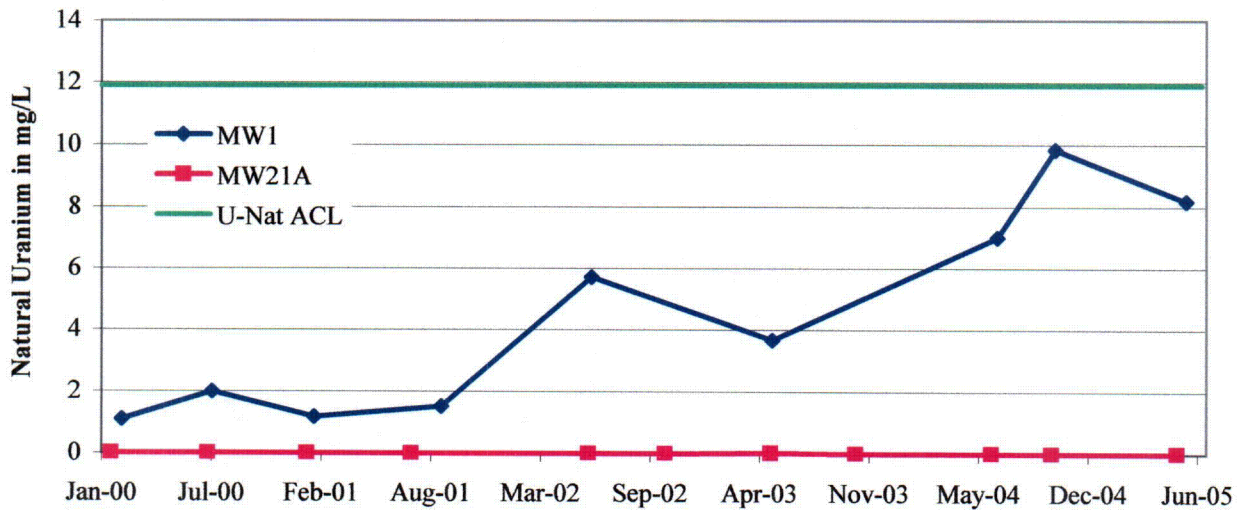


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**Figure 11 Thorium-230 Trends in the Western Flow Regime POC Wells**

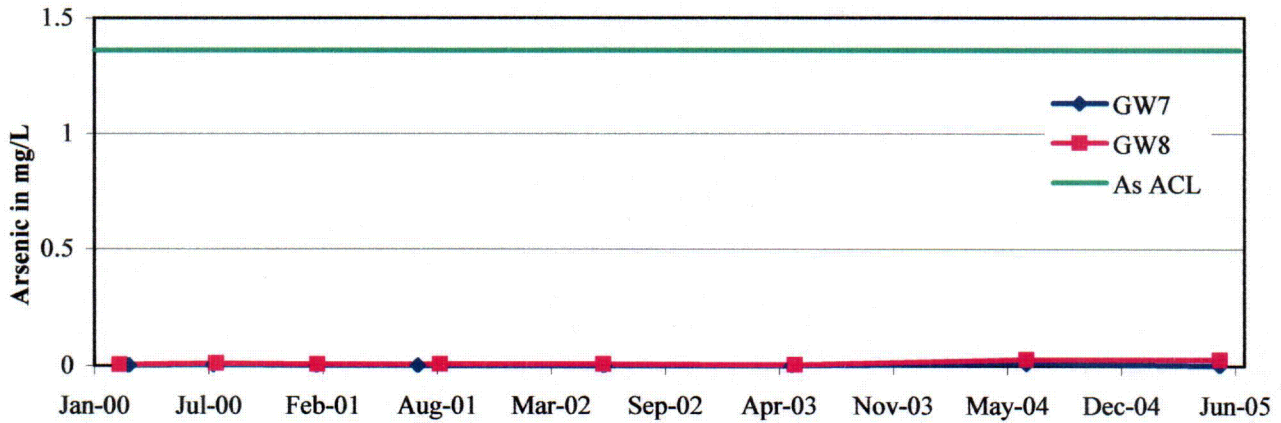


**Figure 12 Natural Uranium Trends in the Western Flow Regime POC Wells**

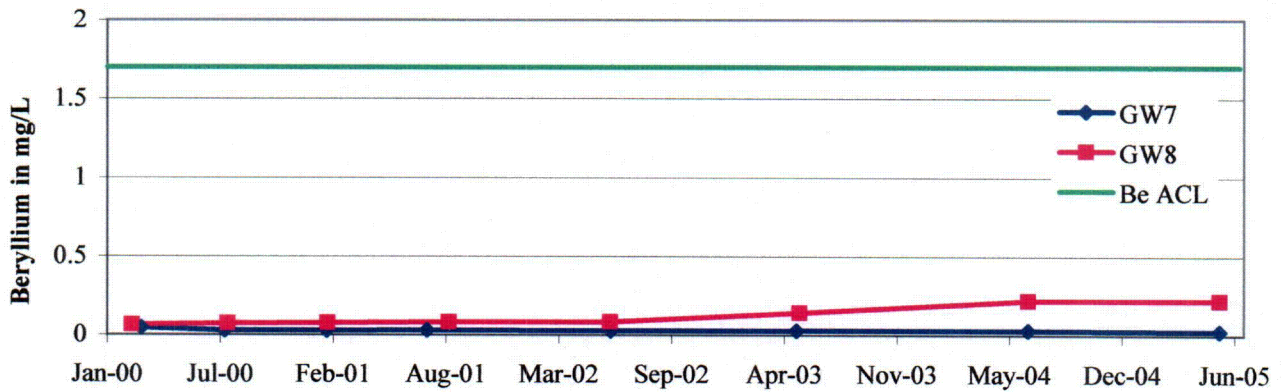




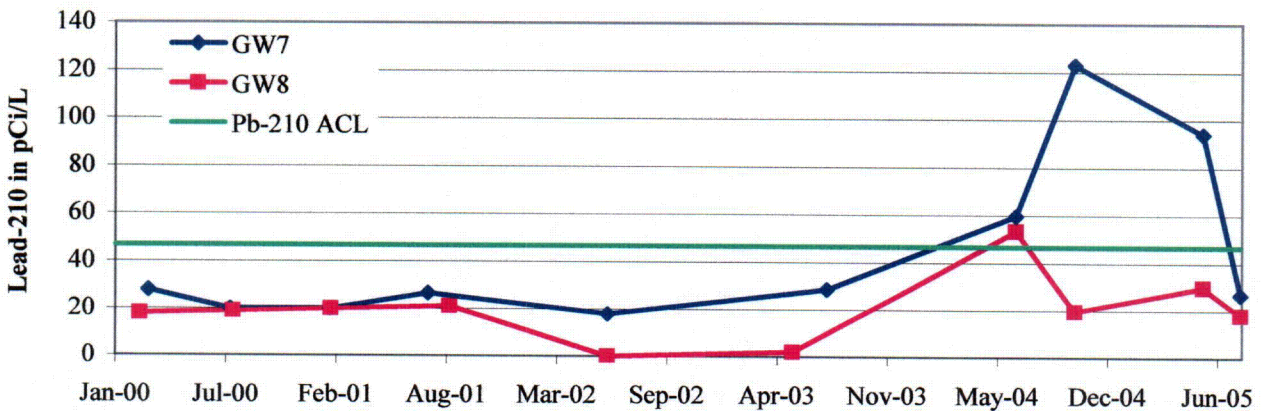
**Figure 13 Arsenic Trends in the Southwestern Flow Regime POC Wells**



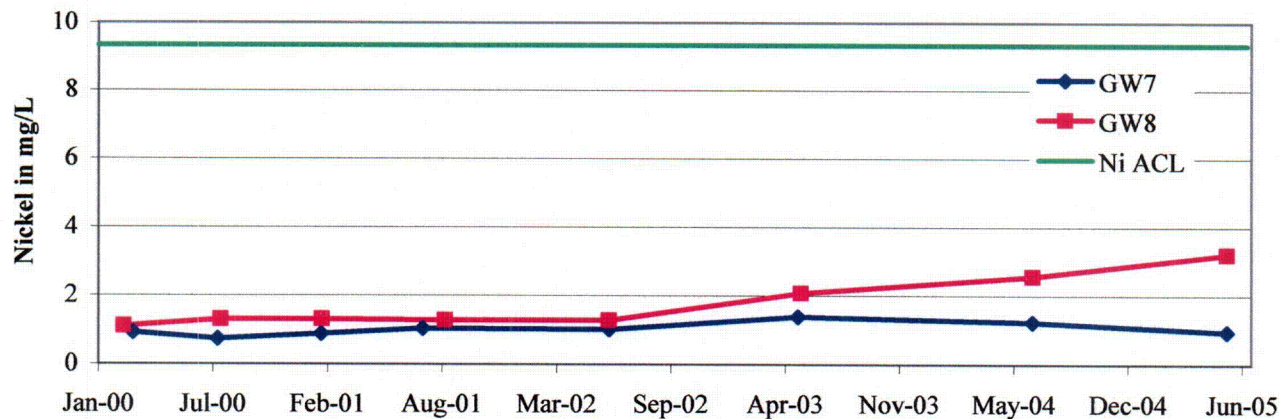
**Figure 14 Beryllium Trends in the Southwestern Flow Regime POC Wells**



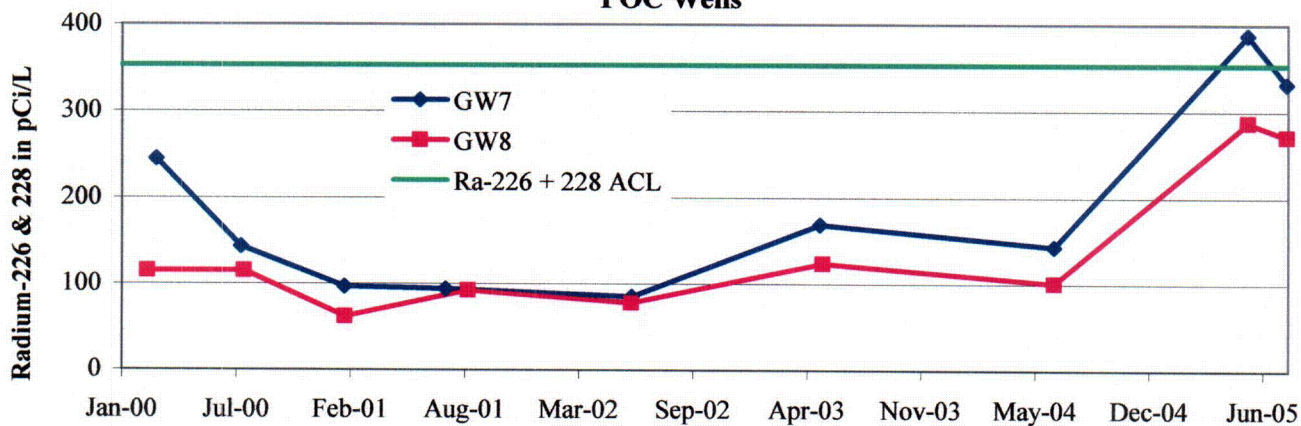
**Figure 15 Lead-210 Trends in the Southwestern Flow Regime POC Wells**



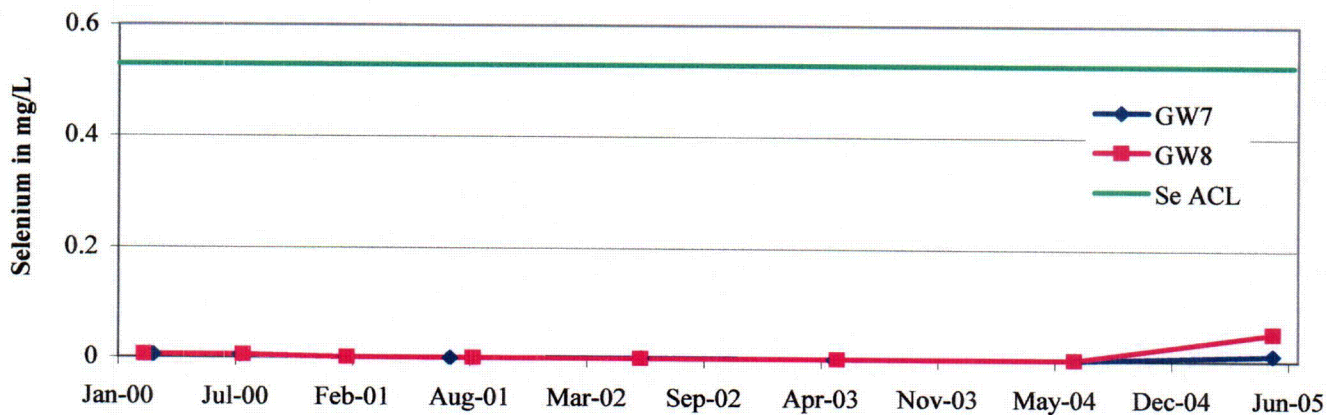
**Figure 16 Nickel Trends in the Southwestern Flow Regime POC Wells**



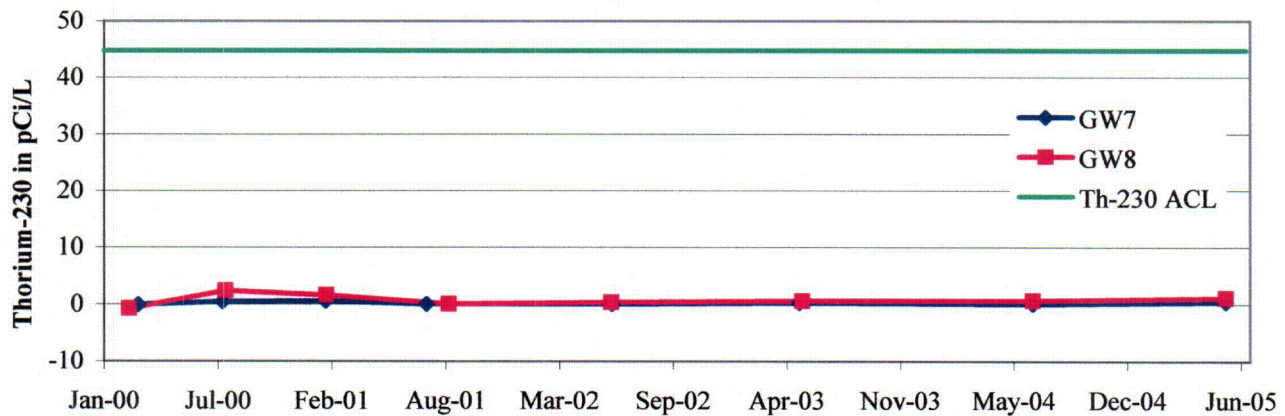
**Figure 17 Combined Radium-226 & 228 Trends in the Southwestern Flow Regime POC Wells**



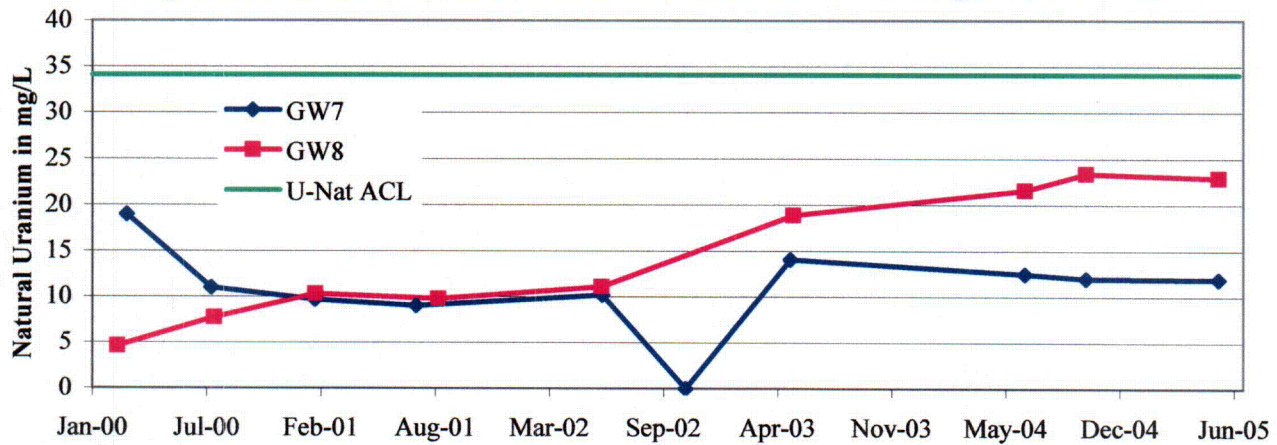
**Figure 18 Selenium Trends in the Southwestern Flow Regime POC Wells**



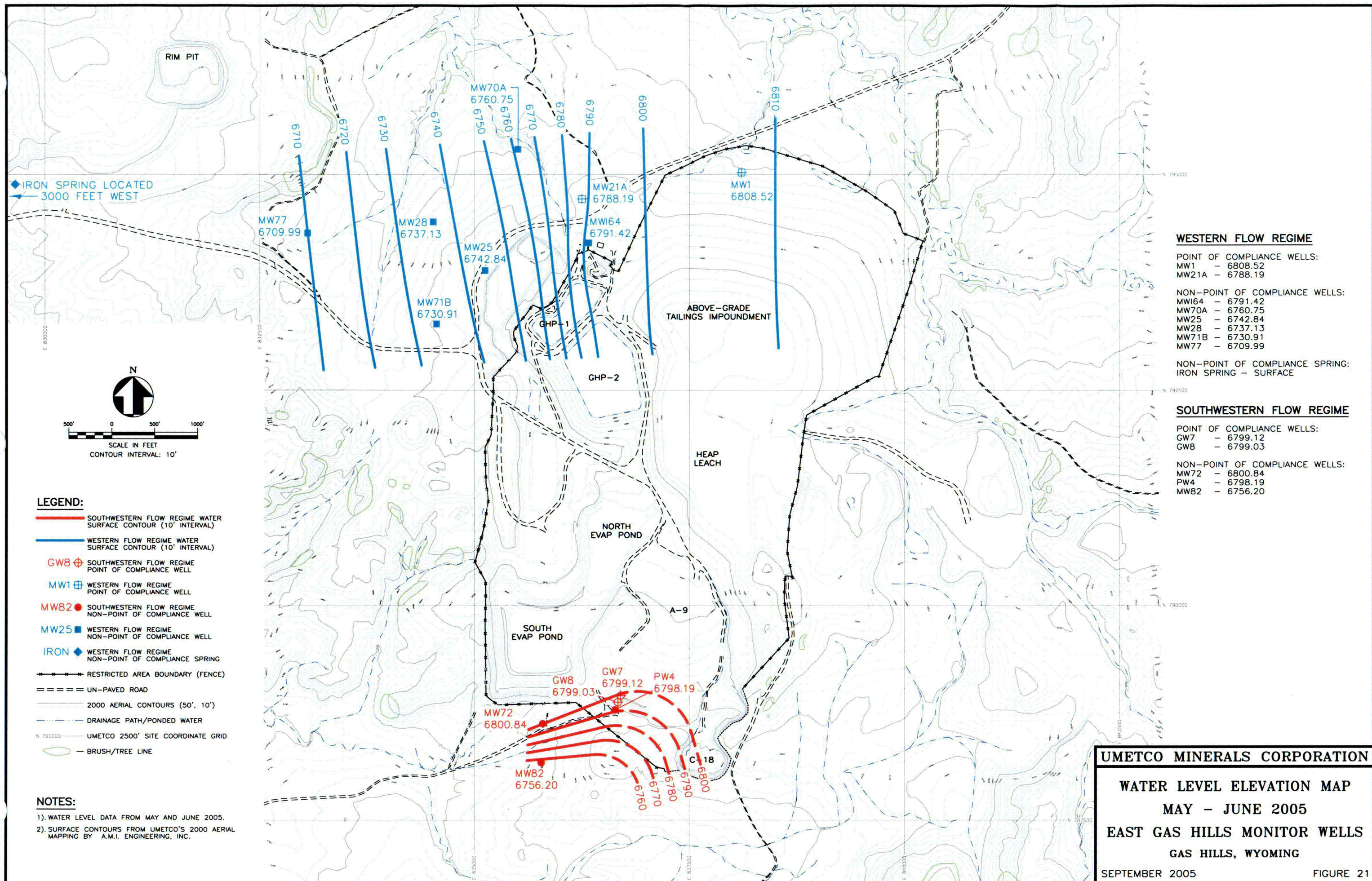
**Figure 19 Thorium-230 Trends in the Southwestern Flow Regime POC Wells**



**Figure 20 Natural Uranium Trends in the Southwestern Flow Regime POC Wells**

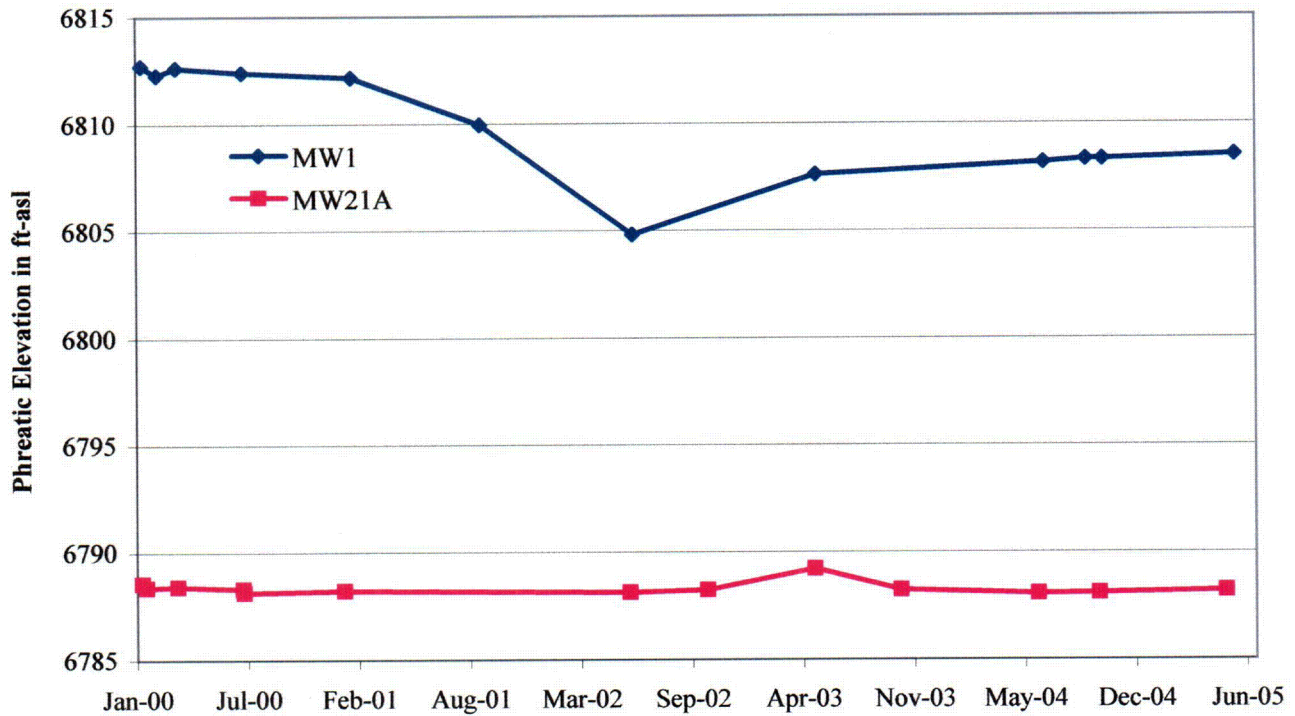




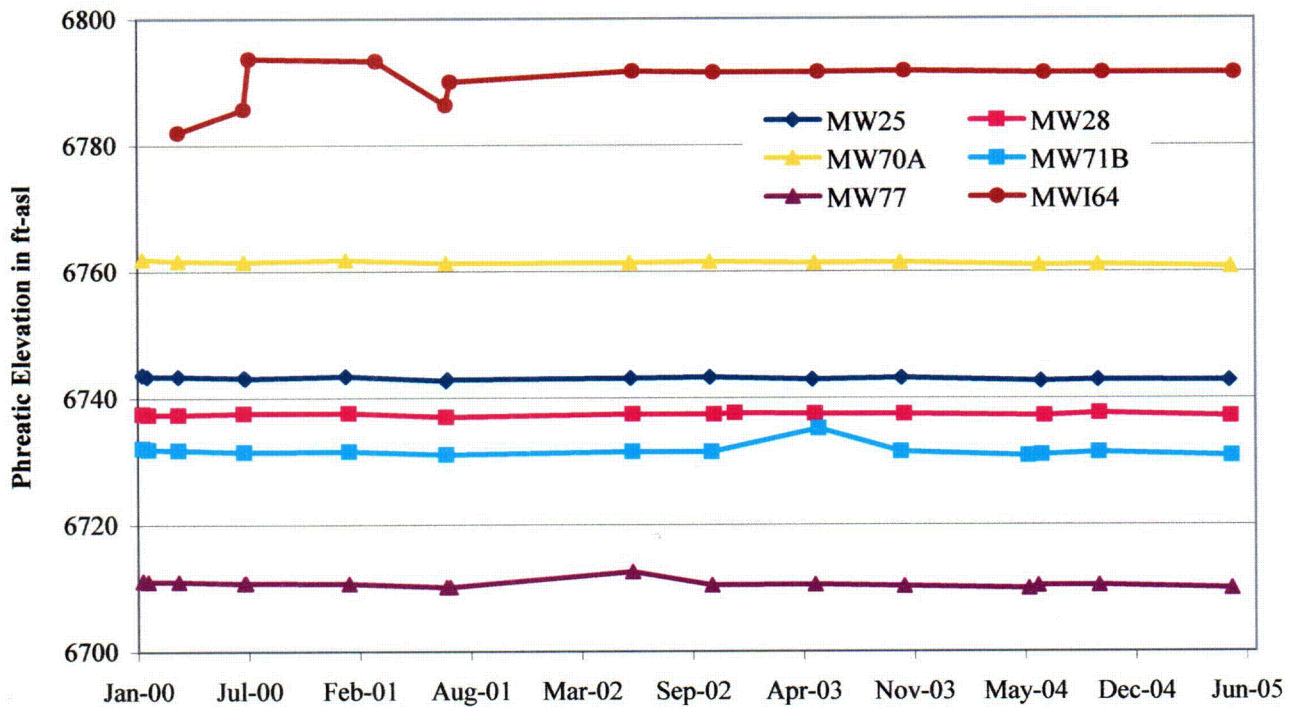




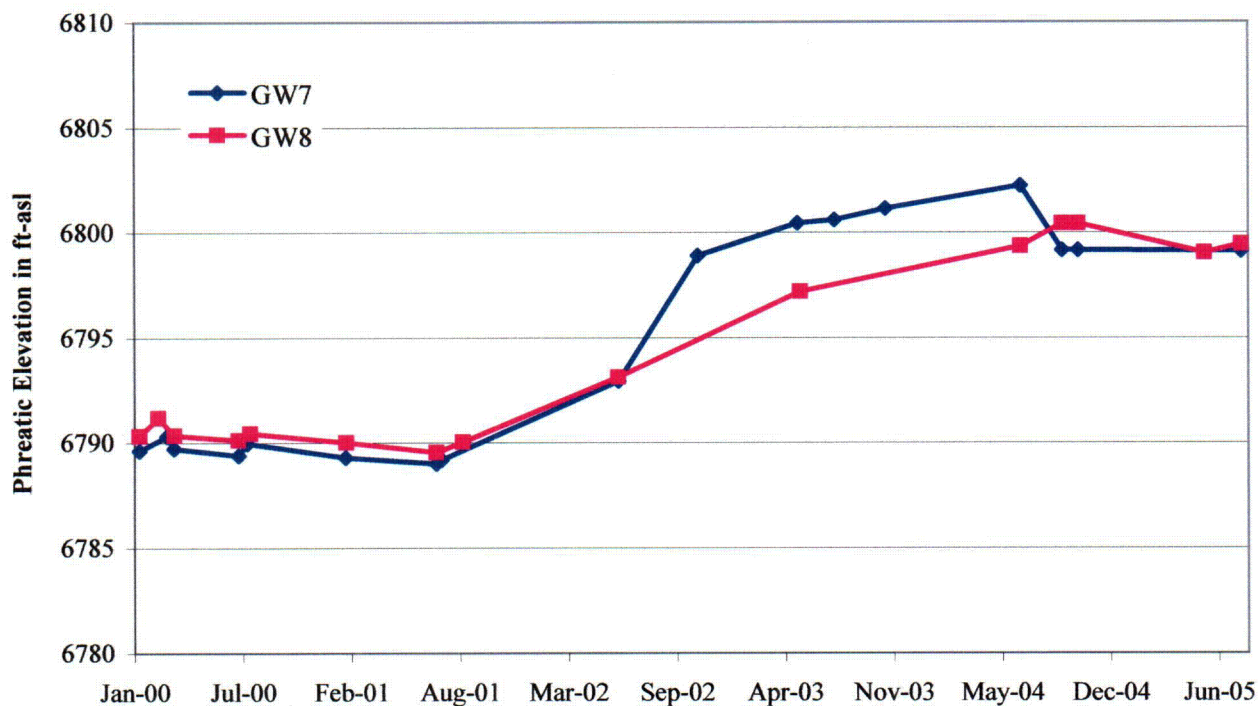
**Figure 22 Phreatic Elevations in the Western Flow Regime POC Wells**



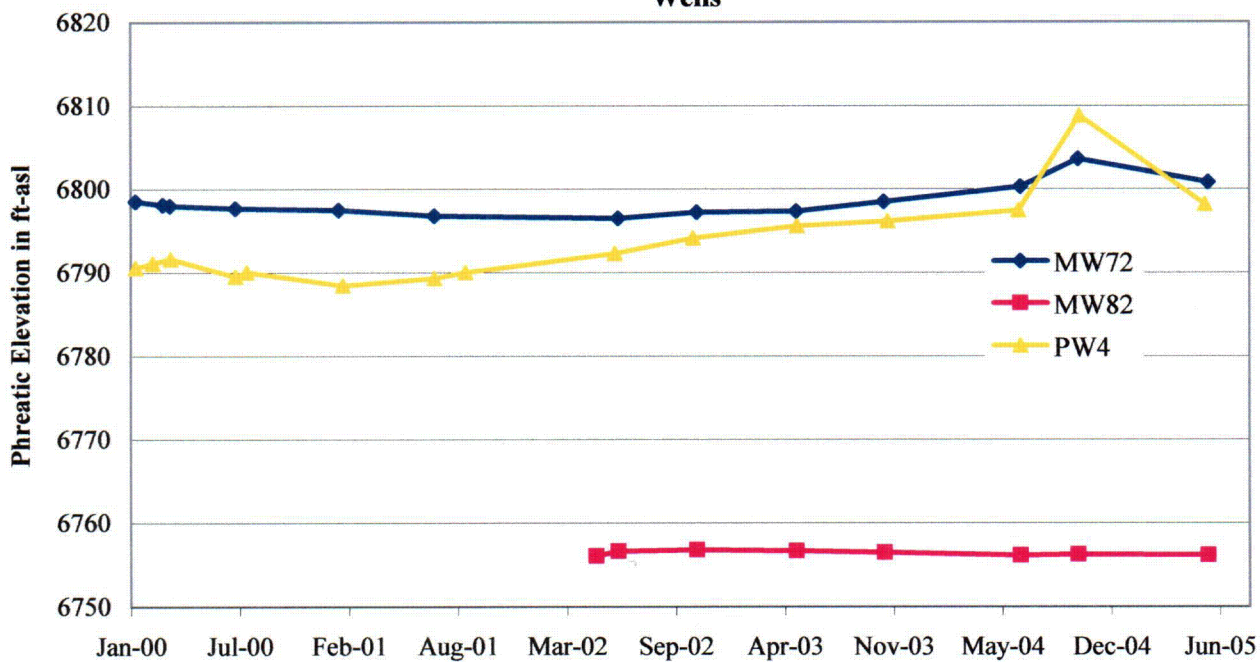
**Figure 23 Phreatic Elevations in the Western Flow Regime Monitoring Wells**



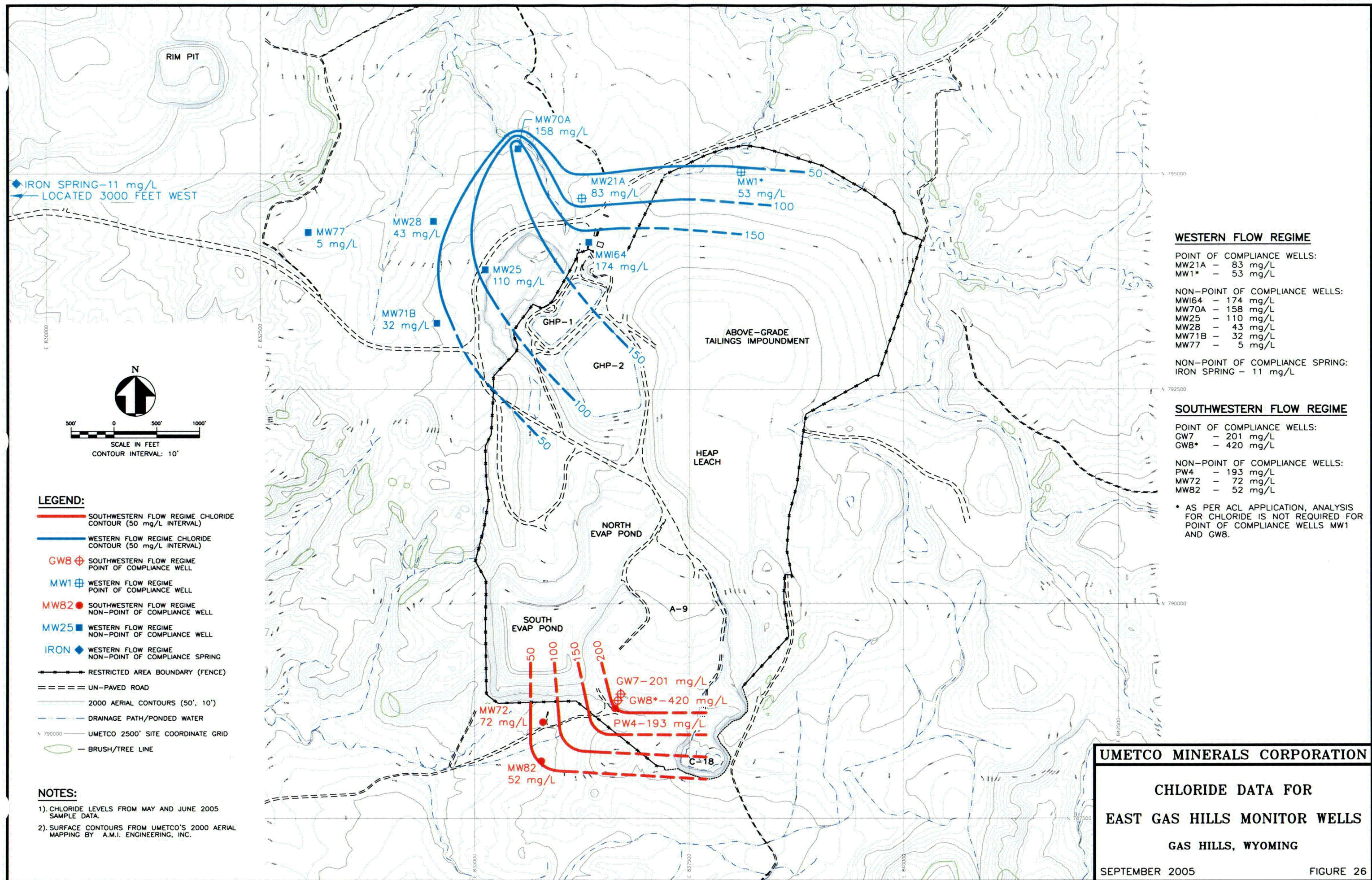
**Figure 24 Phreatic Elevations in the Southwestern Flow Regime POC Wells**



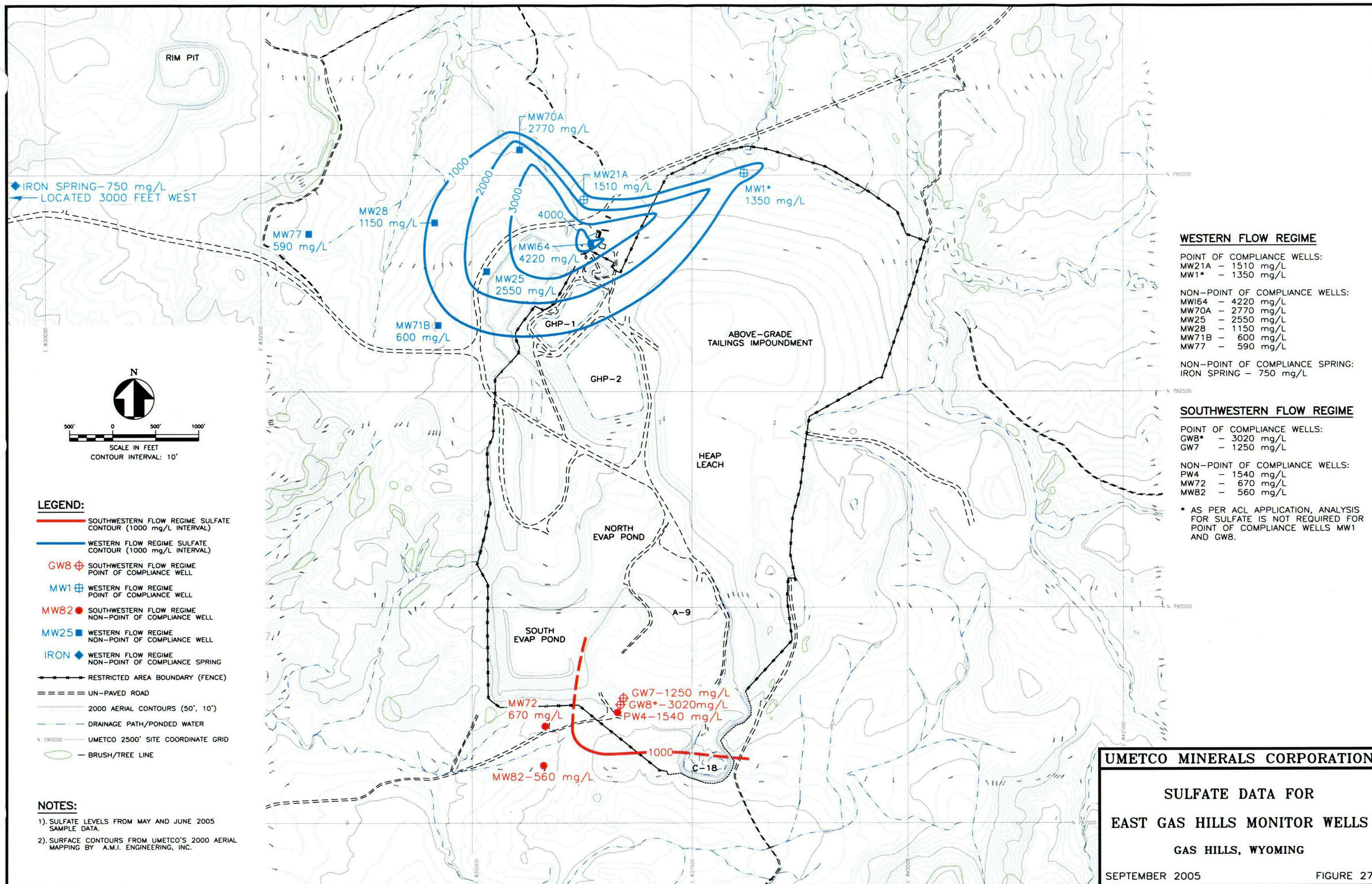
**Figure 25 Phreatic Elevations in the Southwestern Flow Regime Monitoring Wells**





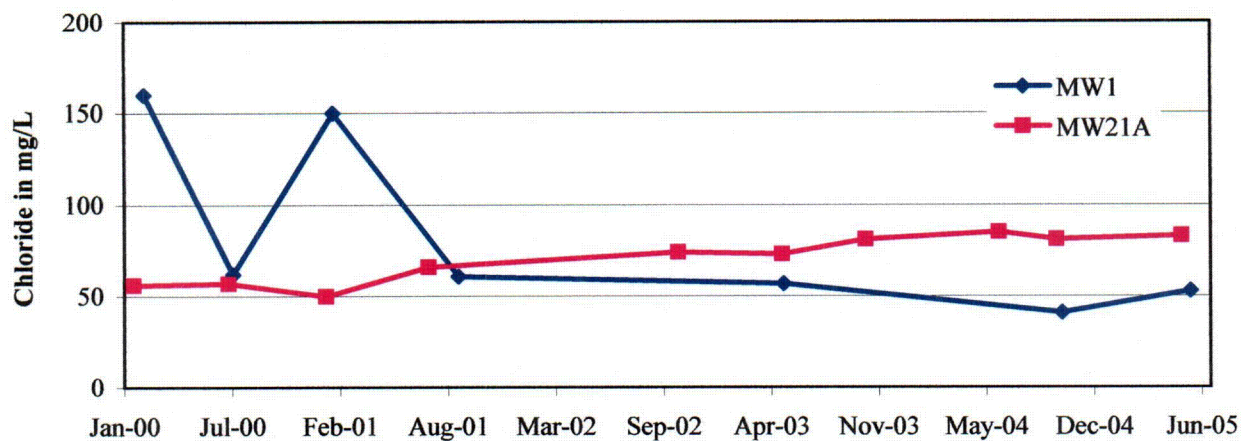




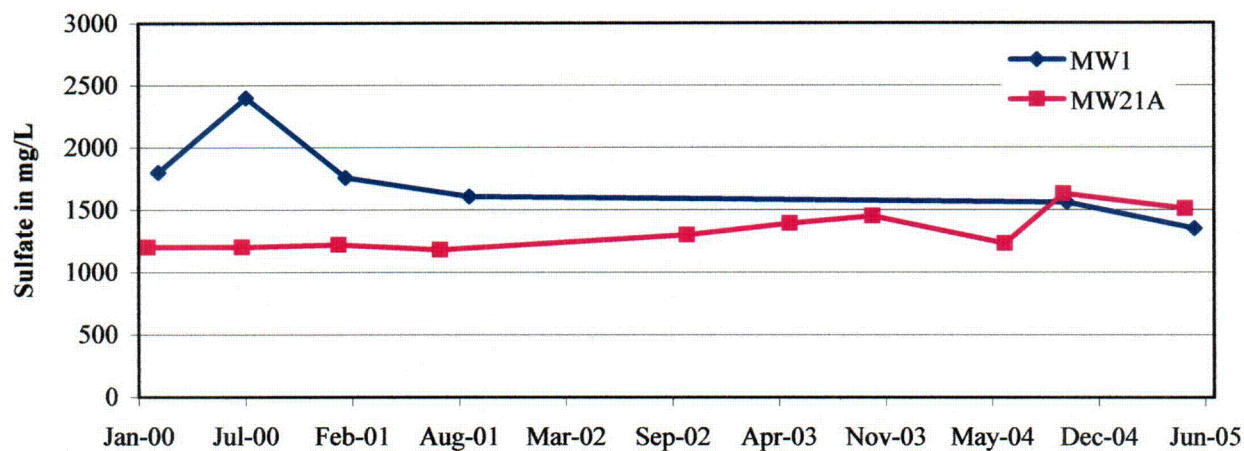




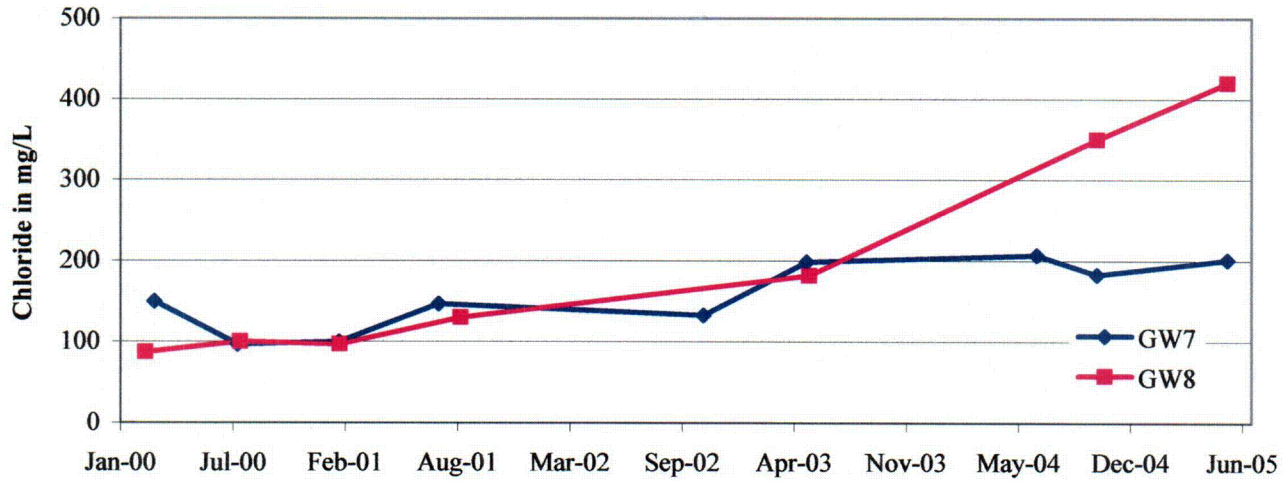
**Figure 28 Chloride Trends in the Western Flow Regime POC Wells**



**Figure 29 Sulfate Trends in the Western Flow Regime POC Wells**



**Figure 30 Chloride Trends in the Southwestern Flow Regime POC Wells**



**Figure 31 Sulfate Trends in the Southwestern Flow Regime POC Wells**

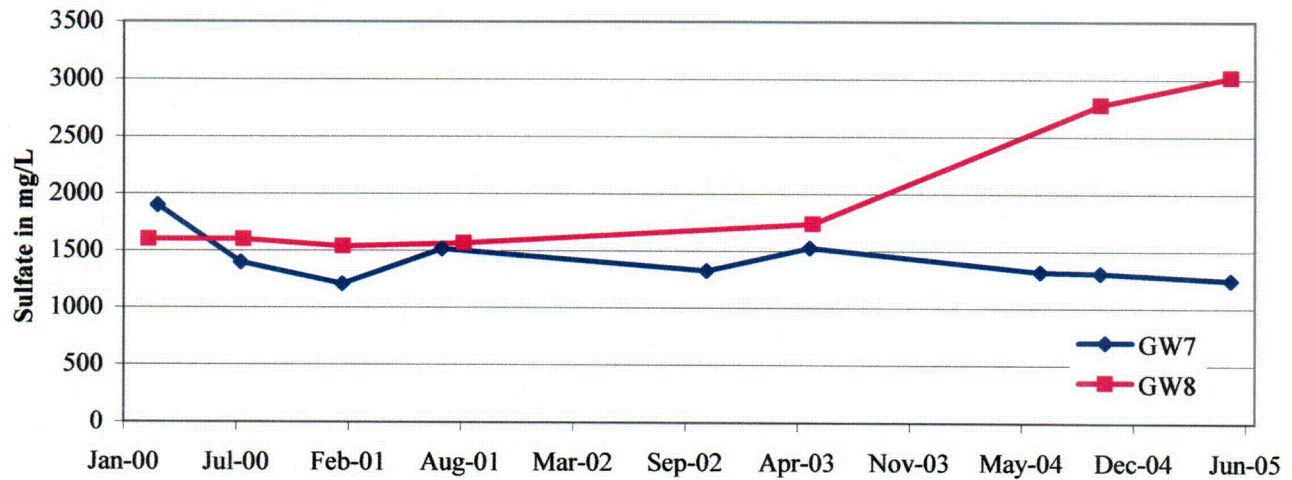


Figure 32 Chloride Trends in the Western Flow Regime Monitoring Wells

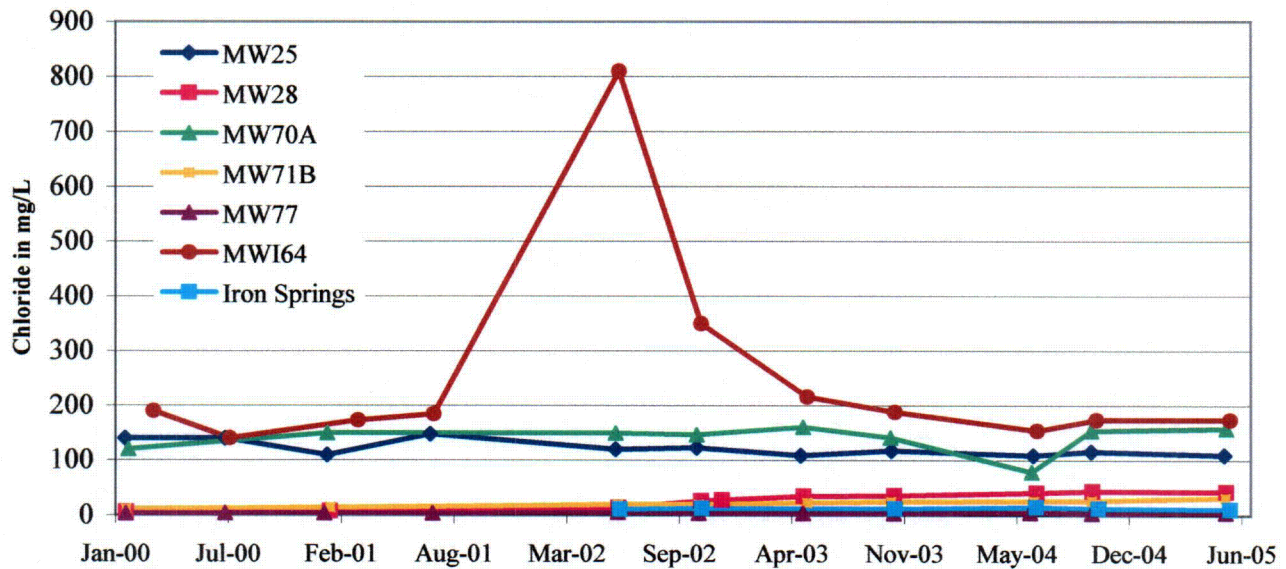


Figure 33 Sulfate Trends in the Western Flow Regime Monitoring Wells

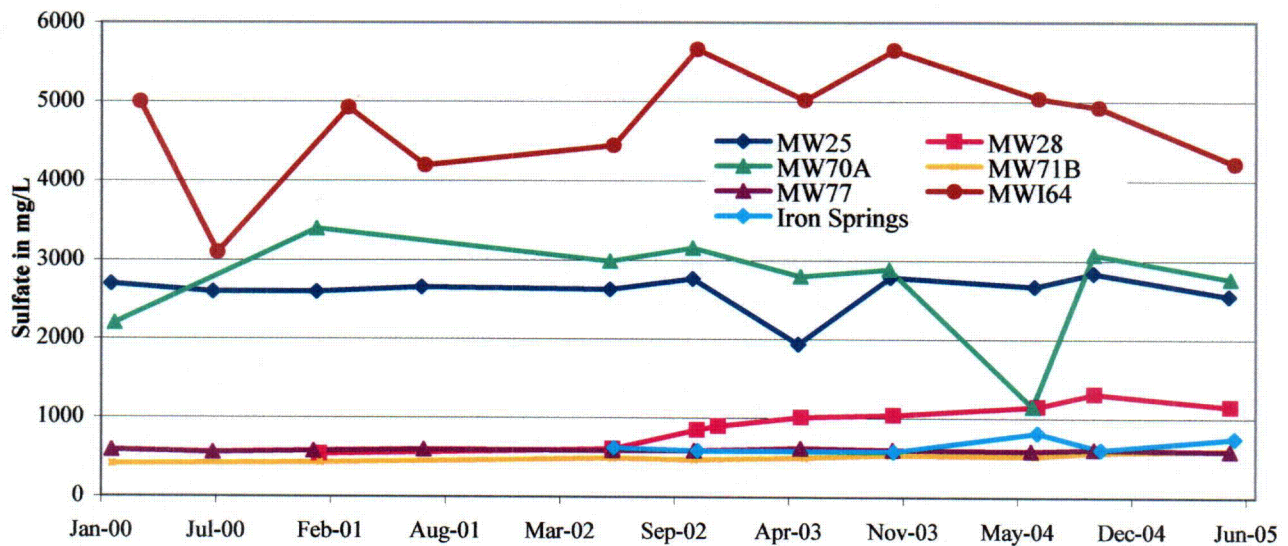




Figure 34 Natural Uranium Trends in the Western Flow Regime Monitoring Wells

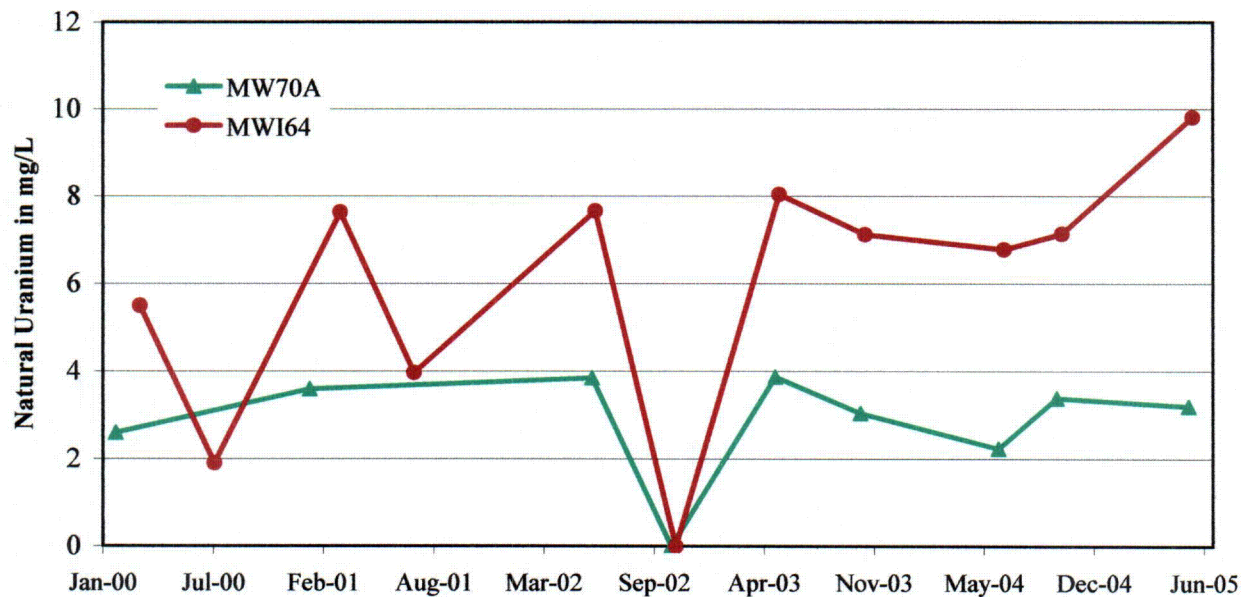


Figure 35 Natural Uranium Trends in the Western Flow Regime Monitoring Wells

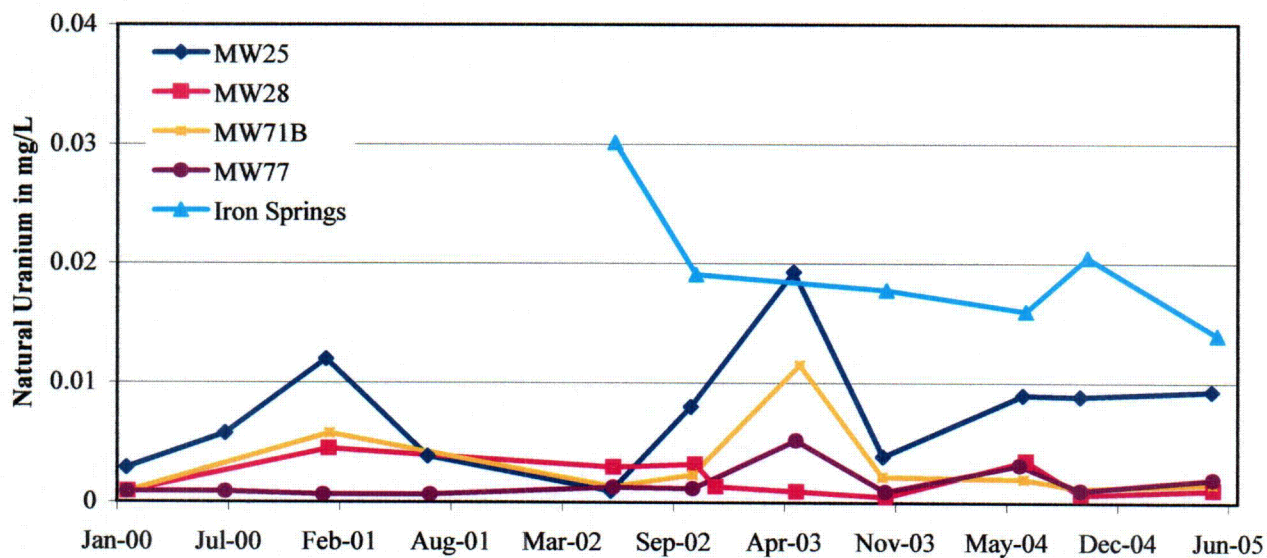


Figure 36 Chloride Trends in the Southwestern Flow Regime Monitoring Wells

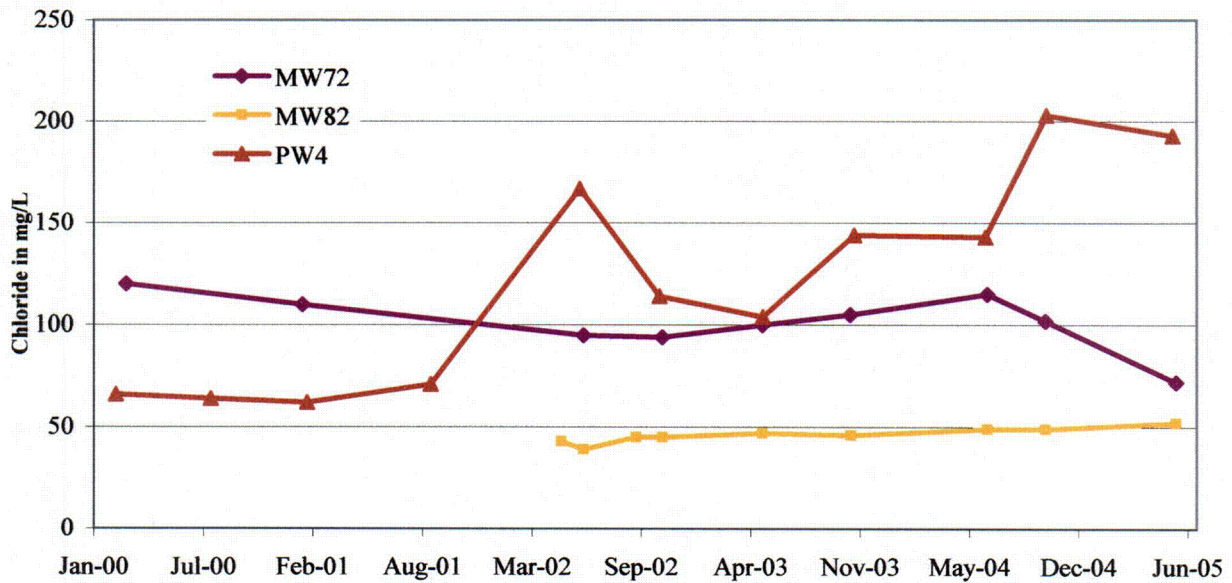
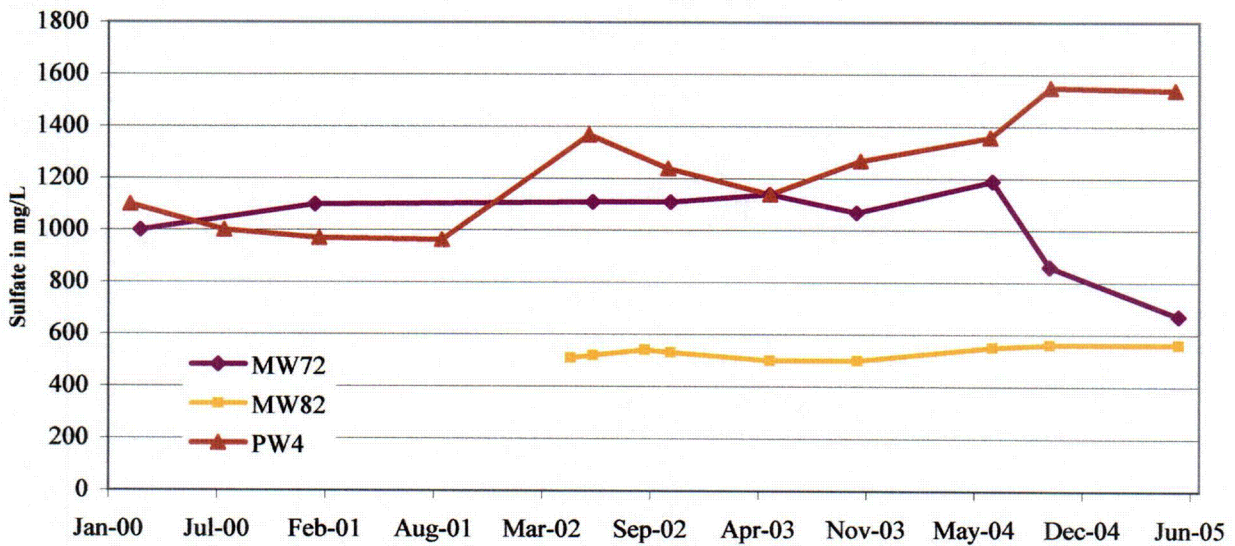
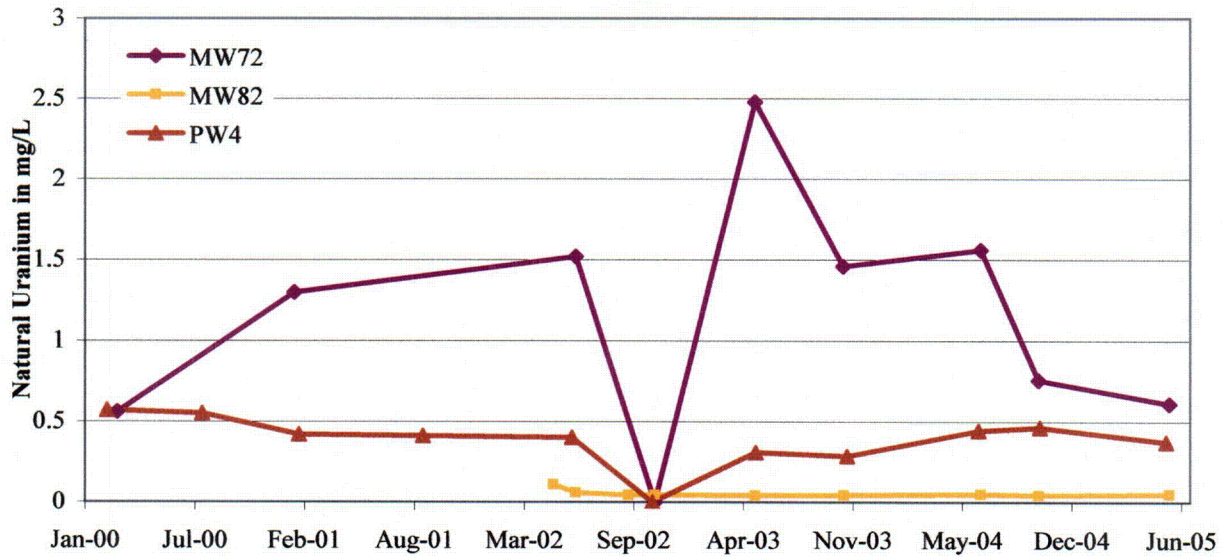


Figure 37 Sulfate Trends in the Southwestern Flow Regime Monitoring Wells



**Figure 38 Natural Uranium Trends in the Southwestern Flow Regime Monitoring Wells**



Appendix A  
Water Rights Within Five-Mile Radius of East Gas Hills Site

| Permit Number<br>(Appropriation) | Facility Name  | Permit Applicant   | Tns | Rng |    | Section | Qtrqtr | Lots | Additional<br>Description  | Acres | Head Gate-<br>Outlet-Well | Status | Supply<br>type | Uses        | Priority   | Amount  | Unit | Source                                    | Permit<br>Well<br>Depth | Permit<br>Static<br>Well<br>Depth |
|----------------------------------|--|--|-----|-----|----|---------|--------|------|----------------------------|-------|---------------------------|--------|----------------|-------------|------------|---------|------|---|-------------------------|-----------------------------------|
| P438G                            | Lucky Mc 1   | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 23     | NWSE |                            |       | X                         | UNA    | ORI            | DOM         | 5/1/1956   | 10      | GPM  |   | 90                      | 30                                |
| P439G                            | Lucky Mc 2   | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 26     | NENW |                            |       | X                         | UNA    | ORI            | DOM         | 5/1/1956   | 350     | GPM  |   | 110                     | 20                                |
| P501G                            | Lucky Mc #3  | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 0      |      | DX                         |       |                           | UNA    | ORI            | IND,DOM     | 12/3/1956  | 300     | GPM  |   | 218                     | 95                                |
| P502G                            | Lucky Mc #4  | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 0      |      | DX                         |       |                           | UNA    | ORI            | IND,DOM     | 12/3/1956  | 150     | GPM  |   | 112                     | 28                                |
| P716G                            | Lucky Mc #6  | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 23     |      | DX                         |       |                           | UNA    | ORI            | IND,DOM     | 11/21/1957 | 350     | GPM  |   | 1340                    | 53                                |
| P717G                            | Lucky Mc #7  | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 23     |      | DX                         |       |                           | UNA    | ORI            | IND,DOM     | 11/21/1957 | 150     | GPM  |   | 1720                    | 28                                |
| P7951R                           | Lagoon 1 Reservoir   | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 23     | NWSE | MINERAL<br>SURVEY 582      |       |                           | DSC    | ORI            | IND         | 5/17/1978  | 6.6     | ACFT | Fraser Draw                               |                         |                                   |
| P7952R                           | Lagoon 2 Reservoir   | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 23     | NWSE | MINERAL<br>SURVEY 582      |       |                           | DSC    | ORI            | IND         | 5/17/1978  | 0.22    | ACFT | Fraser Draw                               |                         |                                   |
| P47061W                          | ENL Lucky Mc #11   | Pathfinder Mines Corp. Lucky Mc Mine                       | 33  | N   | 90 | W       | 23     |      | MS582                      |       |                           | DSC    | ORI            | RES,IND,MIS | 9/18/1978  | 0       | GPM  |   | 2140                    | 186                               |
| P47060W                          | ENL Lucky Mc #8  | Pathfinder Mines Corp. Lucky Mc Mine                       | 33  | N   | 90 | W       | 23     |      | MS582                      |       |                           | UNA    | RES            | RES,IND,MIS | 9/18/1979  | 80      | GPM  |   | 1500                    | 392                               |
| P8108R                           | Lucky MC Reclamation Reservoir                             | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 35     |      | MS610                      |       |                           | DSC    | ORI            | WIL,STO     | 2/26/1980  | 1940.45 | ACFT | Fraser Draw                               |                         |                                   |
| P9722R                           | Area 4 Reclamation Reservoir                               | Pathfinder Mines Corp.**State Land and Farm Loan<br>Office | 33  | N   | 90 | W       | 36     | M610 | MS610                      | 0     |                           | ADJ    | STR            | STO,WIL     | 12/24/1991 | 6787.5  | ACFT | Fraser Draw                               |                         |                                   |
| P9442R                           | 2R Reclamation Reservoir                                   | Pathfinder Mines Corp. Lucky Mc Mine                       | 32  | N   | 90 | W       | 0      | M654 | MS654                      | 0     | X                         | ADJ    | STR            | WIL,STO     | 11/23/1988 | 987.45  | ACFT | Dry Coyote Creek                          |                         |                                   |
| P7964R                           | Area 7 Settling Reservoir                                  | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 25     | NESW | P                          |       |                           | PU     | ORI            | IND         | 9/14/1978  | 23.25   | ACFT | Fraser Draw                               |                         |                                   |
| P8122R                           | A-9 Pit Subgrade Tailings Disposal Reservoir               | Union Carbide Corporation                                  | 33  | N   | 89 | W       | 15     | SWSE | P                          |       |                           | PU     | ORI            | IND         | 4/3/1980   | 1107.73 | ACFT | Union Draw                                |                         |                                   |
| P10444R                          | GHP No. 2 Evaporation Reservoir                            | Umetco Minerals Corporation                                | 33  | N   | 89 | W       | 15     | SENW | P                          |       |                           | UNA    | ORI            | IND,TEM     | 11/21/1996 | 199.36  | ACFT | Canyon Creek                              |                         |                                   |
| P8599S                           | Canyon Creek #1 Stock Reservoir                            | Matador Cattle Company                                     | 33  | N   | 89 | W       | 9      | NENE | P                          |       |                           | PU     | ORI            | STO         | 8/6/1979   | 0.13    | ACFT | Canyon Creek                              |                         |                                   |
| 28/6/373S                        | Reservoir #7   | USDI BLM   | 33  | N   | 89 | W       | 14     | NENW | P                          |       | X                         | REJ    | ORI            | STO         | 11/1/1982  | 1       | ACFT |   |                         |                                   |
| P10039R                          | Buss I Reservoir   | Power Resources Inc.**USDI BLM                             | 33  | N   | 89 | W       | 27     | SWNW | P                          |       | X                         | UNA    | ORI            | STO         | 3/31/1994  | 1026    | ACFT | Buss Draw (A closed<br>Basin) drainage of |                         |                                   |
| P10040R                          | Buss III Reservoir   | Power Resources Inc.**USDI BLM                             | 33  | N   | 89 | W       | 27     | NESW | P                          |       | X                         | UNA    | ORI            | STO         | 3/31/1994  | 14.9    | ACFT | Buss Draw (A closed<br>Basin) drainage of |                         |                                   |
| P10041R                          | Cap Pit Reservoir  | Power Resources Inc.**USDI BLM                             | 33  | N   | 89 | W       | 27     | SWNE | P                          |       |                           | UNA    | ORI            | STO         | 3/31/1994  | 50.86   | ACFT | CH. 4 Draw                                |                         |                                   |
| P3369R                           | Dutton Reservoir   | Ben M. Wood**B. B. Ward                                    | 33  | N   | 90 | W       | 2      | SWSE | P                          |       |                           | PU     | ORI            | STO,DOM,DRI | 10/16/1916 | 0.86    | ACFT | Spring                                    |                         |                                   |
| P1626R                           | Asbell Reservoir   | Starling P. Asbell   | 32  | N   | 89 | W       | 10     | SESW | P                          |       |                           | PU     | ORI            | STO,IRR,DOM | 9/24/1909  | 49.1    | ACFT | Sage Hen Creek                            |                         |                                   |
| P9573R                           | Veca Pond Reservoir  | Bureau of Land Management                                  | 33  | N   | 89 | W       | 23     | NENW | P                          |       |                           | UNA    | ORI            | STO,WIL     | 1/23/1990  | 55.55   | ACFT | Veca Draw                                 |                         |                                   |
| P8461R                           | Rim #1 Settling Reservoir                                  | Umetco Minerals Corporation                                | 33  | N   | 89 | W       | 9      | NWSW | P                          |       |                           | PU     | ORI            | TEM,IND     | 9/14/1981  | 15.63   | ACFT | Rim Draw                                  |                         |                                   |
| P8462R                           | Rim #2 Settling Reservoir                                  | Umetco Minerals Corporation                                | 33  | N   | 89 | W       | 8      | NESE | P                          |       |                           | PU     | ORI            | TEM,IND     | 9/14/1981  | 1.14    | ACFT | Iron Springs Draw                         |                         |                                   |
| P8463R                           | Rim #3 Settling Reservoir                                  | Umetco Minerals Corporation                                | 33  | N   | 89 | W       | 8      | NESE | P                          |       |                           | PU     | ORI            | TEM,IND     | 9/14/1981  | 13.48   | ACFT | Iron Springs Draw                         |                         |                                   |
| P8641R                           | A-9 Pit Tailings Disposal Reservoir                        | Umetco Minerals Corporation                                | 33  | N   | 89 | W       | 15     | NESW | P                          |       |                           | PU     | ORI            | TEM,IND     | 7/27/1983  | 966.77  | ACFT | Union Draw                                |                         |                                   |
| P8108R                           | Lucky MC Reclamation Reservoir                             | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 35     | NESE | P                          |       |                           | PU     | ORI            | WIL,STO     | 2/26/1980  | 1940.45 | ACFT | Fraser Draw                               |                         |                                   |
| P9723R                           | Area 5 Reclamation Reservoir                               | Pathfinder Mines Corporation                               | 33  | N   | 90 | W       | 26     |      | P MS 589                   |       | X                         | UNA    | ORI            | STO,WIL     | 12/24/1991 | 3202.22 | ACFT | Fraser Draw                               |                         |                                   |
| P10075S                          | Rim Stock Reservoir  | USDI, Bureau of Land Management Casper District            | 33  | N   | 89 | W       | 35     | NESW | Proof P 0/10075S<br>P      |       | X                         | GST    | ORI            | STO         | 1/27/1987  | 6.78    | ACFT | Middle Sage Hen Creek                     |                         |                                   |
| C44/698A                         | C. B. C. Ditch   | C. B. Cunningham   | 33  | N   | 89 | W       | 4      | NWNW | L4<br>Proof P 18903/15179D | 8     |                           | ADJ    | ORI            | IRR,STO,DOM | 8/9/1918   |         |      | Canyon Creek                              |                         |                                   |
| P13527S                          | Lilly Pad Stock Reservoir                                  | USDI, Bureau of Land Management                            | 34  | N   | 89 | W       | 19     | NWSW | L3<br>Proof P0/13527S      | 0     | X                         | ADJ    | ORI            | STO         | 11/1/1982  | 3.8     | ACFT | Imaginary Draw                            |                         |                                   |
| P13528S                          | Lilly Pad Stock Reservoir / East Canyon Stock<br>Reservoir | USDI, Bureau of Land Management                            | 34  | N   | 89 | W       | 29     | NESW | Proof P0/13528S            | 0     | X                         | ADJ    | ORI            | STO         | 11/1/1982  | 1.5     | ACFT | Jackrabbit Draw                           |                         |                                   |
| P46384W                          | Holiday #1   | The Matador Cattle Company                                 | 33  | N   | 88 | W       | 19     | SWSW | Proof<br>P0/446384W S      |       |                           | PU     | ORI            | STO         | 8/14/1978  | 10.5    | GPM  |   | 5                       | -4                                |
| P44796W                          | Rattlesnake #1   | The Matador Cattle Company                                 | 33  | N   | 88 | W       | 7      | NENE | Proof P0/44796W            |       | X                         | PUW    | ORI            | STO         | 9/1/1978   | 1       | GPM  |   | 2                       | -4                                |
| P44797W                          | Rattlesnake #2   | The Matador Cattle Company                                 | 33  | N   | 88 | W       | 8      | SENE | Proof P0/44797W<br>S       |       |                           | PU     | ORI            | STO         | 9/1/1978   | 0.5     | GPM  |   | 4                       | -4                                |
| P44798W                          | Rattlesnake #3   | The Matador Cattle Company                                 | 33  | N   | 88 | W       | 8      | SWNE | Proof P0/44798W<br>S       |       |                           | PU     | ORI            | STO         | 9/1/1978   | 25      | GPM  |   | 5                       | -4                                |



Appendix A  
Water Rights Within Five-Mile Radius of East Gas Hills Site

| Permit Number<br>(Appropriation) | Facility Name                             | Permit Applicant   | Tns | Rng | Section | Qtrqtr | Lots | Additional<br>Description          | Acres | Head Gate-<br>Outlet-Well | Status | Supply<br>type | Uses    | Priority   | Amount  | Unit | Source                                 | Permit<br>Well<br>Depth | Permit<br>Static<br>Well<br>Depth |
|----------------------------------|---|--|-----|-----|---------|--------|------|------------------------------------|-------|---------------------------|--------|----------------|---------|------------|---------|------|--|-------------------------|-----------------------------------|
| P44799W                          | Rattlesnake #4                            | The Matador Cattle Company   | 33  | N   | 88      | W      |      | 8 SWSW<br>S                        |       |                           | PU     | ORI            | STO     | 9/1/1978   | 4       | GPM  |  | 5                       | -4                                |
| P44800W                          | Rattlesnake #5                            | The Matador Cattle Company   | 33  | N   | 88      | W      |      | 17 NENE<br>S                       |       |                           | PU     | ORI            | STO     | 9/1/1978   | 2       | GPM  |  | 3                       | -4                                |
| P46387W                          | Little X-L #1                             | The Matador Cattle Company   | 33  | N   | 88      | W      |      | 6 NWSW<br>S                        |       |                           | PU     | ORI            | STO     | 8/14/1978  | 3       | GPM  |  | 2                       | -4                                |
| P46388W                          | Medicine Springs #1                       | The Matador Cattle Company   | 33  | N   | 89      | W      |      | 7 NWNW<br>S                        | X     |                           | ADJ    | ORI            | STO     | 8/14/1978  | 4       | GPM  |  | 6                       | -4                                |
| P46389W                          | Iron Spring #1                            | The Matador Cattle Company   | 33  | N   | 89      | W      |      | 8 SESW<br>S                        |       |                           | PU     | ORI            | STO     | 8/14/1978  | 3       | GPM  |  | 3                       | -4                                |
| P49121W                          | Lincoln Springs #1                        | The Matador Cattle Company   | 33  | N   | 89      | W      |      | 7 SENE<br>S                        |       |                           | PU     | ORI            | STO     | 7/11/1979  | 3       | GPM  |  | 5                       | -4                                |
| P71755W                          | Cross L #2 Spring                         | Clear Creek Cattle Co.   | 33  | N   | 88      | W      |      | 7 NWNE<br>S                        | X     |                           | PUW    | ORI            | DOM,STO | 9/13/1984  | 5       | GPM  |  | 3                       | -4                                |
| P71757W                          | Little Cross L #1 Spring                  | Clear Creek Cattle Co.   | 33  | N   | 88      | W      |      | 6 NWSW L11<br>S                    |       |                           | PU     | ORI            | STO     | 9/13/1984  | 10      | GPM  |  | 4                       | -4                                |
| P71758W                          | McKenzie Spring                           | Clear Creek Cattle Co.   | 33  | N   | 88      | W      |      | 19 SWSW L7<br>S                    |       |                           | PU     | ORI            | STO     | 9/13/1984  | 20      | GPM  |  | 5                       | -4                                |
| P71762W                          | Roberts Spring                            | Clear Creek Cattle Co.   | 34  | N   | 88      | W      |      | 31 NWNE<br>S                       |       |                           | PU     | ORI            | STO     | 9/13/1984  | 10      | GPM  |  | 5                       | -4                                |
| P71764W                          | Government #1 West (Rattlesnake)          | Clear Creek Cattle Co. and BLM Casper District   | 33  | N   | 88      | W      |      | 6 SESE<br>S                        |       |                           | PU     | ORI            | STO     | 10/9/1984  | 4       | GPM  |  | 5                       | -4                                |
| P94133W                          | Upper Mac Spring                          | USDI, BLM  | 33  | N   | 88      | W      |      | 30 NWNW L1<br>S                    |       |                           | ADJ    | ORI            | STO     | 4/17/1926  | 1       | GPM  |  | -1                      | -1                                |
| P94134W                          | Spring #7                                 | USDI, BLM  | 33  | N   | 88      | W      |      | 19 NWSW L3<br>S                    | X     |                           | ADJ    | ORI            | STO     | 4/17/1926  | 5       | GPM  |  | -1                      | -1                                |
| P94135W                          | Spring #8                                 | USDI, BLM  | 33  | N   | 88      | W      |      | 19 SWSW L4<br>S                    | X     |                           | ADJ    | ORI            | STO     | 4/17/1926  | 5       | GPM  |  | -1                      | -1                                |
| C33/360A                         | Holliday Ditch                            | John J. Holliday   | 33  | N   | 88      | W      |      | 7 L5<br>Proof P11692/1314D         | 28    |                           | ADJ    | ORI            | IRR     | 08/27/1896 |         |      | Deer Creek                             |                         |                                   |
| C77/017A                         | Cross Ell Ditch, Enlargement No. 3 of the | Clear Creek Cattle Company   | 33  | N   | 89      | W      |      | 1 SENE<br>Proof P34969/4483E       | 7.8   |                           | ADJ    | ORI            | IRR     | 3/18/1926  |         |      | Deer Creek                             |                         |                                   |
| C77/025A                         | Cross Ell Ditch                           | Clear Creek Cattle Company   | 33  | N   | 89      | W      |      | 1 SESE<br>Proof P34977/9431D       |       |                           | DSC    | ORI            | IRR     | 10/11/1909 |         |      | Deer Creek                             |                         |                                   |
| C77/041A                         | Diamond Ring Ditch No. 5                  | Wyoming State Board of Land Commissioners (Owners); Clear Creek Cattle Company (Lessee)                  | 33  | N   | 89      | W      |      | 1 SENE<br>Proof P34998/17093D      | X     |                           | PUD    | ORI            | IRR     | 3/18/1926  |         |      | Deer Creek                             |                         |                                   |
| CR15/077A                        | Buss I Reservoir                          |  | 33  | N   | 89      | W      |      | 27 NWSW<br>Proof P37599/10039R     | 0     |                           |        |                | STO     | 3/31/1994  | 1026    | ACFT | Buss Draw (A closed Basin) drainage of |                         |                                   |
| CR15/079A                        | Cap Pit Reservoir                         |  | 33  | N   | 89      | W      |      | 27 SENW<br>Proof P37601/10041R     | 0     |                           |        |                | STO     | 3/31/1994  | 50.86   | ACFT | CH. 4 Draw                             |                         |                                   |
| CU10/160A                        | Lucky Mc #11                              | Pathfinder Mines Corporation; State Board of Land Commissioners; USDI Bureau of Reclamation              | 32  | N   | 90      | W      |      | 0<br>Proof P3811/2395W X M.S. 610  |       |                           | ADJ    | ORI            | IND     | 12/6/1968  |         |      |  |                         |                                   |
| CR15/374A                        | Area 4 Reclamation Reservoir              | Pathfinder Mines Corporation; State Lands and Investments  | 33  | N   | 90      | W      |      | 0 M610<br>Proof P38228/9722R MS610 | 0     |                           | ADJ    | STR            | STO,WIL | 12/24/1991 | 6787.5  | ACFT | Fraser Draw                            |                         |                                   |
| CR15/375A                        | 2R Reclamation Reservoir                  | Pathfinder Mines Corporation   | 32  | N   | 90      | W      |      | 0 M654<br>Proof P38229/9442R MS610 | 0     |                           | ADJ    | STR            | STO,WIL | 11/23/1988 | 987.45  | ACFT | Dry Coyote Creek                       |                         |                                   |
| CU10/187A                        | Lucky Mc #8                               | Pathfinder Mines Corporation; Wyoming State Board of Land Commissioners; USDI, Bureau of Land Management | 32  | N   | 90      | W      |      | 0<br>Proof P3838/3W X M.S. 610     |       |                           | ADJ    | ORI            | IND     | 3/14/1958  |         |      |  |                         |                                   |
| CU10/404A                        | Buss I Reservoir                          | 1) Power Resources, Incorporated; 2) USDI, Bureau of Land Management                                     | 33  | N   | 89      | W      |      | 27 SWNW<br>Proof P4041/95290W      | 0     |                           | ADJ    | RES            | MIS     | 4/26/1994  | -0.0001 | GPM  |  |                         |                                   |

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Water Rights Within Five-Mile Radius of East Gas Hills Site

| Permit Number<br>(Appropriation) | Facility Name                | Permit Applicant                                 | Tns | Rng | Section | Qtrqtr | Lots | Additional<br>Description | Acres | Head Gate-<br>Outlet-Well | Status | Supply<br>type | Uses        | Priority   | Amount | Unit | Source         | Permit<br>Well<br>Depth | Permit<br>Static<br>Well<br>Depth |
|----------------------------------|------------------------------|--|-----|-----|---------|--------|------|---------------------------|-------|---------------------------|--------|----------------|-------------|------------|--------|------|----------------|-------------------------|-----------------------------------|
| P102340W                         | Philps #1                    | Philp's Sheep Co.                                | 33  | N   | 89      | W      | 4    | NESE                      |       | X                         | ABA    | ORI            | STO         | 5/13/1996  | 25     | GPM  |                |                         |                                   |
| P46385W                          | Cole #80                     | Matador Cattle Company                           | 33  | N   | 89      | W      | 18   | SWNW                      |       |                           | ADJ    | ORI            | STO         | 8/14/1978  | 0.75   | GPM  |                | 2                       | -4                                |
| P93801W                          | PWR #107 Spring (77)         | USDI, BLM  | 33  | N   | 89      | W      | 18   | NESW                      |       | X                         | ADJ    | ORI            | STO         | 4/17/1926  | 10     | GPM  |                | -1                      | -1                                |
| P45502W                          | Barrel Springs #1            | USDI, BLM  | 32  | N   | 89      | W      | 8    | NWSW                      |       |                           | PU     | ORI            | STO         | 10/20/1978 | 25     | GPM  |                |                         |                                   |
| P46378W                          | Sage Hen #1                  | Matador Cattle Company                           | 33  | N   | 89      | W      | 26   | SESE                      |       |                           | PU     | ORI            | STO         | 8/14/1978  | 1      | GPM  |                | 5                       | -4                                |
| P49333W                          | Barrel Springs #1            | Matador Cattle Company                           | 32  | N   | 89      | W      | 8    | SWSW                      |       |                           | PU     | ORI            | STO         | 8/6/1979   | 1      | GPM  |                | 4                       | -4                                |
| P53366W                          | Bates Springs #1             | The Matador Cattle Company                       | 33  | N   | 89      | W      | 8    | SWSW                      |       |                           | PU     | ORI            | STO         | 8/8/1980   |        |      |                |                         |                                   |
| P71766W                          | Beaver Rim #2                | USDI BLM Casper District**Clear Creek Cattle Co. | 33  | N   | 89      | W      | 27   | NENE                      |       |                           | PU     | ORI            | STO         | 1/17/1986  | 15     | GPM  |                | 10                      | -4                                |
| P96884W                          | Herbst Ervay Basin #1        | Herbst Lazy Ty Land Co.                          | 34  | N   | 89      | W      | 23   | SWSW                      |       | X                         | UNA    | ORI            | STO         | 8/25/1994  | 5      | GPM  |                | 75                      | 30                                |
| P98996W                          | Herbst Ervay Basin #2        | Herbst Lazy Ty Land Co.                          | 34  | N   | 89      | W      | 23   | NESW                      |       | X                         | UNA    | ORI            | STO         | 4/20/1995  | 4      | GPM  |                | 3378                    | -6                                |
| P24172P                          | JE Ranch #12-5               | Matador Cattle Company                           | 34  | N   | 88      | W      | 32   | NENW                      |       |                           | PU     | ORI            | DOM,STO     | 8/13/1973  | 5      | GPM  |                | 175                     | 35                                |
| P30542W                          | BS 12 1024W                  | Inc. Western Nuclear                             | 33  | N   | 89      | W      | 32   | SWNE                      |       |                           | PU     | ORI            | DEW,MIS     | 7/25/1975  | 0      | GPM  |                | 751                     | 360                               |
| P46772W                          | Musktrat Well #1             | American Nuclear Corporation                     | 32  | N   | 90      | W      | 1    | SESE                      |       |                           | PU     | ORI            | DEW,MIS     | 2/22/1978  | 120    | GPM  |                |                         |                                   |
| P33517W                          | Caylas #1                    | Inc. Hills Gas                                   | 33  | N   | 89      | W      | 18   | NWSW                      |       |                           | PU     | ORI            | IND         | 4/9/1976   | 0      | GPM  |                |                         |                                   |
| P33518W                          | Caylas #2                    | Inc. Hills Gas                                   | 33  | N   | 89      | W      | 18   | SESW                      |       |                           | PU     | ORI            | IND         | 4/9/1976   | 0      | GPM  |                |                         |                                   |
| P215W                            | Water Well #3                | Globe Mining Co.                                 | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | UNA    | ORI            | IND         | 8/24/1959  | 250    | GPM  |                | 1668                    | 20                                |
| P530G                            | JAY #1                       | Vitro Minerals Corporation                       | 33  | N   | 90      | W      | 26   | SWNE                      |       | X                         | UNA    | ORI            | IND         | 1/29/1957  | 100    | GPM  |                | 206                     | 80                                |
| P56W                             | ALJOB #1                     | Globe Mining Co.                                 | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | ABA    | ORI            | IND,DOM     | 8/29/1958  | 45     | GPM  |                | 484                     | 256                               |
| P682G                            | Lucky Mc #5                  | Pathfinder Mines Corporation                     | 33  | N   | 90      | W      | 23   |                           |       |                           | UNA    | ORI            | IND,DOM     | 7/2/1957   | 200    | GPM  |                | 995                     | 100                               |
| P43745W                          | ADOBE #1                     | USDI, BLM** Mullen Engineering                   | 33  | N   | 89      | W      | 9    | SWSW                      |       |                           | PU     | ORI            | IND,MIS     | 6/9/1978   | 50     | GPM  |                |                         |                                   |
| P30310D                          | AML 16-C-2 Water Haul        | Roth Trucking                                    | 33  | N   | 89      | W      | 32   | NWNW                      |       |                           | UNA    | ORI            | IND,TEM     | 11/6/1989  | 0.166  | CFS  | Lucky Mac Draw |                         |                                   |
| P1209D                           | Ervay Nos. 1 & 2             | Mrs. M. E. Ervay                                 | 33  | N   | 89      | W      | 1    | SWNE                      |       |                           | PU     | ORI            | IRR         | 05/11/1896 | 1.78   | CFS  | Deer Creek     |                         |                                   |
| P82562W                          | MWC-33                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENW                      |       | X                         | ABA    | ORI            | MIS         | 4/27/1990  | 2      | GPM  |                | 210                     | 121.81                            |
| P82564W                          | MWC-35                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | ABA    | ORI            | MIS         | 4/27/1990  | 5      | GPM  |                | 190                     | 148.03                            |
| P82565W                          | MWC-36                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | ABA    | ORI            | MIS         | 4/27/1990  | 12     | GPM  |                | 200                     | 143.41                            |
| P83269W                          | MWC-42                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 10   | SESW                      |       | X                         | ABA    | ORI            | MIS         | 8/15/1990  | 10     | GPM  |                | 240                     | 138                               |
| P84751W                          | MWC-45                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | ABA    | ORI            | MIS         | 3/18/1991  | 15     | GPM  |                | 240                     | 195.24                            |
| P84753W                          | MWC-47                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NWNW                      |       |                           | ABA    | ORI            | MIS         | 3/18/1991  | 15     | GPM  |                | 255                     | 188                               |
| P84755W                          | MWC-49                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENE                      |       |                           | ABA    | ORI            | MIS         | 3/18/1991  | 15     | GPM  |                | 240                     | 156.35                            |
| P91277W                          | MWC 55                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NWNW                      |       |                           | ABA    | ORI            | MIS         | 3/19/1993  | 7      | GPM  |                | 171.78                  | 112.5                             |
| P91278W                          | MWC 56                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENW                      |       | X                         | ABA    | ORI            | MIS         | 3/19/1993  | 5      | GPM  |                | 261                     | 171                               |
| P91279W                          | MWC 57                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENE                      |       |                           | ABA    | ORI            | MIS         | 3/19/1993  | 6      | GPM  |                | 252                     | 165                               |
| P91281W                          | MWC 59                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 10   | SWSW                      |       |                           | ABA    | ORI            | MIS         | 3/19/1993  | 6      | GPM  |                | 250                     | 147                               |
| P31504W                          | UPZ 417P                     | Federal-American Partners                        | 33  | N   | 89      | W      | 33   | SWNW                      |       |                           | PU     | ORI            | MIS         | 11/12/1975 | 0      | GPM  |                | 650                     | 460                               |
| P31919W                          | ENL BS12-1024W               | Federal-American Partners                        | 33  | N   | 89      | W      | 32   | SWNE                      |       |                           | PU     | ORI            | MIS         | 11/19/1975 | 0      | GPM  |                | 751                     | 360                               |
| P43111W                          | CEE #1                       | Union Carbide Corporation                        | 33  | N   | 89      | W      | 17   | NWNE                      |       |                           | PU     | ORI            | MIS         | 3/10/1978  | 500    | GPM  |                | 130                     | 55                                |
| P46771W                          | BS 1051                      | American Nuclear Corporation                     | 32  | N   | 90      | W      | 1    | SESE                      |       |                           | PU     | ORI            | MIS         | 1/13/1978  | 110    | GPM  |                |                         |                                   |
| P57999W                          | Pay #1                       | Union Carbide Corporation                        | 33  | N   | 89      | W      | 22   | NENE                      |       |                           | PU     | ORI            | MIS         | 5/4/1981   | 1200   | GPM  |                | 200                     | 97                                |
| P64404W                          | ALLEGRETTI #1                | USDI, BLM** Adobe Oil & Gas Corporation          | 32  | N   | 89      | W      | 5    | NWSE                      |       |                           | PU     | ORI            | MIS         | 6/2/1983   | 20     | GPM  |                |                         |                                   |
| P103983W                         | Lucky Mc #12                 | USDI, BLM**Barnhart Drilling Company, Inc.       | 33  | N   | 90      | W      | 24   | SWSW                      |       |                           | UNA    | ORI            | MIS         | 9/17/1996  | 310    | GPM  |                | 1451                    | 64                                |
| P104730W                         | ALJOB #2                     | USDI, BLM** Umetco Minerals Corporation          | 33  | N   | 89      | W      | 15   | NESW                      |       |                           | UNA    | ORI            | MIS         | 11/25/1996 | 45     | GPM  |                | 537                     | 270                               |
| P108233W                         | GH97WW-1                     | Power Resources Inc.                             | 32  | N   | 89      | W      | 2    | NESW                      |       |                           | UNA    | ORI            | MIS         | 11/17/1997 | 100    | GPM  |                | 1325                    | 425                               |
| P44612W                          | Carol Well #1                | Power Resources Inc.                             | 33  | N   | 89      | W      | 28   | NESW                      |       | X                         | UNA    | ORI            | MIS         | 11/25/1977 | 50     | GPM  |                | 400                     | 200                               |
| P87214W                          | Area 4 Reclamation Reservoir | Pathfinder Mines Corp.                           | 33  | N   | 90      | W      | 35   | SWNE                      |       |                           | UNA    | ORI            | MIS         | 12/24/1991 | 12     | GPM  |                | 460                     | 270                               |
| P89541W                          | DW-4                         | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 10   | SWSW                      |       |                           | UNA    | ORI            | MIS         | 9/3/1992   | 8      | GPM  |                | 260                     | 135                               |
| P92098W                          | MWC-66                       | Umetco Minerals Corporation                      | 33  | N   | 89      | W      | 15   | NENE                      |       |                           | UNA    | ORI            | MIS         | 6/18/1993  | 15     | GPM  |                | 190                     | 120                               |
| P95290W                          | Buss I Reservoir             | USDI, BLM** Power Resources Inc.                 | 33  | N   | 89      | W      | 27   | SESE                      | 0     |                           | UNA    | ORI            | MIS,DEW,RES | 4/26/1994  | 2000   | GPM  |                | 210                     | 171                               |
| P80487W                          | LA 4                         | Lidstone & Anderson Inc.                         | 33  | N   | 89      | W      | 14   | SWSW                      |       | X                         | A&C    | ORI            | MON         | 8/14/1989  | 0      | GPM  |                | 184.5                   | 145                               |

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|----------------------------------|--|---|-----|-----|---------|--------|------|---------------------------|----------|---------------------------|--------|----------------|---------------------|------------|--------|------|------------------|-------------------------|-----------------------------------|
| P67187W                          | RIM 1  | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 9    | SWSW                      | X        | X                         | ABA    | ORI            | MON                 | 4/23/1984  | 0      | GPM  |                  | 300                     | 179                               |
| P67188W                          | RIM 2  | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 9    | SENW                      | X        | X                         | ABA    | ORI            | MON                 | 4/23/1984  | 0      | GPM  |                  | 260                     | 78                                |
| P67189W                          | RIM 3  | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 8    | NESE                      | X        | X                         | ABA    | ORI            | MON                 | 4/23/1984  | 0      | GPM  |                  | 196                     | 87                                |
| P30698W                          | UPZ Well #1                                  | Federal-American Partners               | 33  | N   | 89      | W      | 33   | NWNW                      | X        |                           | PU     | ORI            | MON                 | 7/30/1975  | -1     | GPM  |                  | 925                     | 470                               |
| P31252W                          | UPZ Well #2                                  | Federal-American Partners               | 33  | N   | 89      | W      | 32   | SENE                      | X        |                           | PU     | ORI            | MON                 | 9/22/1975  | 0      | GPM  |                  | 806                     | 440                               |
| P31496W                          | BS12-1025P                                   | Federal-American Partners               | 33  | N   | 89      | W      | 32   | SWNE                      | X        |                           | PU     | ORI            | MON                 | 11/12/1975 | 0      | GPM  |                  | 777                     | 345                               |
| P31497W                          | BS12-1026P                                   | Federal-American Partners               | 33  | N   | 89      | W      | 32   | SWNE                      | X        |                           | PU     | ORI            | MON                 | 11/12/1975 | 0      | GPM  |                  | 640                     | 345                               |
| P31499W                          | BS12-1028P                                   | Federal-American Partners               | 33  | N   | 89      | W      | 32   | NWSE                      | X        |                           | PU     | ORI            | MON                 | 11/12/1975 | 0      | GPM  |                  | 827                     | 440                               |
| P31500W                          | BS12-1029P                                   | Federal-American Partners               | 33  | N   | 89      | W      | 32   | NWSE                      | X        |                           | PU     | ORI            | MON                 | 11/12/1975 | 0      | GPM  |                  | 735                     | 440                               |
| P31501W                          | BS12-1030P                                   | Federal-American Partners               | 33  | N   | 89      | W      | 32   | NWSE                      | X        |                           | PU     | ORI            | MON                 | 11/12/1975 | 0      | GPM  |                  | 640                     | 435                               |
| P34361W                          | Blackstone #1                                | Western Nuclear Inc.                    | 33  | N   | 89      | W      | 32   | SWNE                      | X        |                           | PU     | ORI            | MON                 | 7/22/1976  | 0      | GPM  |                  |                         |                                   |
| P40467W                          | RHW-1  | Mullen Mining Company                   | 33  | N   | 89      | W      | 9    | SESW                      | X        |                           | PU     | ORI            | MON                 | 8/5/1977   | 0      | GPM  |                  | 160                     | 154                               |
| P40468W                          | RHW-2  | Mullen Mining Company                   | 33  | N   | 89      | W      | 9    | NESW                      | X        |                           | PU     | ORI            | MON                 | 8/5/1977   | 0      | GPM  |                  | 134                     | -7                                |
| P41021W                          | RHW-4  | Mullen Mining Company                   | 33  | N   | 89      | W      | 9    | SWNE                      | X        |                           | PU     | ORI            | MON                 | 11/16/1977 | 0      | GPM  |                  | 280                     | 0                                 |
| P41022W                          | RHW-3  | Mullen Mining Company                   | 33  | N   | 89      | W      | 9    | SESE                      | X        |                           | PU     | ORI            | MON                 | 11/16/1977 | 0      | GPM  |                  | 310                     | 257                               |
| P67146W                          | MW1  | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 10   | SWSE                      | X        |                           | PU     | ORI            | MON                 | 4/23/1984  | 0      | GPM  |                  | 79                      | 58.24                             |
| P67166W                          | GW7  | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 15   | SESW                      | X        |                           | PU     | ORI            | MON                 | 4/23/1984  | 0      | GPM  |                  | 190                     | 0.3                               |
| P67167W                          | GW8  | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 22   | NENW                      | X        |                           | PU     | ORI            | MON                 | 4/23/1984  | 0      | GPM  |                  | 172                     | 125                               |
| P67171W                          | PW4  | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 22   | NENW                      | X        |                           | PU     | ORI            | MON                 | 4/23/1984  | 0      | GPM  |                  | 230                     | 100                               |
| P76332W                          | MW25   | Umetco Minerals Corporation             | 33  | N   | 89      | W      | 15   | NWNW                      | X        |                           | PU     | ORI            | MON                 | 2/19/1988  | 0      | GPM  |                  | 256                     | 227.5                             |
| P76997W                          | 4WW 1  | WYDEQ                                   | 33  | N   | 90      | W      | 26   | NWSE                      | X        |                           | PU     | ORI            | MON                 | 5/23/1988  | 0      | GPM  |                  | 300                     | 206.07                            |
| P76998W                          | JGW 3  | WYDEQ                                   | 33  | N   | 90      | W      | 26   | SWSE                      | X        |                           | PU     | ORI            | MON                 | 5/23/1988  | 0      | GPM  |                  | 200                     | 175.75                            |
| P45368W                          | Monitor Well GW 7                            | Power Resources Inc.                    | 33  | N   | 89      | W      | 27   | NESE                      | X        | X                         | UNA    | ORI            | MON                 | 9/26/1978  | 0      | GPM  |                  | 660                     | 82                                |
| P46776W                          | Muskrat P 1                                  | Silver King Mines, Inc.                 | 33  | N   | 89      | W      | 31   | NWSE                      | X        | X                         | UNA    | ORI            | MON                 | 2/22/1978  | 0      | GPM  |                  | 440                     | 201                               |
| P77793W                          | MW 28  | Umetco Minerals Corporation             | 33  | N   | 89      | W      | 9    | SESE                      | X        | X                         | UNA    | ORI            | MON                 | 8/3/1988   | 0      | GPM  |                  | 282                     | 178.4                             |
| P80484W                          | LA 1   | Lidstone & Anderson Inc.                | 33  | N   | 89      | W      | 14   | SWNW                      | X        | X                         | UNA    | ORI            | MON                 | 8/14/1989  | 0      | GPM  |                  | 60                      | 43                                |
| P80485W                          | LA 2   | Lidstone & Anderson Inc.                | 33  | N   | 89      | W      | 14   | SWSW                      | X        | X                         | UNA    | ORI            | MON                 | 8/14/1989  | 0      | GPM  |                  | 165                     | 128.5                             |
| P80486W                          | LA 3   | Lidstone & Anderson Inc.                | 33  | N   | 89      | W      | 15   | SESE                      | X        | X                         | UNA    | ORI            | MON                 | 8/14/1989  | 0      | GPM  |                  | 195                     | 183                               |
| P80488W                          | LA 5   | Lidstone & Anderson Inc.                | 33  | N   | 89      | W      | 22   | NWNE                      | X        | X                         | UNA    | ORI            | MON                 | 8/14/1989  | 0      | GPM  |                  | 128                     | 115                               |
| P80489W                          | LA 6   | Lidstone & Anderson Inc.                | 33  | N   | 89      | W      | 22   | NENE                      | X        | X                         | UNA    | ORI            | MON                 | 8/14/1989  | 0      | GPM  |                  |                         |                                   |
| P80490W                          | LA 7   | Lidstone & Anderson Inc.                | 33  | N   | 89      | W      | 23   | NWNW                      | X        | X                         | UNA    | ORI            | MON                 | 8/14/1989  | 0      | GPM  |                  | 105                     | 71.5                              |
| P82823W                          | MUSKRAT-MO                                   | Power Resources Inc.                    | 33  | N   | 89      | W      | 31   | NESW                      | X        | X                         | UNA    | ORI            | MON                 | 6/28/1990  | 0      | GPM  |                  | 381                     | 198                               |
| P82824W                          | Muskrat Pump                                 | Power Resources Inc.                    | 33  | N   | 89      | W      | 31   | NWSE                      | X        | X                         | UNA    | ORI            | MON                 | 6/28/1990  | 0      | GPM  |                  | 455                     | 266                               |
| P82825W                          | Muskrat MP                                   | Power Resources Inc.                    | 33  | N   | 89      | W      | 31   | NWSE                      | X        | X                         | UNA    | ORI            | MON                 | 6/28/1990  | 0      | GPM  |                  | 453                     | 249                               |
| P83055W                          | MW-21A                                       | Umetco Minerals Corporation             | 33  | N   | 89      | W      | 10   | NWSW                      | X        | X                         | UNA    | ORI            | MON                 | 7/23/1990  | 0      | GPM  |                  | 200                     | 165.87                            |
| P67076W                          | Guard Well 3C                                | USDI, BLM** Union Carbide Corporation   | 33  | N   | 89      | W      | 15   | NWNW                      | X        |                           | A&C    | ORI            | RES,IND,MIS         | 2/16/1984  | 10     | GPM  |                  | 159                     | 105                               |
| P25540D                          | Hydrostatic Test - North Pipeline Pump Point | Colorado Interstate Gas Company         | 32  | N   | 89      | W      | 0    |                           | X        |                           | PU     | ORI            | TEM,IND             | 10/19/1977 | 2.23   | CFS  | Sweetwater River |                         |                                   |
| P26230D                          | Coyote Water Hole #1                         | D. H. Branson                           | 33  | N   | 90      | W      | 11   | NWNE                      | X        |                           | PU     | ORI            | TEM,IND,MIN,D<br>RI | 6/26/1979  | 0.28   | CFS  | Coyote Creek     |                         |                                   |
| 21/2/264W                        |  |   | 33  | N   | 89      | W      | 15   | NWNW                      | X        | X                         | UNA    | ORI            |                     |            |        |      |                  |                         |                                   |
| 21/3/264W                        |  |   | 33  | N   | 89      | W      | 10   | SWSW                      | X        | X                         | UNA    | ORI            |                     |            |        |      |                  |                         |                                   |
| P67075W                          | Guard Well 3B                                | USDI, BLM** Union Carbide Corporation   | 33  | N   | 89      | W      | 15   | SWSW                      | X        |                           | A&C    | RES            | RES,IND,MIS         | 2/16/1984  | 7      | GPM  |                  | 159                     | 114.1                             |
| P67077W                          | HDW-1  | Union Carbide Corporation               | 33  | N   | 89      | W      | 15   | NWSW                      | X        |                           | PU     | RES            | RES,IND,MIS         | 2/8/1984   | 1      | GPM  |                  | 35                      | -4                                |
| P60146W                          | Bengal Well #1                               | USDI, BLM** Federal-American Partners   | 33  | N   | 89      | W      | 27   | NENE                      | X        |                           | PU     | RES            | RES,MIS             | 11/25/1977 | 0      | GPM  |                  | -1                      | 0                                 |
| P82563W                          | MWC-34                                       | Umetco Minerals Corporation             | 33  | N   | 89      | W      | 10   | SWSW                      | X        |                           | ABA    |                | MIS                 | 4/27/1990  | 3      | GPM  |                  | 200                     | 157.06                            |
| P2395W                           | Lucky Mc #11                                 | Pathfinder Mines Corporation            | 32  | N   | 90      | W      | 0    |                           | X MS 610 |                           | ADJ    | ORI            | IND                 | 12/6/1968  | 100    | GPM  |                  | 2140                    | 186                               |
| P3W                              | Lucky Mc #8                                  | Pathfinder Mines Corporation            | 32  | N   | 90      | W      | 0    |                           | X MS 610 |                           | ADJ    | ORI            | IND                 | 3/14/1958  | 80     | GPM  |                  | 1500                    | 392                               |
| P162305W                         | Process Water Well #6                        | Umetco Minerals Corporation             | 33  | N   | 89      | W      | 15   | NENW                      |          | 0                         | GST    | ORI            | IND                 | 8/16/2004  |        |      |                  | 1685                    | 90                                |

# Appendix A

## Water Rights Within Five-Mile Radius of East Gas Hills Site

| Permit Number<br>(Appropriation) | Facility Name   | Permit Applicant                           | Tns | Rng | Section | Qtrqtr | Lots | Additional<br>Description | Acres | Head Gate-<br>Outlet-Well | Status | Supply<br>type | Uses        | Priority   | Amount | Unit | Source      | Permit<br>Well<br>Depth | Permit<br>Static<br>Well<br>Depth |
|----------------------------------|---|--|-----|-----|---------|--------|------|---------------------------|-------|---------------------------|--------|----------------|-------------|------------|--------|------|-------------|-------------------------|-----------------------------------|
| P30735W                          | Lucky Mc Well #12   | Pathfinder Mines Corporation               | 33  | N   | 90      | W      | 24   | SENW                      |       | X                         | UNA    | ORI            | IND         | 8/8/1975   | 310    | GPM  |             | 1451                    | 64                                |
| P43159W                          | Lucky Mc #14  | Pathfinder Mines Corporation               | 33  | N   | 90      | W      | 24   | NESW                      |       | X                         | UNA    | ORI            | IND         | 3/31/1978  | 500    | GPM  |             | 1505                    | 70                                |
| P8208R                           | Adobe Oil & Gas Corporation Evaporation<br>Pond Reservoir | Adobe Oil & Gas Corporation                | 33  | N   | 89      | W      | 9    | NESE                      |       | X                         | PUO    | ORI            | IND,MIS     | 3/2/1979   | 25.82  | ACFT | East Draw   |                         |                                   |
| P4483E                           | Cross Ell Ditch, Enlargement No. 3 of the                 | Diamond Ring Co.                           | 33  | N   | 89      | W      | 1    | SENE                      | 7.8   |                           | ADJ    | ORI            | IRR         | 3/18/1926  | 0.19   | CFS  | Deer Creek  |                         |                                   |
| P2754E                           | Cross Ell Ditch - Permit 9431 {Enl. of}                   | Grieve Brothers                            | 33  | N   | 89      | W      | 1    |                           |       |                           | DSC    | ORI            | IRR         | 2/5/1913   |        |      | Deer Creek  |                         |                                   |
| P9431D                           | Cross Ell Ditch   | Leonidas Clayton                           | 33  | N   | 89      | W      | 1    |                           |       |                           | ELI    | ORI            | IRR         | 10/11/1909 | 1.21   | CFS  | Deer Creek  |                         |                                   |
| P10166D                          | Crane Ditch   | J. J. Holliday                             | 33  | N   | 88      | W      | 7    | NWSE                      |       | X                         | PUD    | ORI            | IRR         | 9/26/1910  | 0.36   | CFS  | Deer Creek  |                         |                                   |
| P1226D                           | O. K. Ditch   | Josie P. Biggs                             | 33  | N   | 88      | W      | 17   | NWNW                      |       | X                         | PUD    | ORI            | IRR         | 05/11/1896 | 1.14   | CFS  | Deer Creek  |                         |                                   |
| P17093D                          | Diamond Ring Ditch No. 5                                  | Diamond Ring Co.                           | 33  | N   | 89      | W      | 1    | SENE                      |       | X                         | PUD    | ORI            | IRR         | 3/18/1926  | 0.21   | CFS  | Deer Creek  |                         |                                   |
| P2575D                           | Merriam Ditch   | Frank A. Merriam                           | 33  | N   | 89      | W      | 8    | SWNW                      |       | X                         | PUD    | ORI            | IRR         | 3/30/1900  | 0.11   | CFS  | Iron Spring |                         |                                   |
| P85776W                          | ENL MWC-42  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | A&C    | ORI            | MIS         | 7/24/1991  | 8      | GPM  |             | 240                     | 180.58                            |
| P91280W                          | MWC 58  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NWNW                      |       |                           | A&C    | ORI            | MIS         | 3/19/1993  | 6      | GPM  |             | 250                     | 154                               |
| P91282W                          | MWC 60  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | A&C    | ORI            | MIS         | 3/19/1993  | 4      | GPM  |             | 160                     | 111                               |
| P91283W                          | MWC 61  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NENW                      |       |                           | A&C    | ORI            | MIS         | 3/19/1993  | 3.5    | GPM  |             | 150                     | 116                               |
| P91284W                          | MWC 62  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NWNW                      |       |                           | A&C    | ORI            | MIS         | 3/19/1993  | 4      | GPM  |             | 165                     | 107                               |
| P84754W                          | MWC-48  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NWNE                      |       | X                         | ABA    | ORI            | MIS         | 3/18/1991  | 15     | GPM  |             | 245                     | 177.92                            |
| P32404W                          | ENL UPZ #1  | Federal-American Partners                  | 33  | N   | 89      | W      | 33   | SWNW                      |       | X                         | PUW    | ORI            | MIS         | 1/26/1976  | -1     | GPM  |             | 925                     | 470                               |
| P103982W                         | Lucky Mc #14  | USDI, BLM**Barnhart Drilling Company, Inc. | 33  | N   | 90      | W      | 24   | SWNE                      |       | X                         | UNA    | ORI            | MIS         | 9/17/1996  | 400    | GPM  |             | 1505                    | 70                                |
| P130987W                         | HW4EX   | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | SWNW                      | 0     | X                         | UNA    | ORI            | MIS         | 11/28/2000 | 0      |      |             |                         |                                   |
| P87215W                          | Area 5 Reclamation Reservoir                              | Pathfinder Mines Corp.                     | 33  | N   | 90      | W      | 26   | NWNW                      |       |                           | UNA    | ORI            | MIS         | 12/24/1991 | 66     | GPM  |             | 250                     | 95                                |
| P104718W                         | C-18 Pit  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 22   | NENW                      |       | X                         | UNA    | ORI            | MIS,DEW,RES | 11/21/1996 | 500    | GPM  |             | 85                      | 80                                |
| P104183W                         | MW 75   | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 14   | NESW                      |       | X                         | A&C    | ORI            | MON         | 10/15/1996 | 0      | GPM  |             | 205                     | 120.93                            |
| P104184W                         | MW 76   | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 8    | NESE                      |       | X                         | A&C    | ORI            | MON         | 10/15/1996 | 0      | GPM  |             | 142                     | 95.55                             |
| P105493W                         | MW 70B  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | A&C    | ORI            | MON         | 4/11/1997  | 0      | GPM  |             | 265                     | 138                               |
| P105494W                         | MW 71A  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 16   | NENE                      |       | X                         | A&C    | ORI            | MON         | 4/11/1997  | 0      | GPM  |             | 237                     | 224                               |
| P105497W                         | MW 73   | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 22   | NENW                      |       | X                         | A&C    | ORI            | MON         | 4/11/1997  | 0      | GPM  |             | 153                     | 104                               |
| P105498W                         | MW 74   | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 22   | NWNW                      |       | X                         | A&C    | ORI            | MON         | 4/11/1997  | 0      | GPM  |             | 60                      | 21                                |
| P108001W                         | MW78  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | A&C    | ORI            | MON         | 11/4/1997  | 0      | GPM  |             | 150                     | 111.45                            |
| P108002W                         | MW79  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | A&C    | ORI            | MON         | 11/4/1997  | 0      | GPM  |             | 150                     | 118.83                            |
| P108003W                         | MW80  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | A&C    | ORI            | MON         | 11/4/1997  | 0      | GPM  |             | 155                     | 117.48                            |
| P108004W                         | MW81  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | A&C    | ORI            | MON         | 11/4/1997  | 0      | GPM  |             | 240                     | 171                               |
| P114511W                         | MW10D   | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | SWNE                      | 0     | X                         | A&C    | ORI            | MON         | 3/10/1999  | 0      |      |             | 265                     | 214.41                            |
| P114512W                         | MW24D   | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | SESW                      | 0     | X                         | A&C    | ORI            | MON         | 3/10/1999  | 0      |      |             | 210                     | 131.51                            |
| P114513W                         | MW7D  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NESW                      | 0     | X                         | A&C    | ORI            | MON         | 3/10/1999  | 0      |      |             | 266                     | 185.87                            |
| P114514W                         | MW6D  | Umetco Minerals Corporation                | 33  | N   | 89      | W      | 15   | NWSE                      | 0     | X                         | A&C    | ORI            | MON         | 3/10/1999  | 0      |      |             | 270                     | 231.7                             |
| P45371W                          | Monitor Well GW 10  | Power Resources Inc.                       | 33  | N   | 89      | W      | 21   | SESE                      |       | X                         | A&C    | ORI            | MON         | 9/26/1978  | 0      | GPM  |             | 475                     | 153                               |
| P67147W                          | MW2   | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 170                     | 125                               |
| P67148W                          | MW4   | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 10   | SWSE                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 140                     | 82                                |
| P67149W                          | MW6   | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 15   | NWSE                      | 0     | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 220                     | 162                               |
| P67150W                          | MW7   | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 15   | NESW                      | 0     | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 220                     | 145                               |
| P67151W                          | MW8   | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 15   | SWNE                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 159                     | 57.15                             |
| P67152W                          | MW10  | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 15   | SWNE                      | 0     | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 160                     | 95                                |
| P67154W                          | MW17  | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 10   | NESW                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 160                     | 105                               |
| P67155W                          | MW18  | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 10   | NWSE                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 80                      | 53                                |
| P67156W                          | MW19  | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 10   | SESE                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 110                     | 67                                |
| P67157W                          | MW20  | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 15   | NENE                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 90                      | 65                                |
| P67158W                          | MW21  | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 10   | SWSW                      | 0     | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 159                     | -7                                |
| P67159W                          | MW23  | USDI, BLM** Umetco Minerals Corporation    | 33  | N   | 89      | W      | 10   | NWSE                      |       | X                         | A&C    | ORI            | MON         | 4/23/1984  | 0      | GPM  |             | 140                     | 80                                |



# Appendix A

## Water Rights Within Five-Mile Radius of East Gas Hills Site

| Permit Number<br>(Appropriation) | Facility Name | Permit Applicant   | Tns | Rng | Section | Qtrqtr | Lots | Additional<br>Description | Acres | Head Gate-<br>Outlet-Well | Status | Supply<br>type | Uses | Priority   | Amount | Unit | Source | Permit<br>Well<br>Depth | Permit<br>Static<br>Well<br>Depth |
|----------------------------------|---------------|--|-----|-----|---------|--------|------|---------------------------|-------|---------------------------|--------|----------------|------|------------|--------|------|--------|-------------------------|-----------------------------------|
| P67160W                          | GW1           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 160                     | 105                               |
| P67161W                          | GW2           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 158                     | 114                               |
| P67162W                          | GW3           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SESW                      | 0     | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 160                     | 107                               |
| P67163W                          | GW4           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NENW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 165                     | 112.42                            |
| P67164W                          | GW5           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWSE                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 160                     | 100                               |
| P67165W                          | GW6           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NWNE                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 121                     | 86.18                             |
| P67168W                          | PW1           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | NESW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 220                     | 168                               |
| P67169W                          | PW2           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWSW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 220                     | 192                               |
| P67170W                          | PW3           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWSW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 220                     | 148                               |
| P67173W                          | PW6           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NENW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 136                     | 122.39                            |
| P67174W                          | PW7           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWSE                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 260                     | -7                                |
| P67175W                          | EPW1          | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 16   | SESE                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 155                     | 110                               |
| P67176W                          | EPW2          | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NWNW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 115                     | 89                                |
| P67177W                          | EPW3          | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NWNW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 110                     | 70                                |
| P67179W                          | DW3           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWNW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 228                     | 210                               |
| P67180W                          | MW30026       | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NWNW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 193                     | 77                                |
| P67181W                          | RW1           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NWNW                      | 0     | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 130                     | 87.04                             |
| P67182W                          | RW2           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 22   | NWNW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 120                     | 76                                |
| P67183W                          | HW1           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWSW                      | 0     | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 267.6                   | 152.35                            |
| P67184W                          | HW2           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 16   | NESE                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 117                     | 104.72                            |
| P67185W                          | HW3           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWNW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 135.5                   | 113.34                            |
| P67186W                          | HW4           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SWNW                      |       | X                         | A&C    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 155.4                   | 123.85                            |
| P76333W                          | MW26          | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 10   | NWSW                      |       | X                         | A&C    | ORI            | MON  | 2/19/1988  | 0      | GPM  |        | 160                     | 90                                |
| P76334W                          | MW27          | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 11   | SWSW                      |       | X                         | A&C    | ORI            | MON  | 2/19/1988  | 0      | GPM  |        | 121                     | 41                                |
| P80434W                          | MW 32         | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | A&C    | ORI            | MON  | 8/4/1989   | 0      | GPM  |        | 160                     | 102                               |
| P84648W                          | MWI 43        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 15   | NWNW                      |       | X                         | A&C    | ORI            | MON  | 3/18/1991  | 0      | GPM  |        | 240                     | 194.8                             |
| P67153W                          | MW16          | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | ABA    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 200                     | -7                                |
| P67178W                          | DW2           | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | ABA    | ORI            | MON  | 4/23/1984  | 0      | GPM  |        | 260                     | 140                               |
| P80432W                          | MW 29         | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 15   | NESW                      |       | X                         | ABA    | ORI            | MON  | 8/4/1989   | 0      | GPM  |        | 195                     | 188                               |
| P80433W                          | MW 31         | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 15   | NESW                      |       | X                         | ABA    | ORI            | MON  | 8/4/1989   | 3      | GPM  |        | 180                     | 130.77                            |
| P82566W                          | MWI-37        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | ABA    | ORI            | MON  | 4/27/1990  | 0      | GPM  |        | 240                     | 222.9                             |
| P82567W                          | MWI-38        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | ABA    | ORI            | MON  | 4/27/1990  | 0      | GPM  |        | 230                     | 195.88                            |
| P82568W                          | MWI-39        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | ABA    | ORI            | MON  | 4/27/1990  | 0      | GPM  |        | 253                     | 222                               |
| P84650W                          | MWI-50        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 15   | NENE                      |       | X                         | ABA    | ORI            | MON  | 3/18/1991  | 0      | GPM  |        | 240                     | 171                               |
| P84651W                          | MWI-51        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 15   | NENE                      |       | X                         | ABA    | ORI            | MON  | 3/18/1991  | 0      | GPM  |        | 240                     | 159                               |
| P84652W                          | MWI-52        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 15   | NENE                      |       | X                         | ABA    | ORI            | MON  | 3/18/1991  | 0      | GPM  |        | 245                     | 144                               |
| P144110W                         | MW82          | Umetco Minerals Corporation** USDI, Bureau of<br>Land Management | 33  | N   | 89      | W      | 22   | NWNW                      | 0     | X                         | GST    | ORI            | MON  | 4/26/2002  |        |      |        | 115                     | 86                                |
| P66157W                          | Guard Well 3A | USDI, BLM** Union Carbide Corporation                            | 33  | N   | 89      | W      | 15   | SESW                      | 0     | X                         | GST    | ORI            | MON  | 4/1/1983   | 10     | GPM  |        | 158                     | 101                               |
| P31498W                          | BS12-1027P    | Federal-American Partners  | 33  | N   | 89      | W      | 32   | SWNE                      |       | X                         | PUW    | ORI            | MON  | 11/12/1975 | 0      | GPM  |        | 565                     | 325                               |
| P41023W                          | RHW-5         | Mullen Mining Company  | 33  | N   | 89      | W      | 9    | SWSW                      |       | X                         | PUW    | ORI            | MON  | 11/16/1977 | 0      | GPM  |        | 180                     | 0                                 |
| P76996W                          | JGW 1         | WYDEQ  | 33  | N   | 90      | W      | 26   | SENE                      |       | X                         | PUW    | ORI            | MON  | 5/23/1988  | 0      | GPM  |        | 300                     | 136.9                             |
| P103584W                         | BS 96 M-1     | Power Resources Inc.   | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            | MON  | 8/29/1996  | 0      | GPM  |        | 305                     | 194.1                             |
| P103586W                         | WSL96M-1      | Power Resources Inc.   | 33  | N   | 89      | W      | 28   | NESE                      |       | X                         | UNA    | ORI            | MON  | 8/29/1996  | 0      | GPM  |        | 365                     | 175.25                            |
| P103587W                         | MU 96 M-2     | Power Resources Inc.   | 33  | N   | 89      | W      | 31   | NESW                      |       | X                         | UNA    | ORI            | MON  | 8/29/1996  | 0      | GPM  |        | 475                     | 256.7                             |
| P103588W                         | MU 96 M-1     | Power Resources Inc.   | 33  | N   | 89      | W      | 31   | NESW                      |       | X                         | UNA    | ORI            | MON  | 8/29/1996  | 0      | GPM  |        | 465                     | 244.5                             |
| P103591W                         | WSL96MP1      | Power Resources Inc.   | 33  | N   | 89      | W      | 28   | NWSE                      |       | X                         | UNA    | ORI            | MON  | 8/29/1996  | 0      | GPM  |        | 275                     | 148.25                            |
| P104185W                         | MW 77         | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 9    | SWSE                      |       | X                         | UNA    | ORI            | MON  | 10/15/1996 | 0      | GPM  |        | 279                     | 231.01                            |
| P105492W                         | MW 70A        | Umetco Minerals Corporation                                      | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | UNA    | ORI            | MON  | 4/11/1997  | 0      | GPM  |        | 151                     | 141                               |

Appendix A  
Water Rights Within Five-Mile Radius of East Gas Hills Site

| Permit Number<br>(Appropriation) | Facility Name                 | Permit Applicant                 | Tns | Rng | Section | Qtrqtr | Lots | Additional<br>Description | Acres | Head Gate-<br>Outlet-Well | Status | Supply<br>type | Uses                | Priority   | Amount    | Unit | Source                                   | Permit<br>Well<br>Depth | Permit<br>Static<br>Well<br>Depth |
|----------------------------------|-------------------------------|----------------------------------|-----|-----|---------|--------|------|---------------------------|-------|---------------------------|--------|----------------|---------------------|------------|-----------|------|--|-------------------------|-----------------------------------|
| P105495W                         | MW 71B                        | Umetco Minerals Corporation      | 33  | N   | 89      | W      | 16   | NENE                      |       | X                         | UNA    | ORI            | MON                 | 4/11/1997  | 0         | GPM  |  | 329                     | 223                               |
| P105496W                         | MW 72                         | Umetco Minerals Corporation      | 33  | N   | 89      | W      | 22   | NWNW                      |       | X                         | UNA    | ORI            | MON                 | 4/11/1997  | 0         | GPM  |  | 85                      | 56                                |
| P106684W                         | PDX MO 97-1                   | Power Resources Inc.             | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            | MON                 | 7/1/1997   | 0         | GPM  |  | 185                     | 90                                |
| P106685W                         | PDX MU 97-1                   | Power Resources Inc.             | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            | MON                 | 7/1/1997   | 0         | GPM  |  | 310                     | 90                                |
| P106686W                         | PDX MU 97-1                   | Power Resources Inc.             | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            | MON                 | 7/1/1997   | 0         | GPM  |  | 245                     | 90                                |
| P106687W                         | BUMP 97-1                     | Power Resources Inc.             | 33  | N   | 89      | W      | 34   | NENW                      |       | X                         | UNA    | ORI            | MON                 | 7/1/1997   | 0         | GPM  |  | 620                     | 352                               |
| P106688W                         | BUMO 97-1                     | Power Resources Inc.             | 33  | N   | 89      | W      | 34   | NENW                      |       | X                         | UNA    | ORI            | MON                 | 7/1/1997   | 0         | GPM  |  | 370                     | 314                               |
| P106689W                         | BUMU 97-1                     | Power Resources Inc.             | 33  | N   | 89      | W      | 34   | NENW                      |       | X                         | UNA    | ORI            | MON                 | 7/1/1997   | 0         | GPM  |  | 720                     | 354                               |
| P106690W                         | GW 10                         | Power Resources Inc.             | 33  | N   | 89      | W      | 21   | SESE                      |       | X                         | UNA    | ORI            | MON                 | 7/1/1997   | 0         | GPM  |  | 312                     | 200                               |
| P107839W                         | MUMP 97-1                     | Power Resources Inc.             | 33  | N   | 89      | W      | 31   | NESE                      |       | X                         | UNA    | ORI            | MON                 | 10/6/1997  | 0         | GPM  |  | 440                     | 237                               |
| P45369W                          | Monitor Well GW 8             | Silver King Mines, Inc.          | 33  | N   | 89      | W      | 27   | NENE                      |       | X                         | UNA    | ORI            | MON                 | 9/26/1978  | 0         | GPM  |  | 360                     | 98                                |
| P45370W                          | Monitor Well GW 9             | Silver King Mines, Inc.          | 33  | N   | 89      | W      | 28   | NESE                      |       | X                         | UNA    | ORI            | MON                 | 9/26/1978  | 0         | GPM  |  | 325                     | 111                               |
| P46773W                          | Muskrat P 3                   | Silver King Mines, Inc.          | 33  | N   | 89      | W      | 31   | SESW                      |       | X                         | UNA    | ORI            | MON                 | 2/22/1978  | 0         | GPM  |  | 515                     | 194                               |
| P46774W                          | Muskrat P 4                   | Silver King Mines, Inc.          | 33  | N   | 89      | W      | 31   | NESW                      |       | X                         | UNA    | ORI            | MON                 | 2/22/1978  | 0         | GPM  |  | 530                     | 244                               |
| P46775W                          | Muskrat P 2                   | Silver King Mines, Inc.          | 33  | N   | 89      | W      | 31   | SWSE                      |       | X                         | UNA    | ORI            | MON                 | 2/22/1978  | 0         | GPM  |  | 530                     | 134                               |
| P91081W                          | MW-63                         | Umetco Minerals Corporation      | 33  | N   | 89      | W      | 15   | NESW                      |       | X                         | UNA    | ORI            | MON                 | 3/19/1993  | 0         | GPM  |  | 180                     | 120                               |
| P91082W                          | MW-64                         | Umetco Minerals Corporation      | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | UNA    | ORI            | MON                 | 3/19/1993  | 0         | GPM  |  | 260                     | 160                               |
| P91083W                          | MW-65                         | Umetco Minerals Corporation      | 33  | N   | 89      | W      | 15   | SWNW                      |       | X                         | UNA    | ORI            | MON                 | 3/19/1993  | 0         | GPM  |  | 180                     | 120                               |
| P92914W                          | PRI #1                        | PRI Environmental Inc.           | 33  | N   | 89      | W      | 28   | SENE                      |       | X                         | UNA    | ORI            | MON                 | 10/1/1993  | 0         | GPM  |  | 275                     | 153.58                            |
| P93567W                          | LA-8                          | Lidstone & Anderson Inc.         | 33  | N   | 89      | W      | 22   | NENE                      |       | X                         | UNA    | ORI            | MON                 | 12/10/1993 | 0         | GPM  |  | 163                     | 72.9                              |
| P78994W                          | 2R Reservoir                  | Pathfinder Mines Corporation     | 32  | N   | 90      | W      | 0    |                           |       |                           | ADJ    | ORI            | RES,STO,MIS         | 11/23/1988 | 60        | GPM  |  | 250                     | 200                               |
| 38/9/152W                        | Liam                          | Glenn H. Burgett                 | 34  | N   | 90      | W      | 36   | NENE                      |       | 0                         | X      | UNA            | ORI                 | STO        | 8/25/2005 |      |  |                         |                                   |
| P10858D                          | Dew Drop Ditch                | The Diamond Ring Co.             | 33  | N   | 89      | W      | 7    | SENE                      |       | X                         | PUD    | ORI            | STO,IRR             | 7/17/1911  | 0.07      | CFS  | Dew Drop Spring                          |                         |                                   |
| P10859D                          | Iron Spring Ditch             | The Diamond Ring Co.             | 33  | N   | 89      | W      | 8    | SESW                      |       | X                         | PUD    | ORI            | STO,IRR             | 7/17/1911  | 0.28      | CFS  | Iron Spring                              |                         |                                   |
| P10860D                          | Medicine Spring Ditch         | The Diamond Ring Co.             | 33  | N   | 89      | W      | 7    | NWNW                      |       | X                         | PUD    | ORI            | STO,IRR             | 7/17/1911  | 0.06      | CFS  | Medicine Spring                          |                         |                                   |
| P10861D                          | Pine Tree Ditch               | The Diamond Ring Co.             | 33  | N   | 89      | W      | 8    | SWNW                      |       | X                         | PUD    | ORI            | STO,IRR             | 7/17/1911  | 0.07      | CFS  | Pine Tree Spring                         |                         |                                   |
| P15179D                          | C. B. C. Ditch                | Charles B. Cunningham            | 33  | N   | 89      | W      | 4    | NWNW                      | L4    | 8                         | ADJ    | ORI            | STO,IRR,DOM         | 8/9/1918   | 0.17      | CFS  | Canyon Creek                             |                         |                                   |
| P1314D                           | Holliday Ditch                | John J. Holliday                 | 33  | N   | 88      | W      | 7    |                           | L5    | 7                         | ELI    | ORI            | STO,IRR,DOM         | 08/27/1896 | 0.57      | CFS  | Deer Creek                               |                         |                                   |
| P14468D                          | Dulton Pipe Line No. 1 Ditch  | Ben M. & B. B. Wood              | 33  | N   | 90      | W      | 2    | NWSW                      |       | X                         | PUD    | ORI            | STO,MIN,DOM,<br>DRI | 10/16/1916 | 0.06      | CFS  | Spring                                   |                         |                                   |
| P23192D                          | Lucky Mac Sump No. 2 Pipeline | Wyoming State Highway Department | 33  | N   | 90      | W      | 35   | SESW                      |       | X                         | PUD    | ORI            | TEM,IND             | 10/14/1969 | 1.11      | CFS  | Lucky Mac Sump No. 2<br>(in drainage of) |                         |                                   |
| 22/6/316W                        |                               |                                  | 33  | N   | 89      | W      | 15   | NESW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/1/58W                         |                               |                                  | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/10/102W                       |                               |                                  | 33  | N   | 89      | W      | 14   | NESW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/10/299W                       |                               |                                  | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/11/207W                       |                               |                                  | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/11/299W                       |                               |                                  | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/12/57W                        |                               |                                  | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/2/58W                         |                               |                                  | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/3/58W                         |                               |                                  | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/4/58W                         |                               |                                  | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/5/58W                         |                               |                                  | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/6/58W                         |                               |                                  | 33  | N   | 89      | W      | 32   | NENW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/7/207W                        |                               |                                  | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/7/299W                        |                               |                                  | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/8/207W                        |                               |                                  | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/8/299W                        |                               |                                  | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |
| 25/9/102W                        |                               |                                  | 33  | N   | 89      | W      | 14   | NESW                      |       | X                         | UNA    | ORI            |                     |            |           |      |  |                         |                                   |

Appendix A  
Water Rights Within Five-Mile Radius of East Gas Hills Site

| Permit Number<br>(Appropriation) | Facility Name  | Permit Applicant                        | Tns | Rng | Section | Qtrqtr | Lots | Additional<br>Description | Acres | Head Gate-<br>Outlet-Well | Status | Supply<br>Type | Uses | Priority   | Amount | Unit | Source | Permit<br>Well<br>Depth | Permit<br>Static<br>Well<br>Depth |
|----------------------------------|----------------|---|-----|-----|---------|--------|------|---------------------------|-------|---------------------------|--------|----------------|------|------------|--------|------|--------|-------------------------|-----------------------------------|
| 25/9/207W                        |                |   | 33  | N   | 89      | W      | 10   | SWSW                      |       | X                         | UNA    | ORI            |      |            |        |      |        |                         |                                   |
| 25/9/299W                        |                |   | 33  | N   | 89      | W      | 22   | NESW                      |       | X                         | UNA    | ORI            |      |            |        |      |        |                         |                                   |
| 26/4/21W                         |                |   | 33  | N   | 89      | W      | 15   | SESW                      |       | X                         | UNA    | ORI            |      |            |        |      |        |                         |                                   |
| 27/5/280R                        |                |   | 33  | N   | 90      | W      | 36   | SWSW                      |       | X                         | UNA    | ORI            |      |            |        |      |        |                         |                                   |
| P60147W                          | Bengal Well #2 | USDI, BLM** Federal-American Partners   | 33  | N   | 89      | W      | 27   | NENE                      |       | X                         | PUW    | RES            | MIS  | 11/25/1977 | 0      | GPM  |        | -1                      | 0                                 |
| P67172W                          | PW5            | USDI, BLM** Umetco Minerals Corporation | 33  | N   | 89      | W      | 22   | NENW                      |       | X                         | A&C    |                | MON  | 4/23/1984  | 0      | GPM  |        | 160                     | 120.72                            |
| P112329W                         | BSPW-1         | Power Resources Inc.                    | 33  | N   | 89      | W      | 32   | SENW                      | 0     | X                         |        |                | MON  | 10/8/1998  | 0      |      |        | 425                     | 257.4                             |
| P112330W                         | BSMU-1         | Power Resources Inc.                    | 33  | N   | 89      | W      | 32   | NENW                      | 0     | X                         |        |                | MON  | 10/8/1998  | 0      |      |        | 485                     | 266.9                             |
| P112331W                         | BSMP-1         | Power Resources Inc.                    | 33  | N   | 89      | W      | 32   | NENW                      | 0     | X                         |        |                | MON  | 10/8/1998  | 0      |      |        | 376                     | 212                               |
| P112332W                         | BSMP-2         | Power Resources Inc.                    | 33  | N   | 89      | W      | 32   | NENW                      | 0     | X                         |        |                | MON  | 10/8/1998  | 0      |      |        | 410                     | 230                               |
| P112333W                         | BSMP-3         | Power Resources Inc.                    | 33  | N   | 89      | W      | 32   | NENW                      | 0     | X                         |        |                | MON  | 10/8/1998  | 0      |      |        | 372                     | 221                               |



## **Appendix A**

### **Water Rights Within Five-Mile Radius of East Gas Hills Site**

#### **Abbreviations**

##### **Additional Description:**

|          |  |
|----------|--|
| <b>D</b> | <b>Ditch or Pipeline Permit</b>  |
| <b>E</b> | <b>Enlargement of a Ditch or Pipeline Permit</b>   |
| <b>P</b> | <b>Stock and Domestic Use Wells completed prior to May 24, 1969 and registered with the State Engineer's Office prior to December 31, 1972</b> |
| <b>R</b> | <b>Reservoir Permit</b>  |
| <b>S</b> | <b>Stock Reservoir Permit</b>  |
| <b>W</b> | <b>Permits are for wells with a priority date for the date of filing with the State Engineer</b>   |

##### **For Status:**

|                |  |
|----------------|--|
| <b>A&amp;C</b> | <b>Abandoned and Cancelled</b>                         |
| <b>ABA</b>     | <b>Abandoned</b>                                       |
| <b>ADJ</b>     | <b>Adjudicated</b>                                     |
| <b>DSC</b>     | <b>Description</b>                                     |
| <b>ELI</b>     | <b>Eliminated</b>                                      |
| <b>GST</b>     | <b>Good Standing</b>                                   |
| <b>PU</b>      | <b>Point of Use Non Irrigation (Not Actual Status)</b> |
| <b>PUD</b>     | <b>Point of Diversion (Not Actual Status)</b>          |
| <b>PUO</b>     | <b>Point of Reservoir Outlet (Not Actual Status)</b>   |
| <b>PUW</b>     | <b>Location of Well (Not Actual Status)</b>            |
| <b>REJ</b>     | <b>Rejected by the State Engineer</b>                  |
| <b>UNA</b>     | <b>Un-adjudicated</b>                                  |

##### **For Supply Type:**

|            |   |
|------------|---|
| <b>ORI</b> | <b>Original Supply</b>  |
| <b>STR</b> | <b>Storage Supply (for Reservoir and Stock Reservoir Permits – May not appear on older permits)</b> |

##### **For Uses:**

|            |                         |
|------------|-------------------------|
| <b>DEW</b> | <b>Dewatering</b>       |
| <b>DOM</b> | <b>Domestic</b>         |
| <b>DRI</b> | <b>Drilling</b>         |
| <b>IND</b> | <b>Industrial</b>       |
| <b>IRR</b> | <b>Irrigation</b>       |
| <b>MIN</b> | <b>Mining</b>           |
| <b>MIS</b> | <b>Miscellaneous</b>    |
| <b>MON</b> | <b>Monitoring</b>       |
| <b>RES</b> | <b>Reservoir Supply</b> |
| <b>STO</b> | <b>Stock</b>            |
| <b>TEM</b> | <b>Temporary Use</b>    |
| <b>WIL</b> | <b>Wildlife</b>         |

## Appendix B

### Water Rights Within Proposed Land Transfer Boundary

| Appropriation | Permit Facility Name                                   | Permit Applicant                        | Tns |   | Rng |   | Section                   | Quarter          | Status   | Current Status from Umetco Documents   | Supply type   | Permit Uses                          | Permit Priority                      | Permit Amount | Unit | Permit Source | Permit Well Depth | Permit Static Well Depth |        |
|---------------|--|---|-----|---|-----|---|---------------------------|------------------|--|--|---|--------------------------------------|--------------------------------------|---------------|------|---------------|-------------------|--------------------------|--------|
| P8122R        | A-9 Pit Subgrade Tailings Disposal Reservoir           | Union Carbide Corporation               | 33  | N | 89  | W | 15                        | NESW, SESW, SWSE | Point of Use Non Irrigation, Point of Reservoir Outlet                               | Letter dated 12-15-00. Permit associated with project where mill tailings were placed in an approved open pit repository. The project is complete and a cover has been placed over the tailings in accordance with an approved plan. | Original Supply   | Industrial                           | 4/3/1980                             | 1107.73       | ACFT | Union Draw    |                   |                          |        |
| P8641R        | A-9 Pit Tailings Disposal Reservoir                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 15                        | NESW, SESW, SWSE | Point of Use Non Irrigation, Point of Reservoir Outlet                               |  | Original Supply   | Temporary, Industrial                | 7/27/1983                            | 966.77        | ACFT | Union Draw    |                   |                          |        |
| P43745W       | ADOBE #1   | USDI, BLM** Mullen Engineering          | 33  | N | 89  | W | 9                         |                  | SE   | Point of Use Non Irrigation, Location of Well  | Original Supply   | Miscellaneous, Industrial            | 6/9/1978                             | 50            | GPM  |               |                   |                          |        |
| P8208R        | Adobe Oil & Gas Corporation Evaporation Pond Reservoir | Adobe Oil & Gas Corporation             | 33  | N | 89  | W | 9                         |                  | NESE, NWSE   | Point of Use Non Irrigation, Point of Reservoir Outlet   | Original Supply   | Industrial, Miscellaneous            | 3/2/1979                             | 25.82         | ACFT | East Draw     |                   |                          |        |
| P56W          | ALJOB #1   | Globe Mining Co.                        | 33  | N | 89  | W | 15                        |                  | NENW, NWNW, SWNW   | Abandoned  | Abandoned 11-11-80  | Original Supply                      | Industrial, Domestic                 | 8/29/1958     | 45   | GPM           |                   | 484                      | 256    |
| P104730W      | ALJOB #2   | USDI, BLM**Umetco Minerals Corporation  | 33  | N | 89  | W | 15                        |                  | SENE,SW  | Unadjudicated  | Original Supply   | Miscellaneous                        | 11/25/1996                           | 45            | GPM  |               | 537               | 270                      |        |
| P46771W       | BS 1051  | American Nuclear Corporation            | 33  | N | 89  | W | 21                        |                  | NE   | Point of Use Non Irrigation  | Original Supply   | Miscellaneous                        | 1/13/1978                            | 110           | GPM  |               |                   |                          |        |
| P104718W      | C-18 Pit   | Umetco Minerals Corporation             | 33  | N | 89  | W | 15                        |                  | NENW   | Unadjudicated  | Reservoir, Original Supply  | Miscellaneous, Dewatering, Reservoir | 11/21/1996                           | 500           | GPM  |               | 85                | 80                       |        |
| P43111W       | CEE #1   | Union Carbide Corporation               | 33  | N | 89  | W | 9, (10), (15), (21), (22) |                  | NWSE, SWSE, SESE, (S1/2), (NENE, SWNE, SENE, NW, NESW, NWSW, SESW, SE), (NE), (N1/2) | Point of Use Non Irrigation  | Abandoned   | Original Supply                      | Miscellaneous                        | 3/10/1978     | 500  | GPM           |                   | 130                      | 55     |
| P67178W       | DW2  | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15                        |                  | SESW   | Abandoned  | Abandoned 6-22-92   | Original Supply                      | Monitoring                           | 4/23/1984     | 0    | GPM           |                   | 260                      | 140    |
| P67179W       | DW3  | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15                        |                  | SWNW   | Abandoned & Cancelled  | Abandoned 7-12-02, Aknowledged 9-28-04  | Original Supply                      | Monitoring                           | 4/23/1984     | 0    | GPM           |                   | 228                      | 210    |
| P89541W       | DW-4   | Umetco Minerals Corporation             | 33  | N | 89  | W | 10, (15)                  |                  | SWSW, (NENE, NWNW, SESW)   | Unadjudicated  | Abandoned 5-31-02   | Original Supply                      | Miscellaneous                        | 9/3/1992      | 8    | GPM           |                   | 260                      | 135    |
| P85776W       | ENL MWC-42, Aka MW-42                                  | Umetco Minerals Corporation             | 33  | N | 89  | W | 10, (15)                  |                  | NESW, SWSW, (NENW, NWNW)   | Abandoned & Cancelled  | Letter, dated 12-18-00, shows permit expired but backup information shows different permit numbers. | Original Supply                      | Miscellaneous                        | 7/24/1991     | 8    | GPM           |                   | 240                      | 180.58 |
| P67175W       | EPW1, Aka EW-1   | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 16                        |                  | SESE   | Abandoned & Cancelled  | Abandoned 8-14-03, Acknowledged 9-21-04   | Original Supply                      | Monitoring                           | 4/23/1984     | 0    | GPM           |                   | 155                      | 110    |
| P67176W       | EPW2, Aka EW-2   | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22                        |                  | NWNW   | Abandoned & Cancelled  | Abandoned 8-11-03, Acknowledged 9-21-04   | Original Supply                      | Monitoring                           | 4/23/1984     | 0    | GPM           |                   | 115                      | 89     |
| P67177W       | EPW3, Aka EW-3   | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22                        |                  | NWNW   | Abandoned & Cancelled  | Abandoned 8-12-03, Acknowledged 9-21-04   | Original Supply                      | Monitoring                           | 4/23/1984     | 0    | GPM           |                   | 110                      | 70     |
| P108233W      | GH97WW-1   | Power Resources Inc.                    | 33  | N | 89  | W | 22                        |                  | N1/2   | Unadjudicated  | Original Supply   | Miscellaneous                        | 11/17/1997                           | 100           | GPM  |               | 1325              | 425                      |        |
| P10444R       | GHP No. 2 Evaporation Reservoir                        | Umetco Minerals Corporation             | 33  | N | 89  | W | 15                        |                  | NW   | Unadjudicated  | Original Supply   | Industrial, Temporary                | 11/21/1996                           | 199.36        | ACFT | Canyon Creek  |                   |                          |        |
| P66157W       | GUARD WELL 3A, Aka GW-3A                               | USDI, BLM** Union Carbide Corporation   | 33  | N | 89  | W | 15                        |                  | SESW   | Good Standing  | Original Supply   | Monitoring                           | 4/1/1983                             | 10            | GPM  |               | 158               | 101                      |        |
| P67075W       | GUARD WELL 3B, Aka GW-3B                               | USDI, BLM** Union Carbide Corporation   | 33  | N | 89  | W | 15                        |                  | NENW, NWNW, SW, SWSE   | Abandoned & Cancelled  | Abandoned 5-27-99   | Reservoir, Original Supply           | Reservoir, Industrial, Miscellaneous | 2/16/1984     | 7    | GPM           |                   | 159                      | 114.1  |

## Appendix B

### Water Rights Within Proposed Land Transfer Boundary

| Appropriation | Permit Facility Name     | Permit Applicant                        | Tns |   | Rng |   | Section | Quarter                    | Status  | Current Status from Umetco Documents    | Supply type                | Permit Uses                          | Permit Priority | Permit Amount | Unit | Permit Source | Permit Well Depth | Permit Static Well Depth |
|---------------|--------------------------|---|-----|---|-----|---|---------|----------------------------|---|---|----------------------------|--------------------------------------|-----------------|---------------|------|---------------|-------------------|--------------------------|
| P67076W       | GUARD WELL 3C, Aka GW-3C | USDI, BLM** Union Carbide Corporation   | 33  | N | 89  | W | 15      | NENW, NWNW, SW, SWSE       | Abandoned & Cancelled                         | Abandoned 5-26-99                       | Reservoir, Original Supply | Reservoir, Industrial, Miscellaneous | 2/16/1984       | 10            | GPM  |               | 159               | 105                      |
| P67160W       | GW1                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SESW                       | Abandoned & Cancelled                         | Abandoned 5-12-02, Acknowledged 9-28-04 | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 160               | 105                      |
| P67161W       | GW2                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SESW                       | Abandoned & Cancelled                         | Abandoned 5-6-02, Acknowledged 9-28-04  | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 158               | 114                      |
| P67162W       | GW3                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SESW                       | Abandoned & Cancelled                         | Abandoned 6-12-02                       | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 160               | 107                      |
| P67163W       | GW4, Aka GW-4A, GW-4B    | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NENW                       | Abandoned & Cancelled                         | Abandoned 6-14-02, Acknowledged 9-28-04 | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 165               | 112.42                   |
| P67164W       | GW5                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SWSE                       | Abandoned & Cancelled                         | Abandoned 5-24-02, Acknowledged 9-28-04 | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 160               | 100                      |
| P67165W       | GW6                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NWNE                       | Abandoned & Cancelled                         | Abandoned 5-24-02, Acknowledged 9-28-04 | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 121               | 86.18                    |
| P67166W       | GW7                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SESW                       | Point of Use Non Irrigation, Location of Well | POC/ACL Well                            | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 190               | 0.3                      |
| P67167W       | GW8                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NENW                       | Point of Use Non Irrigation, Location of Well | POC/ACL Well                            | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 172               | 125                      |
| P67077W       | HDW-1                    | Union Carbide Corporation               | 33  | N | 89  | W | 15      | NENE, NENW, NWNW, SW, SWSE | Point of Use Non Irrigation, Location of Well |   | Reservoir, Original Supply | Reservoir, Industrial, Miscellaneous | 2/8/1984        | 1             | GPM  |               | 35                | -4                       |
| P67183W       | HW1, Aka Heap Well       | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SWSW                       | Abandoned & Cancelled                         | Abandoned 7-25-99 (see letter 12-18-00) | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 267.6             | 152.35                   |
| P67184W       | HW2                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 16      | NESE                       | Abandoned & Cancelled                         | Abandoned 8-14-03, Acknowledged 9-21-04 | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 117               | 104.72                   |
| P67185W       | HW3                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SWNW                       | Abandoned & Cancelled                         | Abandoned 8-14-03, Acknowledged 9-21-04 | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 135.5             | 113.34                   |
| P67186W       | HW4                      | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SWNW                       | Abandoned & Cancelled                         | Abandoned 7-13-02, Acknowledged 9-28-04 | Original Supply            | Monitoring                           | 4/23/1984       | 0             | GPM  |               | 155.4             | 123.85                   |
| P130987W      | HW4EX                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 15      | SWMW, SENW                 | Unadjudicated                                 |   | Reservoir, Original Supply | Miscellaneous                        | 11/28/2000      | 0             |      |               |                   |                          |
| P80486W       | LA 3                     | Lidstone & Anderson Inc.                | 33  | N | 89  | W | 15      | SESE                       | Unadjudicated                                 |   | Original Supply            | Monitoring                           | 8/14/1989       | 0             | GPM  |               | 195               | 183                      |
| P80488W       | LA 5                     | Lidstone & Anderson Inc.                | 33  | N | 89  | W | 22      | NWNE                       | Unadjudicated                                 |   | Original Supply            | Monitoring                           | 8/14/1989       | 0             | GPM  |               | 128               | 115                      |
| P80489W       | LA 6                     | Lidstone & Anderson Inc.                | 33  | N | 89  | W | 22      | NENE                       | Unadjudicated                                 |   | Original Supply            | Monitoring                           | 8/14/1989       | 0             | GPM  |               |                   |                          |
| P93567W       | LA-8                     | Lidstone & Anderson Inc.                | 33  | N | 89  | W | 22      | NENE                       | Unadjudicated                                 |   | Original Supply            | Monitoring                           | 12/10/1993      | 0             | GPM  |               | 163               | 72.9                     |
| P46772W       | MUSKRAT WELL #1          | American Nuclear Corporation            | 33  | N | 89  | W | 21      | NE                         | Point of Use Non Irrigation                   |   | Original Supply            | Dewatering, Miscellaneous            | 2/22/1978       | 120           | GPM  |               |                   |                          |
| P77793W       | MW 28                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 9       | SESE                       | Unadjudicated                                 | POC/ACL Well                            | Original Supply            | Monitoring                           | 8/3/1988        | 0             | GPM  |               | 282               | 178.4                    |
| P80432W       | MW 29, Aka MWI-29        | Umetco Minerals Corporation             | 33  | N | 89  | W | 15      | NESW                       | Abandoned                                     | Abandoned 9-25-96                       | Original Supply            | Monitoring                           | 8/4/1989        | 0             | GPM  |               | 195               | 188                      |
| P80433W       | MW 31, Aka MWI-31        | Umetco Minerals Corporation             | 33  | N | 89  | W | 15      | NESW                       | Abandoned                                     | Abandoned 10-3-96                       | Original Supply            | Monitoring                           | 8/4/1989        | 3             | GPM  |               | 180               | 130.77                   |
| P80434W       | MW 32                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 15      | SESW                       | Abandoned & Cancelled                         | Abandoned 5-8-02, Acknowledged 9-28-04  | Original Supply            | Monitoring                           | 8/4/1989        | 0             | GPM  |               | 160               | 102                      |
| P105492W      | MW 70A                   | Umetco Minerals Corporation             | 33  | N | 89  | W | 10      | SWSW                       | Unadjudicated                                 | POC/ACL Well                            | Original Supply            | Monitoring                           | 4/11/1997       | 0             | GPM  |               | 151               | 141                      |
| P105493W      | MW 70B                   | Umetco Minerals Corporation             | 33  | N | 89  | W | 10      | SWSW                       | Abandoned & Cancelled                         | Abandoned 8-5-03, Acknowledged 9-21-04  | Original Supply            | Monitoring                           | 4/11/1997       | 0             | GPM  |               | 265               | 138                      |
| P105494W      | MW 71A                   | Umetco Minerals Corporation             | 33  | N | 89  | W | 16      | NENE                       | Abandoned & Cancelled                         | Abandoned 5-8-01, Acknowledged 9-21-04  | Original Supply            | Monitoring                           | 4/11/1997       | 0             | GPM  |               | 237               | 224                      |
| P105495W      | MW 71B                   | Umetco Minerals Corporation             | 33  | N | 89  | W | 16      | NENE                       | Unadjudicated                                 | POC/ACL Well                            | Original Supply            | Monitoring                           | 4/11/1997       | 0             | GPM  |               | 329               | 223                      |
| P105496W      | MW 72                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 22      | NWNW                       | Unadjudicated                                 | POC/ACL Well                            | Original Supply            | Monitoring                           | 4/11/1997       | 0             | GPM  |               | 85                | 56                       |
| P105497W      | MW 73                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 22      | NENW                       | Abandoned & Cancelled                         | Abandoned 6-26-02, Acknowledged 9-28-04 | Original Supply            | Monitoring                           | 4/11/1997       | 0             | GPM  |               | 153               | 104                      |
| P105498W      | MW 74                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 22      | NWNW                       | Abandoned & Cancelled                         | Abandoned 8-11-03, Acknowledged 9-21-04 | Original Supply            | Monitoring                           | 4/11/1997       | 0             | GPM  |               | 60                | 21                       |
| P104185W      | MW 77                    | Umetco Minerals Corporation             | 33  | N | 89  | W | 9       | SWSE                       | Unadjudicated                                 | POC/ACL Well                            | Original Supply            | Monitoring                           | 10/15/1996      | 0             | GPM  |               | 279               | 231.01                   |



## Appendix B

### Water Rights Within Proposed Land Transfer Boundary

| Appropriation | Permit Facility Name   | Permit Applicant   | Tns | Rng | Section | Quarter | Status   | Current Status from Umetco Documents               | Supply type                             | Permit Uses     | Permit Priority | Permit Amount | Unit | Permit Source | Permit Well Depth | Permit Static Well Depth |
|---------------|------------------------|--|-----|-----|---------|---------|----------|--|---|-----------------|-----------------|---------------|------|---------------|-------------------|--------------------------|
| P67146W       | MW1, Aka MW-1A, MW-1B  | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | SWSE Point of Use Non Irrigation, Location of Well | POC/ACL Well                            | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 79                | 58.24                    |
| P67152W       | MW10, Aka MW10A, MW10B | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 15       | SWNE Abandoned & Cancelled                         | Abandoned 6-6-99                        | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 160               | 95                       |
| P114511W      | MW10D                  | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | SWNE Abandoned & Cancelled                         | Abandoned 6-24-02                       | Original Supply | Monitoring      | 3/10/1999     | 0    |               | 265               | 214.41                   |
| P67153W       | MW16, Aka MW16A        | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | SWSW Abandoned                                     | Abandonment approved 4-2-93             | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 200               | -7                       |
| P67154W       | MW17, Aka MW17A        | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | NESW Abandoned & Cancelled                         | Abandoned 5-18-99 and again 8-5-03!!    | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 160               | 105                      |
| P67155W       | MW18                   | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | NWSE Abandoned & Cancelled                         | Abandoned 8-6-03, Acknowledged 9-21-04  | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 80                | 53                       |
| P67156W       | MW19                   | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | SESE Abandoned & Cancelled                         | Abandoned 8-8-03, Acknowledged 9-21-04  | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 110               | 67                       |
| P67147W       | MW2                    | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | SWSW Abandoned & Cancelled                         | Abandoned 8-5-03, Acknowledged 9-21-04  | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 170               | 125                      |
| P67157W       | MW20                   | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 15       | NENE Abandoned & Cancelled                         | Abandoned 5-9-02, Acknowledged 9-28-04  | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 90                | 65                       |
| P67158W       | MW21                   | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | SWSW Abandoned & Cancelled                         | Abandoned 5-17-99                       | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 159               | -7                       |
| P83055W       | MW-21A                 | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 10       | NWSW Unadjudicated                                 | POC/ACL Well                            | Original Supply | Monitoring      | 7/23/1990     | 0    | GPM           | 200               | 165.87                   |
| P67159W       | MW23                   | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | NWSE Abandoned & Cancelled                         | Abandoned 8-6-03, Acknowledged 9-21-04  | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 140               | 80                       |
| P114512W      | MW24D                  | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | SESW Abandoned & Cancelled                         | Abandoned 6-4-02                        | Original Supply | Monitoring      | 3/10/1999     | 0    |               | 210               | 131.51                   |
| P76332W       | MW25                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | NWNW Point of Use Non Irrigation, Location of Well | POC/ACL Well                            | Original Supply | Monitoring      | 2/19/1988     | 0    | GPM           | 256               | 227.5                    |
| P76333W       | MW26                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 10       | NWSW Abandoned & Cancelled                         | Abandoned 8-7-03, Acknowledged 9-21-04  | Original Supply | Monitoring      | 2/19/1988     | 0    | GPM           | 160               | 90                       |
| P67180W       | MW30026, Aka MW30      | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 22       | NWNW Abandoned & Cancelled                         | Abandoned 8-7-03, Acknowledged 9-21-04  | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 193               | 77                       |
| P67148W       | MW4                    | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 10       | SWSE Abandoned & Cancelled                         | Abandoned 7-10-02, Acknowledged 9-28-04 | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 140               | 82                       |
| P67149W       | MW6, Aka MW6A          | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 15       | NWSE Abandoned & Cancelled                         | Abandoned 6-4-99                        | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 220               | 162                      |
| P91081W       | MW-63, Aka MWI63       | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | NESW Unadjudicated                                 | Abandoned 10-3-96                       | Original Supply | Monitoring      | 3/19/1993     | 0    | GPM           | 180               | 120                      |
| P91082W       | MW-64, Aka MWI64       | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 10       | SWSW Unadjudicated                                 | POC/ACL Well                            | Original Supply | Monitoring      | 3/19/1993     | 0    | GPM           | 260               | 160                      |
| P91083W       | MW-65, Aka MWI65       | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | SWNW Unadjudicated                                 | Abandoned 10-7-96                       | Original Supply | Monitoring      | 3/19/1993     | 0    | GPM           | 180               | 120                      |
| P114514W      | MW6D                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | NWSE Abandoned & Cancelled                         | Abandoned 6-20-02                       | Original Supply | Monitoring      | 3/10/1999     | 0    |               | 270               | 231.7                    |
| P67150W       | MW7, Aka MW7A, MW7B    | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 15       | NESW Abandoned & Cancelled                         | Abandoned 6-4-99                        | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 220               | 145                      |
| P108001W      | MW78                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | SESW Abandoned & Cancelled                         | Abandoned 6-11-02, Acknowledged 9-28-04 | Original Supply | Monitoring      | 11/4/1997     | 0    | GPM           | 150               | 111.45                   |
| P108002W      | MW79                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | SESW Abandoned & Cancelled                         | Abandoned 6-10-02, Acknowledged 9-28-04 | Original Supply | Monitoring      | 11/4/1997     | 0    | GPM           | 150               | 118.83                   |
| P114513W      | MW7D                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | NESW Abandoned & Cancelled                         | Abandoned 5-20-02                       | Original Supply | Monitoring      | 3/10/1999     | 0    |               | 266               | 185.87                   |
| P67151W       | MW8                    | USDI, BLM** Umetco Minerals Corporation                          | 33  | N   | 89      | W       | 15       | SWNE Abandoned & Cancelled                         | Abandoned 6-28-02, Acknowledged 9-28-04 | Original Supply | Monitoring      | 4/23/1984     | 0    | GPM           | 159               | 57.15                    |
| P108003W      | MW80                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 15       | SESW Abandoned & Cancelled                         | Abandoned 5-30-02, Acknowledged 9-28-04 | Original Supply | Monitoring      | 11/4/1997     | 0    | GPM           | 155               | 117.48                   |
| P108004W      | MW81                   | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 10       | SWSW Abandoned & Cancelled                         | Abandoned 8-13-03, Acknowledged 9-21-04 | Original Supply | Monitoring      | 11/4/1997     | 0    | GPM           | 240               | 171                      |
| P144110W      | MW82                   | Umetco Minerals Corporation**<br>USDI, Bureau of Land Management | 33  | N   | 89      | W       | 22       | NWNW Good Standing                                 | POC/ACL Well                            | Original Supply | Monitoring      | 4/26/2002     |      |               | 115               | 86                       |
| P91277W       | MWC 55                 | Umetco Minerals Corporation                                      | 33  | N   | 89      | W       | 10, (15) | SWSW, NESE, (NENE, NENW, NWNW) Abandoned           | Abandoned 10-1-96                       | Original Supply | Miscellaneous   | 3/19/1993     | 7    | GPM           | 171.78            | 112.5                    |

## Appendix B

### Water Rights Within Proposed Land Transfer Boundary

| Appropriation | Permit Facility Name  | Permit Applicant            | Tns |   | Rng |   | Section  | Quarter                        | Status  | Current Status from Umetco Documents              | Supply type     | Permit Uses   | Permit Priority | Permit Amount | Unit | Permit Source | Permit Well Depth | Permit Static Well Depth |
|---------------|-----------------------|-----------------------------|-----|---|-----|---|----------|--------------------------------|---|---|-----------------|---------------|-----------------|---------------|------|---------------|-------------------|--------------------------|
| P91278W       | MWC 56                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NENW, NWNW)       | Abandoned                                     | Abandoned 9-20-96                                 | Original Supply | Miscellaneous | 3/19/1993       | 5             | GPM  |               | 261               | 171                      |
| P91279W       | MWC 57                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NENW, NWNW)       | Abandoned                                     | Abandoned 9-20-96                                 | Original Supply | Miscellaneous | 3/19/1993       | 6             | GPM  |               | 252               | 165                      |
| P91280W       | MWC 58                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW,SESW, (NENE, NENW, NWNW)  | Abandoned & Cancelled                         | Abandoned 5-25-02, Acknowledged 9-28-04           | Original Supply | Miscellaneous | 3/19/1993       | 6             | GPM  |               | 250               | 154                      |
| P91281W       | MWC 59                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW,SESW, (NENE, NENW, NWNW)  | Abandoned                                     | Abandoned 9-23-04                                 | Original Supply | Miscellaneous | 3/19/1993       | 6             | GPM  |               | 250               | 147                      |
| P91282W       | MWC 60                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NENW, NWNW, SESW) | Abandoned & Cancelled                         | Abandoned 6-13-02, Acknowledged 9-28-04           | Original Supply | Miscellaneous | 3/19/1993       | 4             | GPM  |               | 160               | 111                      |
| P91283W       | MWC 61                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NENW, NWNW, SESW) | Abandoned & Cancelled                         | Abandoned 6-7-02, Acknowledged 9-28-04            | Original Supply | Miscellaneous | 3/19/1993       | 3.5           | GPM  |               | 150               | 116                      |
| P91284W       | MWC 62                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NENW, NWNW, SESW) | Abandoned & Cancelled                         | Abandoned 5-8-02, Acknowledged 9-28-04            | Original Supply | Miscellaneous | 3/19/1993       | 4             | GPM  |               | 165               | 107                      |
| P82562W       | MWC-33                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENW, NWNW)             | Abandoned                                     | Dry hole, Abandoned 8-25-93, Acknowledged 4-28-94 | Original Supply | Miscellaneous | 4/27/1990       | 2             | GPM  |               | 210               | 121.81                   |
| P82563W       | MWC-34                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENW, NWNW)             | Abandoned                                     | Dry hole, Abandoned 8-25-93, Acknowledged 4-28-94 | Original Supply | Miscellaneous | 4/27/1990       | 3             | GPM  |               | 200               | 157.06                   |
| P82564W       | MWC-35                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, SESW, (NENW, NWNW)       | Abandoned                                     | Dry hole, Abandoned 8-24-93, Acknowledged 4-28-94 | Original Supply | Miscellaneous | 4/27/1990       | 5             | GPM  |               | 190               | 148.03                   |
| P82565W       | MWC-36                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, SESW, (NENW, NWNW)       | Abandoned                                     | Dry hole, Abandoned 8-25-93, Acknowledged 4-28-94 | Original Supply | Miscellaneous | 4/27/1990       | 12            | GPM  |               | 200               | 143.41                   |
| P83269W       | MWC-42                | Umetco Minerals Corporation | 33  | N | 89  | W | 10       | SESW                           | Abandoned                                     | Abandoned 9-20-96                                 | Original Supply | Miscellaneous | 8/15/1990       | 10            | GPM  |               | 240               | 138                      |
| P84751W       | MWC-45                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NWNE, NENW, NWNW) | Abandoned                                     | Abandoned 9-26-96                                 | Original Supply | Miscellaneous | 3/18/1991       | 15            | GPM  |               | 240               | 195.24                   |
| P84753W       | MWC-47                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NWNE, NENW, NWNW) | Abandoned                                     | Abandoned 10-1-96                                 | Original Supply | Miscellaneous | 3/18/1991       | 15            | GPM  |               | 255               | 188                      |
| P84754W       | MWC-48                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NWNE, NENW, NWNW) | Abandoned                                     | Abandoned 9-24-96                                 | Original Supply | Miscellaneous | 3/18/1991       | 15            | GPM  |               | 245               | 177.92                   |
| P84755W       | MWC-49                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NWNE, NENW, NWNW) | Abandoned                                     | Abandoned 9-24-96                                 | Original Supply | Miscellaneous | 3/18/1991       | 15            | GPM  |               | 240               | 156.35                   |
| P92098W       | MWC-66                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NENE, NWNE, NENW, NWNW) | Unadjudicated                                 | Abandoned 9-25-96                                 | Original Supply | Miscellaneous | 6/18/1993       | 15            | GPM  |               | 190               | 120                      |
| P84648W       | MWI 43                | Umetco Minerals Corporation | 33  | N | 89  | W | 15       | NWNW                           | Abandoned & Cancelled                         | Abandoned 7-11-02, Acknowledged 9-28-04           | Original Supply | Monitoring    | 3/18/1991       | 0             | GPM  |               | 240               | 194.8                    |
| P82566W       | MWI-37                | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, (NWNW)                   | Abandoned, Unadjudicated                      | Abandoned 10-10-96                                | Original Supply | Monitoring    | 4/27/1990       | 0             | GPM  |               | 240               | 222.9                    |
| P82567W       | MWI-38                | Umetco Minerals Corporation | 33  | N | 89  | W | 10       | SWSW                           | Abandoned                                     | Abandoned 10-9-96                                 | Original Supply | Monitoring    | 4/27/1990       | 0             | GPM  |               | 230               | 195.88                   |
| P82568W       | MWI-39                | Umetco Minerals Corporation | 33  | N | 89  | W | 10       | SWSW                           | Abandoned                                     | Abandoned 10-8-97                                 | Original Supply | Monitoring    | 4/27/1990       | 0             | GPM  |               | 253               | 222                      |
| P84650W       | MWI-50                | Umetco Minerals Corporation | 33  | N | 89  | W | 15       | NENE                           | Abandoned                                     | Abandoned 9-25-96                                 | Original Supply | Monitoring    | 3/18/1991       | 0             | GPM  |               | 240               | 171                      |
| P84651W       | MWI-51                | Umetco Minerals Corporation | 33  | N | 89  | W | 15       | NENE                           | Abandoned                                     | Abandoned 9-26-96                                 | Original Supply | Monitoring    | 3/18/1991       | 0             | GPM  |               | 240               | 159                      |
| P84652W       | MWI-52                | Umetco Minerals Corporation | 33  | N | 89  | W | 15       | NENE                           | Abandoned                                     | Abandoned 9-27-96                                 | Original Supply | Monitoring    | 3/18/1991       | 0             | GPM  |               | 245               | 144                      |
| P57999W       | PAY #1                | Union Carbide Corporation   | 33  | N | 89  | W | 15, (22) | All, (NENE, NWNE, NENW, NWNW)  | Point of Use Non Irrigation, Location of Well | Expired 12-31-85                                  | Original Supply | Miscellaneous | 5/4/1981        | 1200          | GPM  |               | 200               | 97                       |
| P162305W      | Process Water Well #6 | Umetco Minerals Corporation | 33  | N | 89  | W | 10, (15) | SWSW, SESW, (NENW)             | Good Standing                                 |   | Original Supply | Industrial    | 8/16/2004       |               |      |               | 1685              | 90                       |

**Appendix B**  
**Water Rights Within Proposed Land Transfer Boundary**

| Appropriation | Permit Facility Name | Permit Applicant                        | Tns |   | Rng |   | Section | Quarter | Status  | Current Status from Umetco Documents    | Supply type     | Permit Uses | Permit Priority | Permit Amount | Unit | Permit Source | Permit Well Depth | Permit Static Well Depth |
|---------------|----------------------|---|-----|---|-----|---|---------|---------|---|---|-----------------|-------------|-----------------|---------------|------|---------------|-------------------|--------------------------|
| P67168W       | PW1                  | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | NESW    | Abandoned & Cancelled                         | Abandoned 5-12-02, Acknowledged 9-28-04 | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 220               | 168                      |
| P67169W       | PW2, Aka PW2A        | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SWSW    | Abandoned & Cancelled                         | Abandoned May-02, Acknowledged 9-28-04  | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 220               | 192                      |
| P67170W       | PW3, Aka PW3A        | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SWSW    | Abandoned & Cancelled                         | Abandoned 5-16-02, Acknowledged 9-28-04 | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 220               | 148                      |
| P67171W       | PW4                  | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NENW    | Point of Use Non Irrigation, Location of Well | POC/ACL Well                            | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 230               | 100                      |
| P67172W       | PW5, Aka PW5A        | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NENW    | Abandoned & Cancelled                         | Abandoned 6-27-02, Acknowledged 9-28-04 |                 | Monitoring  | 4/23/1984       | 0             | GPM  |               | 160               | 120.72                   |
| P67173W       | PW6, Aka PW6A        | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NENW    | Abandoned & Cancelled                         | Abandoned 8-14-03, Acknowledged 9-21-04 | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 136               | 122.39                   |
| P67174W       | PW7                  | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 15      | SWSE    | Abandoned & Cancelled                         | Abandoned 7-8-02, Acknowledged 9-28-04  | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 260               | -7                       |
| P41022W       | RHW-3                | Mullen Mining Company                   | 33  | N | 89  | W | 9       | SESE    | Point of Use Non Irrigation, Location of Well |   | Original Supply | Monitoring  | 11/16/1977      | 0             | GPM  |               | 310               | 257                      |
| P67181W       | RW1                  | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NWNW    | Abandoned & Cancelled                         | Abandoned 6-2-99                        | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 130               | 87.04                    |
| P67182W       | RW2                  | USDI, BLM** Umetco Minerals Corporation | 33  | N | 89  | W | 22      | NWNW    | Abandoned & Cancelled                         | Abandoned 8-11-03, Acknowledged 9-21-04 | Original Supply | Monitoring  | 4/23/1984       | 0             | GPM  |               | 120               | 76                       |
| P215W         | Water Well #3        | Globe Mining Co.                        | 33  | N | 89  | W | 15      | NW      | Unadjudicated                                 |   | Original Supply | Industrial  | 8/24/1959       | 250           | GPM  |               | 1668              | 20                       |
| 21/2/264W     |                      |   | 33  | N | 89  | W | 15      | NWNW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |
| 21/3/264W     |                      |   | 33  | N | 89  | W | 10      | SWSW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |
| 22/6/316W     |                      |   | 33  | N | 89  | W | 15      | NESW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |
| 25/11/207W    |                      |   | 33  | N | 89  | W | 10      | SWSW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |
| 25/7/207W     |                      |   | 33  | N | 89  | W | 10      | SWSW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |
| 25/8/207W     |                      |   | 33  | N | 89  | W | 10      | SWSW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |
| 25/9/207W     |                      |   | 33  | N | 89  | W | 10      | SWSW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |
| 26/4/21W      |                      |   | 33  | N | 89  | W | 15      | SESW    | Unadjudicated                                 |   | Original Supply |             |                 |               |      |               |                   |                          |