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40-8903

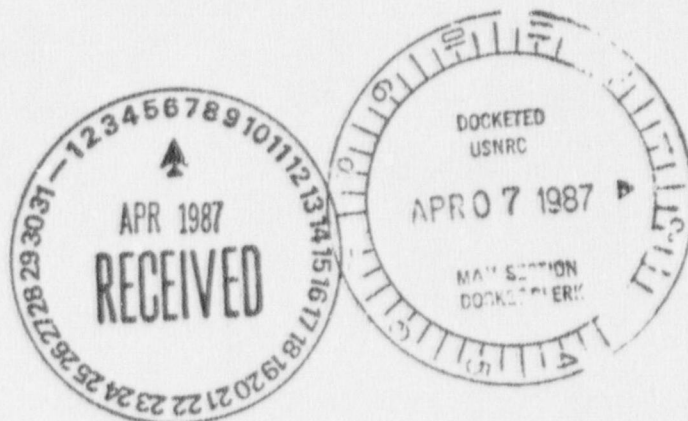
HOMESTAKE MINING COMPANY

P.O. BOX 98
GRANTS, NEW MEXICO
87020

RETURN ORIGINAL TO PDR, HQ.

April 3, 1987

Mr. Tom Olsen
Region IV
Uranium REcovery Field Office
U.S. Nuclear Regulatory Commission
P.O. Box 25325
Denver, Colorado 80225



Re: San Andres Formation Quality

Dear Mr. Olsen:

Pursuant to your request of April 1, 1987, please find a copy of the analytical information available on Homestake Mining Company's two San Andres Formation process wells.

If we can be of any other service, please don't hesitate to contact me.

Very truly yours,

HOMESTAKE MINING COMPANY-GRANTS

Edward E. Kennedy

Edward E. Kennedy
Director of Environmental
Affairs

EEK/bg1

DESIGNATED ORIGINAL

Certified By Mary C. Hood

8707060081 870403
PDR ADOCK 04008903
C PDR

FEE NOT REQUIRED

Add Info
87-506

I.D.	DATE	LAB	CA	MG	K	NA	HC03	CO3	CL	SD4	PH	TDS	AL
EPWELL	04/20/79	HMC	----	----	----	----	569	----	149	649	----	1.500	<1.00
	05/08/80	HMC	----	----	----	----	----	----	206	734	7.00	1.800	<1.00
	05/08/80	HMC	----	----	----	----	----	----	191	801	7.10	1.580	<1.00
	07/02/80	HMC	----	----	----	335	651	----	----	714	7.40	----	----
	10/23/80	IL	244	59.0	24.0	330	614	< .001	358	569	7.00	2.220	<1.00
	05/11/83	HMC	----	----	13.0	315	622	< .001	248	708	7.00	1.920	<1.00
	12/20/83	HMC	----	----	----	190	509	< .001	191	714	7.50	1.780	<1.00
	03/21/84	HMC	305	61.0	16.0	310	633	< .001	213	779	7.20	1.950	<1.00
	07/31/84	HMC	----	----	----	----	----	----	----	730	----	2.130	----
	09/28/84	HMC	301	7.00	15.0	340	511	< .001	206	807	7.10	1.990	<1.00
	12/29/84	HMC	----	----	----	----	----	----	----	734	----	2.670	----
	03/13/85	HMC	284	31.0	10.0	260	540	< .001	156	755	7.10	1.520	<1.00
	06/27/85	HMC	----	----	----	----	----	----	----	709	----	3.080	----
	09/13/85	HMC	271	24.0	14.0	313	566	< .001	184	782	7.00	1.770	<1.00
	12/20/85	HMC	----	----	----	----	----	----	----	730	----	2.920	----
	06/26/86	HMC	----	----	----	----	----	----	----	742	----	1.170	----
	09/17/86	HMC	269	7.00	12.0	325	523	.001	191	713	7.60	1.680	<1.00
	01/08/87	HMC	----	----	----	----	----	----	149	712	----	2.920	----
EPWELL	09/16/77	HMC	----	----	----	----	----	----	142	635	7.10	1.280	<1.00
	09/28/77	HMC	----	----	----	----	----	----	142	644	7.10	1.500	<1.00
	10/14/77	HMC	----	----	----	----	----	----	128	659	6.90	1.500	<1.00
	10/28/77	HMC	----	----	----	----	----	----	135	641	7.50	1.350	<1.00
	11/10/77	HMC	----	----	----	----	----	----	145	609	7.50	1.280	<1.00
	11/23/77	HMC	----	----	----	----	----	----	145	621	7.30	1.580	<1.00
	12/08/77	HMC	----	----	----	----	----	----	135	650	7.20	1.200	<1.00
	12/29/77	HMC	----	----	----	----	----	----	145	608	8.20	1.350	<1.00
	01/11/78	HMC	----	----	----	----	----	----	142	634	7.60	1.280	<1.00
	03/20/78	HMC	135	----	----	----	----	----	163	609	7.50	1.500	<1.00
	05/22/78	HMC	----	----	----	251	823	----	135	614	7.20	1.200	<1.00
	07/24/78	HMC	----	----	----	----	----	----	142	608	7.35	1.350	<1.00
	09/15/78	HMC	----	----	----	----	----	----	149	652	7.80	1.500	<1.00
	11/10/78	HMC	----	----	----	----	----	----	92.0	656	7.40	1.430	<1.00
	01/12/79	HMC	----	----	----	----	----	----	142	641	7.70	1.350	<1.00
	03/05/79	HMC	----	----	----	----	----	----	177	654	8.20	1.430	<1.00
	05/04/79	HMC	----	----	----	----	553	----	135	541	8.10	1.400	<1.00
	07/03/79	HMC	----	----	----	----	----	----	149	602	8.00	975	<1.00
	09/04/79	HMC	----	----	----	----	----	----	149	618	7.70	1.200	<1.00
	11/02/79	HMC	----	----	----	----	----	----	490	642	7.10	----	<1.00
	01/03/80	HMC	----	----	----	----	----	----	199	617	7.50	1.580	<1.00
	03/03/80	HMC	----	----	----	----	----	----	160	807	7.75	1.500	<1.00
	09/04/80	HMC	----	----	----	----	549	----	135	668	7.90	1.050	<1.00
	10/23/80	IL	207	62.0	13.0	259	558	< .001	139	669	7.40	1.930	<1.00
	11/06/80	HMC	----	----	----	265	523	----	156	650	7.80	1.050	<1.00
	01/06/81	HMC	----	----	----	----	----	----	149	659	7.25	----	<1.00
	03/16/81	HMC	----	----	----	250	----	----	149	653	7.70	1.640	<1.00
	05/04/81	HMC	----	----	----	290	602	----	57.0	646	7.60	1.680	<1.00
	07/01/81	HMC	----	----	----	265	561	----	178	656	7.40	1.600	<1.00
	09/16/81	HMC	----	----	----	210	563	----	170	638	8.00	1.510	<1.00
	12/23/81	HMC	----	----	----	160	574	----	163	662	8.00	1.620	<1.00
	03/01/82	HMC	----	----	----	250	553	----	163	713	7.80	1.690	<1.00
	07/29/82	HMC	----	----	----	290	558	----	156	713	8.50	1.620	<1.00
	01/25/83	HMC	240	26.0	15.4	250	549	----	92.0	650	7.90	1.660	<1.00
	04/07/83	HMC	----	----	----	250	531	----	104	664	7.80	1.670	<1.00
	06/16/83	HMC	----	----	----	250	573	< .001	77.0	666	7.00	1.590	<1.00

WELL I.D.	DATE	LAB	CA	MG	N	NA	HC03	CO3	CL	SD4	PH	TDS	AL
DEEPWELL	12/21/83	HMC	----	----	----	250	481	<.001	156	670	7.40	1,540	<1.00
	03/22/84	HMC	250	49.0	14.0	245	549	<.001	156	669	7.80	1,560	<1.00
	07/31/84	HMC	----	----	----	----	----	----	----	629	----	1,620	----
	09/24/84	HMC	298	6.00	14.0	260	437	<.001	170	702	7.30	1,660	<1.00
	12/29/84	HMC	----	----	----	----	----	----	----	779	----	2,430	----
	03/13/85	HMC	318	29.0	10.0	260	551	<.001	156	762	7.10	1,530	<1.00
	06/27/85	HMC	----	----	----	----	----	----	----	702	----	3,310	----
	09/12/85	HMC	276	10.0	14.0	257	548	<.001	156	682	7.00	1,650	<1.00
	12/20/85	HMC	----	----	----	----	----	----	----	675	----	3,030	----
	06/26/86	HMC	----	----	----	----	----	----	----	718	----	1,530	----
	09/17/86	HMC	279	10.0	13.0	275	471	<.001	163	707	7.70	1,180	<1.00
	01/09/87	HMC	----	----	----	----	----	----	----	663	----	3,090	----

WELL I.D.	DATE	LAB	AS	BA	CD	CR	CO	CU	CN	F	FE	PB	MN
DEEPWELL	04/20/79	HMC	<.010	<1.00	<.010	<.010	<.050	.020	<.100	<.100	.030	<.010	.070
	05/08/80	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	1.20	.020	<.010	<.010
	05/08/80	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	.600	.030	<.010	<.010
	07/02/80	HMC	<.010	----	----	----	----	----	----	----	----	----	----
	10/23/80	IL	<.010	.770	.004	<.010	<.010	.071	----	.400	<.010	.020	.024
	05/11/83	HMC	<.010	<1.00	<.010	<.010	<.050	.060	<.100	<.100	1.49	<.010	<.100
	12/20/83	HMC	<.010	<1.00	<.010	<.010	<.050	.010	<.100	<.100	.320	<.010	<.100
	03/21/84	HMC	<.010	<1.00	<.010	<.010	<.050	.010	<.100	<.100	.800	<.010	<.100
	09/28/84	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	<.010	<.010	<.100
	03/13/85	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.020	<.010	<.100
	09/13/85	HMC	<.010	<1.00	<.010	<.010	<.050	.010	<.100	<.100	.320	<.010	<.100
DEEPWELL	09/17/86	HMC	<.010	<.010	<.010	<.010	<.050	<.010	<.100	<.100	.010	<.010	<.100
	01/11/77	HMC	----	<1.00	----	----	----	----	----	----	----	----	----
	09/16/77	HMC	<.010	.040	<.010	<.010	<.050	<.010	<.010	.500	.110	<.010	<.100
	09/28/77	HMC	<.010	.050	<.010	<.010	<.050	<.010	<.010	.700	.100	<.010	<.100
	10/14/77	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	.500	<1.00	<.010	<.100
	10/28/77	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	.800	<1.00	<.010	<.100
	11/10/77	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	.700	1.05	<.010	<.100
	11/23/77	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	.500	<1.00	<.010	----
	12/08/77	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	.700	<1.00	<.010	<.100
	12/29/77	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	.700	<1.00	<.010	<.100
	01/11/78	HMC	<.010	----	<.010	<.010	<.050	<.010	<.010	.600	<1.00	<.010	<.100
	03/20/78	HMC	.020	<1.00	<.010	<.010	<.050	<.010	<.100	.620	.130	<.010	<.010
	05/22/78	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	.220	.300	<.010	<.010
	07/24/78	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.120	<.010	.020
	09/15/78	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.010	<.100	.340	<.010	.030
	11/10/78	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	.260	.020	<.010	<.010
	01/12/79	HMC	<.010	<1.00	<.010	<.010	<.050	----	.640	<.100	.240	<.010	.020
	03/05/79	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.080	<.010	.020
	05/04/79	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.040	<.010	.050
	07/03/79	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.090	<.010	.010
	09/04/79	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	.140	.120	<.010	<.010
	11/02/79	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.080	<.010	<.010
	01/03/80	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.040	<.010	.020
	03/03/80	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.030	<.010	<.010
	09/04/80	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.090	<.010	<.010
	10/23/80	IL	<.010	.650	.003	<.010	<.010	.060	----	.600	<.010	.010	.006

L I.D.	DATE	LAB	AS	BA	CD	CR	CO	CW	CN	F	FE	FR	MN
DEEPWELL	11/06/80	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.020	<.010	<.010
	01/06/81	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	.026	.050	<.010	<.010
	03/16/81	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	<.100	<.010	<.100
	05/04/81	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	<.100	<.010	<.100
	07/01/81	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	<.100	<.010	<.100
	09/16/81	HMC	<.010	<1.00	<.010	<.010	<.050	.016	<.100	<.100	<.100	<.010	<.100
	12/23/81	HMC	<.010	<1.00	<.010	<.010	<.050	.030	<.100	<.100	<.100	<.010	<.100
	03/01/82	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	<.100	<.010	<.100
	07/15/82	HMC	----	----	----	----	----	----	----	----	1.32	----	----
	07/29/82	HMC	<.010	<.100	<.010	<.010	<.050	<.010	<.100	<.100	.100	<.010	<.100
	01/25/83	HMC	<.010	<1.00	<.010	<.010	<.050	.030	<.100	<.100	.020	<.010	<.100
	04/07/83	HMC	<.010	<1.00	<.010	<.010	<.050	.020	<.100	<.100	.110	<.010	<.100
	06/16/83	HMC	<.010	<1.00	<.010	<.010	<.050	.010	<.100	<.100	.130	<.010	<.100
	12/21/83	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.040	<.010	<.100
	03/22/84	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.050	<.010	<.100
	09/24/84	HMC	<.010	1.00	<.010	<.010	<.050	<.010	<.100	<.100	.010	<.010	<.100
	03/13/85	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.020	<.010	<.100
	09/12/85	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.010	<.010	<.100
	09/17/86	HMC	<.010	<1.00	<.010	<.010	<.050	<.010	<.100	<.100	.010	<.010	<.100

L I.D.	DATE	LAB	HG	MO	NI	NO3	SE	AG	AG	U308	RA226
DEEPWELL	04/20/79	HMC	<.002	.220	<.010	.860	.030	<.010	.050	.250	<.001
	05/08/80	HMC	<.002	.020	<.010	1.10	.020	<.010	<.010	<.010	.900
	05/08/80	HMC	<.002	.020	<.010	1.30	.020	<.010	<.010	<.010	1.50
	07/02/80	HMC	----	.020	----	<.100	<.010	----	----	<.010	1.90
	10/23/80	IL	<.0002	<.050	<.010	2.20	<.002	<.005	.040	----	.310
	05/11/83	HMC	<.002	.010	<.010	.700	<.010	<.050	<1.00	<.010	.500
	12/20/83	HMC	<.002	.020	<.010	2.50	.010	<.050	<1.00	.008	2.30
	03/21/84	HMC	<.002	.010	<.010	12.0	.010	<.050	<1.00	.012	2.40
	09/28/84	HMC	<.002	.070	<.010	8.40	.010	<.050	1.00	.016	.200
	03/13/85	HMC	<.002	<.010	<.010	4.60	.010	<.050	<1.00	----	.200
	09/13/85	HMC	<.002	<.010	<.010	6.00	<.010	<.050	<1.00	<.010	1.50
	09/17/86	HMC	<2.00	.010	<.010	2.90	.010	<.050	1.20	<.010	.800
DEEPWELL	01/11/77	HMC	----	----	----	----	----	----	----	----	2.00
	09/16/77	HMC	----	.070	<.100	1.60	.010	<.010	.050	.090	5.60
	09/28/77	HMC	----	.080	<.100	1.90	.030	<.010	.030	.070	.800
	10/14/77	HMC	----	.020	<.100	1.60	<.010	.010	<.100	.030	2.10
	10/28/77	HMC	----	.010	<.100	1.90	<.010	<.010	<.100	.030	.200
	11/10/77	HMC	----	<.100	<.100	1.60	<.010	<.010	<.100	.060	.600
	11/23/77	HMC	----	.050	<.100	1.40	.010	<.010	<.100	.060	1.00
	12/08/77	HMC	<.002	.050	<.100	1.10	.010	<.050	<.100	.090	.600
	12/29/77	HMC	<.002	.040	<.100	1.20	.010	<.050	<.100	.100	1.20
	01/11/78	HMC	<.002	.030	<.100	1.20	.010	<.010	<.100	.080	----
	03/20/78	HMC	<.002	.010	<.010	1.50	<.010	<.010	.030	.030	1.60
	05/22/78	HMC	<.002	<.010	<.100	2.10	<.010	<.010	.120	.220	2.90
	07/24/78	HMC	<.002	.030	<.100	1.20	.040	<.010	.160	.050	1.60
	09/15/78	HMC	<.002	.030	<.010	1.20	.020	<.010	.150	.020	1.60
	11/10/78	HMC	<.002	.030	<.010	1.80	.010	<.010	.140	.060	2.90
	01/12/79	HMC	<.002	.090	<.010	2.10	.010	<.010	.080	<.010	1.50
	03/05/79	HMC	<.002	.110	<.010	1.80	.030	<.010	.050	.070	2.20
	05/04/79	HMC	<.002	.080	<.010	1.40	.030	<.010	.070	.110	1.60

L I.D.	DATE	LAB	HC	MD	NI	NO3	SE	AC	AG	U308	FA224
DEEPWELL	07/03/79	HMC	<.002	.100	<.010	1.35	.080	<.010	.030	.120	1.30
	09/04/79	HMC	<.002	.130	<.010	1.35	.010	<.010	.050	.100	1.80
	11/02/79	HMC	<.002	.060	<.010	1.20	.010	<.010	.030	<.010	.200
	01/03/80	HMC	<.002	.090	<.010	1.20	<.010	<.010	.090	<.010	.700
	03/03/80	HMC	<.002	.050	<.010	1.10	<.010	<.010	.140	<.010	1.10
	09/04/80	HMC	<.002	.020	<.010	1.20	.020	<.010	.030	<.010	.600
	10/23/80	IL	<.0002	<.050	<.010	3.50	<.002	<.005	.030	----	.360
	11/06/80	HMC	<.002	.030	<.010	1.10	.020	<.010	.020	<.010	1.10
	01/06/81	HMC	<.002	.020	<.010	5.60	<.010	<.010	<1.00	<.010	1.00
	03/16/81	HMC	<.002	<.010	<.010	1.00	.020	<.050	<1.00	<.010	1.70
	05/04/81	HMC	<.002	.020	<.010	1.05	<.010	<.050	<1.00	<.010	1.40
	07/01/81	HMC	<.002	.020	<.010	1.10	<.010	<.050	<1.00	<.010	.500
	09/16/81	HMC	<.002	.030	<.010	5.40	<.010	<.050	<1.00	<.010	3.80
	12/23/81	HMC	<.002	.020	.040	1.20	<.010	<.050	<1.00	<.010	1.20
	03/01/82	HMC	<.002	.030	.020	1.10	<.010	<.050	<1.00	<.010	1.30
	07/29/82	HMC	<.002	.040	<.010	1.00	<.010	<.050	<1.00	<.010	4.60
	01/25/83	HMC	<.002	<.010	<.010	1.30	.030	<.050	<1.00	<.010	1.00
	04/07/83	HMC	<.002	.020	<.010	.700	.030	<.050	<1.00	<.010	2.40
	06/16/83	HMC	<.002	<.010	<.010	1.30	.010	<.050	<1.00	<.010	.900
	12/21/83	HMC	<.002	.020	<.010	2.10	.010	<.050	<1.00	<.010	.600
	03/22/84	HMC	<.002	.010	<.010	6.20	.010	<.050	<1.00	<.010	.900
	09/24/84	HMC	<.002	.010	<.010	13.1	.010	<.050	<1.00	<.010	.300
	03/13/85	HMC	<.002	<.010	<.010	4.10	.020	<.050	<1.00	.020	.500
	09/12/85	HMC	<.002	<.010	<.010	7.80	<.010	<.050	<1.00	<.010	1.80
	09/17/86	HMC	<.002	<.010	<.010	5.40	.020	<.050	<1.00	<.010	1.00