



ARTESIA  
(505) 746-4214  
1 (800) 748-1972

CARLSBAD  
(505) 885-6663  
1 (800) 658-2739

P.O. BOX 98  
LOCO HILLS, NEW MEXICO 88255

LOCO HILLS  
(505) 677-2111  
1 (800) 748-1972

LOVINGTON  
(505) 396-3331  
1 (800) 748-2084

**Water samples taken from existing water wells in the surrounding area of the Eugenie water well.**

1. L Street: NE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 19, T22S, R27E  
a. 92' Deep & 50 years old
2. Tidwell: NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec. 27, T22S, R27E  
a. 57' Deep & 3  $\frac{1}{2}$  years old
3. Calvani: N1/4 NE  $\frac{1}{4}$  NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  Sec. 20, T22S, R27E  
a. 200' Deep & 40 years old
4. Whites Zoo: SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  Sec. 8, T22s, R27E  
a. 42' Deep & 2 years old
5. Dr. Emmitt Smith Elementary School: Sec.18, T22S, R27E  
a. 200' Deep and appr. 30 years old



These samples 1-4 were witnessed & pulled at 10:00 am August 22, 2000.

**Witnesses:** Mike Stublefield of Artesia OCD \_\_\_\_\_

Clint Taylor of Taylor Water Well Services \_\_\_\_\_

Lawrence Dade of I & W, Inc. \_\_\_\_\_

Sample 5 was witnessed & pulled at 1:30 pm December 19, 2002

**Witnesses:** Mike Stublefield of Artesia OCD \_\_\_\_\_

George Parchman of I & W, Inc. George Parchman

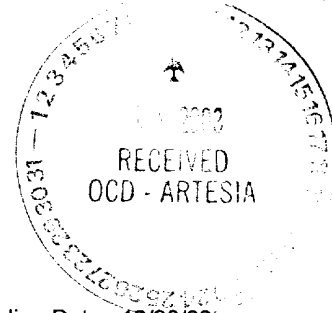
Gene Pruitt of I & W, Inc. Gene Pruitt



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
I&W, INC.  
ATTN: GEORGE PARCHMAN  
P.O. BOX 1685  
CARLSBAD, NM 88220  
FAX TO: (505) 885-8477



Receiving Date: 12/23/02  
Reporting Date: 12/26/02  
Project Number: DEEP #2  
Project Name: EUGENIE DEEP MONITOR WELL #1 & #2  
Project Location: CARLSBAD, NM

Sampling Date: 12/20/02  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (mS/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		12/23/02	12/23/02	12/23/02	12/23/02	12/23/02	12/23/02
H7351-1	MW #1	1953	481	314	4.92	7519	265
H7351-2	MW #2	209	346	157	4.42	3113	80
Quality Control		NR	42	41	4.67	1322	NR
True Value QC		NR	50	50	5.00	1413	NR
% Recovery		NR	84.0	82.0	93.4	93.6	NR
Relative Percent Difference		NR	0.8	1.4	1.0	0.7	NR
METHODS:		SM3500-Ca-D3500-Mg E			8049	120.1	310.1

		Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		12/23/02	12/23/02	12/23/02	12/23/02	12/23/02	12/26/02
H7351-1	MW #1	3599	1357	0	323	6.81	7376
H7351-2	MW #2	148	1615	0	98	7.88	2920
Quality Control		1000	50.20	NR	1068	6.76	NR
True Value QC		1000	50.00	NR	1000	7.00	NR
% Recovery		100.0	100	NR	107	96.6	NR
Relative Percent Difference		3.0	0.7	NR	7.7	0.4	0.4
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

*Amy Hill*  
Chemist

*12-26-02*  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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