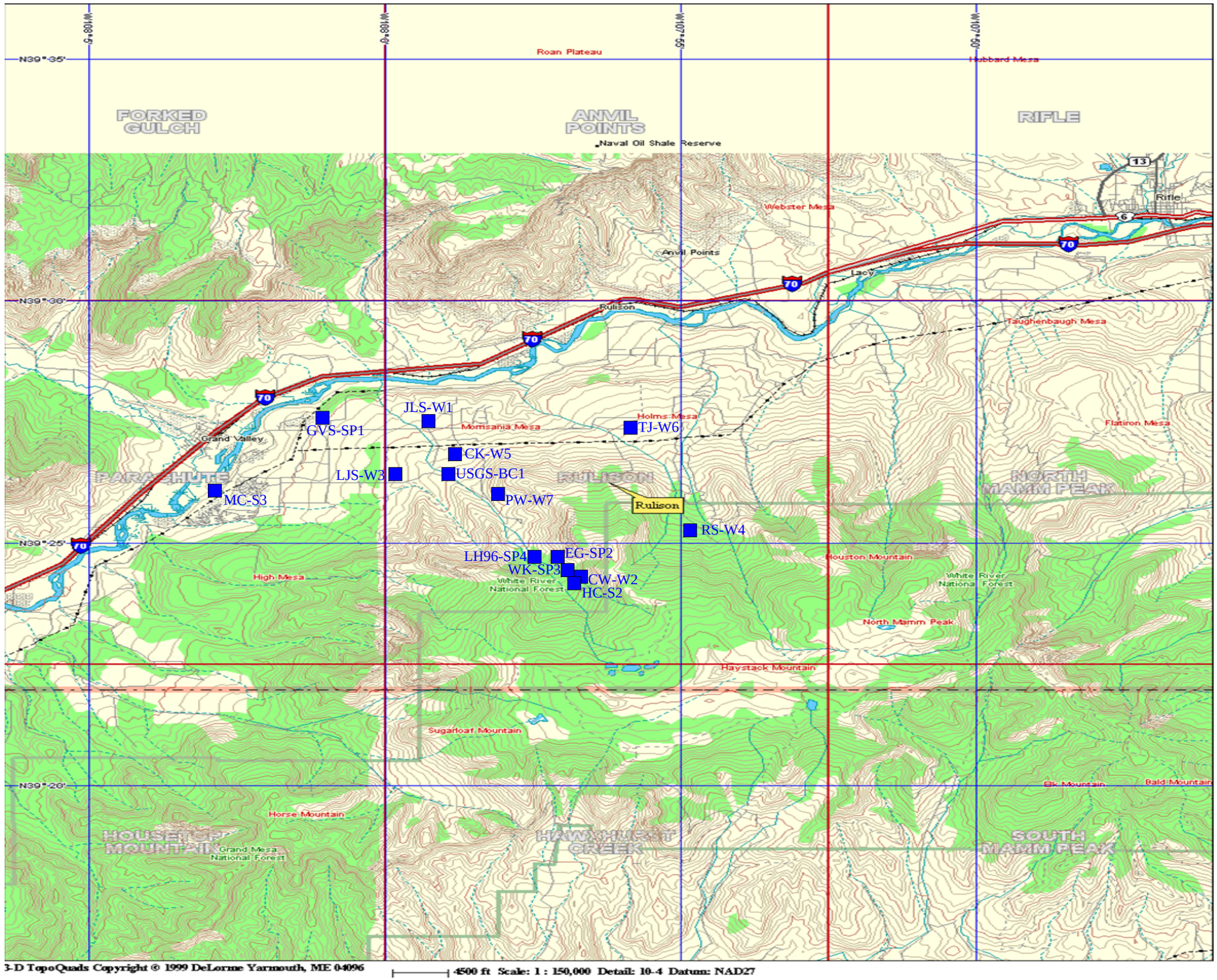


LEGEND:

■ Water Sample Location

JLS-W1: Jaunita Satterfield (Well)
USGS-BC1: Battlement Creek (Surface)
CW-W2: Carey Weldon (Well)
HC-S2: Hayward Creek (Surface)
LJS-W3: Lynn Shore (Well)
GVS-SP1: Grand Valley (Springs)
RS-W4: Roy Savage (Well)
EG-SP2: Ethel Gardner (Spring)
WK-SP3: Wesley Kent (Spring)
LH96-SP4: Hayward 96 Ranch (Spring)
CK-W5: Christy Koeneke (Well)
TJ-W6: Tim and Karla Jacobs (Well)
PW-W7: Pat and Randy Warren (Well)
MC-S3: Monument Creek (Surface)

In addition to the 14 samples listed above, one partial duplicate sample (JHD-SP5) and one complete duplicate (RW-W8) were also collected and submitted for laboratory analysis.

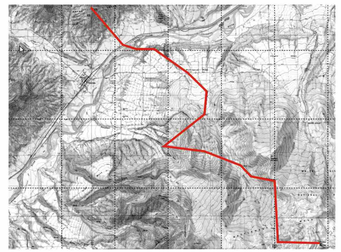
Figure 1
General Site Location Map

PRESCO Inc.
Baseline Water Sampling Locations
November – December 2004
Battlement Mesa, Garfield County, Colorado

Revision Date:	
Revision Number	
Revised by:	
Approved by:	
Project Number:	
Scale:	

CORDILLERAN

Cross Section Showing Relationship Between Natural Gas and Fresh Water in Battlement Mesa Area



Location of Section

Williams Production Federal 14-95

Austral Oil Company Hayward 25-95 Re1 ReX

Grand Valley

Morrisana Mesa

Battlement Mesa

Allen Point | I 70 | Colo River | Lawrence Well | Botkin Well | Hayward Well | Gage Station | Stone Quarry | Jack's Pocket | Spring | Kent Well | Doghead Mtn | Battlement Reservoir | Haystack Mtn

Lands End Formation
Alluvial Fan Gravel Deposits
Bull Lake Glaciation

Quaternary Alluvium

Basalt Flows
Uinta Formation
Parachute Creek Member (Mahogony Oil Shale Bed)
Garden Gulch Member

Impermeable Layers

Green River Formation

Wasatch Formation

Permeable Fresh Water Zones

Mostly Impermeable Layers
(Occasional water-bearing and gas -bearing sandstone lenses

Mostly Impermeable Layers
(Occasional gas-bearing sandstone lenses

Natural Gas Zones

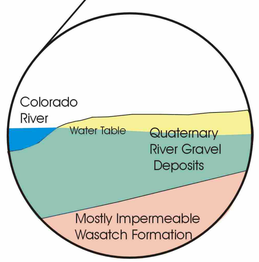
Mesaverde Formation

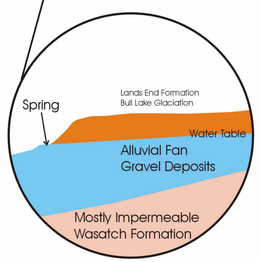
9000 8000 7000 6000 5000 4000 3000 2000 1000 0 -1000 -2000

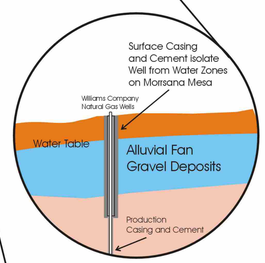
Miles 1 2 3 4 5 6 7 8 9 10 11 12 13 14

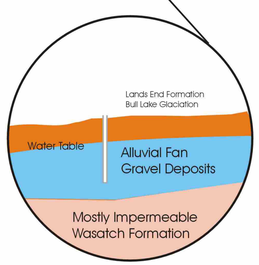
Fresh Water Resources Occur in Shallow Zones: Surface - 400'

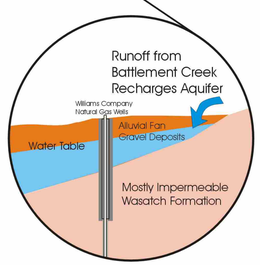
500 feet

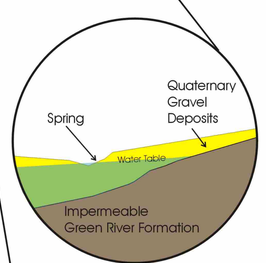


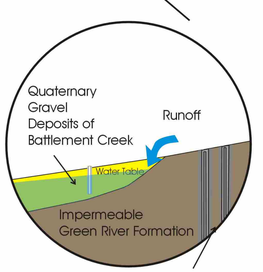




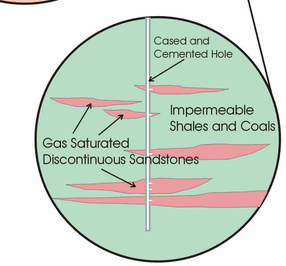




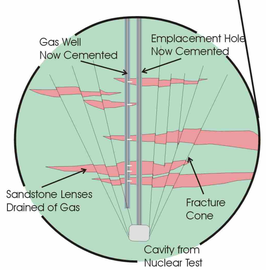




Cemented and depleted holes from Nuclear Test



Natural Gas Resources Occur in Deep Zones: 3000'-9000'



In 1969, a 43 kiloton fission-type nuclear device was detonated at a depth of 8,426 feet for the purpose of fracturing the low-permeability natural gas sandstones.

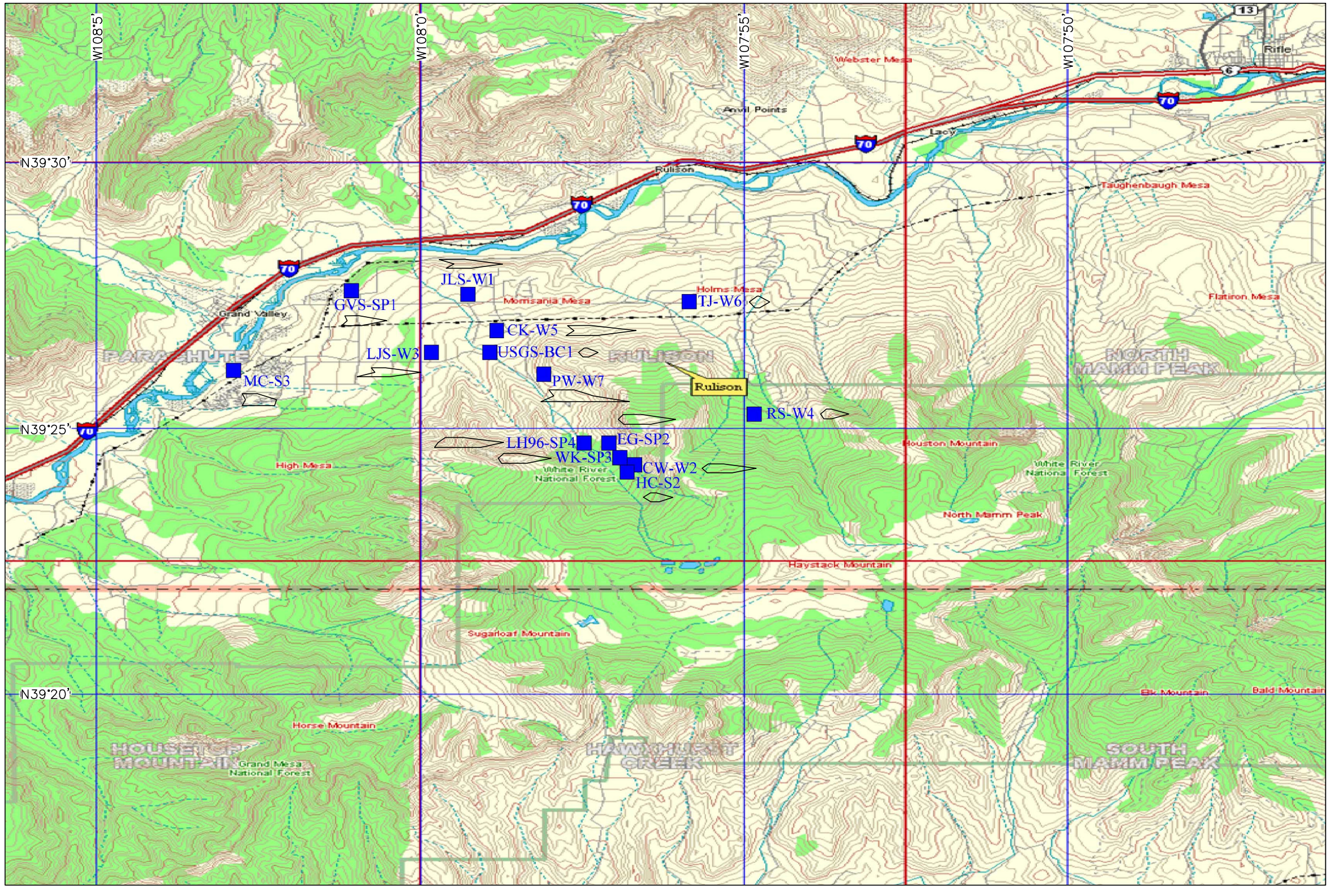
In 1970, a standard gas well was drilled into the fracture chimney within 300 feet of the emplacement well..
The well produced 455 million cubic feet of gas. The produced gas and surface conditions were monitored and it was determined that the detonation did not significantly or permanently affect conditions in the area. The site was restored.
-Colorado Department of Public Health

Cross Section Showing Relationship Between Natural Gas and Fresh Water in Battlement Mesa Area

Presco, Inc.
Prepared by Brian E. Richter
2-15-2005

Sources of Information:
Geologic Map of the Rulison Quadrangle, Garfield County, Colorado, USGS, 1988
Quaternary Geology of the Grand and Battlement Mesas area, Colorado USGS PP 617

Figure 2 -



LEGEND

Water Sample Location

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CW–W2: Carey Weldon (Well)
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GVS–SP1: Grand Valley (Springs)
RS–W4: Roy Savage (Well)
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WK–SP3: Wesley Kent (Spring)
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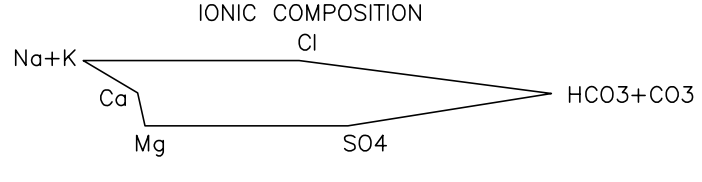
In addition to the 14 samples listed above, one partial duplicate sample (JHD–SP5) and one complete duplicate (RW–W8) were also collected and submitted for laboratory analysis.



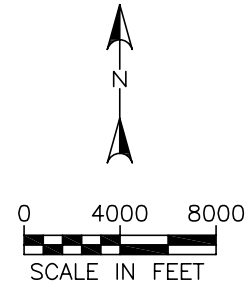


FIGURE 3
Stiff Diagrams of Water Quality
PRESCO Inc.
Baseline Water Sampling Locations
November–December 2004
Battlement Mesa, Garfield County, Co

REVISION DATE:	4/5/06
REVISION NUMBER:	00#
DRAWN BY:	RJV
APPROVED BY:	JH
PROJECT #	E04243
SCALE:	AS SHOWN

CORDILLERAN

M:\CLIENTS\CORDILLERAN\PRESCO\PRESCO–BASE.DWG 04/05/2006 3:58PM

Table 1
PRESCO, INC
2004 Baseline and 2005 Annual Water Quality Report

Water Well Completion Data and Water Source Hydrogeology

Sample Location	Sample ID	Sample Type	TWP	RNG	SEC	QTR/QTR	P.M.	CSEO-WRD Permit Number	Screened Interval (feet)	Reported Yield (gpm)	Static Water Level (feet)	Well Depth (feet)	Comments
Juanita Satterfield Well	JLS-W1	Well	7S	95W	10	NE NW	6	56086F	104-125	15		150	Guy Botkin Well: alluvial fan deposits, alluvial terrace deposits
USGS Gauging Station on Battlement Creek	USGS-BC1	Surface	7S	95W	15	NE SE	6	N/A	N/A	N/A	N/A	N/A	Battlement Creek Surface Water: modern alluvium
Cary Weldon Well	CW-W2	Well	7S	95W	25	NE SW	6	201786	60 - 90	15	43	98	NP 6/25/02 C. Weldon Well: 0-60 ft clays/silt and clays; 60 - 90 ft gravels, 90 - 98 ft Wasatch Fm
Hayward Creek Sample	HC-S2	Surface	7S	95W	25	NE SW	6	N/A	N/A	N/A	N/A	N/A	Hayward Creek Surface Water: modern alluvium
Lynn Shore Well	LJS-W3	Well	7S	95W	16	SW NE	6	175435	160-220	7	160	220	Lynn Shore Well: 0-220 ft volcanic rock, clays (colluvium/alluvium) mudflow and fan-gravel deposits
Grand Valley Springs	GVS-SP1	Springs	7S	94W	5	SW SE	6	N/A	N/A	N/A	N/A	N/A	Grand Valley Springs: alluvial fan deposits
Joan Savage Well	RS-W4	Well	7S	94W	20	NE SW	6	230057	120-150	15	93	150	Joan Savage Well: 0-53 ft clays, cobbles; 53 - 151 ft clays cobbles, volcanics (colluvium/alluvium)
Ethel Gardner Spring	EG-SP2	Spring	7S	95W	25	SE NW	6	N/A	N/A	N/A	N/A	N/A	Ethyl Gardner Spring: colluvium/alluvium mudflow and fan-gravel deposits
Wesley Kent Spring	WK-SP3	Spring	7S	95W	25	NE SW	6	N/A	N/A	N/A	N/A	N/A	Wesley Kent Spring: colluvium/alluvium mudflow and fan-gravel deposits
Lee Hayward Spring	LH96-SP4 JHD-SP5	Spring	7S	95W	25	SW NW	6	N/A	N/A	N/A	N/A	N/A	L. Hayward Spring: colluvium/alluvium mudflow and fan-gravel deposits
Christy Koeneke	CK-W5	Well	7S	95W	10	SE NW	6	924		10	90	115	Lee & Anna (March 1958): 0-16 ft general formation, 16 -91 ft brown clay, 91-115 ft blue sand w/ a lava rock now and then
Tim and Karla Jacobs	TJ-W6	Well	7S	94W	7	NE NW	6	60324	90-142	15	71	142	Tim Jacobs well: 0-142 ft volcanic rocks, clays, gravels (colluvium/alluvium)
Pat and Randy Warren	PW-W7	Well	7S	95W	15	NE SE	6	238033	215 - 240	11	173	250	Pat & Randy Warren Well: 0-160 ft volcanic rocks, dirt; 160-215 ft clays, dirt; 215-240 ft volcanic cobbles, 240 -250 ft Wasatch Fm
Monument Creek	MC-S3	Surface	7S	95W	18	NW SW	6	N/A	N/A	N/A	N/A	N/A	Monument Creek Surface Water: modern alluvium

Notes:
gpm - gallons per minute
N/A - not applicable
TWP - township Sec - Section (typically 1 square mile: 640 acres) P.M. - Principal Meridian
RNG - range Qtr/Qtr - quarter/quarter (160 acres; 40 acres)

CSEO - Colorado State Engineer's Office Division of Water Resources Water Well Permits and drilling log descriptions
Comments contain descriptions from the Geologic Map of the Rulison Quadrangle, Garfield County, Colorado by Warren E. Yeend, John R. Donnell, and Marjorie C. Smith, 1988 (Map MF:2060) 1:24,000

TABLE 2

Laboratory Analytes Reference Table
Presco Inc., Battlement Mesa Development
2004 Baseline/2005 Annual Water Sampling

Analytes	Laboratory Method	Sample Container	Preservatives Storage	Holding Times
BTEX, MTBE	8260/8021B	(2) 40 ml glass vials	HCl, Ice (4ºC)	14 days
Methane	8015 GC/FID	(3) 40 ml glass vials	HCL, Ice (4ºC)	14 days
Major Anions (CO_3, HCO_3, PO_4, SO_4, NO_2/NO_3) (Br, Cl, F, HCO_3, PO_4, SO_4, NO_2/NO_3)	300.0 SO_4 - M375.3 PO_4 – M365.1/M365.3 NOx – M353.2	(1) 250-ml polyethylene	Unpreserved Ice (4ºC)	28/2 (NO_2, NO_3, PO_4) days
Sulfate Reducing, Iron Related and Slime Forming Bacteria	Plate Count EPA 375.4 HACH 8051	(1) 120-ml sterilized specimen cup	Unpreserved Ice (4ºC)	24 Hours Grand Junction Laboratories
Alkalinity	SM 2320B/ SM2340B M 310.1	(1) 250-ml polyethylene bottle	Unpreserved Ice (4ºC)	14 days
Hydrogen Sulfide (H_2S)	SW 846 7.3	500-ml polyethylene bottle	Preserved with zinc acetate Ice (4ºC)	28 days
Total Dissolved Solids	SM2540 C	500-ml polyethylene bottle	Unpreserved Ice (4ºC)	7 days
Ammonia (NH_3)	M 350.1 M 350.3	500-ml polyethylene bottle	Preserved with sulfuric acid (H_2SO_4) Ice (4ºC)	28 days
Total Metals (Major Cations: Ca, Fe, K, Na, Mg, Mn, Se)	M 200.7 ICP	250-ml polyethylene bottle	Preserved with nitric acid (HNO_3) Ice (4ºC)	180/28 (Hg)
Tritium	Convention Distillation SM 7500 – 3HB M 906.0	(2) 40 ml glass vials	Unpreserved Ice (4ºC)	Hazen Research 2004
Gamma Spectrometry	HpGe detector EPA 901.1	3.5L cubitainer	Unpreserved Ice (4ºC)	

ACZ Laboratory – Steamboat Springs, CO 2004
Paragon Analtyics – Fort Collins, CO 2005

TABLE 3

Battlement Mesa Natural Gas
Radionuclides of Interest Action Levels

					Inhalation					Ingestion
Radionuclide	**Class/f1**	**Half Life (Years)**	**Radiation Type**	**Energy (MeV)**	**ALI (MBq)**	**ALI (µCi)**	**ALI (pCi)**	**DAC (MBq/m^3)**	**DAC ($\mu Ci/cm^3$)**	**ALI (MBq)**
Hydrogen										
Tritium (H-3)	Water Vapor	12.35	Beta (b)	0.019	3,000	80,000	80,000,000	0.8	0.00002	3,000
	Elemental			NE	NE	NE	NE	20,000	0.5	
Carbon-14 (C-14)	Compounds*	5,730	Beta (b)	0.16	90	2,000	2,000,000	0.04	0.000001	90
	CO				60,000	2,000,000	2.00E+09	30	0.0007	
	CO_2				8,000	200,000	2.00E+08	3	0.00009	
Krypton-85 (Kr-85)	Sub	10.72	Beta (b)	0.25						
			Gamma (g)	0.0022	NE	NE	NE	5	0.0001	NE

ALI - Annual Limits on Intake
DAC - Derived Air Concentrations
MBq - Mega Becquerel
µCi - microcuries
pCi - picocures
NE - none established
* Labelled Organic Compounds
ALIs and DACs are not available for other tritiated compounds. Under normal conditions, hydrogen gas may rapidly convert to water vapor form.
Sub' denotes situations in which exposure is submersion-limited. Elements in ' vapor' form deposited in lung are assumed to be totally taken up by blood.
Since all three are beta emitters, the EPA drinking water standard is 4 mrem/year.

Table 4
2004 Baseline and 2005 Annual Water Sampling Field Parameters
Presco Inc. - Battlement Mesa, Garfield County, Colorado

Sample Location	Sample ID	Date	Temperature (°C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	pH (pH units)	Total Dissolved Solids (TDS) (g/L)	Saturated Dissolved Oxygen (%)	Turbidity (NTU)	Purge Rate (gpm)	Ludlum Survey Meter 0.1x (CPM)	Comments
Juanita Satterfield Well	JLS-W1	11/9/2004	11.09	0.688	3.20	8.10	0.4	35.5	5.9	10	< 150	Clear, dinking water, no odor, no sheen,
		10/18/2005	11.05	0.711	2.09	7.55	0.5	22.7	7.6		50	Clear, slight effervesence, no odor, no sheen
USGS Gauging Station on	USGS-BC1	11/9/2004	3.20	0.213	3.97	8.70	0.1	36.2	6.2	NA	< 150	Clear to slightly turbid, no odor, no sheen
		10/17/2005	5.91	0.228	1.64	7.69	0.2	15.7	28.6	NA	60	Slightly turbid, opaque, no odor, no sheen, no effervesence
Cary Weldon Well	CW-W2	11/9/2004	7.25	0.660	2.80	7.86	0.4	28.3	0.9	15	< 150	Clear, no odor, no sheen,
		10/17/2005	9.39	0.691	1.50	7.41	0.4	15.8	7.0		60	Clear, no odor, no sheen, no effervesence
Hayward Creek Sample	HC-S2	11/9/2004	3.15	0.309	3.86	8.62	0.2	35.0	7.4	NA	< 150	Clear, no odor, no sheen
		10/17/2005	3.79	0.305	1.76	7.64	0.2	16.0	21.6	NA	50	Slightly turbid, fine sediment, no odor, no sheen, no efferv
Lynn Shore Well	LJS-W3	11/9/2004	11.53	0.653	3.12	8.12	0.4	34.8	29.3	NM	< 150	Clear, no odor, no sheen, no effervesence
		10/17/2005	16.12	0.678	0.87	7.58	0.4	10.6	57.4	NM	50	Clear, no odor, no sheen, no effervesence
Grand Valley Springs	GVS-SP1	11/10/2004	13.30	0.534	3.79	8.00	0.3	43.2	10.6	NM	150	Clear, no sheen, no odor, no effervesence
		10/18/2005	10.86	0.566	1.42	7.25	0.4	15.5	10.7	NM	60	Clear, humic material, no sheen, no odor, no effervesence
Joan Savage Well	RS-W4	11/10/2004	5.46	0.302	2.97	8.83	0.2	28.3	2.3	NM	< 150	Clear, no effervescence, no odor, no sheen
		11/18/2005	6.25	0.283	6	8.93	0.2	62.5	30.8	10	60	Clear, no effervescence, no odor, no sheen
Ethel Gardner Spring	EG-SP2	11/10/2004	6.25	0.713	3.18	7.95	0.5	31.3	2.7	NM	< 150	Clear, no odor, no sheen, no effervesence
		10/17/2005	6.62	0.755	1.56	7.44	0.5	15.4	7.2	NM	150	Clear, no odor, no sheen, no effervesence
Wesley Kent Spring	WK-SP3	11/10/2004	6.77	0.649	3.19	7.79	0.4	32.8	1.2	15	< 150	
(Duplicate 10/17/05)		10/17/2005	10.24	0.704	1.24	7.41	0.5	13.4	7.3		120	Clear, no odor, no sheen, no effervesence
Lee Hayward Spring	LH96-SP4 JHD-	11/10/2004	6.40	0.875	3.45	7.87	0.6	33.5	1.9	NM	< 150	Clear, no odor, no sheen, no effervesence
Judi Hayward Duplicate	JHD-SP5	11/10/2004	6.40	0.875	3.45	7.87	0.6	33.5	1.9	NM	< 150	
	LH96-SP4 JHD-	10/17/2005	9.47	0.91	1.58	7.33	0.6	16.7	6	1.5	120	Clear, no odor, no sheen, no effervesence
Christy Koeneke	CK-W5	12/2/2004	9.27	0.731	3.82	7.82	0.5	46.8	30.3	7.5	NM	Clear, no odor, no sheen
(Duplicate 10/18/05)		10/18/2005	10.99	0.803	2.00	7.53	0.5	21.9	10.9		50	Clear, moderate effervesence, no odor, no sheen
Tim and Karla Jacobs	TJ-W6	12/2/2004	7.78	0.348	5.83	7.83	0.2	65.2	9.6	10	NM	
		10/18/2005	7.72	0.404	2.27	7.64	0.3	22.8	10.5		50	Clear, slight effervesence, no odor, no sheen,
Pat and Randy Warren	PW-W7	12/15/2004	12.05	1.75	0.5	8.00	1.1	5.5	13.7	7.5	NM	
(Duplicate Warrens)	RW-W8	12/15/2004	12.05	1.75	0.5	8.00	1.1	5.5	13.7	7.5	NM	
	PW-W7	10/17/2005	13.52	2.18	0.69	7.35	1.4	8.1	9	NM	120	Clear, reduced smell/salts, no sheen, no effervesence
Monument Creek	MC-S3	12/15/2004	5.3	1.045	9.36	8.76	8.7	90	19.1	NA	NM	
		10/18/2005	11.28	1.033	1.88	7.93	0.7	20.8	19.5		50	Clear, organic materials, no odor, no sheen
Spring Flow - Culvert	BM 36-23 Culv	10/21/2005	4.88	0.192	9.9	8.44	0.1	98	62.4	NA	NM	Slightly turbid, Water from Culvert down from BM 36-23 Pad

Notes:
NM - Not Measured (°C) - degrees Celsius mg/L - milligrams per liter NTU - nephelometric turbidity units CPM - counts per minute
NA - Not Applicable (mS/cm) - milliSiemens per centimeter g/L - grams per liter gpm - gallons per minute

Table 5
Baseline and Ongoing Water Sampling Cummulative Laboratory Analytical Results
Presco, Inc. - Battlement Mesa, Garfield County, Colorado

OWNER NAME	Sample ID	Sample Source	TWP	RNG	SEC	QTR/QTR	P.M.	DATE SAMPLED	TIME SAMPLED	Tritium (pCi/L)	Tritium δ (pCi/L)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/L)	Xylenes (total) (ug/l)	Methyl Tertiary Butyl Ether (ug/L)	Methane (mg/L)	Total Hardness as CaCO3 (mg/L)	Total Alkalinity (mg/L)	Boron (mg/L)	Bicarbonate as CaCO3 (mg/L)	Bromide (mg/L)	Total Calcium (mg/L)	Chloride (mg/L)	Fluoride (mg/L)	Total Iron (mg/L)	Total Magnesium (mg/L)	Total Manganese (mg/L)	Nitrogen Ammonia (mg/L)	Nitrate/Nitrite as N, dissolved (mg/L)	Phosphate (mg/L)	Ortho Phosphorus (mg/L)	Total Phosphorus (mg/L)	Total Potassium (mg/L)	Residue, Filterable (TDS) @180 (MG/L)	Total Selenium (mg/L)	Total Sodium (mg/L)	Sodium Absorption Ratio in Water	Sulfate (mg/L)	Reactive Sulfide (mg/L)	Iron Related Bacteria (CFU/ml)	Sulfate Reducing Bacteria (CFU/ml)	Slime Forming Bacteria (CFU/ml)
Juanita Satterfield	JLS-W1	Well	7S	95W	10	NE NW	6	11/9/2004	10:08	U	44 ± 470	0.3	0.5	0.4	1.3	< 0.2	< 0.002	212	328	NA	328	NA	31.5	NA	NA	0.04	32.5	< 0.005	< 0.05	1.15 (H)	0.06 (B)	0.02 (B,H)	NA	1.5	400	< 0.04	84.1	< 0.03	40	< 0.3 (H)	500	detected	66,500
								10/18/2005	12:20	U	120 ± 190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	<0.505	NA	330	0.12	330	< 0.2	36	4	0.21	< 0.1	39	< 0.01	< 0.1	2.1	NA	NA	< 0.05	1.9	400	< 0.005	54	NA	31	< 2	9,000	absent	66,500
Battlement Creek (USGS Gauging)	USGS-BC1	Surface	7S	95W	15	NE SE	6	11/9/2004	11:39	U	0 ± 460	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	92	94	NA	94	NA	24.7	NA	NA	0.11	7.4	0.005	< 0.05	0.03 (B,H)	0.06 (B)	0.02 (B, H)	NA	1.4	90	< 0.04	9.8	< 0.03	10	< 0.3 (H)	2,300	700,000	66,500
								10/17/2005	12:02	U	-140 ± 220	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	100	< 0.1	100	< 0.2	25	1	0.1	0.28	7.7	0.012	< 0.1	< 0.01	NA	NA	< 0.05	1.7	140	< 0.005	8.9	NA	13	< 2	9,000	700,000	350,000
Cary Weldon	CW-W2	Well	7S	95W	25	NE SW	6	11/9/2004	13:06	U	18 ± 470	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	269	285	NA	285	NA	61.8	NA	NA	0.02	27.9	< 0.005	< 0.05	0.66 (H)	0.06 (B)	0.02 (B,H)	NA	0.7	380	< 0.04	50.0	< 0.03	60	< 0.3 (H)	25	absent	12,500
								10/17/2005	9:29	U	-100 ± 220	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	290	0.11	290	< 0.2	60	2.1	0.3	< 0.1	27	< 0.01	< 0.1	0.25	NA	NA	< 0.05	1.1	390	< 0.005	42	NA	63	< 2	500	absent	66,500
Hayward Creek near Weldon's	HC-S2	Surface	7S	95W	25	NE SW	6	11/9/2004	13:50	U	160 ± 470	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	131	142	NA	142	NA	36.9	NA	NA	0.13	9.5	< 0.005	< 0.05	0.14 (H)	0.12 (B)	0.04 (B,H)	NA	1.2	190	< 0.04	18.4	< 0.03	20	< 0.3 (H)	2,300	700,000	66,500
								10/17/2005	10:39	U	50 ± 230	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	140	< 0.1	140	< 0.2	36	1.2	0.11	0.19	8.7	< 0.01	< 0.1	0.1	NA	NA	0.053	1.4	180	< 0.005	13	NA	14	< 2	9,000	700,000	350,000
Lynn J. Shore	LJS-W3	Well	7S	95W	16	SW NE	6	11/9/2004	15:13	U	66 ± 470	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	279	306	NA	306	NA	30.7	NA	NA	0.06	49.3	< 0.005	< 0.05	0.72 (H)	0.12 (B)	0.04 (B,H)	NA	8.0	360	< 0.04	42.8	< 0.03	30	< 0.3 (H)	2,300	absent	12,500
								10/17/2005	13:47	U	30 ± 230	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	310	< 0.1	310	< 0.2	31	4.8	0.28	0.22	47	< 0.01	< 0.1	0.62	NA	NA	0.052	8.2	360	< 0.005	34	NA	30	< 2	9,000	200	66,500
Grand Valley Springs - Parachute	GVS-SP1	Spring	7S	94W	5	SW SE	6	11/10/2004	8:15	U	220 ± 470	< 0.2	0.3	< 0.2	< 0.4	< 0.2	< 0.002	206	246	NA	246	NA	32.8	NA	NA	< 0.01	30.1	< 0.005	< 0.05	1.15 (H)	0.06 (B)	0.02 (B,H)	NA	2.1	310	< 0.04	44.1	< 0.03	20	< 0.3 (H)	absent	absent	absent
								10/18/2005	8:45	U	-50 ± 190	4.4 (B)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	250	< 0.1	250	< 0.2	38	4.8	0.21	< 0.1	26	< 0.01	< 0.1	0.64	NA	NA	< 0.05	3.1	320	< 0.005	35	NA	27	< 2	9,000	18,000	66,500
								12/20/2005	8:55			< 1	< 2	< 2	< 2	< 4																											
Joan Savage (Roy Savage)	RS-W4	Well	7S	94W	20	NE SW	6	11/10/2004	10:50	U	0 ± 460	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	131	152	NA	152	NA	31.2	NA	NA	0.06	12.9	0.007	0.05 (B)	0.02 (B,H)	0.24	0.08 (H)	NA	4.0	180	< 0.04	14.0	< 0.03	< 10	< 0.3 (H)	9,000	200	66,500
								11/18/2005	8:40	U	-120 ± 190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	150	< 0.1	150	< 0.2	31	0.71	0.15	0.19	12	< 0.01	< 0.1	0.088	NA	NA	0.091	3.7	170	< 0.005	12.0	NA	4.7	< 2	9,000	200	350,000
Ethel Gardner	EG-SP2	Spring	7S	95W	25	SE NW	6	11/10/2004	13:36	U	260 ± 470	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	278	307	NA	307	NA	63.7	NA	NA	0.02 (B)	28.8	< 0.005	< 0.05	0.15 (H)	0.03 (B)	0.01 (B,H)	NA	0.5 (B)	430	< 0.04	56.6	< 0.03	70	< 0.3 (H)	2,300	5,000	66,500
								10/17/2005	10:06	U	80 ± 230	2.7(B)	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	310	0.29	310	< 0.2	67	2.7	0.43	0.15	29	< 0.01	< 0.1	0.13	NA	NA	< 0.05	< 1	440	< 0.005	48	NA	74	< 2	2,300	1,200	350,000
								12/20/2005	10:00			< 1	< 2	< 2	< 2	< 4																											
Wesley Kent	WK-SP3	Spring	7S	95W	25	NE SW	6	11/10/2004	14:35	U	0 ± 470	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	264	287	NA	287	NA	58.1	NA	NA	0.65	29.0	< 0.005	< 0.05	0.25 (H)	< 0.03	< 0.01 (H)	NA	0.6 (B)	390	< 0.04	47.3	< 0.03	60	< 0.3 (H)	9,000	absent	12,500
								10/17/2005	11:17	U	110 ± 230	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	300	0.15	300	< 0.2	63	2.1	0.32	< 0.1	30	< 0.01	< 0.1	0.26	NA	NA	< 0.05	1.1	410	< 0.005	40	NA	56	< 2	9,000	absent	66,500
Wesley Kent (Duplicate)	WK-SP3D	Spring	7S	95W	25	NE SW	6	10/17/2005	11:19	U	160 ± 230	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	300	0.15	300	< 0.2	63	1.9	0.32	< 0.1	30	< 0.01	< 0.1	0.26	NA	NA	< 0.05	1.1	400	< 0.005	40	NA	57	< 2	9,000	absent	66,500
Lee (Judy/Craig) Hayward 96 Spring	LH96-SP4	Spring	7S	95W	25	SW NW	6	11/10/2004	15:45	U	0 ± 470	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	381	355	NA	355	NA	70.9	NA	NA	0.02 (B)	49.5	< 0.005	< 0.05	0.38 (H)	< 0.03	< 0.01 (H)	NA	0.9 (B)	520	< 0.04	57.4	< 0.03	120	< 0.3 (H)	2,300	1,200	66,500
Judy Hayward (Partial Duplicate)	(JHD-SP5)	Spring	7S	95W	25	SW NW	6	11/10/2004	16:01	NA	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	NA																									
	LH96-SP4	Spring						10/17/2005	15:15	U	10 ± 190	< 0.5 (H)	< 0.5 (H)	< 0.5 (H)	< 0.5 (H)	< 0.5 (H)	< 0.505	NA	370	0.13	370	< 0.2	74	3.2	0.34	< 0.1	50	< 0.01	< 0.1	0.49			< 0.05	1.4	550	< 0.005	46	NA	100	< 2	2,300	200	66,500
								12/20/2005	10:25			< 1	< 2	< 2	< 2	< 4	NA																									
Christy Koeneke	CK-W5	Well	7S	95W	10	SE NW	6	12/2/2004	11:50	U	240 ± 460	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	296	396	NA	396	NA	47.6	NA	NA	0.04 (B)	43.0	< 0.005	< 0.05	0.64	0.09 (B)	0.03 (B,H)	NA	2.2	460 (H)	< 0.04	74.9	< 0.03	50	< 0.3	2,300	absent	500
								10/18/2005	10:35	U	100 ± 190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	360	< 0.1	360	< 0.2	47	4.7	0.22	< 0.1	40	< 0.01	< 0.1	0.47	NA	NA	< 0.05	2.9	470	0.011	62	NA	58	< 2	9,000	absent	12,500
Christy Koeneke (Duplicate)	CK-W5D	Well	7S	95W	10	SE NW	6	10/18/2005	10:40	U	10 ± 90	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	360	< 0.1	360	< 0.2	46	4.7	0.28	< 0.1	40	< 0.01	< 0.1	0.46	NA	NA	< 0.05	2.9	460	0.014	62	NA	56	< 2	9,000	absent	12,500
Tim and Karla Jacobs	TJ-W6	Well	7S	94W	7	NE NW	6	12/2/2004	12:40	U	140 ± 460	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	189	194	NA	194	NA	54.4	NA	NA	0.12	13.0	< 0.005	< 0.05	0.27	0.12	0.04 (B,H)	NA	1.2	230 (H)	< 0.04	9.8	< 0.03	10	< 0.3	9,000	absent	66,500
								10/18/2005	9:37	U	0 ± 190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	190	< 0.1	190	< 0.2	54	1.2	0.14	< 0.1	15.0	< 0.01	< 0.1	0.32	NA	NA	< 0.05	1.1	240	< 0.005	9.1	NA	10	< 2	2,300	absent	12,500
Pat and Randy Warren	PW-W7	Well	7S	95W	15	NE SE	6	12/15/2004	7:50	U	580 ± 460	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.002	782	333	NA	333	NA	119	NA	NA	39	118	0.058	< 0.05	0.04 (B)	0.06 (B)	0.02 (B)	NA	4.7	1480	< 0.04	167	< 0.03	770	< 0.3	9,000	200	absent
Randy Warren (duplicate)	RW-W8	Well	7S	95W	15	NE SE	6	12/15/2004	7:55	U	410 ± 450	< 0.2	0.3	< 0.2	0.6	< 0.2	< 0.002	677	338	NA	338	NA	100	NA	NA	18.7	104	0.035	< 0.05	0.07 (B)	0.03 (B)	0.01 (B)	NA	4.6	1300	< 0.04	140	< 0.03	630	< 0.3	9,000	200	12,500
	PW-W7	Well						10/17/2005	14:24	U	-70 ± 220	< 0.5(H)	< 0.5 (H)	< 0.5(H)	< 0.5(H)	< 0.5(H)	< 0.505	NA	320	< 0.1	320	< 0.4	120	39	0.24	0.65	120	0.035	< 0.1	0.11	NA	NA	< 0.05	6.9	1600	0.0052	140	NA	790	< 2	9,000	present - low	66,500
								12/28/2005				< 1	< 2	< 2	< 2	< 4																									
Monument Creek - Consolidated Metropolitan Dist. Battlement Mesa	MC-S3	Surface	7S	95W	18	NW SW	6	12/15/2004	9:00	U	420 ± 450	< 0.2	0.3	< 0.2	< 0.2	< 0.2	< 0.002	390	349	NA	341	NA	68.7	NA	NA	0.58	53	0.015	< 0.05	2.93	< 0.03	< 0.01	NA	3.1	680	< 0.04	98.8	< 0.03	240	< 0.3	2,300	700,000	350,000
								10/18/2005	13:05	U	-20 ± 190	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	330	0.12	330	< 0.2	66	15	0.32	0.14	48	< 0.01	< 0.1	2.3	NA	NA	< 0.05	4.0	640	0.0078	79	NA	180	< 2	9,000	700,000	350,000
Battlement Mesa - Well Pad BM 36-23 Culvert	BM36 Culv	Surface	7 S	95W	36	NE NE	6	10/21/2005	13:35	U	80 ± 230	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.505	NA	81	< 0.1	81	< 0.2	21	2.4	< 0.1	0.42	4.2	< 0.01	< 0.1	0.21	NA	NA	0.15	2.5	140	< 0.005	15	NA	16	< 2	140,000	700,000	350,000
																	MEAN	305.13333	268.84375	0.1528571	268.59375		53.4375	5.618235	0.24813	3.24789	36.921875	0.023857143		0.665684211				0.0865	2.84642857	467.3333	0.0095	51.7188		119.668			
																	MEDIAN	269	303	0.13	303		50.8	2.7	0.26	0.19	30	0.015		0.32				0.072	2.15	395	0.0094	45.05		56			

EPA Drinking Water Standards		20,000			5	1,000	680	10,000	N/A	N/A														0.3*		0.05*									500*	0.05		250*			
COGCC Standards		N/A			5	1,000	680	10,000	N/A	N/A																									< 1.25 x bg						

NA - Not Analyzed
pCi/L - picoCuries per Liter
ug/L - micrograms per Liter
mg/L - milligrams per Liter
CFU/ml - colony forming units per milliliter

MDL - Method Detection Limit
PQL - Practical Quantitation Limit

U - Result is less than the minimum detectable concentration (Not Detected) or MDL
< - Result is less than the laboratory reporting limit or MDL
NA - Not Analyzed
(!) Laboratory irregularities: the Paragon Analtyics laboratory method blank contained concentrations of benzene or the sample was analyzed outside of parameter holding time. Samples were collected in December 2005 for analysis of BTEX by Evergreen Analytical Laboratory.
(H) - Sample analysis exceeded Holding Time
(B) - Analyte was detected in Laboratory Method Blank
(J) Analyte estimated concentration at a value between MDL and PQL

Table 6
RADIONUCLIDES OF INTEREST
Cumulative Water Sampling Laboratory Analytical Results - Radionuclides
Presco, Inc. - Battlement Mesa, Garfield County, Colorado

OWNER NAME	Sample ID	Sample Source	TWP	RNG	SEC	QTR/QTR	P.M.	DATE SAMPLED	TIME SAMPLED	Tritium (pCi/L)	Tritium δ (pCi/L)	Gamma Emitting Radionuclides (pCi/L)	Antimony 124 (pCi/L)	Error (±)	Bismuth 214 (pCi/L)	Error (±)	Cobalt 56 (pCi/L)	Error (±)	Cobalt 60 (pCi/L)	Error (±)	Lead 210 (pCi/L)	Error (±)	Lead 212 (pCi/L)	Error (±)	Lead 214 (pCi/L)	Error (±)	Sodium 22 (pCi/L)	Error (±)
Juanita Satterfield	JLS-W1	Well	7S	95W	10	NE NW	6	11/9/2004	10:08	U	44 ± 470																6.15	2.83
								10/18/2005	12:20	U	120 ± 190		TI (10.4)	2.6	J (56)	20	TI (9.7)	4.7							J (65)	9.6		
Battlement Creek (USGS Gauging)	USGS-BC1	Surface	7S	95W	15	NE SE	6	11/9/2004	11:39	U	0 ± 460										256	142.9						
								10/17/2005	12:02	U	-140 ± 220	U																
Cary Weldon	CW-W2	Well	7S	95W	25	NE SW	6	11/9/2004	13:06	U	18 ± 470	ND																
								10/17/2005	9:29	U	-100 ± 220	U			J (5)	19									J (25)	14		
Hayward Creek near Weldon's	HC-S2	Surface	7S	95W	25	NE SW	6	11/9/2004	13:50	U	160 ± 470	ND																
								10/17/2005	10:39	U	50 ± 230	U																
Lynn J. Shore	LJS-W3	Well	7S	95W	16	SW NE	6	11/9/2004	15:13	U	66 ± 470										376	201	17.7	10.7	18.6	10.2		
								10/17/2005	13:47	U	30 ± 230	U			J (4)	13									J (15.6)	9.4		
Grand Valley Springs - Parachute	GVS-SP1	Springs	7S	94W	5	SW SE	6	11/10/2004	8:15	U	220 ± 470												16.6	8.6				
								10/18/2005	8:45	U	-50 ± 190	U			J (7)	16									J (-2)	13		
Joan Savage (Roy Savage)	RS-W4	Well	7S	94W	20	NE SW	6	11/10/2004	10:50	U	0 ± 460				16.4	9.6					344	198			22	11.4		
								11/18/2005	8:40	U	-120 ± 190	U			J (5)	14									J (2.6)	10		
Ethel Gardner	EG-SP2	Spring	7S	95W	25	SE NW	6	11/10/2004	13:36	U	260 ± 470										360	189						
								10/17/2005	10:06	U	80 ± 230	U			J (26)	15									J (14)	14		
(laboratory duplicate 0510169-2DUP)								10/17/2005	10:06			U			J (-1)	17									J (16)	14		
Wesley Kent	WK-SP3	Spring	7S	95W	25	NE SW	6	11/10/2004	14:35	U	0 ± 470	ND																
								10/17/2005	11:17	U	110 ± 230	U			J (-3)	13									J (5.5)	10		
Wesley Kent (duplicate)	WK-SP3D							10/17/2005	11:19	U	160 ± 230	U			J (8)	15									J (3.8)	7.9		
Lee (Judy/Craig) Hayward 96 Spring	LH96-SP4	Spring	7S	95W	25	SW NW	6	11/10/2004	15:45	U	0 ± 470								7.37	3.18	360	189						
Judy Hayward (partial duplicate)	JHD-SP5	Spring	7S	95W	25	SW NW	6	11/10/2004	16:01	NA	NA																	
	LH96-SP4	Spring						10/17/2005	15:15	U	10 ± 140	U			J (59)	17									J (55)	13		
Christy Koeneke	CK-W5	Well	7S	95W	10	SE NW	6	12/2/2004	11:50	U	240 ± 460				24.4	10.9					405	212						
								10/18/2005	10:35	U	100 ± 190	U			J (25)	14									J (32)	11		
Christy Koeneke (duplicate)	CK-W5D	Well						10/18/2005	10:40	U	10 ± 190	U			J (43)	16									J (40)	13		
Tim and Karla Jacobs	TJ-W6	Well	7S	94W	7	NE NW	6	12/2/2004	12:40	U	140 ± 460	ND																
								10/18/2005	9:37	U	0 ± 190	U			J (25)	19									J (25.9)	9.6		
Pat and Randy Warren	PW-W7	Well	7S	95W	15	NE SE	6	12/15/2004	7:50	U	580 ± 460	ND																
Randy Warren (duplicate)	RW-W8	Well	7S	95W	15	NE SE	6	12/15/2004	7:55	U	410 ± 450	ND																
Pat and Randy Warren	PW-W7	Well								U	-70 ± 220				J (-9)	16									J (20)	17		
Monument Creek - Battlement Mesa	MC-S3	Surface	7S	95W	18	NW SW	6	12/15/2004	9:00	U	420 ± 450	ND																
										U	-20 ± 190	U			J (-5)	13									J (-7)	12		
Battlement Mesa 36-23 Culvert	BM3623 Culv	Surface	7S	95W	36	NE NE	6	10/21/2005	13:35	U	80 ± 230	U			J (3)	16									J (-3)	15		

The EPA has established compound specific levels for gamma emitting radionuclides — EPA Drinking Water Standards — 20,000

EPA - Environmental Protection Agency
NRC - Nuclear Regulatory Commission

NRC Occupational Values for Oral Ingestion (pCi)	600	20,000,000,000		500,000,000	60,000,000	80,000,000	9,000,000,000	400,000,000
NRC Occupational Values for Inhalation (pCi)	900	800,000,000		200,000,000	20,000,000	30,000,000	800,000,000	600,000,000
Radiological Half Life	60 days	19.7 minutes	77.3 days	5.27 Years	22.3 years	10.64 hours	26.8 minutes	2.6 years
Daughter Product	Tellerium 124	Polonium 214	Iron 56	Nickle 60	Bismuth 210	Bismuth 212	Bismuth 214	Neon 22
				stable	Uranium 238s	Thorium 232s	Uranium 238s	stable

MDC - Minimum Detectable Concentration
NA - Not Analyzed
ND or U - Not Detected
J - Estimated below the MDC
TI - Tentatively Identified