

NM1 - 3

MONITORING REPORTS

YEAR(S):

1998 →

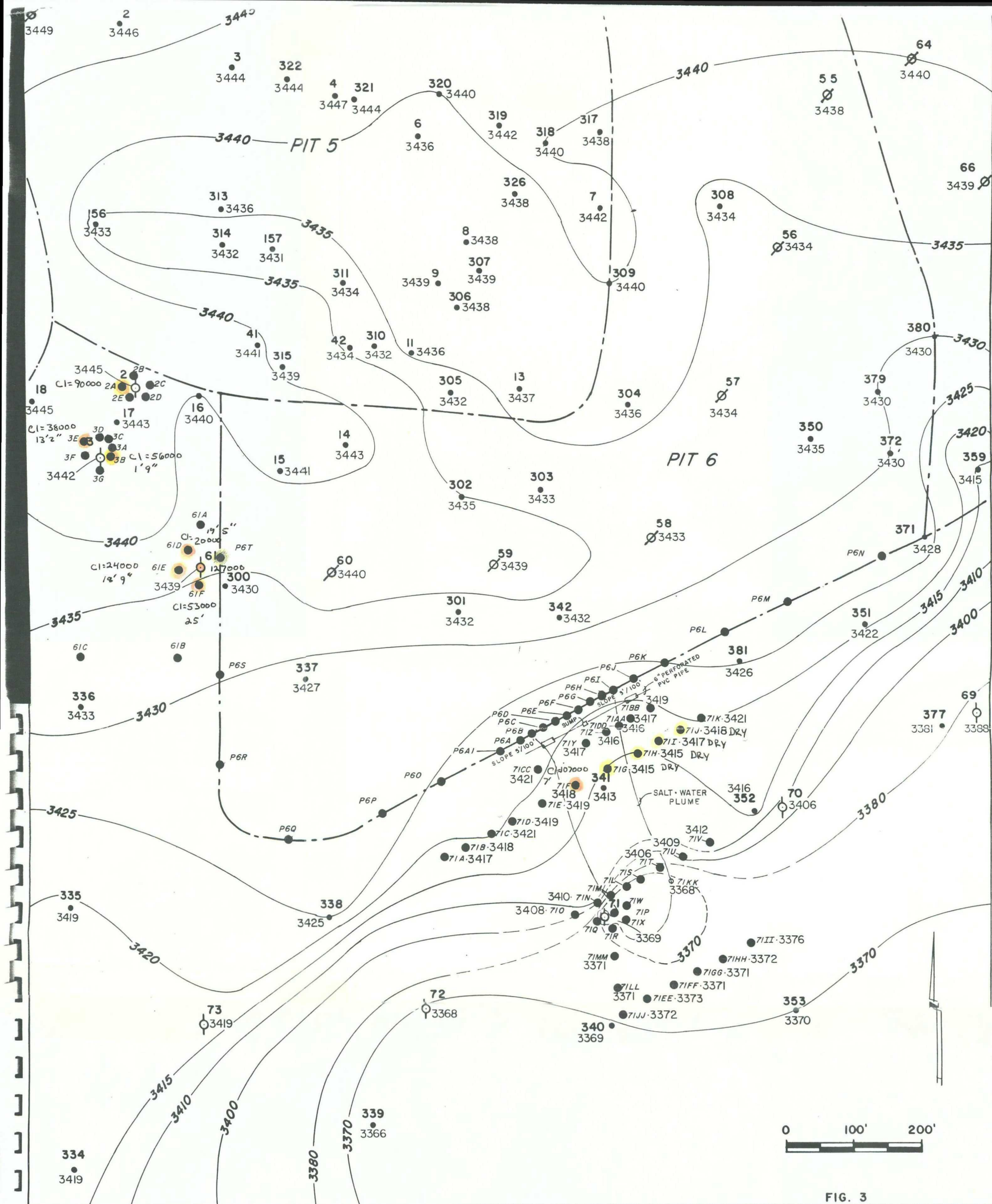


FIG. 3

LEGEND SUNDANCE 4th Q 1997

- Monitor Well
- Test hole
- Bore hole
- Abandoned Monitor Well
- CI 90000 mg/l
- 18' 9" Amount of water in well
- DRY
- Water

LEA COUNTY, NEW MEXICO

PARABO, INC.

INVESTIGATION OF SALT
WATER IN MH-2, 3, 6I & 7I

ELEVATION OF
TRIASSIC SURFACE

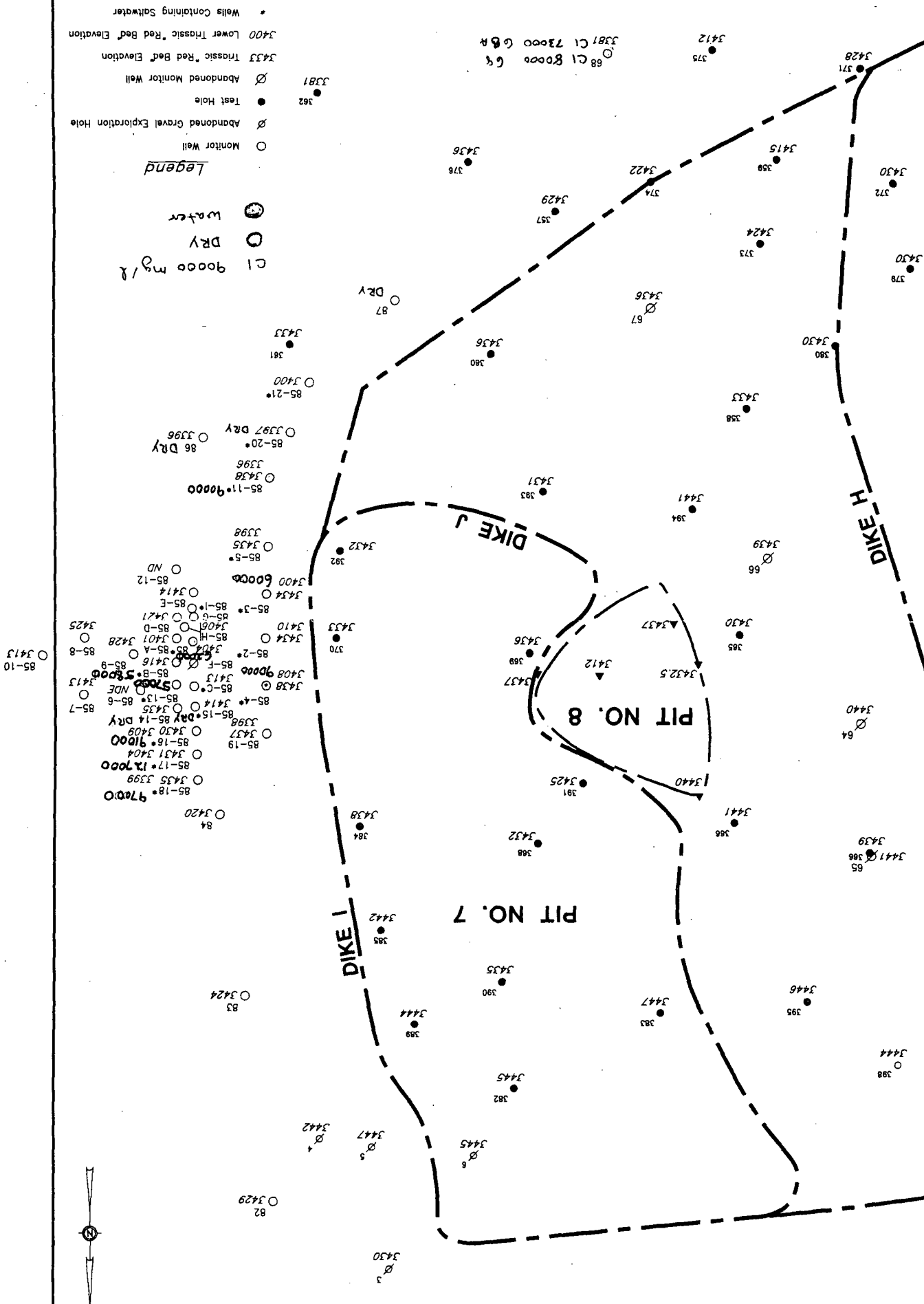
DATE 1-24-89
REVISED

CHECKED

DRAWN BY
Al Hernandez



REED & ASSOCIATES, INC.
HYDROLOGISTS & ENVIRONMENTAL CONSULTANTS
MIDLAND CORPUS CHRISTI AUSTIN



RECEIVED

FEB 04 1998

Environmental Bureau
Oil Conservation Division

SUNDANCE SERVICES INC.

P.O. BOX 1737

EUNICE, NM 88231

4TH QUARTER

MONITOR REPORT

Page of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



Page of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Sundance Services Inc.					
Project Manager: Michael Patterson					
Address: P.O. Box 1737					
City: Eunice State: NM Zip: 88031					
Phone #: 505-394-2511					
Fax #: 505-394-2590					
Project #: 4th Quarter Project Owner:					
Project Name: Parake SWD					
Project Location: Eunice, NM					
FOR LAB USE ONLY					
LAB I.D. Sample I.D.					
(G)RAB OR (C)OMP.					
# CONTAINERS					
GROUNDWATER					
WASTEWATER					
SOIL					
OIL					
SLUDGE					
OTHER :					
ACID:					
ICE / COOL					
OTHER :					
DATE TIME					
Matrix PRES. SAMPLING					
FAX # 505-394-2590					
Date: 12-20-99 Received By: [Signature]					
Time: 5:00					
Relinquished By: [Signature]					
Delivered By: (Circle One)					
Sampler - UPS - Bus - Other:					
Sample Condition Checked BY: [Signature] (Initials)					
Cool Intact Yes No					
REMARKS:					
Phone Result Yes No Additional Fax #:					
Fax Result Yes No					
Terms and Conditions: Invoiced will be charged on all accounts more than 30 days past due at the rate of 2% per annum from the original date of invoice, and at cost of collections, including attorney's fees.					

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CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Sundance Services Inc.		BILL TO		PO #:	
Project Manager: Michael Patterson		Company: SST			
Address: P.O. Box 1737		Attn: Michael Patterson			
City: Eunice State: NM Zip: 88231		Address: P.O. Box 1737			
Phone #: 505-344-2511		City: Eunice			
Fax #: 505-344-2590		State: NM Zip: 88231			
Project #: 4th quarter Project Owner:		Phone #: 505-344-2511			
Project Name: Parake SWO		Fax #: 505-344-2590			
Project Location: Eunice, NM					
OR LAB USE ONLY					

LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:				ICE / COOL
H1003-11	30-25'-0"													
-12	77-53'-2"													
-13	78-30'-0"													
-14	79-7'-6"													
-15	85-18'-49'-2"													
-16	85-17'-48'-7"													
-17	85-36'-3"													
-18	85-11'-49'-5"													
-19	85-18'-30'-0"													
-20	85-14'-41'-5"													

RECEIVED BY: (Lab Staff) Date: 7-20-99 Time: 5:00		RECEIVED BY: (Initials) Date: 7-20-99 Time: 5:00	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition: Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No	

Phone Result ☐ Yes ☐ No Fax Result ☐ Yes ☐ No	Additional Fax #
--	------------------

REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name: Sundance Services Inc.		Bill To PO #:													
Project Manager: Michael Patterson		Company: SST													
Address: P.O. Box 1737		Attn: Michael Patterson													
City: Eunice State: NM Zip: 88231		Address: P.O. Box 1737													
Phone #: 505-394-2590		City: Eunice													
Fax #: 505-394-2590		State: NM Zip: 88231													
Project #: 4th quarter Project Owner:		Phone #: 505-394-2511													
Project Name: Parakee SWD		Fax #: 505-394-2590													
Act Location: Eunice, NM		PRES. SAMPLING													
FOR LAB USE ONLY		ANALYSIS REQUEST													
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.		# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME
		MATRIX													
14403-1	18-21'-8"			X											
-2	23-26'-6"			X											
-3	33-22'-4"			X											
-4	34-24'-7"			X											
-5	35-28'-7"			X											
-6	36-27'-1"			X											
-7	37-24'-3"			X											
-8	38-26'-6"			X											
-9	39-28'-5"			X											
-10	40-25'-6"			X											
REMARKS:															
FAX RESULT: ☐ Yes ☐ No															
PHONE RESULT: ☐ Yes ☐ No															
Additional Fax #:															
RECEIVED BY: (Lab Staff)															
Sample Condition: ☐ Cool ☐ Intact ☐ Yes ☐ No															
CHECKED BY: (Initials)															
DELIVERED BY: (Circle One)															
Sampler - UPS - Bus - Other:															



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

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES, INC.
ATTN: MICHAEL PATTERSON
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: (505) 394-2590

Receiving Date: 01/20/99
Reporting Date: 01/28/99
Project Number: 4TH QUARTER
Project Name: PARABO SWD
Project Location: EUNICE, NM

Analysis Date: 01/27/99
Sampling Date: 01/20/99
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H4003-1	18-21'-8"	811
H4003-2	23-26'-6"	316
H4003-3	33-22'-4"	75
H4003-4	34-28'-7"	148
H4003-5	35-28'-7"	380
H4003-6	36-27'-1"	249
H4003-7	37-24'-3"	154
H4003-8	38-26'-6"	131
H4003-9	39-26'-5"	99
H4003-10	40-25'-6"	455
H4003-11	30-25'	25715
H4003-12	77-53'-2"	376
H4003-13	78-30'	277
H4003-14	79-7'-6"	542
H4003-15	85/18-49'-2"	105829
H4003-16	85/17-48'7"	133522
H4003-17	85-36'-3"	48464
H4003-18	85/11-49'-9"	15825
H4003-19	83/3 30'	74179
H4003-20	85/4-41'5"	96927
H4003-21	68-29'-4"	76157
H4003-22	68-59'-4"	74179
H4003-23	71/F-26'-5"	157260
H4003-24	61/D-30'-8"	20770
H4003-25	61/E-28'-4"	26704
H4003-26	61/F16'-3"	58354
H4003-27	61-16'-5"	109785

H4003-1.XLS

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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H4003-28	3B-34'	53409
H4003-29	3E-31'-6"	38573
H4003-30	45-63'-8"	1226
H4003-31	46-34'-4"	21759
H4003-32	49-71'-3"	1919
Quality Control		1315
True Value QC		1319
% Recovery		100
Relative Percent Difference		4.4

METHOD: EPA 600/4-79-020,	325.3
---------------------------	-------

Amy Hill
Chemist

01/28/99
Date

H4003-1.XLS

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WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
2	DRY		2	DRY	
2A	DRY		2A	DRY	
2B	DRY		2B	DRY	
3	DRY		3	DRY	
3A	DRY		3A	DRY	
3B	33' 0"	63597	3B	34'	53409
3C	DRY		3C	DRY	
3D	DRY		3D	DRY	
3E	30' 8"	40115	3E	31' 6"	38573
4	DRY		4	DRY	
5	DRY		5	DRY	
6	DRY		6	DRY	
7	DRY		7	DRY	
8	DRY		8	DRY	
9	DRY		9	DRY	
10	DRY		10	DRY	
11	DRY		11	DRY	
12	DRY		12	DRY	
13	DRY		13	DRY	
18	21' 7"	1037	18	21' 8"	811
23	27' 4"	470	23	26' 6"	316
24	DRY		24	DRY	
29	DRY		29	DRY	
30	24' 6"	15655	30	25'	25715
31	DRY		31	DRY	
33	25' 5"	86	33	22' 4"	75
34	28'	166	34	28' 7"	148
35	28' 5"	384	35	28' 7"	380
36	25' 9"	282	36	27' 1"	249
37	26' 7"	141	37	24' 3"	154
38	25' 9"	141	38	26' 6"	131
39	27'	403	39	26' 5"	99
40	26' 8"	1115	40	25' 6"	455
41	DRY		41	DRY	
42	DRY		42	DRY	
44	DRY		44	DRY	
45	62' 3"	1575	45	63' 8"	1226
46	34' 7"	27396	46	34' 4"	21759

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
47	DRY		47	DRY	
48	DRY		48	DRY	
49	67'3	2700	49	71'3"	1919
51	DRY		51	DRY	
52	DRY		52	DRY	
61	18'3"	104691	61	16'5"	109785
61B	DRY		61B	DRY	
61C	DRY		61C	DRY	
61D	28'6"	23482	61D	30'8"	20770
61E	26'	26417	61E	28'4"	26704
61F	16'9"	63597	61F	16'3"	58354
63	DRY		63	DRY	
68	30'1"	83166	68	29'4"	76157
68A	60'1"	77295	68A	59'4"	74179
69	DRY		69	DRY	
70	DRY		70	DRY	
71	DRY		71	DRY	
71A	DRY		71A	DRY	
71EE	DRY		71EE	DRY	
71F	30'	156547	71F	26'5"	157260
71FF	DRY		71FF	DRY	
71G	DRY		71G	DRY	
71GG	DRY		71GG	DRY	
71H	DRY		71H	DRY	
71HH	DRY		71HH	DRY	
71I	DRY		71I	DRY	
71II	DRY		71II	DRY	
71J	DRY		71J	DRY	
71KK	DRY		71KK	DRY	
71L	DRY		71L	DRY	
71LL	DRY		71LL	DRY	
71M	DRY		71M	DRY	
71MM	DRY		71MM	DRY	
71N	DRY		71N	DRY	
71NN	DRY		71NN	DRY	
71OO	DRY		71OO	DRY	
71P	DRY		71P	DRY	
71Q	DRY		71Q	DRY	

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
71S	DRY		71S	DRY	
71T	DRY		71T	DRY	
71U	DRY		71U	DRY	
71W	DRY		71W	DRY	
71X	DRY		71X	DRY	
72	DRY		72	DRY	
73	DRY		73	DRY	
74	DRY		74	DRY	
75	DRY		75	DRY	
76	DRY		76	DRY	
77	51'	411	77	53'2"	376
78	29'4"	372	78	30'	277
79	14'4"	387	79	7'6"	542
80	DRY		80	DRY	
81	DRY		81	DRY	
82	DRY		82	DRY	
83	DRY		83	DRY	
84	DRY		84	DRY	
85	33'7"	67511	85	36'3"	48464
85A	DRY		85A	DRY	
85B	38'9"	60662	85B	DRY	
85C	DRY		85C	DRY	
85C1	DRY		85C1	DRY	
85D	DRY		85D	DRY	
85E	DRY		85E	DRY	
85H	DRY		85H	DRY	
85-2	DRY		85-2	DRY	
85-3	29'1"	79252	85-3	30'	74179
85-4	42'2"	97842	85-4	41'5"	96927
85-5	DRY		85-5	DRY	
85-6	DRY		85-6	DRY	
85-7	DRY		85-7	DRY	
85-8	DRY		85-8	DRY	
85-9	DRY		85-9	DRY	
85-10	DRY		85-10	DRY	
85-11	49'5"	25439	85-11	49'9"	15825
85-13	DRY		85-13	DRY	
85-14	DRY		85-14	DRY	

998 4TH QUARTER

[illegible]

SUNDANCE SERVICES INC.

P.O. BOX 1737

EUNICE, NM 88231

3RD QUARTER
MONITOR REPORT



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

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

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES, INC.
ATTN: MICHAEL PATTERSON
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: (505) 394-2590

Receiving Date: 10/14/98
Reporting Date: 10/20/98
Project Number: NOT GIVEN
Project Name: PARABO, SWD
Project Location: EUNICE, NM

Analysis Date: 10/20/98
Sampling Date: 10/14/98
Sample Type: GROUNDWATER
Sample Condition: COOL AND INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3883-1	#18 21'7"	1037
H3883-2	#23 27'4"	470
H3883-3	COLLAPSED	
H3883-4	#33 25'5"	86
H3883-5	#34 28'	166
H3883-6	#35 28'5"	384
H3883-7	#36 25'9"	282
H3883-8	#37 26'7"	141
H3883-9	#38 25'9"	141
H3883-10	#39 27'	403
H3883-11	#40 26'8"	1115
H3883-12	#30 24'6"	15655
H3883-13	#77 51'	411
H3883-14	#78 29'4"	372
H3883-15	#79 14'4"	387
H3883-16	#85-1848'2"	87079
H3883-17	#85-17 47'2"	148720
H3883-18	#85-16 46'6"	91971
H3883-19	#85B 38'9"	60662
H3883-20	#85 33'7"	67511
H3883-21	#85-11 49'5"	25439
H3883-22	#85-3 29'1"	79252
H3883-23	#85-4 42'2"	97842
H3883-24	#68 30'1"	83166
H3883-25	#68A 60'1"	77295
H3883-26	#71F 30'	156547
H3883-27	#61 18'3"	104691

H3883-1.XLS

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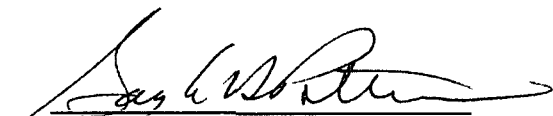
ARDINAL LABORATORIES

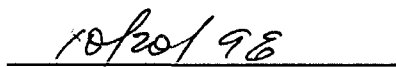
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H3883-28	#61D 28'6"	23482
H3883-29	#61E 26'	26417
H3883-30	#61F 16'9"	63597
H3883-31	#3B 33'	63597
H3883-32	#3E 30'8"	40115
H3883-33	#45 62'3"	1575
H3883-34	#46 34'7"	27396
H3883-35	#49 67'3"	2700
Quality Control		1298
True Value QC		1319
% Accuracy		98
Relative Percent Difference		6.8

METHOD: EPA 600/4-79-020,	325.3
---------------------------	-------


Chemist


Date

H3883-1.XLS

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Sundance Services Inc.		BILL TO		PO #:		ANALYSIS REQUEST																																			
Project Manager: Michael Patterson		Company: SAME																																							
Address: P.O. Box 1737		Attn:																																							
City: Eunice		Address:																																							
Phone #: 505-394-2511		City:																																							
Fax #: 505-394-2590		State:																																							
Project #:		Zip:																																							
Project Name: Pakabo SWD		Phone #:																																							
Project Location: Eunice, NM		Fax #:																																							
FOR LAB USE ONLY		MATRIX		PRES.		SAMPLING																																			
LAB I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID:		ICE / COOL		OTHER :		DATE		TIME													
H3883-1		#18 21'7"						✓																																	
-2		#23 29'4"						✓																																	
-3		#33 25'5"						✓																																	
-4		#34 28'						✓																																	
-5		#35 28'5"						✓																																	
-6		#36 25'9"						✓																																	
-7		#37 26'7"						✓																																	
-8		#38 25'9"						✓																																	
-9		#39 27'						✓																																	
-10		#39 27'						✓																																	
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 the client for the 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 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 heretofore by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																																									
Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.																																									
Sampler Relinquished:																																									
Relinquished By: Michael Patterson															Received By: [Signature]																										
Date: 10-14-98															Date: 10-14-98																										
Time: 3:05pm															Time: 3:10																										
Delivered By: (Circle One)															Sample Condition																										
Sampler - UPS - Bus - Other:															Cool ☒ Intact ☒																										
															Checked By: [Signature]																										
															REMARKS:																										

ORDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603

101 East Marland, Hobbs, NM 88240

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Sundance		BILTO		PO #:		ANALYSIS REQUEST											
Project Manager:		Company:															
Address:		City:		Attn:													
City:		State:		Zip:													
Phone #:		Address:		City:													
Fax #:		State:		Zip:													
Project #:		Project Owner:		Phone #:													
Project Name:		Fax #:															
Project Location:																	
FOR LAB USE ONLY																	
LAB I.D.		Sample I.D.		(G)RAB OR (C)COMP.		# CONTAINERS		MATRIX						PRES.		SAMPLING	
								GROUNDWATER									
								WASTEWATER									
								SOIL									
								OIL									
								SLUDGE									
								OTHER :									
								ACID:									
								ICE / COOL									
								OTHER :									
								DATE									
								TIME									
13883-11		#40 26'8"															
-12		#30 24'16"															
-13		#77 51'															
-14		#78 29'4"															
-15		#79 12'4"															
-16		#85-8 48'2"															
-17		#85-17 47'2"															
-18		#85-16 46'6"															
-19		#85B 38'9"															
-20		#85 33'7"															

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 the client for the 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 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.

Terms and Conditions: interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and at costs of collections, including attorney's fees.

Sampler Relinquished: _____ Date: _____ Received By: _____

Relinquished By: _____ Date: _____ Received By: (Lab Staff) _____

Delivered By: (Circle One) _____ Sample Condition _____ CHECKED BY: _____

Sampler - UPS - Bus - Other: _____ Cool Intact _____ (Initials)

Yes ☐ No ☐ Yes ☐ No ☐ No ☐ No ☐

REMARKS: _____

Phone Result: ☐ Yes ☐ No ☐ Additional Fax #: _____

Fax Result: ☐ Yes ☐ No ☐

+ Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020

ARDINAL LABORATORIES, INC.

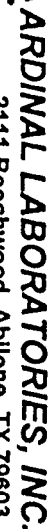
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(817) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

+ Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



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Page ____ of ____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

+ Cardinal cannot accept verbal changes. Please fax written changes to 915-873-7020.

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
2	DRY		2	DRY	
2A	DRY		2A	DRY	
2B	DRY		2B	DRY	
3	DRY		3	DRY	
3A	DRY		3A	DRY	
3B	30'4"	52941	3B	33'0"	63597
3C	DRY		3C	DRY	
3D	DRY		3D	DRY	
3E	29'6"	36223	3E	30'8"	40115
4	DRY		4	DRY	
5	DRY		5	DRY	
6	DRY		6	DRY	
7	DRY		7	DRY	
8	DRY		8	DRY	
9	DRY		9	DRY	
10	DRY		10	DRY	
11	DRY		11	DRY	
12	DRY		12	DRY	
13	DRY		13	DRY	
18	21'5"	1083	18	21'7"	1037
23	25'7"	390	23	27'4"	470
24	DRY		24	DRY	
29	DRY		29	DRY	
30	22'4"	21176	30	24'6"	15655
31	DRY		31	DRY	
33	22'7"	60	33	25'5"	86
34	25'7"	178	34	28'	166
35	26'6"	392	35	28'5"	384
36	25'5"	243	36	25'9"	282
37	23'6"	125	37	26'7"	141
38	24'7"	196	38	25'9"	141
39	25'4"	379	39	27'	403
40	25'1"	936	40	26'8"	1115
41	DRY		41	DRY	
42	DRY		42	DRY	
44	DRY		44	DRY	
45	58'4"	1070	45	62'3"	1575
46	34'3"	17833	46	34'7"	27396

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
47	DRY		47	DRY	
48	68'5	2084	48	DRY	
49	64'7"	2062	49	67'3	2700
51	DRY		51	DRY	
52	DRY		52	DRY	
61	17'0"	112012	61	18'3"	104691
61B	DRY		61B	DRY	
61C	DRY		61C	DRY	
61D	24'5"	23406	61D	28'6"	23482
61E	24'1"	25635	61E	26'	26417
61F	15'9"	58285	61F	16'9"	63597
63	DRY		63	DRY	
68	27'5"	81362	68	30'1"	83166
68A	58'5"	76904	68A	60'1"	77295
69	DRY		69	DRY	
70	DRY		70	DRY	
71	DRY		71	DRY	
71A	DRY		71A	DRY	
71EE	DRY		71EE	DRY	
71F	28'	129288	71F	30'	156547
71FF	DRY		71FF	DRY	
71G	DRY		71G	DRY	
71GG	DRY		71GG	DRY	
71H	DRY		71H	DRY	
71HH	DRY		71HH	DRY	
71I	DRY		71I	DRY	
71II	DRY		71II	DRY	
71J	DRY		71J	DRY	
71KK	DRY		71KK	DRY	
71L	DRY		71L	DRY	
71LL	DRY		71LL	DRY	
71M	DRY		71M	DRY	
71MM	DRY		71MM	DRY	
71N	DRY		71N	DRY	
71NN	DRY		71NN	DRY	
71OO	DRY		71OO	DRY	
71P	DRY		71P	DRY	
71Q	DRY		71Q	DRY	

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
71S	DRY		71S	DRY	
71T	DRY		71T	DRY	
71U	DRY		71U	DRY	
71W	DRY		71W	DRY	
71X	DRY		71X	DRY	
72	DRY		72	DRY	
73	DRY		73	DRY	
74	DRY		74	DRY	
75	DRY		75	DRY	
76	DRY		76	DRY	
77	45'7"	401	77	51'	411
78	24'1"	379	78	29'4"	372
79	9'0"	247	79	14'4"	387
80	WET		80	DRY	
81	DRY		81	DRY	
82	DRY		82	DRY	
83	DRY		83	DRY	
84	DRY		84	DRY	
85	31'3"	61300	85	33'7"	67511
85A	DRY		85A	DRY	
85B	35'6"	44582	85B	38'9"	60662
85C	DRY		85C	DRY	
85C1	DRY		85C1	DRY	
85D	DRY		85D	DRY	
85E	DRY		85E	DRY	
85H	DRY		85H	DRY	
85-2	DRY		85-2	DRY	
85-3	28'0"	68873	85-3	29'1"	79252
85-4	41'2"	108111	85-4	42'2"	97842
85-5	DRY		85-5	DRY	
85-6	DRY		85-6	DRY	
85-7	DRY		85-7	DRY	
85-8	DRY		85-8	DRY	
85-9	DRY		85-9	DRY	
85-10	DRY		85-10	DRY	
85-11	47'2"	110340	85-11	49'5"	25439
85-13	39'2"	55727	85-13	DRY	
85-14	DRY		85-14	DRY	

1998 3RD QUARTER

[illegible]

SUNDANCE SERVICES INC.
P.O. BOX 1737
EUNICE, NM 88231

QUARTERLY MONITOR REPORT

2ND QUARTER

4/4
62-2-98

1998 1ST QUARTER

MONITOR WELLS

1998 2ND QUARTER

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
2	DRY		2	DRY	
2A	38'8"	35000	2A	DRY	
2B	DRY		2B	DRY	
3	DRY		3	DRY	
3A	DRY		3A	DRY	
3B	29'	52000	3B	30'4"	52941
3C	DRY		3C	DRY	
3D	DRY		3D	DRY	
3E	28'7"	31000	3E	29'6"	36223
4	DRY		4	DRY	
5	DRY		5	DRY	
6	DRY		6	DRY	
7	DRY		7	DRY	
8	DRY		8	DRY	
9	DRY		9	DRY	
10	DRY		10	DRY	
11	DRY		11	DRY	
12	DRY		12	DRY	
13	DRY		13	DRY	
18	20'6"	920	18	21'5"	1083
23	24'9"	296	23	25'7"	390
24	18'9"	132	24	DRY	
29	DRY		29	DRY	
30	22'2"	13000	30	22'4"	21176
31	32'7"	700	31	DRY	
33	20'1"	72	33	22'7"	60
34	25'4"	160	34	25'7"	178
35	26'4"	360	35	26'6"	392
36	25'7"	240	36	25'5"	243
37	22'2"	120	37	23'6"	125
38	23'4"	208	38	24'7"	196
39	25'2"	264	39	25'4"	379
40	25'	840	40	25'1"	936
41	DRY		41	DRY	
42	DRY		42	DRY	
44	DRY		44	DRY	
45	56'8"	2000	45	58'4"	1070
46	33'7"	13000	46	34'3"	17833

1998 1ST QUARTER

MONITOR WELLS

1998 2ND QUARTER

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
47	DRY		47	DRY	
48	67'	4000	48	68'5"	2084
49	64'4"	2420	49	64'7"	2062
51	DRY		51	DRY	
52	DRY		52	DRY	
61	16'5"	97000	61	17'0"	112012
61B	DRY		61B	DRY	
61C	DRY		61C	DRY	
61D	24'4"	21000	61D	24'5"	23406
61E	23'6"	21000	61E	24'1"	25635
61F	15'6"	48000	61F	15'9"	58285
63	DRY		63	DRY	
68	27'5"	59000	68	27'5"	81362
68A	57'4"	69000	68A	58'5"	76904
69	DRY		69	DRY	
70	DRY		70	DRY	
71	DRY		71	DRY	
71A	DRY		71A	DRY	
71EE	DRY		71EE	DRY	
71F	28'4"	108000	71F	28'0"	129288
71FF	DRY		71FF	DRY	
71G	DRY		71G	DRY	
71GG	DRY		71GG	DRY	
71H	DRY		71H	DRY	
71HH	DRY		71HH	DRY	
71I	DRY		71I	DRY	
71II	DRY		71II	DRY	
71J	DRY		71J	DRY	
71KK	DRY		71KK	DRY	
71L	DRY		71L	DRY	
71LL	DRY		71LL	DRY	
71M	DRY		71M	DRY	
71MM	DRY		71MM	DRY	
71N	DRY		71N	DRY	
71NN	DRY		71NN	DRY	
71OO	DRY		71OO	DRY	
71P	DRY		71P	DRY	
71Q	DRY		71Q	DRY	

1998 1ST QUARTER

MONITOR WELLS

1998 2ND QUARTER

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
71S	DRY		71S	DRY	
71T	DRY		71T	DRY	
71U	DRY		71U	DRY	
71W	DRY		71W	DRY	
71X	DRY		71X	DRY	
72	DRY		72	DRY	
73	DRY		73	DRY	
74	DRY		74	DRY	
75	DRY		75	DRY	
76	DRY		76	DRY	
77	43'7"	200	77	45'7"	401
78	27'6"	380	78	24'1"	379
79	20'	472	79	9'0"	247
80	27'	500	80	WET	
81	DRY		81	DRY	
82	DRY		82	DRY	
83	DRY		83	DRY	
84	DRY		84	DRY	
85	28'6"	37000	85	31'3"	61300
85A	DRY		85A	DRY	
85B	32'7"	29000	85B	35'6"	44582
85C	DRY		85C	DRY	
85C1	DRY		85C1	DRY	
85D	DRY		85D	DRY	
85E	DRY		85E	DRY	
85H	DRY		85H	DRY	
85-2	DRY		85-2	DRY	
85-3	29'5"	59000	85-3	28'0"	68873
85-4	43'3"	96000	85-4	41'2"	108111
85-5	DRY		85-5	DRY	
85-6	DRY		85-6	DRY	
85-7	DRY		85-7	DRY	
85-8	DRY		85-8	DRY	
85-9	DRY		85-9	DRY	
85-10	DRY		85-10	DRY	
85-11	46'	67000	85-11	47'2"	110340
85-13	37'	53000	85-13	39'2"	55727
85-14	DRY		85-14	DRY	

1998 2ND QUARTER

[illegible]



(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

Company Name: Sundance Services Inc.		P.O. #:		FILE TO		ANALYSIS REQUEST																					
Project Manager: Michael Peterson		P.O. #:																									
Address: P.O. Box 1737		State: NM Zip: 88231		City: Las Alamos																							
Phone #: 505-394-2511 Fax #: 505-394-2590		Address: P.O. Box 1737																									
Project #:		Project Owner:		City: Las Alamos, NM																							
Project Name: PARADO SUDS		State: NM Zip: 88231																									
Project Location: Las Alamos, NM		Phone #: 505-394-2511																									
Sampler Name: Kelly Koch		Fax #: 505-394-2590																									
FOR LAB USE ONLY		PRESERV		SAMPLING																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
132841	30-20'4"																										
-12	17-45'7"																										
-13	18-24'1"																										
-14	19-9'0"																										
-15	20-18'46'3"																										
-16	21-17'48'8"																										
-17	22-10'44'9"																										
-18	23-13'39'2"																										
-19	24-13'35'6"																										
-20	25-31'3"																										
PLEASE NOTE: Liability and Damages. Cardinal Laboratories and its subsidiaries assume no liability for any claims arising out of or from, or in connection with, the use of the services provided by the company for the analysis of samples. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 claims are based upon any of the above stated theories or otherwise.																											
Relinquished By: Michael Peterson		Date: 7/17/99		Time: 4:05		Received By: (Lab Staff) Kelly Koch																					
Sampler Relinquished:		Date:		Time:		Received By:																					
Phone Result: ☐ Yes ☐ No		Add'l Phone #:		Fax Result: ☐ Yes ☐ No		Add'l Fax #:																					
REMARKS:																											



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 3 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SOUNDANCE SERVICES INC.		P.O. #:		BILL TO		ANALYSIS REQUEST																			
Project Manager: Michael Patterson		P.O. #:																							
Address: P.O. Box 1737		Company: SSI																							
City: EuNice		State: NM		Zip: 88231																					
Phone #: 505-394-2511		Fax #: 505-394-2590		Address: P.O. Box 1737																					
Project #: PAEABO SUDS		City: EuNice, NM		State: NM		Zip: 88231																			
Project Location: EuNice, NM		Phone #: 505-394-2511		Fax #: 505-394-2590																					
Sampler Name: Kelly Koch		PRESERV		SAMPLING																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING													
								GROUNDWATER																	
								WASTEWATER																	
								SOIL																	
								CRUDE OIL																	
								SLUDGE																	
								OTHER:																	
								ACID/BASE:																	
								ICE / COOL																	
								OTHER:																	
								DATE																	
								TIME																	
H378-21		85-1		47'2"																					
32		85-3		28'0"																					
33		85-4		41'2"																					
24		68		27'5"																					
25		68A		58'5"																					
26		71E		28'0"																					
27		61		17'0"																					
28		61D		24'5"																					
29		61E		24'1"																					
30		601E		15'9"																					
PLEASE NOTE: Liability and Damages. Contract is hereby accepted for any data which is based on information received from the client for the analysis. All data including those for analysis and any other data whatsoever shall be deemed valid unless noted by the client within 30 days after completion of the analysis. No event shall constitute a basis for liability for negligent or intentional damages, including without limitation, business interruption, 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 furnished by Client, regardless of whether such claim is based upon any of the above stated theories or otherwise.																									
Relinquished By: Michael Koch		Date:		Time:		Received By: Lab Staff		Date:		Time:		Phone Result: ☐ Yes ☐ No		Add'l Phone #:											
Fax Result: ☐ Yes ☐ No		Add'l Fax #:																							
REMARKS:																									

ORDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: SUNDANCE SERVICES INC.				BILL TO				ANALYSIS REQUEST																			
Project Manager: Michael Patterson				P.O. #:																							
Address: P.O. Box 1737				Company: SST																							
City: Ennice				State: NM				Zip: 88231																			
Phone #: 505-394-2511				Fax #: 505-394-2590				Address: P.O. Box 1737																			
Project #: PAEABO SCD15				City: Ennice, NM																							
Project Location: Ennice, NM				State: NM				Zip: 88231																			
Client Name: Kelly Koch				Phone #: 505-394-2511																							
FOR LAB USE ONLY				Fax #: 505-394-2590																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		CRUDE OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME	

PLEASE NOTE: Liability and Damages, Cardholder's liability and default, excludes liability for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardholder within 30 days after completion of the applicable service. In no event shall Cardholder 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 Cardholder, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Internet will be charged on all accounts more than 30 days past due at the rate of 20% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Phone Result: ☐ Yes ☐ No Add'l Phone #: _____

Fax Result: ☐ Yes ☐ No Add'l Fax #: _____

REMARKS: _____

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.


**CARDINAL
LABORATORIES**

PHONE (916) 873-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

**ANALYTICAL RESULTS FOR
SUNDANCE SERVICES, INC.
ATTN: MICHAEL PATTERSON
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590**

**Receiving Date: 07/17/98
Reporting Date: 07/29/98
Project Number: NOT GIVEN
Project Name: PARABO SWD
Project Location: EUNICE, NM**

**Analysis Date: 07/23/98
Sampling Date: 07/17/98
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: BC
Analyzed By: AH**

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3738-1	18-21'6"	1083
H3738-2	23-25'7"	390
H3738-3	33-22'7"	60
H3738-4	34-25'7"	178
H3738-5	35-26'8"	392
H3738-6	36-25'5"	243
H3738-7	37-23'6"	125
H3738-8	38-24'7"	198
H3738-9	39-25'4"	379
H3738-10	40-25'1"	836
H3738-11	30-22'4"	21178
H3738-12	77-45'7"	401
H3738-13	78-24'1"	379
H3738-14	78-0'0"	247
H3738-15	85-18 46'3"	108868
METHOD: EPA 800/4-79-020,		325.3

Gayle A. Potter
Gayle A. Potter, Chemist

07/29/98
Date

H3738A.XLS

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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PHONE (915) 672-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 893-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES, INC.
ATTN: MICHAEL PATTERSON
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590

Receiving Date: 07/17/98
Reporting Date: 07/29/98
Project Number: NOT GIVEN
Project Name: PARABO SWD
Project Location: EUNICE, NM

Analysis Date: 07/23/98
Sampling Date: 07/17/98
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3738-16	85-17 45'8"	150464
H3738-17	85-18 44'9"	91950
H3738-18	85-13 39'2"	55727
H3738-19	85B-35'8"	44582
H3738-20	85-31'3"	61300
H3738-21	85-11 47'2"	110340
H3738-22	85-3 28'0"	68873
H3738-23	85-4 41'2"	108111
H3738-24	68-27'5"	81362
H3738-25	68A-58'5"	76904
H3738-26	71F-28'0"	129288
H3738-27	61-17'0"	112012
H3738-28	61D-24'5"	23408
H3738-29	61E-24'1"	25635
H3738-30	61F-15'8"	56285
METHOD: EPA 600/4-79-020,		325.3

Gayle A. Potter
Gayle A. Potter, Chemist

07/29/98
Date

H3738B.XLS

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**CARDINAL
LABORATORIES**

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ANALYTICAL RESULTS FOR
SUNDANCE SERVICES, INC.
ATTN: MICHAEL PATTERSON
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590

Receiving Date: 07/17/98
Reporting Date: 07/29/98
Project Number: NOT GIVEN
Project Name: PARABO SWD
Project Location: EUNICE, NM

Analysis Date: 07/23/98
Sampling Date: 07/17/98
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3738-31	3B-30'4"	52041
H3738-32	3E-29'6"	36223
H3738-33	45-58'4"	1070
H3738-34	46-34'3"	17833
H3738-35	48-68'5"	2084
H3738-36	49-64'7"	2062
Quality Control		1262
True Value QC		1319
% Recovery		95.7
Relative Percent Difference		3.7
METHOD: EPA 600/4-79-020,		325.3


Gayle A. Potter, Chemist

07/29/98
Date

H3738C.XLS

✓ 18 - 21'-5"

23✓ 25'-7"

24✓ covered up.

33✓ 22'-7"

34✓ 25'-7"

35✓ 26'-6"

36✓ 25'-5"

37✓ 23'-6"

38✓ 24'-7"

39✓ 25'-4"

40✓ 25'-1"

29✓ Dry

30✓ 22'-4"

31✓ Dry

63✓ Dry

52✓ Dry

77✓ 45'-7"

78✓ 24'-1'

79✓ 9'-0"

80✓ wet not enough for sample 85-3 28'-0"

81✓ Dry

82✓ Dry

83✓ Dry

84✓ Dry

85-18✓ 46'-3"

85-17✓ 45'-8"

85-16✓ 44'-9"

85-15✓ Dry

85-14✓ Dry

✓ 85-13 39'-2"

✓ 85C Dry

✓ 85B 35'-6"

✓ 85C-1 Dry

✓ 85A Dry

✓ 85 31'-3"

✓ 85H Dry

✓ 85D Dry

✓ 85E Dry

✓ 85-9 Dry

✓ 85-8 Dry

✓ 85-10 Dry

✓ 85-6 Dry

✓ 85-7 Dry

✓ 86 Dry

✓ 85-21 Dry

✓ 85-20 Dry

✓ 85-11 47'-2"

✓ 85-5 Dry

✓ 85-3 28'-0"

✓ 85-2 Dry

✓ 85-4 41'-2"

✓ 85-19 Dry

✓ 87A Dry

✓ 87 Dry

✓ 68 27'-5"

✓ 68A 58'-5"

✓ 69 Dry

✓ 70 Dry

✓ 71 Dry

✓ 71A Dry

✓ 71B Dry

✓ 71P Dry

✓ 71X Dry

✓ 71W Dry

✓ 71KK Dry

✓ 7100 Dry

✓ 71 NW Dry

✓ 71 IF Dry

✓ 71 HH Dry

✓ 71 GD Dry

✓ 71 FF Dry

✓ 71 EE Dry

✓ 71 LL Dry

✓ 71 MM Dry

✓ 71 N Dry

✓ 71 M Dry

✓ 71 L Dry

✓ 71 S Dry

✓ 71 T Dry

✓ 71 U Dry

✓ 71 F 28'-0"

✓ 71G Dry

✓ 71H Dry

✓ 71I Dry

✓ 71J Dry

✓ 72

✓ 73 Dry

✓ 74 Dry

✓ 75 Dry

✓ 76 - Dry

✓ 61B - Dry

✓ 61C - Dry

✓ 61 17'-0"

✓ 61D 24'-5"

✓ 61E 24'-1"

✓ 61F 15'-9"

2B Dry

2A Dry

2 Dry

3A Dry

3B 30'-4"

3C Dry

3D Dry

3E 29'-6"

3 Dry

4 Dry

5 Dry

6 Dry

7 Dry

8 Dry

9 Dry

10 Dry

11 Dry

12 Dry

12 Dry

✓ 41 Dry

✓ 42 Dry

51 Dry

✓ 44 Dry

✓ 45 58'-4"

✓ 46 34'-3"

47 Dry

48 68'-5"

49 64'-7"

SUNDANCE SERVICES INC.
4TH QUARTER 1997 4TH QUARTER 1998

LOCATION	CHLORIDES	FLUID LEVEL	CHLORIDES	FLUID LEVEL
2A	90000	37'	35000	38'8"
3B	56000	28'1"	52000	29'
3E	38000	26'9"	31000	28'7"
5		DRY		DRY
18	840	20'	920	20'6"
23	368	22'8"	296	24'9"
24	136	14'	132	18'9"
30	23000	22'1"	13000	22'2"
31	900	25'6"	700	32'7"
33	72	15'1"	72	20'1"
34	130	22'3"	160	25'4"
35	320	24'	360	26'4"
36	224	22'9"	240	25'7"
37	124	19'2"	120	22'2"
38	204	21'2"	208	23'4"
39	228	22'10"	264	25'2"
40	340	23'1"	840	25'
45	840	47'	2000	56'8"
46	21000	48'	13000	33'7"
48		DRY	4000	67'
49	2140	63'	2420	64'4"
61	127000	16'2"	97000	16'5"
61D	20000	20'5"	21000	24'4"
61E	24000	21'1"	21000	23'6"
61F	53000	15'	48000	15'6"
68	80000	27'10"	59000	27'5"
68A	73000	60'5"	69000	57'4"
71F	107000	28'	108000	28'4"
71G		DRY		DRY
71H		DRY		DRY
71I		DRY		DRY
71J		DRY		DRY
77	220	45'	200	43'7"
78	340	27'	380	27'6"
79	360	FULL	472	20'
80	340	FULL	500	27'
81		DRY		DRY
85	62000	27'5"	37000	28'6"
85-B	58000	27'10"	29000	32'7"
85-3	60000	25'7"	59000	29'5"
85-4	90000	33'8"	96000	43'3"
85-11	90000	42'2"	67000	46'
85-13	57000	27'	53000	37'
85-14		DRY		DRY
85-15		DRY		DRY
85-16	91000	40'6"	55000	44'
85-17	127000	38'		WET
85-18	97000	39'3"	65000	45'
85-20		DRY		DRY
86		DRY		DRY
87A		DRY		DRY



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RECEIVED

APR 27 1998

Environmental Bureau
Oil Conservation Division

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES, INC.
ATTN: MICHAEL PATTERSON
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590

Receiving Date: 04/08/98
Reporting Date: 04/17/98
Project Number: NOT GIVEN
Project Name: MONITOR WELLS
Project Location: EUNICE, NM PARABO FACILITY

Analysis Date: 04/14/98
Sampling Date: NOT GIVEN
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3566-1	#18 20'6"	920
H3566-2	#23 24'9"	296
H3566-3	#24 18'9"	132
H3566-4	#33 20'1"	72
H3566-5	#34 25'4"	160
H3566-6	#35 26'4"	360
H3566-7	#36 25'7"	240
H3566-8	#37 22'2"	120
H3566-9	#38 23'4"	208
H3566-10	#39 25'2"	264
H3566-11	#40 25'	840
H3566-12	#30 22'2"	13000
H3566-13	#31 32'7"	700
H3566-14	#77 43'7"	200
H3566-15	#78 27'6"	380
METHOD: EPA 600/4-79-020,		325.3


Gayle A. Potter, Chemist

04/17/98
Date

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P.O. BOX 1737
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Project Name: MONITOR WELLS
Project Location: EUNICE, NM PARABO FACILITY

Analysis Date: 04/14/98
Sampling Date: NOT GIVEN
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3566-16	#79 20'	472
H3566-17	#80 27'	500
H3566-18	#85-18 45"	65000
H3566-19	#85-16 44'	55000
H3566-20	#85-13 37'	53000
H3566-21	#85B 32'7"	29000
H3566-22	#85 28'6"	37000
H3566-23	#85-11 46'	67000
H3566-24	#85-3 29'5"	59000
H3566-25	#85-4 43'3"	96000
H3566-26	#68 27'5"	59000
H3566-27	#68A 57'4"	69000
H3566-28	#71F 28'4"	108000
H3566-29	#61 16'5"	97000
H3566-30	#61D 24'4"	21000
METHOD: EPA 600/4-79-020,		325.3


Gayle A. Potter, Chemist

04/17/98
Date

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Analysis Date: 04/14/98
Sampling Date: NOT GIVEN
Sample Type: GROUNDWATER
Sample Condition: INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3566-31	#61E 23'6"	21000
H3566-32	#61F 15'6"	48000
H3566-33	#2A 38'8"	35000
H3566-34	#3B 29'	52000
H3566-35	#3E 28'7"	31000
H3566-36	#45 56'8"	2000
H3566-37	#46 33'7"	13000
H3566-38	#48 67'	4000
H3566-39	#49 64'4"	2420
Quality Control		476
True Value QC		500
% Recovery		95.2
Relative Percent Difference		0.8
METHOD: EPA 600/4-79-020,		325.3


Gayle A. Potter, Chemist

04/17/98
Date

Company Name: Sundance Services Inc		BILL TO	PO #:																			
Project Manager: Michael Patterson		Company: SST																				
Address: P.O. Box 1737		Attn: Michael Patterson																				
City: Eunice State: NM Zip: 88231		Address: P.O. Box 1237																				
Phone #: 505-394-2511		City: Eunice																				
Fax #: 505-394-2590		State: NM Zip: 88231																				
Project #:	Project Owner:	Phone #: 505-394-2511																				
Project Name: Monitor Well's		Fax #: 505-394-2590																				
Project Location: Eunice, NM Parabo Facility																						
LAB USE ONLY																						
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRES.	SAMPLING	DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:											ICE / COOL	OTHER :
H3566-1	#18 20'6"		✓											✓								
-2	#23 24'9"		✓											✓								
-3	#24 18'9"		✓											✓								
-4	#33 20'1"		✓											✓								
-5	#34 25'4"		✓											✓								
-6	#35 26'4"		✓											✓								
-7	#36 25'7"		✓											✓								
-8	#37 22'2"		✓											✓								
-9	#38 23'4"		✓											✓								
-10	#39 25'2"		✓											✓								

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Sampler Relinquished By: [Signature] **Date:** 7-8-98
Relinquished By: [Signature] **Date:** 7-8-98
Delivered By: (Circle One)
☐ UPS - Bus - Other:
☒ Cool Intact
☐ Yes ☐ No
☐ Sample Condition (Initials)
☒ YES ☐ NO Additional Fax #: _____
REMARKS: _____

ANALYSIS REQUEST



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603

101 East Marland, Hobbs, NM 88240

(915) 673-7001 Fax (915) 673-7020

(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name:		Project Manager:		Address:		City:		State:		Zip:		Phone #:		Fax #:		Project #:		Project Owner:		Project Name:		Project Location:		OR LAB USE ONLY	
Billed To		PO #:		Company:		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:		Matrix		PRES.		SAMPLING	
LAB I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID:		ICE / COOL		OTHER :	
H3506-11		#40 25'		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-12		#30 22'2"		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-13		#31 32'7"		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-14		#17 43'7"		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-15		#78 27'6"		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-16		#79 20'		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-17		#80 27'		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-18		#85-B 45'		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-19		#85-10 44'		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
-20		#85-13 37'		1		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
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 the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 in relation to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																									
Sampler Relinquished:		Date:		Time:		Received By:		Date:		Time:		Sample Condition		CHECKED BY:		REMARKS:		ANALYSIS REQUEST							
Relinquished By:		Date:		Time:		Received By: (Lab Staff)		Date:		Time:		Cool		Intact		Phone Result		30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.							
Delivered By: (Circle One)		Cool		Intact		Sample Condition		CHECKED BY:		REMARKS:		ANALYSIS REQUEST													
Sampler - UPS - Bus - Other:		Cool		Intact		Sample Condition		CHECKED BY:		REMARKS:		ANALYSIS REQUEST													

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



CARDINAL LABORATORIES, INC.

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101 East Marland, Hobbs, NM 88240

(505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name:

Project Manager:

Address:

City:

Phone #:

Fax #:

Project #:

Project Name:

Project Location:

FOR LAB USE ONLY

HILL TO PO #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

ANALYSIS REQUEST

LAB I.D. Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID:

ICE / COOL

OTHER :

DATE

TIME

PLEASE NOTE: Liability and Damages. Customer's liability for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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.

Sampler Relinquished:

Date:

Time:

Received By:

Date:

Time:

Received By: (Lab Staff)

Date:

Time:

Relinquished By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes ☐ No ☐

Checked By: (Initials)

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

ABDINAI LABORATORIES, INC.

2141 Beechwood Abilene TX 79603

101 East Marland Hobbs NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page of .

Company Name:		BIL TO		PO #:		ANALYSIS REQUEST																																			
Project Manager:		Company:																																							
Address:		Attn:																																							
City:		Address:																																							
Phone #:		City:																																							
Fax #:		State:		Zip:																																					
Project #:		Project Owner:																																							
Project Name:		Phone #:																																							
Project Location:		Fax #:																																							
OR LAB USE ONLY																																									
LAB I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID:		ICE / COOL		OTHER :		DATE		TIME													
H3560-31		#61E 23'6"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-32		#41E 15'6"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-33		#2A 38'8"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-34		#3B 29'		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-35		#3E 28'7"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-36		#45 50'8"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-37		#46 33'7"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-38		#48 10'7"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-39		#49 10'4"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
-40		#49 10'4"		1		1		1		1		1		1		1		1		1		1		1		1		1		✓											
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 the client for the 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 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. Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collections, including attorney's fees.																																									
Sampler Relinquished:		Date:		Received By:		Phone Result		Fax Result		Additional		Fax #:		REMARKS:																											
Relinquished By:		Time:				Yes		No		No																															
Delivered By: (Circle One)		Date:		Received By: (Lab Staff)		Yes		No		No																															
Time:						Yes		No		No																															
Sample Condition		Cool		Intact		Yes		No		No																															
Checked By: (Initials)						Yes		No		No																															
Sampler - UPS - Bus - Other:						Yes		No		No																															

LOCATION	CHLORIDES	FLUID LEVEL	CHLORIDES	FLUID LEVEL
2A	64500	37'2"	90000	37'
71G		DRY		DRY
3B	62500	28'	56000	28'1"
86		WET		DRY
3E	31500	26'9"	38000	26'9"
5		DRY		DRY
31	600	25'6"	900	25'6"
18	770	20'	840	20'
23	336	22'6"	368	22'8"
24	30	14'	136	14'
45	1500	47'2"	840	47'
30	15500	22'1"	23000	22'1"
87A		DRY		DRY
33	78	15'2"	72	15'1"
34	130	22'6"	130	22'3"
35	282	24'2"	320	24'
36	200	22'9"	224	22'9"
37	82	19'2"	124	19'2"
38	200	21'11"	204	21'2"
39	128	22'1"	228	22'10"
40	320	23'1"	340	23'1"
81		WET		DRY
46	15000	47'10"	21000	48'
48		DRY		DRY
49	2130	63'4"	2140	63'
61	99500	16'	127000	16'2"
61D	25500	20'5"	20000	20'5"
61E	19500	21'1"	24000	21'1"
61F	43500	15'	53000	15'
68	89000	27'6"	80000	27'10"
68A	78500	60'5"	73000	60'5"
71H		DRY		DRY
71F	154000	27'	107000	28'
71J		DRY		DRY
71I		DRY		DRY
77	120	45'	220	45'
79	130	FULL	360	FULL
78	480	27'1"	340	27'
80	150	FULL	340	FULL
85	72500	27'6"	62000	27'5"
85-3	55500	29'	60000	25'7"
85-4	86000	33'10"	90000	33'8"
85-11	100000	42'	90000	42'2"
85-13	55500	27'1"	57000	27'
85-14		WET		DRY
85-15		WET		DRY
85-16	111000	40'2"	91000	40'6"
85-17	149500	38'3"	127000	38'
85-18	62000	39'4"	97000	39'3"
85-20		DRY		DRY
85-B	61000	27'8"	58000	27'10"

1998 1ST QUARTER

MONITOR WELLS

1998 2ND QUARTER

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
71S	DRY		71S	DRY	
71T	DRY		71T	DRY	
71U	DRY		71U	DRY	
71W	DRY		71W	DRY	
71X	DRY		71X	DRY	
72	DRY		72	DRY	
73	DRY		73	DRY	
74	DRY		74	DRY	
75	DRY		75	DRY	
76	DRY		76	DRY	
77	43'7"	200	77	45'7"	401
78	27'6"	380	78	24'1"	379
79	20'	472	79	9'0"	247
80	27'	500	80	WET	
81	DRY		81	DRY	
82	DRY		82	DRY	
83	DRY		83	DRY	
84	DRY		84	DRY	
85	28'6"	37000	85	31'3"	61300
85A	DRY		85A	DRY	
85B	32'7"	29000	85B	35'6"	44582
85C	DRY		85C	DRY	
85C1	DRY		85C1	DRY	
85D	DRY		85D	DRY	
85E	DRY		85E	DRY	
85H	DRY		85H	DRY	
85-2	DRY		85-2	DRY	
85-3	29'5"	59000	85-3	28'0"	68873
85-4	43'3"	96000	85-4	41'2"	108111
85-5	DRY		85-5	DRY	
85-6	DRY		85-6	DRY	
85-7	DRY		85-7	DRY	
85-8	DRY		85-8	DRY	
85-9	DRY		85-9	DRY	
85-10	DRY		85-10	DRY	
85-11	46'	67000	85-11	47'2"	110340
85-13	37'	53000	85-13	39'2"	55727
85-14	DRY		85-14	DRY	

1998 1ST QUARTER

MONITOR WELLS

1998 2ND QUARTER

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
47	DRY		47	DRY	
48	67'	4000	48	68'5"	2084
49	64'4"	2420	49	64'7"	2062
51	DRY		51	DRY	
52	DRY		52	DRY	
61	16'5"	97000	61	17'0"	112012
61B	DRY		61B	DRY	
61C	DRY		61C	DRY	
61D	24'4"	21000	61D	24'5"	23406
61E	23'6"	21000	61E	24'1"	25635
61F	15'6"	48000	61F	15'9"	58285
63	DRY		63	DRY	
68	27'5"	59000	68	27'5"	81362
68A	57'4"	69000	68A	58'5"	76904
69	DRY		69	DRY	
70	DRY		70	DRY	
71	DRY		71	DRY	
71A	DRY		71A	DRY	
71EE	DRY		71EE	DRY	
71F	28'4"	108000	71F	28'0"	129288
71FF	DRY		71FF	DRY	
71G	DRY		71G	DRY	
71GG	DRY		71GG	DRY	
71H	DRY		71H	DRY	
71HH	DRY		71HH	DRY	
71I	DRY		71I	DRY	
71II	DRY		71II	DRY	
71J	DRY		71J	DRY	
71KK	DRY		71KK	DRY	
71L	DRY		71L	DRY	
71LL	DRY		71LL	DRY	
71M	DRY		71M	DRY	
71MM	DRY		71MM	DRY	
71N	DRY		71N	DRY	
71NN	DRY		71NN	DRY	
71OO	DRY		71OO	DRY	
71P	DRY		71P	DRY	
71Q	DRY		71Q	DRY	

1998 1ST QUARTER

MONITOR WELLS

1998 2ND QUARTER

WELL	FLUID LEVEL	CHLORIDES	WELL	FLUID LEVEL	CHLORIDES
2	DRY		2	DRY	
2A	38'8"	35000	2A	DRY	
2B	DRY		2B	DRY	
3	DRY		3	DRY	
3A	DRY		3A	DRY	
3B	29'	52000	3B	30'4"	52941
3C	DRY		3C	DRY	
3D	DRY		3D	DRY	
3E	28'7"	31000	3E	29'6"	36223
4	DRY		4	DRY	
5	DRY		5	DRY	
6	DRY		6	DRY	
7	DRY		7	DRY	
8	DRY		8	DRY	
9	DRY		9	DRY	
10	DRY		10	DRY	
11	DRY		11	DRY	
12	DRY		12	DRY	
13	DRY		13	DRY	
18	20'6"	920	18	21'5"	1083
23	24'9"	296	23	25'7"	390
24	18'9"	132	24	DRY	
29	DRY		29	DRY	
30	22'2"	13000	30	22'4"	21176
31	32'7"	700	31	DRY	
33	20'1"	72	33	22'7"	60
34	25'4"	160	34	25'7"	178
35	26'4"	360	35	26'6"	392
36	25'7"	240	36	25'5"	243
37	22'2"	120	37	23'6"	125
38	23'4"	208	38	24'7"	196
39	25'2"	264	39	25'4"	379
40	25'	840	40	25'1"	936
41	DRY		41	DRY	
42	DRY		42	DRY	
44	DRY		44	DRY	
45	56'8"	2000	45	58'4"	1070
46	33'7"	13000	46	34'3"	17833



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

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

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES
ATTN: DONNA ROACH
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590

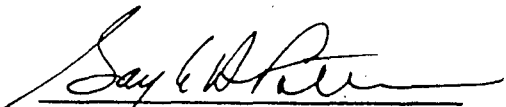
Receiving Date: 01/21/98
Reporting Date: 01/26/98
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 01/26/98
Sampling Date: NOT GIVEN
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3418-1	18-20'	840
H3418-2	23-22'8"	368
H3418-3	24-14'	136
H3418-4	33-15'1"	72
H3418-5	34-22'3"	130
H3418-6	35-24'	320
H3418-7	36-22'9"	224
H3418-8	37-19'2"	124
H3418-9	38-21'2"	204
H3418-10	39-22'10"	228
H3418-11	40-23'1"	340
H3418-12	30-22'1"	23000
H3418-13	31-25'6"	900
H3418-14	77-45'	220
H3418-15	78-27'	340
H3418-16	79-FULL	360
H3418-17	80-FULL	340
H3418-18	85-18-39'3"	97000
H3418-19	85-17-38'	127000
H3418-20	85-16-40'6"	91000
H3418-21	85-13-27'	57000
H3418-22	85B-27'10"	58000

METHOD: EPA 600/4-79-020,

325.3


Gayle A. Potter, Chemist

01/27/98
Date

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

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES
ATTN: DONNA ROACH
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590

Receiving Date: 01/21/98
Reporting Date: 01/26/98
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: NOT GIVEN

Analysis Date: 01/26/98
Sampling Date: NOT GIVEN
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3418-23	85-27'5"	62000
H3418-24	85-11-42'2"	90000
H3418-25	85-3-28'7"	60000
H3418-26	85-4-33'8'	90000
H3418-27	68-27'10"	80000
H3418-28	68A-60'5"	73000
H3418-29	71F-28'	107000
H3418-30	61D-20'5"	20000
H3418-31	61E-21'1"	24000
H3418-32	61F-15'	53000
H3418-33	61-16'2"	127000
H3418-34	2A-37'	90000
H3418-35	3B-28'1"	56000
H3418-36	3E-26'9"	38000
H3418-37	45-47'	840
H3418-38	46-48'	21000
H3418-39	49-63'	2140
Quality Control		472
True Value QC		500
% Recovery		94.4
Relative Percent Difference		4.0
METHOD: EPA 600/4-79-020,		325.3


Gayle A. Potter, Chemist

01/27/98
Date

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CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name: <u>San Juan</u>		BILL TO PO #:							
Project Manager:		Company:							
Address:		Attn:							
City:		Address:							
Phone #:		City:							
Fax #:		State:							
Project #:		Zip:							
Project Name:		Phone #:							
Project Location:		Fax #:							
FOR LAB USE ONLY	LAB I.D.	Sample I.D.	(G) RAB OR (C) OMP.	# CONTAINERS	MATRIX	PRES.	SAMPLING	DATE	TIME
	H3418-1	18-20'	X		GROUNDWATER				
	-2	23-22'8"	X		WASTEWATER				
	-3	24-14'	X		SOIL				
	-4	33-15'1"	X		SLUDGE				
	-5	34-22'3"	X		OTHER:				
	-6	35-24'	X		ACID:				
	-7	36-22'9"	X		ICE / COOL				
	-8	37-19'2"	X		OTHER:				
	-9	38-21'2"	X						
	-10	39-22'10"	X						

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and at costs of collections, including attorney's fees.

Sampler Relinquished: Amey Noll Date: 11/21/98 Time: 10:30

Relinquished By: Amey Noll Date: 11/21/98 Time: 10:30

Delivered By: (Circle One) Amey Noll Checked By: (Initials) Amey Noll

Sampler - UPS - Bus - Other:

Phone Result ☐ Yes ☐ No Additional Fax #: ☐ Yes ☐ No
Fax Result: ☐ Yes ☐ No
REMARKS:

ARDINAL LABORATORIES, INC.

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101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page ___ of ___

Company Name:		Project Manager:		Address:		City:		State:		Zip:	
Project Name:		Project Location:		Project #:		Project Owner:		State:		Zip:	
Project Location:		Project #:		Phone #:		Fax #:		Project Name:		Project Location:	
LAB I.D.		Sample I.D.		PRES.		SAMPLING		DATE		TIME	
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRES.		SAMPLING	
						GROUNDWATER					
						WASTEWATER					
						SOIL					
						SLUDGE					
						OTHER:					
						ACID:					
						ICE / COOL					
						OTHER:					
H3418-11		40-23'1"		X		X					
-12		30-22'1"		X		X					
-13		31-25'6"		X		X					
-14		77-45'		X		X					
-15		78-27'		X		X					
-16		79-full		X		X					
-17		80-full		X		X					
-18		85-18-31'3"		X		X					
-19		85-17-38'6"		X		X					
-20		85-16-40'6"		X		X					
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 the client for the 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 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.											
Sampler Relinquished:				Received By:				Date:			
Relinquished By:				Received By: (Lab Staff)				Time:			
Delivered By: (Circle One)				Checked By: (Initials)				Sample Condition			
Sampler - UPS - Bus - Other:								Cool ☐ Intact ☐			
								Yes ☐ No ☐			
								Yes ☐ No ☐			

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

ARDINAL LABORATORIES, INC.

Page ____ of ____

[illegible]

FOR LAB USE ONLY	LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRES.	SAMPLING
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID: ICE / COOL OTHER :	DATE TIME
H3418-21		85-13-27A		X			
-22		85B-27'10"		X			
-23		85-27'5"		X			
-24		85-11-42'2"		X			
-25		85-3 28'7"		X			
-26		85-4 33'8"		X			
-27		48-27'10"		X			
-28		48A-60'5"		X			
-29		71F-28'		X			
-30		41D-20'5"		X			

***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 the client for the services. Claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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.

Sampler Relinquished:	Date:	Received By:		Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:			
Relinquished By:	Date:	Received By: (Lab Staff)		REMARKS:
	Time:			
Delivered By: (Circle One)		Sample Condition Cool ☐ Intact ☐	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Yes ☐ No ☐		

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

ARDINAL LABORATORIES, INC.

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

ANALYSIS REQUEST					
BILL TO	PO #:				
Company Name: Project Manager:		Company:			
Address:		Attn:			
City:		State:			
Phone #:		Zip:			
Fax #:		Project Owner:			
Project #:		Project Name:			
Project Location:		Project Address:			
FOR LAB USE ONLY		Matrix Sampling			
(G) RAB OR (C) OMP.		# CONTAINERS	MATRIX	PRES.	SAMPLING
LAB I.D.		(G) RAB OR (C) OMP.	GROUNDWATER SLUDGE OIL SOIL WASTEWATER OTHER :	ICE / COOL ACID : OTHER :	
H3418-31	Sample I.D. 61E-91'1"	X	X	X	C7
-32	61F-15'	X	X	X	X
-33	61-10'2"	X	X	X	X
-34	2A-37'	X	X	X	X
-35	3B-28'1"	X	X	X	X
-36	3E-26'9"	X	X	X	X
-37	4S-47'	X	X	X	X
-38	4L-48'	X	X	X	X
-39	4J-43'	X	X	X	X

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Received By: (Lab Staff)

Date: _____ Time: _____

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.

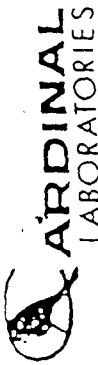
LOCATION	CHLORIDES	FLUID LEVEL	CHLORIDES	FLUID LEVEL
2A	39988	37'2"	64500	37'2"
71G		DRY		DRY
3B	31990	28'2"	62500	28'
86		WET		WET
3E	20993	26'9"	31500	26'9"
5		WET		DRY
31	92	25'3"	600	25'6"
18	660	20'	770	20'
23	348	22'8"	336	22'6"
24	32	14'	30	14'
45	820	47'2"	1500	47'2"
30	17595	22'1"	15500	22'1"
87A		DRY		DRY
33	120	15'3"	78	15'2"
34	200	22'3"	130	22'6"
35	336	24'2"	282	24'2"
36	212	22'9"	200	22'9"
37	32	19'2"	82	19'2"
38	208	21'1"	200	21'11"
39	76	22'8"	128	22'1"
40	540	23'1"	320	23'1"
81	84	13'8"		WET
46	4998	48'	15000	47'10"
48		DRY		DRY
49	1899	63'	2130	63'4"
61	50984	16'	99500	16'
61D	10997	20'6"	25500	20'5"
61E	13996	21'	19500	21'1"
61F	34989	15'	43500	15'
68	35989	27'8"	89000	27'6"
68A	48985	60'5"	78500	60'5"
71H		DRY		DRY
71F	67979	26'8"	154000	27'
71J	1140	33'9"		DRY
71I		DRY		DRY
77	180	45'	120	45'
79	80	FULL	130	FULL
78	380	27'1"	480	27'1"
80	180	FULL	150	FULL
85	21993	27'6"	72500	27'6"
85-3	34989	28'6"	55500	29'
85-4	49985	33'8"	86000	33'10"
85-11	62980	42'	100000	42'
85-13	46985	27'1"	55500	27'1"
85-14		WET		WET
85-15		WET		WET
85-16	59981	40'2"	111000	40'2"
85-17	175945	38'3"	149500	38'3"
85-18	110966	39'4"	62000	39'4"
85-20	4399	65'10"		DRY
85-B	33989	27'7"	61000	27'8"

Company Name: <u>Sundance</u>	BILL TO	PO #:
Project Manager:		
Address:	Company:	
City:	Attn:	
State:	Address:	
Zip:	City:	
	State:	Zip:
	Phone #:	
	Fax #:	
Project #:		
Project Name:		
Project Location:		

[illegible][illegible][illegible]

Date: _____ Time: _____		Received By: _____	
Date: _____ Time: _____		Received By: (Lab Staff) _____	
Relinquished By: _____ <i>Michael Patton</i>		Sample Condition Cool ☒ Yes ☐ No ☐ In tact ☐ Yes ☐ No ☐	
Delivered By: (Circle One) UPS - Fed Ex - Bus - Other: _____		CHECKED BY: (Initials) _____	

Phone Result: ☐ Yes ☐ No Additional Fax #: _____
Fax Results: ☐ Yes ☐ No
REMARKS: _____



PHONE 915/373-7001 • 2111 BEECHWOOD • DUBLIN, CA 94568
PHONE 505/393-2255 • 101 E. MARLAND • C985, NW 3220

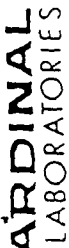
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: <u>Sundance</u>		Project Manager: <u>BILL TO</u>		PO #:									
Address:		Company:											
City:		Attn:											
Phone #:		Address:											
Fax #:		City:											
Project #:		State:		Zip:									
Project Name:		Phone #:											
Project Location:		Fax #:											
LAB ID. #	Sample LD.	COMP(C) OR GRAB(C)	MATRIX						PRESERVATION		SAMPLING		
			GROUNDWATER	WASTEWATER	BOL	OL	SLUDGE	OTHER:	ACID:	KCE / COOL	OTHER:	DATE	TIME
H3253-11	40-23'1"	1	X									10/3	
-12	30-22'1"	1	X										
-13	31-25'6"	1	X										
-14	77-45'	1	X										
-15	78-27'1"	1	X										
-16	79-Full	1	X										
-17	80-Full	1	X										
-18	85'18-39'4"	1	X										
-19	85'17-38'3"	1	X										
-20	85'16-40'2"	1	X										

PLEASE NOTE: Liability and Damages. Cardholder's use of and client's exclusive remedy for any claim being, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be required to be submitted within 120 days of the completion of the analysis. In no event shall Cardholder be liable for negligence or consequential damages, including without limitation, damages for lost profits, lost income, lost business, or any other special, incidental, or consequential damages. The use of this form does not constitute an admission of liability or acceptance of responsibility for the performance of services furnished by Cardholder. Signature of either party shall constitute a binding contract.

Sampler Relinquished:		Received By:		Phone Result: ☐ Yes ☐ No		Additional Fax #: ☐ Yes ☐ No	
Relinquished By:		Received By: (Lab Staff)		Fax Results: ☐ Yes ☐ No		REMARKS:	
Delivered By: (Circle One)		Sample Condition		Checked By: (Initials)			
UPS - Fed Ex - Bus - Other:		Cool ☐ Intact ☐		Yes ☐ No ☐			



PHONE 915-577-7001 • 2111 BEECHWOOD • BIRMINGHAM, AL 35202
PHONE 503-973-2255 • 101 E. MARLAND • C9BS • M 35210

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Sundance
Project Manager:	
Address:	
City:	State: Zip:
Phone #:	
Fax #:	
Project #:	
Project Name:	
Project Location:	

BELL TO	PO #:
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

[illegible][illegible]

Sampler Relinquished:	Date:	Received By:
	Time:	
	Date: 10/8/97	Received By: AMU
	Time: 9:00	Sample Count
Relinquished By:		Cool ☐ Yes ☐ No ☐
Delivered By: (Circle One)		
UPS - Fed Ex - Bus - Other:		

Received By: _____	Received By: (Lab Staff)	Sample Condition	Cool	Intact	Checked By: _____ (Initials)
		<i>Amy Dill</i>	☐ Yes	☒ No	

Phone Result	☐ Yes	☐ No	Additional Fax #:
Fax Results:	☐ Yes	☐ No	
REMARKS:			

**ARDINAL
LABORATORIES**

Company Name: Sundance		PO #:				
Project Manager:						
Address:		Company:				
City:		Attn:				
State:		Address:				
Zip:		City:				
		State:				
		Phone #:				
		Fax #:				
LAB ID. #	Sample LD.	COMP(C) OR GRAB(C)	# CONTAINERS	MATRIX	IDENTIFICATION	SAMPLING
				GROUNDWATER		
				WASTEWATER		
				SOIL		
				OIL		
				SLUDGE		
				OTHER:		
				ACID:		
				ICE / COOL		
				OTHER:		
						DATE
						TIME
H3253-31	61E-21'1"		1	X		10/3
-32	61F-15'		1	X		
-33	61-16'		1	X		
-34	2A-37'2"		1	X		
-35	3B-28'		1	X		
-36	3E-26'9"		1	X		
-37	45-47'2"		1	X		
-38	46-47'10"		1	X		
-39	49-63'4"		1	X		

[illegible]

Date: _____ Time: _____		Received By: _____ Date: 10/18/97 Time: 9:00A		Date: _____ Time: _____	
Relinquished By: _____		Received By: (Lab Staff) Amy Hill		Sample Condition Cool ☐ Intact ☐ Yes ☒ No ☐	
Delivered By: (Circle One) UPS - Fed Ex - Bus - Other:		Relinquished By: _____		Checked By: _____ (Initials)	



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

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

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES
ATTN: DONNA ROACH
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590

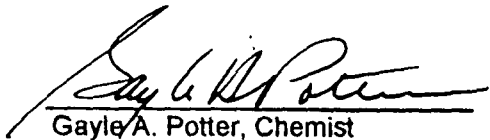
Receiving Date: 10/08/97
Reporting Date: 10/22/97
Project Number: NOT GIVEN
Project Name: WATER TEST
Project Location: PLANT

Analysis Date: 10/13/97
Sampling Date: 10/03/97
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3253-1	18-20'	770
H3253-2	23-22'6"	336
H3253-3	24-14'	30
H3253-4	33-15'2"	78
H3253-5	34-22'6"	130
H3253-6	35-24'2"	282
H3253-7	36-22'9"	200
H3253-8	37-19'2"	82
H3253-9	38-21'11"	200
H3253-10	39-22'1"	128
H3253-11	40-23'1"	320
H3253-12	30-22'1"	15500
H3253-13	31-25'6"	600
H3253-14	77-45'	120
H3253-15	78-27'1"	480
H3253-16	79-FULL	130
H3253-17	80-FULL	150
H3253-18	85/18-39'4"	62000
H3253-19	85/17-38'3"	149500
H3253-20	85/16-40'2"	111000
H3253-21	85/13-27'1"	55500
H3253-22	85B-27'8"	61000

METHOD: EPA 600/4-79-020,

325.3


Gayle A. Potter, Chemist

10/22/97
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 third parties 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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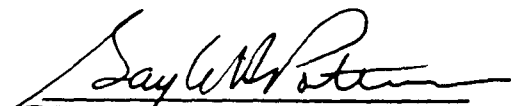
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
SUNDANCE SERVICES
ATTN: DONNA ROACH
P.O. BOX 1737
EUNICE, NM 88231
FAX TO: 505-394-2590

Receiving Date: 10/08/97
Reporting Date: 10/22/97
Project Number: NOT GIVEN
Project Name: WATER TEST
Project Location: PLANT

Analysis Date: 10/13/97
Sampling Date: 10/03/97
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/L)
H3253-23	85-27'6"	72500
H3253-24	85/11-42'	100000
H3253-25	85/3-29'	55500
H3253-26	85/4-33'10"	86000
H3253-27	68-27'6"	89000
H3253-28	68A-60'5"	78500
H3253-29	71F-27'	154000
H3253-30	61D-20'5"	25500
H3253-31	61E-21'1"	19500
H3253-32	61F-15'	43500
H3253-33	61-16'	99500
H3253-34	2A-37'2"	64500
H3253-35	3B-28'	62500
H3253-36	3E-26'9"	31500
H3253-37	45-47'2"	1500
H3253-38	46-47'10"	15000
H3253-39	49-63'4"	2130
Quality Control		484
True Value QC		500
% Recovery		96.8
Relative Percent Difference		0
METHOD: EPA 600/4-79-020,		325.3


Gayle A. Potter, Chemist


Date 10/22/97

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.

CONSERVATION DIVISION
RECEIVED
95 DE 8 AM 8 52

STATE OF
NEW MEXICO
OIL
CONSERVATION
DIVISION



MEMORANDUM OF MEETING OR CONVERSATION



Telephone



Personal

Time

3:30 PM

Date

12-1-95

Originating Party

Other Parties

WAYNE PRICE TO RICHARD BRABY
PARABO

Subject

MONITOR WELL 68+68A SOUTH of Pt 75+8

Discussion

AFTER DISCUSSING WITH DISTRICT SUPERVISOR - KMOOD
DISTRICT I RECOMMENDS THAT PARABO NOTIFY
SANTA FE OFFICE of PROBLEM AROUND MW 68+68A
+ cc DISTRICT!

Conclusions or Agreements

RICHARD BRABY WILL NOTIFY, ROGER ANDERSON
+ cc DISTRICT

Distribution

ROGER ANDERSON / CHRIS EUSTICE
JEFF SEXTON

Signed

ROGER ANDERSON
CHRIS EUSTICE

NEW MEXICO OIL CONSERVATION COMMISSION
FIELD TRIP REPORT

JERRY SEATON

INSPECTION
CLASSIFICATION
FACILITY
HOURS
QUARTER
HOURS

Name WAYNE PRICE Date 12-1-95 Miles _____ District I
Time of Departure 7 AM Time of Return 4 PM Car No. G 0472

In the space below indicate the purpose of the trip and the duties performed, listing wells or leases visited and any action taken.

Signature Wayne Price

- PARABO -

WITNESS MW SAMPLING & GAUGING (DEPTHS)

DON McCLENE - PARABO

WAYNE PRICE - PMCD

NOTED: MW'S 68 & 68A IS NOW

WET!!

Mileage

UIC _____

RFA _____

Other _____

Per Diem

UIC _____

RFA _____

Other _____

Hours

UIC _____

RFA _____

Other _____

TYPE INSPECTION
PERFORMED

H = Housekeeping
P = Plugging
C = Plugging Cleanup
T = Well Test
R = Repair/Workover
F = Waterflow
M = Mishap or Spill
W = Water Contamination
O = Other

INSPECTION
CLASSIFICATION

U = Underground Injection Control - Any inspection of or related to injection project, facility, or well or resulting from injection into any well. (SWD, 2ndry injection and production wells, water flows or pressure tests, surface injection equipment, plugging, etc.)

R = Inspections relating to Reclamation Fund Activity

O = Other - Inspections not related to injection or The Reclamation Fund

E = Indicates some form of enforcement action taken in the field (show immediately below the letter U, R or O)

NATURE OF SPECIFIC WELL
OR FACILITY INSPECTED

D = Drilling
P = Production
I = Injection
C = Combined prod. inj. operations
S = SWD
U = Underground Storage
G = General Operation
F = Facility or location
M = Meeting
O = Other

Wayne Price

CONSERVATION DIVISION
RECEIVED

From: Wayne Price
To: Chris Eustice
Cc: Jerry Sexton; Roger Anderson
Subject: Parabo MW # 68 area
Date: Friday, February 23, 1996 2:35PM

13 FEB 23 1996 8 52

Dear Chris,

I just received the 4th Quarter MW sample results for Parabo and will send you a copy. Please note MW # 68 is still wet and has gained quite a bit of water. Jerry and I discussed this with Richard Brakey and Richard has plans on submitting a work plan to Roger Anderson in the near future.

Thanks!

MAXIM

TECHNOLOGIES INC

1703 West Industrial P.O. Box 2150 * Midland, Texas 79701 * 915/683-3349 FAX 915/686-0492

Client Richard Brakey
Sundance Services
P.O. Box 1737
Eunice, NM 88231

Client No. 4100181
Report No. M5-12-044
Report Date 12/21/95 14:18

Project Water Samples

Phone: 505/394-2511 Fax:

Date Sampled _____

Sampled By Richard Brakey

Sample Type Water

Transported by Richard Brakey

P.O. # _____

Date Received 12/12/95

Lab No.

M5-12-044-01
M5-12-044-02
M5-12-044-03
M5-12-044-04
M5-12-044-05
M5-12-044-06
M5-12-044-07
M5-12-044-08
M5-12-044-09
M5-12-044-10
M5-12-044-11
M5-12-044-12
M5-12-044-13
M5-12-044-14
M5-12-044-15
M5-12-044-16
M5-12-044-17
M5-12-044-18
M5-12-044-19
M5-12-044-20
M5-12-044-21
M5-12-044-22
M5-12-044-23
M5-12-044-24
M5-12-044-25
M5-12-044-26
M5-12-044-27
M5-12-044-28
M5-12-044-29
M5-12-044-30
M5-12-044-31

Sample Identification

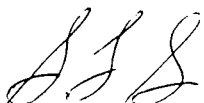
2A
3E
MH-3B
5
12
18
23
24
29
30
31
33
34
35
36
37
38
39
40
46
48
49
61
61D
61E
61F
68A
71F
71H
71I
71J

RECEIVED
FEB 20 1996
OLD HOBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

<u>Lab No.</u>	<u>Sample Identification</u>
M5-12-044-32	77
M5-12-044-33	78
M5-12-044-34	79
M5-12-044-35	80
M5-12-044-36	85
M5-12-044-37	85-3
M5-12-044-38	85-4
M5-12-044-39	65-11
M5-12-044-40	85B
M5-12-044-41	8513
M5-12-044-42	8514
M5-12-044-43	8515
M5-12-044-44	8516
M5-12-044-45	8517
M5-12-044-46	8518
M5-12-044-47	8520

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Reviewed By

MAXIM



ALLAN B. JOHNSTON

RECEIVED
FEB 2 6 1996
UCC HUBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Page 3 of 10

Sample: 01A 2A

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	72300	mg/L	14	12/18/95	WJJ

Sample: 02A 3E

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	35400	mg/L	14	12/18/95	WJJ

Sample: 03A MH-3B ✓

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	62400	mg/L	14	12/18/95	WJJ

Sample: 04A 5

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	16300	mg/L	14	12/18/95	WJJ

Sample: 05A 12

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	354	mg/L	14	12/19/95	WJJ

Sample: 06A 18

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	851	mg/L	14	12/18/95	WJJ

RECEIVED
DEC 20 1995
JULIO HUBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Sample: 07A 23

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	425	mg/L	14	12/18/95	WJJ

Sample: 08A 24

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	106	mg/L	14	12/18/95	WJJ

Sample: 09A 29

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	5320	mg/L	14	12/18/95	WJJ

Sample: 10A 30

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	19900	mg/L	14	12/18/95	WJJ

Sample: 11A 31

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	354	mg/L	14	12/18/95	WJJ

Sample: 12A 33

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	106	mg/L	14	12/18/95	WJJ

RECEIVED
DEC 26 1995
JUL HUBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Sample: 13A 34

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	177	mg/L	14	12/18/95	WJJ

Sample: 14A 35

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	354	mg/L	14	12/18/95	WJJ

Sample: 15A 36

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	213	mg/L	14	12/18/95	WJJ

Sample: 16A 37

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	106	mg/L	14	12/18/95	WJJ

Sample: 17A 38

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	142	mg/L	14	12/18/95	WJJ

Sample: 18A 39

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	177	mg/L	14	12/18/95	WJJ

RECEIVED
- 6 1996
OLD HOBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Sample: 19A 40

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	496	mg/L	14	12/18/95	WJJ

Sample: 20A 46

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	6660	mg/L	14	12/18/95	WJJ

Sample: 21A 48

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	1450	mg/L	14	12/18/95	WJJ

Sample: 22A 49

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	2340	mg/L	14	12/18/95	WJJ

Sample: 23A 61

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	104000	mg/L	14	12/18/95	WJJ

Sample: 24A 61D

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	18800	mg/L	14	12/18/95	WJJ

RECEIVED
26 1200
OLD HUBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Sample: 25A 61E

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	18800	mg/L	14	12/18/95	WJJ

Sample: 26A 61F

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	48900	mg/L	14	12/18/95	WJJ

Sample: 27A 68A

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	59600	mg/L	14	12/18/95	WJJ

Sample: 28A 71F

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	144000	mg/L	14	12/18/95	WJJ

Sample: 29A 71H

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	5320	mg/L	14	12/18/95	WJJ

Sample: 30A 71I

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	886	mg/L	14	12/19/95	WJJ

RECEIVED
JAN 10 1996
JULIUS HUBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Sample: 31A 71J

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	1420	mg/L	14	12/18/95	WJJ

Sample: 32A 77

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	213	mg/L	14	12/19/95	WJJ

Sample: 33A 78

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	213	mg/L	14	12/18/95	WJJ

Sample: 34A 79✓

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	85	mg/L	14	12/19/95	WJJ

Sample: 35A 80

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	362	mg/L	14	12/19/95	WJJ

Sample: 36A 85

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	71600	mg/L	14	12/18/95	WJJ

RECEIVED
FEB 2 1996
UCL HUBBS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Sample: 37A 85-3

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	68100	mg/L	14	12/18/95	WJJ

Sample: 38A 85-4

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	124000	mg/L	14	12/18/95	WJJ

Sample: 39A 65-11 ✓

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	97100	mg/L	14	12/18/95	WJJ

Sample: 40A 85B

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	53900	mg/L	14	12/18/95	WJJ

Sample: 41A 8513

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	58800	mg/L	14	12/18/95	WJJ

Sample: 42A 8514

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	92900	mg/L	14	12/18/95	WJJ

RECEIVED
DEC 26 1996
U.S. CUSTOMS
OFFICE

Order # M5-12-044
12/21/95 14:18
Client: Sundance Services

TEST RESULTS BY SAMPLE

Sample: 43A 8515

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	126000	mg/L	14	12/18/95	WJJ

Sample: 44A 8516

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	143000	mg/L	14	12/18/95	WJJ

Sample: 45A 8517

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	151000	mg/L	14	12/18/95	WJJ

Sample: 46A 8518

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	100000	mg/L	14	12/18/95	WJJ

Sample: 47A 8520

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	29100	mg/L	14	12/18/95	WJJ

RECEIVED
1995
CCL HUBBS
OFFICE

SUNDANCE SERVICES INC.

OIL CONSERVATION DIVISION
3RD QUARTER 1995 RECEIVED

C.C. JERRY SEXTON
CHRIS GUSTIER

2ND QUARTER 1995

LOCATION	CHLORIDES	FLUID LEVEL (PPM)	CHLORIDES	
2A	51400	34'2"	54200	
3A	44000	23'5"	DRY	
3D	65000	25'5"	62400	
3E	56000	38'	31200	
3G	44000	23'5"	DRY	
5	19100	22'	15600	23'5"
18	780	21'	780	21'5"
23	1100	24'8"	904	24'7"
24	1280	18'7"	461	17'6"
29	6660	38'4"	6030	39'8"
30	16700	21'6"	14900	24'2"
31	957	33'1"	213	24'7"
33	213	23'1"	71	19'3"
34	319	26'	337	26'
35	780	26'4"	744	26'5"
36	425	24'8"	354	23'8"
37	319	24'6"	266	20'4"
38	142	25'6"	177	26'6"
39	461	24'6"	142	23'4"
40	1520	26'6"	1520	31'
46	4960	39'2"	5390	40'2"
48	1330	41'4"	1400	43'9"
49	2090	53'5"	2270	55'4"
50	993	36'	DRY	
57	744	7'4"	DRY	
61	86500	15'3"	95000	15'5"
61D	20200	20'6"	20200	21'3"
61E	21300	24'	19000	25'
61F	50300	14'8"	50300	15'
68	89000	27'5"	90800	29'4"
68A	45400	57'6"	42200	59'4"
71F	139000	26'3"	NO RESULTS	25'8"
71J	Dry		2840	28'2"
78	425	26'5"	425	26'8"
80	Muddy		MUDDY	
85	73000	25'6"	68800	26'1"
85-3	70500	27'3"	69500	29'1"
85-4	122000	30'	124000	31'7"
85-11	124000	40'	12000	49'6"
85-13	54900	31'1"	1600	36'
85-14	79400	36'6"	14400	36'
85-15	123000	34'4"	123000	34'4"
85-16	131000	36'7"	134000	35'6"
85-17	153000	34'4"	141000	33'
85-18	93600	36'	101000	35'3"
85-20	58100	53'3"	76600	54'8"
85B	50300	32'	51000	35'8"

RECEIVED

NOV 01 1995

OIL HUBBS
OFFICE

All other monitor wells were dry when tested.

MAXIM

TECHNOLOGIES INC

1703 West Industrial P.O. Box 2150 * Midland, Texas 79701 * 915/683-3349 FAX 915/686-0492

Client Richard Brakey
Parabo
P.O. Box 1737
Eunice, NM 88231

Client No. 6690300
Report No. M5-08-154
Report Date 09/12/95 22:25

Project Water Samples

Phone: 505/394-2511 Fax:

Date Sampled _____

Sampled By Client

Sample Type Water

Transported by Richard Brakey

P.O. # _____

Date Received 08/30/95

Lab No.

M5-08-154-01
M5-08-154-02
M5-08-154-03
M5-08-154-04
M5-08-154-05
M5-08-154-06
M5-08-154-07
M5-08-154-08
M5-08-154-09
M5-08-154-10
M5-08-154-11
M5-08-154-12
M5-08-154-13
M5-08-154-14
M5-08-154-15
M5-08-154-16
M5-08-154-17
M5-08-154-18
M5-08-154-19
M5-08-154-20
M5-08-154-21
M5-08-154-22
M5-08-154-23
M5-08-154-24
M5-08-154-25
M5-08-154-26
M5-08-154-27
M5-08-154-28
M5-08-154-29
M5-08-154-30
M5-08-154-31

Sample Identification

#18
#23
#24
#33
#34
#35
#36
#37
#38
#39
#40
#29
#30
#31
#78
#5
#46
#48
#49
71J
#61 F
#61
#61 D
#85-13
#85-18
#85-17
#85-16
#3 B
#3 E
#2 A
#61 E

RECEIVED
NOV 01 1995
OCD HOBBS
OFFICE

Order # M5-08-154
09/12/95 22:25
Client: Parabo

Lab No.

M5-08-154-32
M5-08-154-33
M5-08-154-34
M5-08-154-35
M5-08-154-36
M5-08-154-37
M5-08-154-38
M5-08-154-39
M5-08-154-40
M5-08-154-41

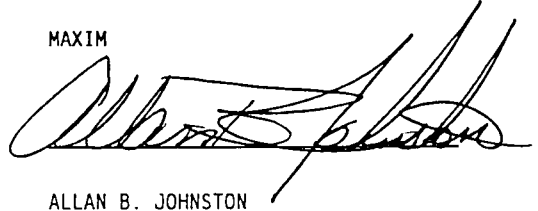
Sample Identification

#85-20
#85-11
#85-4
#85-3
#85
#85 B
#85-14
#85-15
#68-A
#68

Our letters and reports are for the exclusive use of the
client to whom they are addressed and shall not be reproduced
except in full without the approval of the testing laboratory.
The use of our name must receive our prior written approval.

MCC
Reviewed By

MAXIM



ALLAN B. JOHNSTON

RECEIVED
NOV 11 1995
OCD HUBB
OFFICE

Order # M5-08-154
09/12/95 22:25
Client: Parabon

TEST RESULTS BY SAMPLE

Sample: 01A #18

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	780	mg/L	14	09/07/95	WJJ

Sample: 02A #23

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	904	mg/L	14	09/07/95	WJJ

Sample: 03A #24

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	461	mg/L	14	09/07/95	WJJ

Sample: 04A #33

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	71	mg/L	14	09/07/95	WJJ

Sample: 05A #34

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	337	mg/L	14	09/07/95	WJJ

Sample: 06A #35

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	744	mg/L	14	09/07/95	WJJ

RECEIVED

NOV 01 1995
OCD HOBBS
OFFICE

Order # M5-08-154
09/12/95 22:25
Client: Parabo

TEST RESULTS BY SAMPLE

Sample: 07A #36

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	354	mg/L	14	09/07/95	WJJ

Sample: 08A #37

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	266	mg/L	14	09/07/95	WJJ

Sample: 09A #38

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	177	mg/L	14	09/07/95	WJJ

Sample: 10A #39

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	142	mg/L	14	09/07/95	WJJ

Sample: 11A #40

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	1520	mg/L	14	09/07/95	WJJ

Sample: 12A #29

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	6030	mg/L	14	09/07/95	WJJ

RECEIVED

NOV 01 1995

**OLD HOBBS
OFFICE**

Order # M5-08-154
09/12/95 22:25
Client: Parabo

TEST RESULTS BY SAMPLE

Sample: 13A #30

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	14900	mg/L	14	09/07/95	WJJ

Sample: 14A #31

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	213	mg/L	14	09/07/95	WJJ

Sample: 15A #78

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	425	mg/L	14	09/07/95	WJJ

Sample: 16A #5

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	15600	mg/L	14	09/07/95	WJJ

Sample: 17A #46

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	5390	mg/L	14	09/07/95	WJJ

Sample: 18A #48

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	1400	mg/L	14	09/07/95	WJJ

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NOV 01 1995

**OLD HOBBS
OFFICE**

Order # M5-08-154
09/12/95 22:25
Client: Parabo

TEST RESULTS BY SAMPLE

Sample: 19A #49

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	2270	mg/L	14	09/07/95	WJJ

Sample: 20A # 71J

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	2840	mg/L	14	09/07/95	WJJ

Sample: 21A #61 F

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	50300	mg/L	14	09/07/95	WJJ

Sample: 22A #61

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	95000	mg/L	14	09/07/95	WJJ

Sample: 23A #61 D

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	20200	mg/L	14	09/07/95	WJJ

Sample: 24A #85-13

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	54600	mg/L	14	09/07/95	WJJ

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**OGD HUBB
OFFICE**

Order # M5-08-154
09/12/95 22:25
Client: Parabo

TEST RESULTS BY SAMPLE

Sample: 25A #85-18

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	101000	mg/L	14	09/07/95	WJJ

Sample: 26A #85-17

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	141000	mg/L	14	09/07/95	WJJ

Sample: 27A #85-16

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	134000	mg/L	14	09/07/95	WJJ

Sample: 28A #3 B

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	62400	mg/L	14	09/07/95	WJJ

Sample: 29A #3 E

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	31200	mg/L	14	09/07/95	WJJ

Sample: 30A #2 A

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	54200	mg/L	14	09/07/95	WJJ

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OCD HOBBS
OFFICE

Order # M5-08-154
09/12/95 22:25
Client: Parabo

TEST RESULTS BY SAMPLE

Sample: 31A #61 E

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	19000	mg/L	14	09/07/95	WJJ

Sample: 32A #85-20

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	76600	mg/L	14	09/07/95	WJJ

Sample: 33A #85-11

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	112000	mg/L	14	09/07/95	WJJ

Sample: 34A #85-4

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	124000	mg/L	14	09/07/95	WJJ

Sample: 35A #85-3

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	69500	mg/L	14	09/07/95	WJJ

Sample: 36A #85

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	68800	mg/L	14	09/07/95	WJJ

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NOV 01 1995

OCD HOBBS
OFFICE

Order # M5-08-154
09/12/95 22:25
Client: Parabo

TEST RESULTS BY SAMPLE

Sample: 37A #85 B

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	51000	mg/L	14	09/07/95	WJJ

Sample: 38A #85-14

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	84400	mg/L	14	09/07/95	WJJ

Sample: 39A #85-15

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	123000	mg/L	14	09/07/95	WJJ

Sample: 40A #68-A

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	42200	mg/L	14	09/07/95	WJJ

Sample: 41A #68

Collected:

Category: W

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Date Started</u>	<u>Analyst</u>
CHLORIDE	SM 4500-CL,B	90800	mg/L	14	09/07/95	WJJ

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OCD HOBBS
OFFICE

SUNDANCE SERVICES INC

3RD QUARTER 1995			4TH QUARTER 1995	
LOCATION	CHLORIDES	FLUID LEVEL (PPM)	CHLORIDES	FLUID LEVEL
2A	54200	36'7"	72300	25'0"
3A	DRY		DRY	
3B	DRY		62400	27'5"
3D	62400	26'	DRY	
3E	31200	23'8"	35400	24'2"
3G	DRY			
5	15600	23'5"	16300	26'5"
12	DRY		354	14'2"
18	780	21'5"	851	20'3"
23	904	24'7"	425	22'6"
24	461	17'6"	106	15'0"
29	6030		5320	41'7"
30	14900	24'2"	19900	22'5"
31	213	24'7"	354	26'7"
33	71	19'3"	106	16'3"
34	337	26'0"	177	22'9"
35	744	26'5"	354	24'5"
36	354	23'8"	213	23'2"
37	266	20'4"	106	19'8"
38	177	26'6"	142	21'5"
39	142	23'4"	177	24'0"
40	1520	31'0"	496	23'3"
41	5390	40'2"	DRY	
46	1400	43'9"	6660	39'8"
48	2270	55'4"	1450	49'0"
49	DRY		2340	58'5"
50	DRY		DRY	
57	95000	15'5"		
61	20200	21'3"	104000	16'0"
61D	19000	25'0"	18800	21'3"
61E	50300	15'0"	18800	23'8"
61F	90800	29'4"	48900	15'4"
68	42200	59'4"		28'0"
68A	DRY		59600	59'3"
71H	DRY		5320	28'3"
71F	NO RESULTS	25'8"	144000	26'4"
71J	2840	28'2"	1420	24'0"
71I	DRY		886	26'8"
77	DRY		213	24'0"
79	DRY		85	FULL
78	425	26'8"	213	26'9"
80	MUDDY		362	6'0"
85	68800	26'1"	71600	26'8"
85-3	69500	29'1"	68100	27'4"
85-4	124000	31'7"	124000	30'8"
85-11	112000	49'6"	97100	49'3"
85-13	54600	36'0"	58800	38'0"
85-14	84400	36'0"	92900	37'9"
85-15	123000	34'4"	126000	35'5"
85-16	134000	35'6"	143000	36'8"
85-17	141000	33'0"	151000	34'3"
85-18	101000	35'3"	100000	36'6"
85-20	76600	54'8"	29100	54'4"
85-B	51000	35'8"	53900	37'2"

All other monitor wells were dry when tested.

RECEIVED
 FEB 4 1995
 UCC HUBBARD
 OFFICE

cc: ROGER ANDERSON
CHRIS FUSTICH

PARABO, INC.

P. O. Box 1737

EUNICE, NEW MEXICO 88231

1st QUARTER 1995 MONITOR WELL RESULTS

<u>LOCATION</u>	<u>CHLORIDES (PPM)</u>	<u>FLUID LEVEL</u>	
2A	51,457	33' 2"	All other monitor wells were dry when tested. Report date February 28, 1995
3A	48,653	23' 3"	
3D	58,064	25' 8"	
3E	54,059	37'	Richard Brakey Manager
18	761	20' 7"	
23	981	24' 8"	
24	601	18' 6"	
29	6,557	36' 6"	
30	16,418	21' 2"	
31	516	3' 3"	
33	190	23'	
34	280	26'	
35	851	26'	
36	345	25'	
37	315	24' 3"	
38	155	25' 1"	
39	390	24' 1"	
40	1,652	25'	
46	4,805	44'	
48	1,402	37' 9"	
49	2,252	51' 1"	
50	1,201	36' 2"	
61	77,485	15' 6"	
61D	20,822	20'	
61E	19,171	23'	
61F	47,452	15' 4"	
68	85,094	28'	
71F	131,344	26' 8"	
71J	1,802	34'	
78	440	26' 6"	
80	2,283	27' 4"	
85	70,477	25' 6"	
85-3	66,673	27'	
85-4	116,928	30'	
85-11	116,728	40'	
85-13	53,259	29'	
85-14	82,691	34' 5"	
85-15	118,530	34'	
85-16	126,939	36' 4"	
85-17	132,545	34'	
85-18	85,694	35' 8"	
85-20	54,860	53'	
85B	53,659	30' 6"	

RECEIVED

MAR 06 1995

U C D HOEBS
OFFICE

cc: ROGER ANDERSON
CHRIS EUSTICE

PARABO, INC.

P. O. Box 1737

EUNICE, NEW MEXICO 88231

1st QUARTER 1995 MONITOR WELL RESULTS

<u>LOCATION</u>	<u>CHLORIDES (PPM)</u>	<u>FLUID LEVEL</u>	
2A	51,457	33' 2"	All other monitor wells were dry when tested. Report date February 28, 1995
3A	48,653	23' 3"	
3D	58,064	25' 8"	
3E	54,059	37'	
18	761	20' 7"	Richard Brakey Manager
23	981	24' 8"	
24	601	18' 6"	
29	6,557	36' 6"	
30	16,418	21' 2"	
31	516	3' 3"	
33	190	23'	
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35	851	26'	
36	345	25'	
37	315	24' 3"	
38	155	25' 1"	
39	390	24' 1"	
40	1,652	25'	
46	4,805	44'	
48	1,402	37' 9"	
49	2,252	51' 1"	
50	1,201	36' 2"	
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61D	20,822	20'	
61E	19,171	23'	
61F	47,452	15' 4"	
68	85,094	28'	
71F	131,344	26' 3"	
71J	1,802	34'	
78	440	26' 6"	
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85	70,477	25' 6"	
85-3	66,673	27'	
85-4	116,928	30'	
85-11	116,728	40'	
85-13	53,259	29'	
85-14	82,691	34' 5"	
85-15	118,530	34'	
85-16	126,939	36' 4"	
85-17	132,545	34'	
85-18	85,694	35' 8"	
85-20	54,860	53'	
85B	53,659	30' 6"	

RECEIVED

MAR 06 1995

U C D HOBBS
OFFICE

WITNESSED BY GARY W. WINK

10-13-93

121 WELLS

CONSERVATION DIVISION
RECEIVED

OIL CONS

10-13-93

PARADO MONITOR HOLES

OCT 18 AM 8 56

'93 OCT

2 - 36' 6"	42 - DRY	71U - DRY	85F - 21' 0" MUDDY NO SAMPLE
2A - 24' 2"	44 - DRY	71W - DRY	85H - DRY
2B - 34'	45 - DRY	71X - DRY	85I - 22' 3" MUDDY NO SAMPLE
3 - DRY	46 - 33' 2"	71EE - DRY	85Z - DRY
3A - DRY	47 - 66' 0"	71FF - DRY	85-1 - DRY
3B - DRY	48 - 25' 8"	71GG - DRY	85-2 - DRY
3C - 24' 3"	49 - 48' 0"	71HH - DRY	85-3 - DRY
3D - 26' 4"	50 - 54' 4"	71II - DRY	85-5 - 25' 4" MUDDY NO SAMPLE
3G - 21' 2"	52 - 30' 9"	71KK - DRY	85-6 - DRY
4 - DRY	57 - 61' 2"	71MM - DRY	? 85 OR 87 (SHOWED 87-7) 85-7 - DRY
5 - DRY	61 - 15' 4"	71NN - DRY	85-8 - DRY
6 - DRY	61B - DRY	71OO - DRY	85-9 - DRY
7 - DRY	61C - DRY	71TT - DRY	85-10 - DRY
8 - DRY	61D - 19' 0"	72 - DRY	85-13 - 30' 6"
9 - DRY	61E - 19' 3"	72A - DRY	85-14 - 40' 2" MUDDY NO SAMPLE
10 - DRY	61F - 15' 0"	73 - DRY	85-15 - 33' 0"
11 - DRY	63 - 46' 9"	74 - DRY	86 - DRY
12 - DRY	68 - DRY	75 - DRY	87 - DRY
13 - 35' 8"	68A - DRY	76 - DRY	87A - DRY
18 - 19' 0"	69 - DRY	77 - 45' 3"	
23 - 23' 3"	70 - DRY	78 - 26' 1"	
24 - 17' 3"	71WELL - DRY	79 - 8' 3"	
29 - 24' 5"	71 - DRY	80 - 25' 0"	
30 - 19' 7"	71A - DRY	81 - DRY	
31 - 21' 6"	71F - 25' 7"	82 - DRY	
33 - 19' 9"	71G - DRY	83 - DRY	
34 - 24' 5"	71H - 32' 9"	84 - DRY	
35 - 24' 5"	71I - DRY	85 - 23' 7"	
36 - 23' 4"	71J - 34' 2"	85A - DRY	
37 - 20' 3"	71M - DRY	85B - 24' 0"	
38 - 22' 5"	71N - DRY	85C ^{6?} (NORTH) - DRY	
39 - 23' 8"	71P - DRY	85C (SOUTH) - 23' 2"	
40 - 23' 0"	71S - DRY	85D - DRY	
41 - DRY	71T - DRY	85E - DRY	

OIL CONSERVATION DIVISION

RECEIVED *From*

Memo

13 JUN 10 80 8 45

BONNIE PRICHARD

District I - UIC Coordinator

June 9, 1993

To Kathy Brown

As per instructions from Jerry, enclosed are the
water analysis from Parabo.

If you need anything further, please advise.



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

*will check out high
chlorides by pumping monitor
60 days JS-430-93*

Company Name: Parabo
Address: P.O. Box 1737
City, State: Eunice, NM 88231

Lab No. U0180
Attn: Richard Brakey

SAMPLE I.D.	CHLORIDE (ppm)	SAMPLE I.D.	CHLORIDE (ppm)
#2	47200	52	580
2-D	57000	57	536
2-E	14200	61	85500
3-C	66000	61-D	5800
3-D	62500	61-E	4696
3-G	50000	61-F	13300
12	648	63	680
13	360	71-F	92400
18	560	71-H	6400
23	500	71-I	1320
24	52	71-J	1260
29	8500	78	340
30	14400	79	1376
31	544	80	1220
33	56	81	180
34	176	85	76500
35	500	85-A	60000
36	244	NO NUMBER	308
37	616		
38	96		
39	1152		
40	1840		
46	560		
47	1548		
48	1064		
49	1844		
50	560		

Analyzed by:

John J. Muraw

Approved by:

Kelly Tooker



SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

Report of tests on	Water	File No.	6845000
Client	Tipperary Oil & Gas	Report No.	77683
Delivered by	Jeff Sparks w/Discovery Operating, Inc.	Report Date	4-22-92
		Date Received	4-14-92
Identification	MW-1		

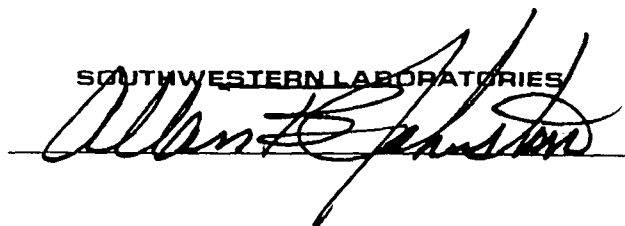
REPORT OF CHEMICAL ANALYSIS

<u>Parameters</u>	<u>Results</u>	<u>Date Performed</u>	<u>Analyst</u>	<u>Method</u>
Chloride, mg/L	113	4-17-92	A. Johnston	S.M. 4500-C1,B
Total Dissolved Solids @ 180°C, mg/L	470	4-20-92	W. Jaycox	S.M. 2540-D
Conductivity, umhos/cm @ 25°C	1031	4-17-92	W. Jaycox	S.M. 2510-B
Total Petroleum Hydrocarbons, mg/L	0.76	4-16-92	S. Stovall	EPA 418.1

* Denotes "less than"

Copies: Discovery Operating, Inc.
Attn: Jeff Sparks

XL
Reviewed by

SOUTHWESTERN LABORATORIES




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Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

Report of tests on	Water	File No.	6845000
Client	Tipperary Oil & Gas	Report No.	77684
Delivered by	Jeff Sparks w/Discovery Operating, Inc.	Report Date	4-22-92
		Date Received	4-14-92
Identification	MW-2		

REPORT OF CHEMICAL ANALYSIS

<u>Parameters</u>	<u>Results</u>	<u>Date Performed</u>	<u>Analyst</u>	<u>Method</u>
Chloride, mg/L	199	4-17-92	A. Johnston	S.M. 4500-Cl,B
Total Dissolved Solids @ 180°C,mg/L	912	4-20-92	W. Jaycox	S.M. 2540-D
Conductivity, umhos/cm @ 25°C	1687	4-17-92	W. Jaycox	S.M. 2510-B
Total Petroleum Hydrocarbons, mg/L	0.75	4-16-92	S. Stovall	EPA 418.1

* Denotes "less than"

Copies: Discovery Operating, Inc.
Attn: Jeff Sparks

 JXC
Reviewed by

SOUTHWESTERN LABORATORIES

 A. Johnston



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1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

Report of tests on	Water	File No.	6845000
Client	Tipperary Oil & Gas	Report No.	77685
Delivered by	Jeff Sparks w/Discovery Operating, Inc.	Report Date	4-22-92
		Date Received	4-14-92
Identification	MW-3		

REPORT OF CHEMICAL ANALYSIS

<u>Parameters</u>	<u>Results</u>	<u>Date Performed</u>	<u>Analyst</u>	<u>Method</u>
Chloride, mg/L	397	4-17-92	A. Johnston	S.M. 4500-C1,B
Total Dissolved Solids @ 180°C, mg/L	1532	4-20-92	W. Jaycox	S.M. 2540-D
Conductivity, umhos/cm @ 25°C	2799	4-17-92	W. Jaycox	S.M. 2510-B
Total Petroleum Hydrocarbons, mg/L	0.96	4-16-92	S. Stovall	EPA 418.1

* Denotes "less than"

Copies: Discovery Operating, Inc.
Attn: Jeff Sparks

YLC
Reviewed by

SOUTHWESTERN LABORATORIES
Allen E. Johnston



707 N. Leach , P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

W A T E R A N A L Y S I S

CLIENT: PARABO
LOCATION: EUNICE, NM

REPORT DATE: APRIL 9, 1992

<u>LOCATION</u>	<u>CHLORIDE (ppm)</u>	<u>LOCATION</u>	<u>CHLORIDE(ppm)</u>
✓ 2A	66200	✓ 39	204
✓ 2B	41000	✓ 46	560
✓ 3B	61000	✓ 47	860
✓ 3E	29700	✓ 48	428
✓ 12	460	✓ 49	1940
✓ 13	780	✓ 50	340
✓ 18	420	✓ 61	67000
✓ 23	123	61A	6300
✓ 24	100	61B	5200
✓ 30	14000	61C	12900
✓ 31	540	63	580
✓ 33	60	✓ 71F	117000
✓ 34	140	✓ 71J	548
✓ 35	880	✓ 77	500
✓ 36	348	✓ 81	216
✓ 37	80	✓ 85	70000
✓ 38	104	85A	68000

34

ANALYZED BY *Jose J. Moreno* APPROVED BY *[Signature]*

UNICHEM INTERNATIONAL INC.

Don



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NM

REPORT DATE: JANUARY 2, 1992

<u>LOCATION</u>	<u>CHLORIDE (ppm)</u>	<u>LOCATION</u>	<u>CHLORIDE(ppm)</u>
x 2	64000	39	200
3B	68800	46	1140 ✓
3E	32384	47	1000 ✓
12	800	48	760 ✓
13	800	49	2200
18	600	50	180
23	180	61	70800
24	300	61A	9600
30	16000 ✓	61B	9000
31	300	61C	13200
33	60	63	1000
34	228	71F	121000 ✓
35	900	71J	2000
36	500	77	300
37	60	81	250
38	140	85	76800
		85A	33600
		33	

ANALYZED BY

Hope J. Miranda

APPROVED BY

Dylan Brainerd

Sec. 91

PARABO MONITOR WELLS

MONITOR WELL #	FLUID LEVEL	MONITOR WELL #	FLUID LEVEL
1	DRY	48	33' 3"
2	38' 5'	49	48' 8"
3	DRY	50	52' 4"
3A	DRY	57	DRY
3B	25' 6"	61	14' 8"
3C	DRY	61A	19' 7"
3D	DRY	61B	17' 7"
3E	23' 8"	61C	13' 4"
4	DRY	63	48' 8"
6	DRY	68A	DRY
7	DRY	69	DRY
8	DRY	70	DRY
9	DRY	71	DRY
10	DRY	71A	DRY
11	DRY	71B	DRY
12	10' 8"	71C	DRY
13	39' 6"	71D	DRY
18	18' 4"	71E	DRY
23	23' 4"	71G	DRY
24	17' 3"	71H	DRY
29	DRY	71I	DRY
30	19' 3"	71J	DRY
31	22' 1"	72	DRY
33	19' 3"	72A	DRY
34	25' 6"	73	DRY
35	25' 9"	74	DRY
36	23' 3"	75	DRY
37	19' 6"	76	DRY
38	24' 4"	77	22' 3"
39	23' 0"	80	27' 2"
40	DRY	81	14' 3"
41	DRY	82	DRY
42	DRY	83	DRY
44	DRY	84	DRY
45	DRY	85	24' 6"
46	32' 5"	85A	23' 6"
47	56' 0"	86	DRY



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

W A T E R A N A L Y S I S

CLIENT: PARABO
LOCATION: EUNICE, NM

REPORT DATE: SEPTEMBER 30, 1991

<u>LOCATION</u>	<u>CHLORIDE (ppm)</u>	<u>LOCATION</u>	<u>CHLORIDE(ppm)</u>
2B	65600	39	160
3B	65200	46	3800
3E	29200	47	1700
12	500	48	680
13	1000	49	1900
18	600	50	180
23	300	61	67600
24	500	61D	9300
30	15700	61E	2500
31	1000	61F	14000
33	72	63	1000
34	300	71F	132400
35	1000	71J	500
36	600	81	500
37	100	85	75200
38	200	85A	8800

27

ANALYZED BY

Joe G. Ponce

APPROVED BY



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WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NEW MEXICO
DATE: 4/23/91

<u>LOCATION</u>	<u>CHLORIDE</u>	<u>LOCATION</u>	<u>CHLORIDE</u>
2A	8400	36	600
2B	10000	37	540
3	5500	38	132
3A	25200	39	660
3D	10400	46	1680
3E	13200	47	1340
13	640	48	680
18	500	49	2080
23	3000	50	740
24	3200	61	10800
30	2000	61D	1200
31	460	61E	2000
33	120	61F	10700
34	100	63	740
35	1060	85	9600

30

ANALYZED BY Emilio Ramez APPROVED BY Dyke B. Buxton
(HOBBS LAB)

3-27-92 MONITOR WELLS

WELL NO.

18	17'2"
23	22'6"
24	16'5"
33	17'7"
34	24'6"
35	25'5"
36	23'0"
37	19'3"
38	22'6"
39	23'0"
40	DRY
29	DRY
30	18'4"
31	21'3"
63	51'0"
77	22'3"
80	27'3" MUDDY NO SAMPLE
81	13'6"
82	DRY
83	DRY
84	DRY
85	24'3"
85 A	23'4"
85 B	DRY
85 C	DRY
85 D	DRY
85 E	DRY
85 F	DRY
85 G	DRY
85 H	DRY
85 I	DRY
85 J	DRY
85 K	DRY
85 L	DRY
85 M	DRY

WELL NO.

86	DRY
85 N	Muddy NO SAMPLE
85 O	DRY
85 P	DRY
85 Q	DRY
85 R	Muddy NO SAMPLE
87	DRY
87 A	DRY
68	DRY
68 A	DRY
69	DRY
70	DRY
71	DRY
71 F	25'4" 25'4"
71 G	DRY
71 H	DRY
71 I	DRY
71 J	31'5"
71 L	DRY
71 A	DRY
71 S	DRY
71 P	DRY
71 W	DRY
WELL	DRY
71 Q	DRY
71 T	DRY
71 U	DRY
71 K	DRY
71 N	DRY
71 H	DRY
71 G	DRY
71 F	DRY
71 E	DRY
71 L	DRY
71 M	DRY

3-27-92

72	DRY	48	13' 5"
72 A	DRY	49	46' 7"
73	DRY	50	54' 4"
74	DRY		
75	DRY		
76	DRY		
61	13' 9"		
61 A	18' 7"		
61 B	16' 6"		
61 C	12' 5"		
2	DRY		
2 A	22' 6"		
2 B	35' 3"		
3 B	25' 4"		
3 A	DRY		
3 C	DRY		
3 D	DRY		
3 E	24' 3"		
3	DRY		
4	DRY		
6	DRY		
7	DRY		
8	DRY		
9	DRY		
10	DRY		
11	DRY		
12	6' 7"		
13	38' 2"		
41	DRY		
46	30' 3"		
47	53' 6"		

INTRODUCTION

This report is a result of the review of sampling data and maps submitted to the Oil Conservation Division (OCD) since January, 1989. The intent is to evaluate the integrity of the Parabo facility to ensure there is no threat to the environment. There have been 126 different monitor wells sampled and/or reported on since January, 1989. If water is present in a monitor well it is analyzed for its chloride content and reported to the OCD. If there is no fluid in a monitor well it is reported as "dry".

MAP CONSTRUCTION

Various maps were used to draw a base map that shows the location of the monitor wells (104). This map was used to highlight monitor wells reporting chlorides greater than 1000 parts per million (ppm). Copies of this base map were made for future reviews of this facility. The monitor wells are positioned strategically around the perimeter of this facility.

COMPILATION OF DATA

Parabo, Inc. is required to report the results of their sampling to the OCD on a regular basis. All monitor wells are checked for fluids, the level of the fluids are measured from the top of the casing and reported. If fluids are present, a sample is taken to a lab to test the chloride content and is also reported.

The most recent sampling was done in April, 1992. 98 wells were checked, 34 wells were sampled and measured, 64 wells were reported "dry". Since January, 1989 through April, 1992 there have been 10 sampling events reported to the OCD. The reports were compiled in a manner to allow a well by well comparison of fluid levels and/or chlorides progressing through time.

There are noticeable inconsistencies in the reports that have yet to be cleared up. The number of wells checked vary from time to time and it seems different well number identifications sometimes get assigned to the same well. These are not problems that present any threat to the facilities' integrity. Although, if cleared up it could insure consistent and precise data in the future.

INTEGRATION OF DATA AND MAP

The data compiled was used to highlight, on the base map, monitor wells whose contained fluids exceed 1,000 ppm chloride. The highlighted wells are color coded to indicate the magnitude of the chloride content. The magnitudes are broken into 3 categories:

- 1) Between 1,000 ppm and 10,000 ppm
- 2) Between 10,000 ppm and 30,000 ppm
- 3) Greater than 30,000 ppm

CONCLUSIONS

Three monitor wells contained fluids with chloride contents greater than 1,000 ppm chloride but less the 10,000 ppm chloride. The position of these wells, relative to other monitor wells and the regional gradient, pose no threat to the environment. Monitor wells #61 A (6,300 ppm) and #61 B (5,200 ppm) are surrounded by additional monitor wells that are "dry" indicating these fluids are contained. Monitor well #49 (1940 ppm) is located at the extreme Northwest perimeter of the facility and have two nearby monitor wells, located a little further North, that contain fluids considerably less than 1,000 ppm chlorides. This elevated chloride content appears to be confined.

Three monitor wells contained fluids with chloride contents in excess of 10,000 ppm chloride but less than 30,000 ppm chlorides. These were monitor well #3 E (29,000 ppm), monitor well #30 (14,000 ppm), and monitor well #61 C (12,900 ppm). All three of these wells are surrounded by monitor wells that have been reported "dry" or chloride contents less than 1,000 ppm. Therefore, these wells pose no immediate threat.

Page 4

Seven monitor wells were reported with chloride contents in excess of 30,000 ppm. These were monitor wells #2 A (66,200 ppm), #2 B (41,000 ppm), #3 B (61,000 ppm), #61 (67,000 ppm), #71 F (117,000 ppm), #85 (70,000 ppm), and #85 A (68,000 ppm). Five of these seven wells are surrounded by additional monitor wells reported as "dry". Wells #85 (70,000 ppm) and #85 A (68,000 ppm) are positioned such that there is not additional monitor wells East to assure containment of the fluid. This will require additional attention to see if the future will call for any further investigation.

This facility seems to have pretty good integrity and is well observed in terms of sampling of the existing monitor wells.

✓ 30,000

PAVED MONITOR WELLS

[illegible]

PARABO MONITOR WELLS

MONITOR WELL #	4-92 CHLORIDE (PPM)	1-92 CHLORIDE (PPM)	9-91 CHLORIDE (PPM)	4-91 CHLORIDE (PPM)	12-90 CHLORIDE (PPM)	5-90 CHLORIDE (PPM)	1-90 CHLORIDE (PPM)	8-89 CHLORIDE (PPM)	4-89 CHLORIDE (PPM)	1-89 CHLORIDE (PPM)
7										
8										
9							1500	1150	800	
10						65700	1600	1270	1000	1300
11										
12	460	800	470				1100	270	300	364
13	750	800	1000	640	3100	6000	1500		144	196
18	1070	600	1000	500	2200	2000			480	208
23	120	180	300	3700	2200	1500	270	80	344	224
24	100	300	500	2200	1000	100	112		224	216
29							36000	22800	16400	9900
30	14000	16500	15700	2000		240	15200	16400	17300	9700
31	5400	300	1000	460	1800	1000	444	400	500	432
33	60	60	72	120	40	2000	192	30	50	40
34	1110	220	300	100	200	100	110	70	112	148
35	880	1000	1000		1400	110	610	680	728	624
36	248	500	600	600	1000	730	452	420	392	448
37	80	60	100	540	500	490	50	44	184	20

PARABO MONITOR WELLS

MONITOR WELL #	4-92 CHLORIDE (PPM)	1-92 CHLORIDE (PPM)	9-91 CHLORIDE (PPM)	4-91 CHLORIDE (PPM)	12-90 CHLORIDE (PPM)	5-90 CHLORIDE (PPM)	1-90 CHLORIDE (PPM)	8-89 CHLORIDE (PPM)	4-89 CHLORIDE (PPM)	1-89 CHLORIDE (PPM)
38	104	140	260	132	500	208	128	72	128	136
39	204	200	160	600	100	120	341	580	3500	1020
40										
41										
42										
44										
45										
46	560	1140	3800	1180	1600	1000	1144	156	880	826
47	800	1000	1700	1340	1000	1210	112	630	544	648
48	928	1600	680	760	1000	2000	360	160	204	196
49	1940	2200	1900	2000	2000	2000	2012	2200	3200	2200
50	340	180	180	740		164	210	96	84	80
51						100	352	288	292	284
52						104	48	3200	84	56
57										
61	67,000	70,800	100,000	11,800	57300	21,200	60,410	49,600	64,400	73,700
61A	1200	9600				16,000	11,200			

[illegible][illegible]

[illegible]

[illegible][illegible]

[illegible][illegible]



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

*will check out high
chlorides & pumping monitor
HUCES - w/in next
60 days 95 - 430 93*

Company Name: Parabo
Address: P.O. Box 1737
City, State: Eunice, NM 88231

Lab No. U0180
Attn: Richard Brakey

SAMPLE I.D.	CHLORIDE (ppm)	SAMPLE I.D.	CHLORIDE (ppm)
#2	47200	52	580
2-D	57000	57	536
2-E	14200	61	85500
3-C	66000	61-D	5800
3-D	62500	61-E	4696
3-G	50000	61-F	13300
12	648	63	680
13	360	71-F	92400
18	560	71-H	6400
23	500	71-I	1320
24	52	71-J	1260
29	8500	78	340
30	14400	79	1376
31	544	80	1220
33	56	81	180
34	176	85	76500
35	500	85-A	60000
36	244	NO NUMBER	308
37	616		
38	96		
39	1152		
40	1840		
46	560		
47	1548		
48	1064		
49	1844		
50	560		

Analyzed by:

Alan J. Moraw

Approved by:

Kelly Tooker



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, MN 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NEW MEXICO
DATE: 12/18/90

LOCATION	CHLORIDE (PPM)	LOCATION	CHLORIDE (PPM)
2A	26250	39	300
2B	22400	46	1600
3	32200	47	1000
3A	44000	48	500
3B	38800	49	2300
3C	30800	50	600
3E	32400	52	128
13	3000	61	57300
18	2200	61D	9600
23	3200	61E	9000
24	1000	61F	10200
31	1800	71F	6000
33	40	71J	4300
34	200	85	38500
35	1400		
36	1000		
37	500		
38	500		

ANALYZED BY

Karl Kipphut
(HOBBS LAB)

APPROVED BY

Dylan R. Banning

UNICHEM INTERNATIONAL INC.



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

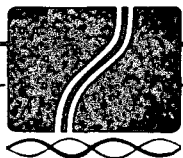
WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NM
DATE: 08/30/90

SAMPLE I.D.	PPM Cl	SAMPLE I.D.	PPM Cl
-----	-----	-----	-----
#2	70,400	#37	108
#2D	49,100	#38	128
#2E	55,200	#39	296
#3	54,000	#46	1,900
#3A	48,400	#47	1,048
#3B	34,800	#48	444
#3F	56,400	#50	172
#3G	64,800	#52	108
#13	476	#61	30,000
#18	740	#61A	60,000
#23	1,048	#61D	12,800
#24	232	#61F	11,200
#30	18,400	#63	13,600
#31	520	#71F	143,600
#33	96	#71J	144,800
#34	224	#80	4,400
#35	676	#81	4,000
#36	440	#85	71,600
87A	3,600		

ANALYZED BY M. L. Hall
(Hobbs Lab)

APPROVED BY D. K. Blum



REED & ASSOCIATES, INC.

V. STEVE REED
Executive Vice President

August 18, 1988

Mr. Jerry Sexton
Supervisor, District 1
New Mexico Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88240

Dear Mr. Sexton:

During a routine sampling event on July 29, 1988, high chloride levels were detected in monitor wells MW-2, 3, and 71 and a moderate chloride concentration was detected in MW-10. The previous sampling event in March showed that the wells were either dry or contained normal chloride levels. Due to the wide distribution of affected wells, it is unclear at this time where the source of the high chloride water originated. The following program has been implemented to determine the source of the chlorides.

- On August 8 a hydrologist from my Midland office examined all of the Parabo monitor wells and sampled those that contained water.
- Starting August 10 Parabo began bailing the affected wells daily. This bailing program will be used to determine the persistence of the high chloride water.
- Beginning August 15 we will move an air rotary drill rig onto the site. Adjacent to each of the affected wells, we will drill a grid pattern of test holes. The test holes will be allowed to remain open for at least 24 hours and they will be checked for accumulated water. Any test holes that contain water will be sampled and analyzed for chlorides, sulfates, and total dissolved solids. The test drilling program will be designed to identify the source of the high chloride water if it indeed originates from the ponds. If a high chloride plume is identified, one permanent monitor well will be installed downgradient of the leading edge of the plume.

August 18, 1988

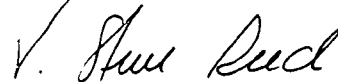
- During the week of August 15, the affected wells will be bailed on a daily basis. At the end of the week water samples will be collected in those wells where fluids persist.
- Our recent survey of the monitor wells shows that MW-78, 79, 80, 81, and 82 have been destroyed by gravel mining operations. Following the test drilling program, these wells will be replaced.

We will keep you apprised of the progress of the investigation. We expect to have preliminary results by September 1. Depending on the complexities of the field program, we should be able to provide a written report outlining the source and extent of the problem by September 15.

If you have any questions or suggestions concerning our approach, please advise.

Very truly yours,

REED & ASSOCIATES, INC.



V. Steve Reed

VSR/kn

cc: Mr. Wayne Price, Unichem International
Mr. William J. LeMay, New Mexico Oil Conservation Division
Mr. Hugh Robotham, Reed & Associates, Inc.





Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751. Fax 505/393-6754

WATER ANALYSIS

CLIENT NAME: PARABO
FACILITY: EUNICE
LOCATION: EUNICE, NM

DATE: 1/8/93

SAMPLE IDENTIFICATION CHLORIDE (PPM) SAMPLE IDENTIFICATION CHLORIDE (PPM)

#2	35,600	#47	1,700
#2p	53,700	#48	1,100
#2E	48,800	#49	2,000
#3C	57,800	#50	128
#3D	65,000	#51	568
#3G	46,000	#52	484
#12	674	#61	74,000
#18	420	#61D	6,700
#23	600	#61E	6,700
#24	60	#61F	13,000
#29	8,880	#63	624
#30	11,400	#71F	84,000
#31	364	#71G	108,000
#33	52	#71H	4,500
#34	180	#71I	872
#35	660	#71J	1,500
#36	228	#78	348
#37	536	#79	256
#38	72	#80	1,260
#39	1,128	#81	208
#40	1,800	#85	72,000
#46	1,100	#85A	67,000

ANALYZED BY:

Boye S. Murren

APPROVED BY:

[Signature]

UNICHEM INTERNATIONAL INC.

WELL	NO
18	17' 0"
23	20' 9"
24	15' 0"
33	16' 5"
34	22' 0"
35	22' 8"
36	22' 1"
37	18' 7"
38	20' 0"
39	22' 2"
40	22' 1"
29	21' 8"
30	19' 1"
31	20' 2"
43	36' 5"
52	22' 0"
77	DET NO SAMPLE
78	25' 6"
79	FULL
80	14' 3"
81	12' 0"
82	DRY
83	DRY
84	DRY
85	23' 3"
85A	23' 0"
86	DRY

WELL	NO.
87	DRY
87 A	DRY
68	DRY
68 A	DRY
71 I	23' 5"
71 I	25' 7"
71 H	27' 6"
71 G	24' 7"
71 F	26' 0"
69	DRY
70	DRY
71	DRY
71 A	DRY
72	DRY
72 A	DRY
73	DRY
74	DRY
75	DRY
76	DRY
61	15' 0"
61	D 19' 6"
61	E 17' 8"
61	F 13' 8"
2	D 22' 0"
2	26' 7"
2 E	23' 4"
3 D	24' 7"

WELL	NO
3-C	25' 6"
3A	DRY
3B	DRY
3G	21' 8"
3	DRY
4	DRY
5	Muddy NO SAMPLE
6	DRY
7	DRY
8	DRY
9	DRY
10	DRY
11	DRY
12	11' 5"
13	DRY
41	DRY
42	DRY
51	32' 5"
44	DRY
45	DRY
46	28' 2"
47	61' 6"
48	13' 6"
49	45' 4"
50	11' 4"

WELL NO.

71 P

71 W

71 Q

71 X

71 KK

71 OO

71 NN

71 II

71 HH

71 GG

71 FF

71 LL

71 MM

71 N

71 M

71 L

71 S

71 T

71 U

71 H

71 I

71 J

71 G

71 F



707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

W A T E R A N A L Y S I S

Client: Parabo

Report Date: 10/27/92

Location: Eunice, NM

Date Analyzed: 10/21/92

<u>Location</u>	<u>Chloride (ppm)</u>	<u>Location</u>	<u>Chloride (ppm)</u>
2	48000	47	1760
2-D	69000	48	1100
2-E	38500	49	1840
3-C	73000	50	280
3-D	76000	51	560
3-G	50000	52	200
12	1600	61	84000
13	700	61-D	4880
MH 18	480	61-E	2700
23	400	61-F	12400
24	100	63	840
29	12500	71-F	74000
30	12700	71-G	3000
31	540	71-H	4100
33	60	71-I	1600
34	200	71-J	2000
35	700	77	380
36	240	78	300
37	200	79	200
38	60	80	200
39	740	81	140
40	1640	85	82000
46	2040		

ANALYZED BY:

A handwritten signature in cursive script, appearing to read 'Michael Carr', written over a horizontal line.

APPROVED BY:

A handwritten signature in cursive script, appearing to read 'J. B. Branning', written over a horizontal line. There is a large, loopy flourish at the end of the signature.

UNICHEM INTERNATIONAL INC.

9- 30- 92

WELL NO.

18 16' 4"
23 20' 1"
24 13' 6"
33 15' 5"
34 20' 9"
35 22' 1"
36 21' 3"
37 17' 6"
38 19' 3"
39 21' 3"
40 21' 4"
29 21' 3"
30 18' 3"
31 19' 3"
63 34' 0"
52 19' 8"
77 20' 3"
78 25' 2"
79 FULL
80 FULL
81 9' 8"
82 DRY
83 DRY
84 DRY
85 23' 3"

85A 21' 8" MUDDY NO SAMPLE

86 DRY

WELL NO

87 DRY
87A DRY
68 DRY
68A DRY
69 DRY
70 DRY
71 DRY
71A DRY
71P DRY
71W DRY
71Q DRY
71X DRY
71KK DRY
7100 DRY
71NN DRY
71II DRY
71HH DRY
71GG DRY
71FF DRY
71EE DRY
71LL DRY
71MM DRY
71N DRY
71M DRY
71L DRY
71S DRY
71T DRY

9-30-92

WELL No

71 U DRY
71 H 26'7"
71 I 24'0"
71 J 21'1"
71 G 27'3"
71 F 25'0"
72 A DRY
72 DRY
73 DRY
74 DRY
75 DRY
76 DRY
61 14'9"
61 D 18'1"
61 E 17'4"
61 F 14'0"
2 19'8"
2 E 21'9"
2 D 21'4"
3 D 25'0"
3 C 24'5"
3 A DRY
3 B DRY
3 G 21'1"
3 DRY
4 DRY
5 MURPHY NO SAMPLE

WELL No

6 - DRY
8 - "
9 - "
10 - "
11 - "
12 - 9'
13 - 32'6"
41 - DRY
42 - "
51 - 31'8"
44 - DRY
45 - "
46 - 26'5"
47 - 61'
48 - 13'8"
49 - 45'3"
50 - 10'9"

5/17/90

Check
Rice
Caulis
Rem.

18 19.10

23 24.4

24 24.3

33 19.9

34 24.7

35 25.8

36 24.1

37 20.8

38 23.10

39 24.6

40 Dry

29 Dry

30 19.11

31 21.11

63 20.5

52 14.5

77 Dry

80 TSTM

81 14.6

82 Dry

83 Dry

84 Dry

85 24.4

25-G 24.2

all other wells around 85 - Dry

86 - Dry

all well on Tsg above 85

at Dyke Dry.

87A - Dry

87 - collapsed

87B - Dry

68 - Dry

68-A - Dry

69 Dry

70 - Dry

Recovery - Dry

71W Dry

71 ~~W~~ Dry

71P - Dry

71 - Dry

71A Dry

71 ^{50 ft} Dry

71-mm Dry

71 LL Dry

71-EZ Dry

71-EP Dry

71GG Dry

71-H4 Dry

Land
Cap to

(Check water level
on Bits)

16-18 wk
recovery well

71 IT - Dry

10 - 37.10

71 NN Dry

11 - Dry

71 KK Dry

12 - Dry

71 Q Dry

13 - 32.2

71 T Dry

41 - Dry

71 S Dry

42 - Dry

71 L 37.10

51 - 74.4

71 M TSTM

44 - Dry

71 N Dry

45 - Dry

72 - Dry

46 - 31.9

72 A - Dry

47 - 38.2

73 - Dry

48 - 14.4

74 - Dry

49 - 44.2

75 - Dry

50 - 20.11

76 - Dry

71 J East Well By River

32.6

71 I wet

32.2

71 H w

71 G w w w Dry

71 F w w w w ~~27.9~~

Far west

4 - Dry

6 - Dry

7 Dry

8 Dry

9 Dry

61 14.11

61 A 19.1

61 D 17.8

~~61 E~~

61 F 13.8

2 32.3

2E 23.7

2D 27.8

3-G Dry

3 A 24.2

3 B 34.0

3 C 25.9

3 F 20.7

3 21.7



SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

Report of tests on	Water	File No.	6845000
Client	Tipperary Oil & Gas	Report No.	77683
Delivered by	Jeff Sparks w/Discovery Operating, Inc.	Report Date	4-22-92
		Date Received	4-14-92
Identification	MW-1		

REPORT OF CHEMICAL ANALYSIS

<u>Parameters</u>	<u>Results</u>	<u>Date Performed</u>	<u>Analyst</u>	<u>Method</u>
Chloride, mg/L	113	4-17-92	A. Johnston	S.M. 4500-C1,B
Total Dissolved Solids @ 180°C, mg/L	470	4-20-92	W. Jaycox	S.M. 2540-D
Conductivity, umhos/cm @ 25°C	1031	4-17-92	W. Jaycox	S.M. 2510-B
Total Petroleum Hydrocarbons, mg/L	0.76	4-16-92	S. Stovall	EPA 418.1

* Denotes "less than"

Copies: Discovery Operating, Inc.
Attn: Jeff Sparks

Reviewed by

LLC

SOUTHWESTERN LABORATORIES

Alan Johnston

SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services

1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

Report of tests on	Water	File No.	6845000
Client	Tipperary Oil & Gas	Report No.	77684
Delivered by	Jeff Sparks w/Discovery Operating, Inc.	Report Date	4-22-92
		Date Received	4-14-92
Identification	MW-2		

REPORT OF CHEMICAL ANALYSIS

<u>Parameters</u>	<u>Results</u>	<u>Date Performed</u>	<u>Analyst</u>	<u>Method</u>
Chloride, mg/L	199	4-17-92	A. Johnston	S.M. 4500-Cl,B
Total Dissolved Solids @ 180°C,mg/L	912	4-20-92	W. Jaycox	S.M. 2540-D
Conductivity, umhos/cm @ 25°C	1687	4-17-92	W. Jaycox	S.M. 2510-B
Total Petroleum Hydrocarbons, mg/L	0.75	4-16-92	S. Stovall	EPA 418.1

* Denotes "less than"

Copies: Discovery Operating, Inc.
Attn: Jeff Sparks

Reviewed by

~~SOUTHWESTERN LABORATORIES~~



SOUTHWESTERN LABORATORIES

Materials, environmental and geotechnical engineering, nondestructive, metallurgical and analytical services
1703 West Industrial Avenue • P.O. Box 2150 • Midland, Texas 79702

Report of tests on	Water	File No.	6845000
Client	Tipperary Oil & Gas	Report No.	77685
Delivered by	Jeff Sparks w/Discovery Operating, Inc.	Report Date	4-22-92
		Date Received	4-14-92

Identification MW-3

REPORT OF CHEMICAL ANALYSIS

<u>Parameters</u>	<u>Results</u>	<u>Date Performed</u>	<u>Analyst</u>	<u>Method</u>
Chloride, mg/L	397	4-17-92	A. Johnston	S.M. 4500-Cl, B
Total Dissolved Solids @ 180°C, mg/L	1532	4-20-92	W. Jaycox	S.M. 2540-D
Conductivity, umhos/cm @ 25°C	2799	4-17-92	W. Jaycox	S.M. 2510-B
Total Petroleum Hydrocarbons, mg/L	0.96	4-16-92	S. Stovall	EPA 418.1

* Denotes "less than"

Copies: Discovery Operating, Inc.
Attn: Jeff Sparks

LYC
Reviewed by

SOUTHWESTERN LABORATORIES



707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NM

REPORT DATE: APRIL 9, 1992

<u>LOCATION</u>	<u>CHLORIDE (ppm)</u>	<u>LOCATION</u>	<u>CHLORIDE(ppm)</u>
✓ 2A	66200	• 39	204
✓ 2B	41000	• 46	560
✓ 3B	61000	• 47	860
✓ 3E	29700	✓ 48	428
✓ 12	460	✓ 49	1940
✓ 13	780	✓ 50	340
✓ 18	420	✓ 61	67000
✓ 23	123	61A	6300
✓ 24	100	61B	5200
✓ 30	14000	61C	12900
✓ 31	540	63	580
✓ 33	60	✓ 71F	117000
✓ 34	140	71J	548
✓ 35	880	77	500
✓ 36	348	✓ 81	216
✓ 37	80	✓ 85	70000
✓ 38	104	85A	68000

34

ANALYZED BY

Gene J. Morris

APPROVED BY

John Brown



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NM

REPORT DATE: JANUARY 2, 1992

<u>LOCATION</u>	<u>CHLORIDE (ppm)</u>	<u>LOCATION</u>	<u>CHLORIDE(ppm)</u>
2	64000	39	200
3B	68800	46	1140
3E	32384	47	1000
12	800	48	760
13	800	49	2200
18	600	50	180
23	180	61	70800
24	300	61A	9600
30	16000	61B	9000
31	300	61C	13200
33	60	63	1000
34	228	71F	121000
35	900	71J	2000
36	500	77	300
37	60	81	250
38	140	85	76800
		85A	33600

33

ANALYZED BY

Jose J. Miranda

APPROVED BY

Dale Beaman

UNICHEM INTERNATIONAL INC.

Dec.

PARABO MONITOR WELLS

MONITOR WELL #	FLUID LEVEL	MONITOR WELL #	FLUID LEVEL
1	DRY	48	33'3"
2	38'5'	49	48'8"
3	DRY	50	52'4"
3A	DRY	57	DRY
3B	25'6"	61	14'8"
3C	DRY	61A	19'7"
3D	DRY	61B	17'7"
3E	23'8"	61C	13'4"
4	DRY	63	48'8"
6	DRY	68A	DRY
7	DRY	69	DRY
8	DRY	70	DRY
9	DRY	71	DRY
10	DRY	71A	DRY
11	DRY	71B	DRY
12	10'8"	71C	DRY
13	39'6"	71D	DRY
18	18'4"	71E	DRY
23	23'4"	71G	DRY
24	17'3"	71H	DRY
29	DRY	71I	DRY
30	19'3"	71J	DRY
31	22'1"	72	DRY
33	19'3"	72A	DRY
34	25'6"	73	DRY
35	25'9"	74	DRY
36	23'3"	75	DRY
37	19'6"	76	DRY
38	24'4"	77	22'3"
39	23'0"	80	27'2"
40	DRY	81	14'3"
41	DRY	82	DRY
42	DRY	83	DRY
44	DRY	84	DRY
45	DRY	85	24'6"
46	32'5"	85A	23'6"
47	56'0"	86	DRY



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NM

REPORT DATE: SEPTEMBER 30, 1991

<u>LOCATION</u>	<u>CHLORIDE (ppm)</u>	<u>LOCATION</u>	<u>CHLORIDE(ppm)</u>
2B	65600	39	160
3B	65200	46	3800
3E	29200	47	1700
12	500	48	680
13	1000	49	1900
18	600	50	180
23	300	61	67600
24	500	61D	9300
30	15700	61E	2500
31	1000	61F	14000
33	72	63	1000
34	300	71F	132400
35	1000	71J	500
36	600	81	500
37	100	85	75200
38	200	85A	8800

27

ANALYZED BY

Ann L. Monte

APPROVED BY

UNICHEM INTERNATIONAL INC.



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, MN 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NEW MEXICO
DATE: 4/23/91

<u>LOCATION</u>	<u>CHLORIDE</u>	<u>LOCATION</u>	<u>CHLORIDE</u>
2A	8400	36	600
2B	10000	37	540
3	5500	38	132
3A	25200	39	660
3D	10400	46	1680
3E	13200	47	1340
13	640	48	680
18	500	49	2080
23	3000	50	740
24	3200	61	10800
30	2000	61D	1200
31	460	61E	2000
33	120	61F	10700
34	100	63	740
35	1060	85	9600

30

ANALYZED BY Emilio Ramon APPROVED BY Dyle B...
(HOBBS LAB)



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, MN 88240 / Ph. 505/393-7751, Fax 505/393-6754

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NEW MEXICO
DATE: 12/18/90

LOCATION	CHLORIDE (PPM)	LOCATION	CHLORIDE (PPM)
2A	26250	39	300
2B	22400	46	1600
3	32200	47	1000
3A	44000	48	500
3B	38800	49	2300
3C	30800	50	600
3E	32400	52	128
13	3000	61	57300
18	2200	61D	9600
23	3200	61E	9000
24	1000	61F	10200
31	1800	71F	6000
33	40	71J	4300
34	200	85	38500
35	1400		
36	1000	32	
37	500		
38	500		

ANALYZED BY

Kell-Kip-H-C
(HOBBS LAB)

APPROVED BY

D. L. Banning

UNICHEM INTERNATIONAL INC.



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/988-0010

WATER ANALYSIS

CLIENT: PARABO
LOCATION: EUNICE, NM

DATE: 05/24/90
SAMPLE DATE: 05/21/90

Sample I.D.	ppm Cl-	Sample I.D.	ppm Cl-
2	47,600	39	120
2D	42,400	46	4,000
2E	34,800	47	1,340
3	46,000	48	2,000
3A	40,800	49	2,200
3C	33,200	50	164
3F	36,000	51	700
10	65,700	52	104
13	6,000	61	31,200
18	2,000	61A	10,000
23	1,500	61D	9,500
24	700	61F	1,000
30	240	63D	1,000
31	16,000	71F	124,000
33	2,000	71G	3,000
34	48	71I	5,500
35	168	71L	64,800
36	736	71J	280
37	440	81	240
38	208	85	58,400
85G	68,000		

41

ANALYZED BY KITH H. H. H.
(Hobbs Lab)

APPROVED BY [Signature]

Francis D. Smith
12/15

Don Mule.
PARABO



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

CHLORIDE ANALYSIS

CLIENT NAME: PARABO

DATE: 01/02/90

Mg/L chloride expressed as Cl-.

Location	Mg/L Chloride	Location	Mg/L Chloride
2	47,200	47	712
2A	44,800	48	360
3	61,200	49	2,012
3A	30,800	50	216
3C	76,800	51	352
3D	62,000	52	48
3E	67,200	61	60,400
9	1,500	61A	11,200
10	1,600	61B	6,800
12	1,000	61K	8,400
13	188	63	400
23	268	71G	1,184
24	112	71I	112,400
29	36,800	71J	6,000
30	15,200	71K	52
31	444	71L	102,400
33	192	71M	92,400
34	116	71S	73,600
35	640	71T	34,000
36	452	80	2,000
37	56	81	60
38	128	85	76,000
39	384	85G	78,000
46	1,144	F.D.	54,800

Analyzed By

Mitchell Travis
(Hobbs Laboratory)

Approved By

Q. J. B...



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010

May 17, 1988

Mr. Eddie Seay
Oil & Gas Inspector
State of New Mexico
Oil Conservation Division
P.O. Box 1980
Hobbs, NM 88241

SUBJECT: PARABO DISPOSAL FACILITY - EUNICE, NEW MEXICO

Dear Mr. Seay:

The enclosed chloride analysis results are provided as an addendum to the first quarter water analysis summary submitted on May 2, 1988; as such, the analyses simply provide more-detailed information about the individual monitor holes.

Please do not hesitate to call me if you have any questions about the results.

Sincerely,

UNICHEM INTERNATIONAL INC.

Wayne Price
Staff Engineer

LWP:mms

Enclosure

cc: Richard Brakey, Vice President - Rowland Trucking
Jerry Sexton, District I Supervisor, NM Oil Conservation Division
Bob Sonnamaker, Operations Manager, Parabro Inc.

UNICHEM INTERNATIONAL INC.

CHLORIDE ANALYSIS FOR

[illegible]

CHLORIDE ANALYSIS FOR _____

WELL NUMBER & TD	TEST DATE 4-11-88			TEST DATE			TEST DATE		
	From top to Water	Top of Water	Chlorides	From top to Water	Top of Water	Chlorides	From Top to Water	Top of Water	Chlorides
HOLE #61	abd.		-						
TD 36.8									
HOLE #63	46'7"	30'4"	408						
TD 47.11									
HOLE #65	abd.		-						
TD 52.8									
HOLE #66	abd.		-						
TD 40.10									
HOLE #67	abd.		-						
TD 36.10									
HOLE #68	dry		-						
TD 33.1									
HOLE #69	"		-						
TD 60.1									
HOLE #70	"		-						
TD 34.10									
HOLE #71	"		-						
TD 36.9									
HOLE #71A	"		-						
TD 76.2									
HOLE #72	"		-						
TD 33.8									
HOLE #72A	"		-						
TD 80.3									
HOLE #73	"		-						
TD 29.7									
HOLE #74	"		-						
TD 31.6									
HOLE #75	"		-						
TD 36.5									
HOLE #76	"		-						
TD 45.6									
HOLE #77	18'9"	41'1"	336						
TD 60'									
HOLE #78	fine		-						
TD 60'	"		-						
HOLE #79			-						

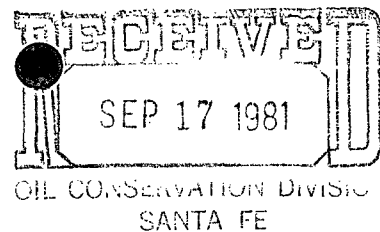
CHLORIDE ANALYSIS FOR

WELL NUMBER & TD	TEST DATE 4-11-88			TEST DATE			TEST DATE		
	From top to Water	Top of Water	Chlorides	From top to Water	Top of Water	Chlorides	From Top to Water	Top of Water	Chlorides
HOLE #34 TD 44.4	22'6"	21'8"	720						
HOLE #35 TD 44.2	23'4"	20'8"	1272						
HOLE #36 TD 41.9	23'10"	18'1"	600						
HOLE #37 TD 42.2	19'9"	22'3"	384						
HOLE #38 TD 42.9	21'7"	22'2"	240						
HOLE #39 TD 44.5	23'	21'5"	2136						
HOLE #40 TD 42.2	dry		-						
HOLE #41 TD 77.4	1'		-						
HOLE #42 TD 74.8	1'		-						
HOLE #44 TD 63.3	1'		-						
HOLE #45 TD 63.2	1'		-						
HOLE #46 TD 63.2	23'6"	39'6"	888						
HOLE #47 TD 66.1	17'6"	48'5"	696						
HOLE #48 TD 65.1	10'	55'1"	480						
HOLE #49 TD 70.3	49'2"	22'1"	2304						
HOLE #50 TD 78.0	16'3"	61'8"	288						
HOLE #51 TD 75.11	abd.		-						
HOLE #52 TD 48.2	11'9"	36'3"	264						
HOLE #53 TD 48.6	abd.		-						

PARABO SWD SYSTEM

[illegible]

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. Pit Sample

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Brine Disposal N/W Pit.

Type Well: Brine Pit. Depth - feet.

Well Use:

Sample Number: Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 27690 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay

Oil Conservation Division

REMARKS: 1ml sample 3550 X 7.8 = 27690 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. N/W Pit

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth feet

Well Use: Pit Sample

Sample Number: Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 87,685 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-28-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 1 ml 3550 x 24.7 = 87,685 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 12

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T. 21 S, R 38 E

Type well: Wallack Disposal Depth 28 feet

Well Use:

Sample Number: Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 426 PPM

Sulfates: PPM

Water Level: 7.3 from surface

Date Analyzed: 6-28-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 3.0=426 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 12

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 7.5 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 624.8 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 6-3-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 4.4= 624.8

20 ft. 7 inch H2o in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 12

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 28 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 603.5 PPM

Sulfates: PPM

Water level: 7.2 from surface

Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.7 = 603.5 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 13

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 43.4 feet

Well Use: Moniter Well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 426 PPM

Sulfates: PPM

Water Level: 29.1 from surface

Date Analyzed: 6-28-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 3.0 = 426 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 13

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 28.3 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 426 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 6-3-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 3.0 = 426 ppm

15 ft. 1 inch H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 13

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 43.4 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 426 PPM

Sulfates: PPM

Water level: 28.1 from surface

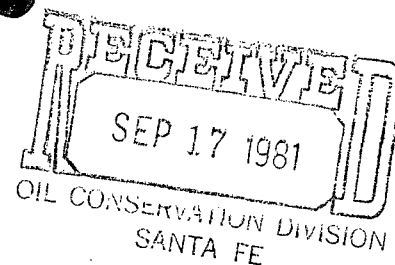
Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.2 = 426 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #13

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Brine Disposal Top 26

Type Well: Monitor Well Depth 43.3 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/L

Total dissolved Solids: PPM.

Chlorides: 454.4 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay

Oil Conservation Division

REMARKS: 25ml 142 X 3.2 = 454.4 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 18

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 46.10 feet

Well Use: Moniter well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie W. Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 781 PPM

Sulfates: PPM

Water Level: 42.5 from surface

Date Analyzed: 6-28-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 5.5= 781 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 18

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 41.3 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 596.4 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 4.2 = 596.4 ppm

4 ft. 8 in of H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 18

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 46.10 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 887.5 PPM

Sulfates: PPM

Water Level: 39.6 from surface

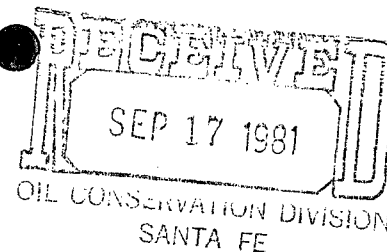
Date Analyzed: 3-12-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 2.5= 887. 5 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #18

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Disposal top 17.9'

Type Well: Moniter well Depth 46.4 feet.

Well Use: observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/Λ

Total dissolved Solids: PPM.

Chlorides: 795.2 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: *Eddie Seay*
Oil Conservation Division

REMARKS: 25ml 142 X 5.6 = 795.2 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 20

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 184.6 PPM

Sulfates: PPM

Water Level: 31.9 from surface

Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.3= 184.6 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 23

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 46.7 feet

Well Use: Moniter well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 837.8 PPM

Sulfates: PPM

Water level: 24.2 from surface

Date Analyzed: 6-28-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 5.9=837.8 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 23

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 23.6 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 1079.2 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 7.6= 1079.2

23 ft of H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 23

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 46.7 feet

Well Use:

Sample Number: Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 816.5 PPM

Sulfates: PPM

Water level: 23.3 from surface

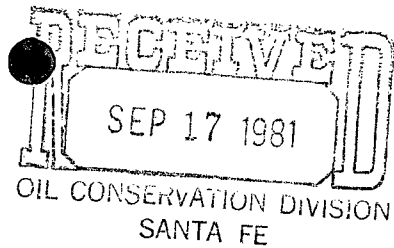
Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 2.3= 816.5 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #23

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Disposal Top H2O - 24.8

Type Well: Moniter Well Depth 46.3 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 340.8 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay

Oil Conservation Division

REMARKS: 25ml 142 X 2.4 = 340.8 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 24

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 44.7 feet

Well Use: Moniter Well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 227.2 PPM

Sulfates: PPM

Water Level: 16.10 from surface

Date Analyzed: 6-28-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.6=227.2 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 24

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 16.8 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 198.8 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.4= 198.8 ppm

27 ft 11 in of H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 24

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T. 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 44.7 feet

Well Use:

Sample Number: Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 213 PPM

Sulfates: PPM

Water level: 16.4 from surface

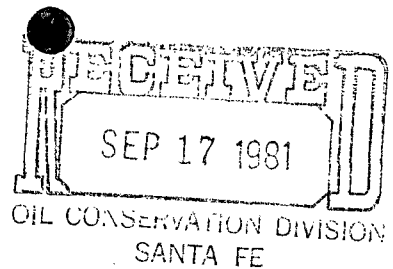
Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.5= 213 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #24

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach disposal H2O - 13.3 ft.

Type Well: Moniter well Depth 45.4 feet.

Well Use: observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 56.8 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X .4 = 56.8 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 30

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 36.6 feet

Well Use: Monitor Well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 795.2 PPM

Sulfates: PPM

Water Level: 18.7 from surface

Date Analyzed: 6-28-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 5.6 = 795.2 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 30

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 18.11 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 553.8 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 3.9= 552.8 ppm

17 ft 7 inch H 20 in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 30

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 36.6 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 497 PPM

Sulfates: PPM

Water level: 18.7 from surface

Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.4 = 497ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

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WATER ANALYSIS

Well Ownership: Parabo Well No. #30

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Disposal Top 17.5

Type Well: Monitor well Depth 36.6 feet.

Well Use: observation

Sample Number: 1 Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 255.6 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81 By: Eddie Seay

Oil Conservation Division

REMARKS: 25ml 142 X 1.8 = 255.6 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 31

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T. 21 S, R 38 E

Type well: Wallack Disposal Depth 20.6 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 468.6 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 6-3-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x 3.3= 468.6 ppm

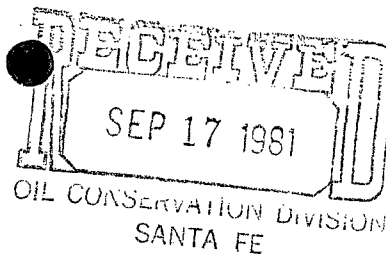
16 ft. 8 inch H 2o in hole

Supervisor, District I

WATER ANALYSIS

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #31

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach disposal Top 18.9

Type Well: Moniter well Depth 36.2 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 525.4 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X 3.7 = 525.4 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 33

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 41.9 feet

Well Use: Moniter Well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 56.8 PPM

Sulfates: PPM

Water Level: 19.3 from surface

Date Analyzed: 6-28-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .4=56.8 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 33

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 18.8 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 71 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 6-3-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142x .5= 71 ppm

23 ft 1 in of H₂O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 33

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 41.9 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 56.8 PPM

Sulfates: PPM

Water level: 18.4 from surface

Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .4= 56.8

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Well Ownership: Parabo Well No. #33

Well Location: Unit Letter , Section 29 , T 21 S, R 38 E

Wallach Disposal Top H2O - 10.9 ft.

Type Well: Moniter Well Depth 39.3 feet.

Well Use: observation

Sample Number: 1 Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: _____ m/cm

Total dissolved Solids: PPM.

Chlorides: 42.6 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Long
Oil Conservation Division

REMARKS: 25ml 142 X .3 = 42.6 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 34

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 44.4 feet

Well Use: Moniter Well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 411.8 PPM

Sulfates: PPM

Water Level: 24.10 from surface

Date Analyzed: 6-28-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 2.9= 411.8 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 34

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 24.8 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 426 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 6-3-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 3.0 = 426 ppm

19 ft 8 in. H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 34

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Monitor well Depth 44.4 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 532.5 PPM

Sulfates: PPM

Water level: 24.3 from surface

Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.5= 532.5 ppm

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REMARKS: 25ml 142 X 14.7 = 2087.4

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 37

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 42.2 feet

Well Use: Moniter Well

Sample Number: Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water Level: 20.3 from surface

Date Analyzed: 6-28-82 By: Oil Conservation Division

REMARKS: 25 ml 142 x .3=42.6 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 37

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 23.11 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 42.6 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .3 = 42.6 ppm

18 ft 3 in H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 37

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 42.2 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 56.8 PPM

Sulfates: PPM

Water level: 21.4 from surface

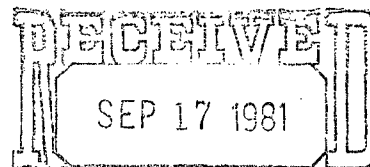
Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .4= 56.8 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



OIL CONSERVATION DIVISION
SANTA FE

WATER ANALYSIS

Well Ownership: Parabo Well No. #37

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Disposal Top H2O - 16.10

Type Well: Moniter well Depth 38.5 feet.

Well Use: observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 56.8 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X .4 = 56.8 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 46

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 63.2 feet

Well Use: Moniter well

Sample Number: Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 2485 PPM

Sulfates: PPM

Water Level: 25.3 from surface

Date Analyzed: 6-28-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 7.0= 2485 pp,

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 46

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 33 E

Type well: Wallack Disposal Depth 25.1 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 2698 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 7.6= 2698 ppm

38 ft. 1 in H2o in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 46

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 63.2 feet

Well Use:

Sample Number: Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 2520.5 PPM

Sulfates: PPM

Water level: 24.5 from surface

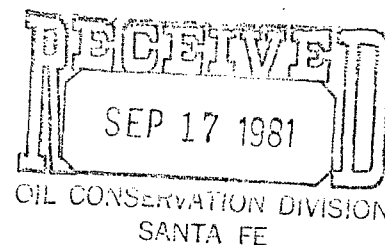
Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 7.1= 2520.5 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #46

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Brine Disposal Top H2O 23.7

Type Well: Monitor Well Depth 63.1 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 1803.4 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X 12.7 = 1803.4

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 47

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 66.1 feet

Well Use: Monitor Well

Sample Number: Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 284 PPM

Sulfates: PPM

Water Level: 17.0 from surface

Date Analyzed: 6-28-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 10 ml 355 x .8 = 284 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 47

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 16.11 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 284 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x .8= 284 ppm

49 ft. 2 inch H2o in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 47

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 66.1 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 284 PPM

Sulfates: PPM

Water level: 16.8 from surface

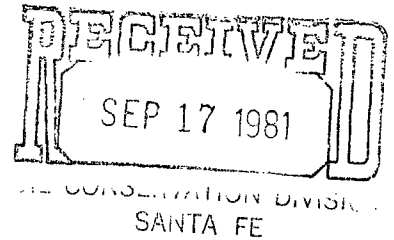
Date Analyzed: 3-12-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x .8= 284 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #47

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Disposal Top 15.3

Type Well: Monitor Well Depth 66.9 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 213 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X 1.5 = 213 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 48

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 65.1 feet

Well Use: Moniter Well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 674.5 PPM

Sulfates: PPM

Water Level: 9.10 from surface

Date Analyzed: 6-28-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.9 = 674.5 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 48

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 10.8 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 497 PPM

Sulfates: PPM

Water level: from surface

Date Analyzed: 6-3-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.4 = 497 ppm

54 ft. 5 inch H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 48

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 65.1 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 426 PPM

Sulfates: PPM

Water Level: 10.8 from surface

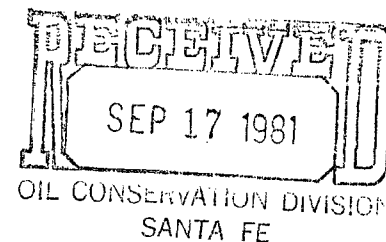
Date Analyzed: 3-12-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.2= 426 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #48

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Brine disposal Top H2O 4 8.7

Type Well: Monitor Well Depth 64.4 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 369.2 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X 2.6 = 369.2 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO



WATER ANALYSIS

Well Ownership: Parabo Well No. #49

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Disposal Top H2O - 66.7

Type Well: Monitor Well Depth 70.2 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/cm

Total dissolved Solids: PPM.

Chlorides: 2257.8 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X 15.9 = 2257.8 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 50

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 78 feet

Well Use: Moniter Well

Sample Number:

Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 639 PPM

Sulfates: PPM

Water Level: 51.6 from surface

Date Analyzed: 6-28-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.8= 639 pp.

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 50

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 36.2 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/cm

Total Dissolved Solids PPM

Chlorides: 568 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.6 = 568 ppm =

33 ft. 10 inch H2O in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 50

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 78 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 355 PPM

Sulfates: PPM

Water level: 23.9 from surface

Date Analyzed: 3-12-82

By: Eddie Seay
Oil Conservation Division

REMARKS: 10 ml 355 x 1.0= 355 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

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OIL CONSERVATION DIVISION
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WATER ANALYSIS

Well Ownership: Parabo Well No. #50

Land Status: State Federal Fee

Well Location: Unit Letter , Section 29, T 21 S, R 38 E

Wallach Disposal Top H2O - 17.3

Type Well: Monitor Well Depth 77.7 feet.

Well Use: Observation

Sample Number: 1

Date Taken: 8-25-81

Taken By: Eddie Seay

Specific Conductance: m/

Total dissolved Solids: PPM.

Chlorides: 468.6 PPM.

Sulfates: PPM.

Ortho-phosphates: ☐ V.Low ☐ Low ☐ Medium ☐ High

Sulfides: ☐ None ☐ Low ☐ Medium ☐ High

Date Analyzed: 8-31-81

By: Eddie Seay
Oil Conservation Division

REMARKS: 25ml 142 X 3.3 = 468.6 ppm

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 51

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T. 21 S, R 38 E

Type well: Wallack Disposal Depth 75.11 feet

Well Use: Moniter Well

Sample Number: Date Taken: 6-21-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 170.4 PPM

Sulfates: PPM

Water Level: 53.4 from surface

Date Analyzed: 6-28-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.2 = 170.4 ppm

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 51

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Type well: Wallack Disposal Depth 42.7 feet

Well Use: Mointer well

Sample Number: 1

Date Taken: 4-30-82

Taken By: Eddie Seay

Specific Conductance: m/~

Total Dissolved Solids PPM

Chlorides: 156.2 PPM

Sulfates: PPM

Water Level: from surface

Date Analyzed: 6-3-82

By: Eddie W Seay
Oil Conservation Division

REMARKS: 25 ml 142 x 1.1= 156.2

33 ft. 4 inch H2o in hole

Supervisor, District I

ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS, NEW MEXICO

WATER ANALYSIS

WELL OWNERSHIP: Parabo WELL NO. 51

LAND STATUS: State Federal Fee

WELL LOCATION: Unit Letter , Section 29, T 21 S, R 38 E

Wallack Disposal

Type well: Moniter well Depth 75.11 feet

Well Use:

Sample Number:

Date Taken: 3-9-82

Taken By: Eddie Seay

Specific Conductance: m/

Total Dissolved Solids PPM

Chlorides: 99.4 PPM

Sulfates: PPM

Water Level: 33.5 from surface

Date Analyzed: 3-12-82

By: Eddie W. Seay
Oil Conservation Division

REMARKS: 25 ml 142 x .7= 99.4 ppm

Supervisor, District I