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GENERAL CORRESPONDENCE

YEAR(S): 9/2003 -> /988



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

September 17, 2003

Mr. Frates Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

Re: Case No. 13167

Application of the New Mexico Oil Conservation Division through the Environmental Bureau Chief to Revoke the Permit of A.L. Daugherty to Operate an Oil Treatment Plant and Disposal Facility and to Release Bond; Chaves County, New Mexico.

Dear Mr. Seeligson;

By letter dated August 8, 2003, the Division notified you that it intended to revoke the permit for the Daugherty-Crosby Salt Lake Treating Plant and Disposal Facility at Section 19, T8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, in Chaves County, New Mexico, if it did not receive a request from you to keep the permit. The Division did not receive such a request. Therefore, the Division is proceeding with a permit revocation hearing.

A hearing will be conducted by a Division hearing examiner in Porter Hall, first floor, 1220 South St. Francis Drive, Santa Fe, New Mexico, at 8:15 a.m. on Thursday, October 9, 2003. At that hearing, you will have an opportunity to oppose the revocation of the permit.

If you have any questions, please do not hesitate to call me at (505) 476-3451.

Very truly yours,

Gail MacQuesten Assistant General Counsel

ec: Martyne Kieling



NEW MIXICO ENERGY, MINRALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

August 8, 2003

Lori Wrotenbery Director Oil Conservation Division

Mr. Frates S. Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

VIA CERTIFIED MAIL 7001-1904-0004-3929-9918

Re: Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico Permitted by Order No. R-5464 issued in Case No. 5922, under date of June 14, 1977.

Dear Mr. Seeligson:

The Oil Conservation Division (OCD) has determined that disposal operations have ceased at the referenced facility. Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility submitted a closure plan that was approved by the OCD on January 31, 2003. Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility submitted a closure reports dated June 1, 2003. The closure of the facility was approved by the OCD on August 8, 2003.

In the absence of a response to this letter, the Division will proceed with an application for a hearing to show cause why the permit for this facility should not be revoked. You posted a surety bond, in the amount of \$25,000, No. 111 3268 3654 issued by Fireman's Fund Insurance Co. on Apirl 10, 1989. Upon revocation of the permit this Bond will be released.

Unless the permitee submits to this office, no later than August 29, 2003 a request to keep the permit, the Division will proceed to schedule a permit revocation hearing.

Should you have any questions, please call Martyne Kieling at (505)-476-3488.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

ec: David K. Brooks, OCD legal OCD Hobbs Arksis

Page 1 of 1

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WELL / SURFACE DATA REPORT $10/21/2003$ (quarters are 1=NW 2=NE 3=SW 4=SE)	Well / Surface Data Report Avg Depth to Water Report Water Column Report Clear Form WATERS Menu Help	Owner Name: (First) (Last) C Non-Domestic C Domestic All	County: Basin: Number: Suffix:	NAD27 X: Y: Zone: Search Radius:	Township: 08S Range: 31E Sections:	New Mexico Office of the State Engineer Well Reports and Downloads
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FRATES SEELINGSON FRATES SEELINGSON

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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

August 8, 2003

Lori Wrotenbery Director Oil Conservation Division

Ξ.

Mr. Frates S. Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

RE: CLOSURE Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico

Dear Mr. Seeligson:

The New Mexico Oil Conservation Division (OCD) is in receipt Safety & Environmental Solutions, Inc. closure report dated June 1, 2003, for the Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility at the above-referenced location. Based on the closure report and the May 28, 2003 and August 6, 2003 OCD inspection, the OCD has determined that the Daughtery - Crosby Salt Lake treating plant has been remediated to OCD standards and the site has been restored to prevent erosion. The OCD hereby approves of the closure of Daughtery - Crosby Salt Lake treating plant.

Please be advised that OCD approval does not relieve Daughtery - Crosby Salt Lake of liability should any remaining contaminants result in pollution of the ground water, surface water or the environment. In addition, OCD approval does not relieve Daughtery - Crosby Salt Lake of the responsibility for compliance with other federal, state, or local laws and/or regulations.

If you have any questions please contact Martyne J. Kieling at 505-476-3488.

Sincerely,

Roger Ć. Anderson Environmenal Bureau Chief

xc: Artesia OCD Bob Allen, Safety & Environmental Solutions, Inc., 703 E. Clinton, Suite 102, Hobbs, NM 88240 STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Date 3-6-03 ✓ Telephone Time 3:15 Personal Originating Party Other Parties Mike Stubble Sich OCD Artesia Distrit office SUYEAN Treating Plant. Mike Performed final inspection Subject Darsch frag Luna and Disposal Pit Area. ating Aren Inspution August 6, 2003 Discussion There is No Monterial Comming to the Springer at the Disposal Aven Shows Inke Tust a little contaminatul Aveca. moble Re Dort Suys matria that is the Heart of the due This 982 of Lak matriel Removed 1245 Accorate a LOOKS Goodo Pipe like & Spill Aren Alongthe Slope Looks to be 20 + Len Have Had. Mo Shape of 1-tard Have been Brokn Asphaltens 50 Concel House Grading & Riping. Cross \$ lope The treatment Aren Look Good ALSO Conclusions or Agreements COSver Approved 15 the From Ust will Proceede Lavel -Approva -Writ and then Request that The DRYER Rele Re Signed Distribution

RECEIVED

JUN 0 9 2003 Environmental Bureau Oil Conservation Division

Daughtery – Crosby Salt Lake Treating Plant and Disposal Facility Closure Report Section 19, Township 8S, Range 30E Section 24, Township 8S, Range 30E Section 19, Township 8S, Range 29E Chaves County, New Mexico

June 1, 2003



Prepared for:

Mr. Frates S. Seeligson 4040 Broadway Suite 510 San Antonio, Texas 78209

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 103 Hobbs, New Mexico 88240 (505) 397-0510

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I. Background

Safety & Environmental Solutions, Inc. (SESI) was contracted by Frates Seeligson to perform assessment and cleanup services on the area identified as the Daughtery – Crosby Salt Lake Treating Plant and Disposal Facility in the letter from the New Mexico Oil Conservation Division (NMOCD) to Mr. Frates S. Seeligson dated October 22, 2002. The subject area is located in Section 19, Township 8S, Range 30E, Section 24, Township 8S, Range 30E, and Section 19, Township 8S, Range 29E, in Chaves County, New Mexico. The site is situated on the White Lake Ranch privately owned by Mr. Kent Gable. The site was an NMOCD approved treating and reclaiming facility operated from the late 1970s to the late 1980s. The site is currently abandoned.

II. Contaminant and Size of Leak

The suspected contaminant is crude oil and produced water associated with the treating and reclaiming facility. The crude oil and produced water is considered exempt oilfield waste. No evidence of other contaminants was observed.

III. Surface and Ground Water

There is no protectable groundwater in the area according to the database provided by the New Mexico State Engineer's Office.

IV. Soils

The soils in the area are predominantly sand and sandy loam.

V. Work Performed

The above referenced letter required that the following areas be addressed at the subject site: Process Area, Flow Lines, Above Ground Tanks, Crosby Salt Lake and Area between Process Area and Crosby Lake.

The closure of each area is detailed below.

Process Area

Surface contamination in the form of "hardpan" or well-degraded hydrocarbons was present in the process area. There was no evidence of contamination that would migrate either vertically or horizontally from that area. The hardpan was disced in place and broken into small pieces, which will hasten natural attenuation in the area.

Flow Lines

All flowlines were cut into 6' sections and transported to the City of Roswell, solid waste landfill. The total weight of the discarded flowlines was 8.5 tons.

Above Ground Tanks

The two above ground tanks at the site were removed by Wilbanks Trucking Company of Artesia, New Mexico, who accepted the tanks for disposal. The area where the tanks were located was returned to natural grade.

Crosby Salt Lake

The hydrocarbon material at the lake was excavated and disposed of onsite at the location near the lake agreed upon by the NMOCD at the last inspection in December 2002. Two disposal trenches were excavated at that location. One trench was 180' long, 25' wide and 18' deep resulting in the removal of 3,900 cubic yards of soil. Approximately 2,167 cubic yards of contaminated material was placed into this pit and the pit was capped with approximately 2,500 cubic yards of clay and sand. The second trench was 180' long, 30' wide and 16' deep resulting in the removal of approximately 4,160 cubic yards of soil. Approximately 2,600 cubic yards of contaminated material was placed into this pit and the pit was capped with approximately 2,500 cubic yards of contaminated material was placed into this pit and the pit was capped with approximately 2,500 cubic yards of contaminated material was placed into this pit and the pit was capped with approximately 2,500 cubic yards of contaminated material was placed into this pit and the pit was capped with approximately 2,500 cubic yards of contaminated material was placed into this pit and the pit was capped with approximately 2,500 cubic yards of clay and sand. The remaining soil that was excavated from the pits was used to build a roadway from the lakebed to the disposal site. This road was ripped and left in place after completion of the project.

SESI retrieved composite sample of the Dunes and the Discard Area. The samples were preserved on ice and sent under chain of custody to Cardinal Laboratories of Hobbs, New Mexico. The samples were analyzed for TPH (EPA method SE-846 8015 M), BTEX (EPA method SW-846 8260, and Chlorides (EPA method 4500-Cl⁻B). The results of the analysis are as follows:

ID	GRO	DRO	CI	Benzene	Toluene	Ethyl Benzene	Total Xvienes
D.C. Comp #1 Dunes	<10.0	233	5520	<0.005	<0.005	< 0.005	< 0.015
D.C. Comp #2 Dunes	<10.0	42.1	1020	<0.005	<0.005	<0.005	<0.015
D.C. Discard Area	<10.0	271	160	<0.005	<0.005	<0.005	<0.015

Area between Process Area and Crosby Lake

This area contained degraded hydrocarbon contamination along two "run" areas. This area was approximately 600' X 600' and was "disced" in place and broken into small pieces, which will hasten natural attenuation in the area.

The area was worked in a manner to avoid future erosion of the area. No vertical or horizontal investigation was performed in this area.

VI. Figures & Appendices

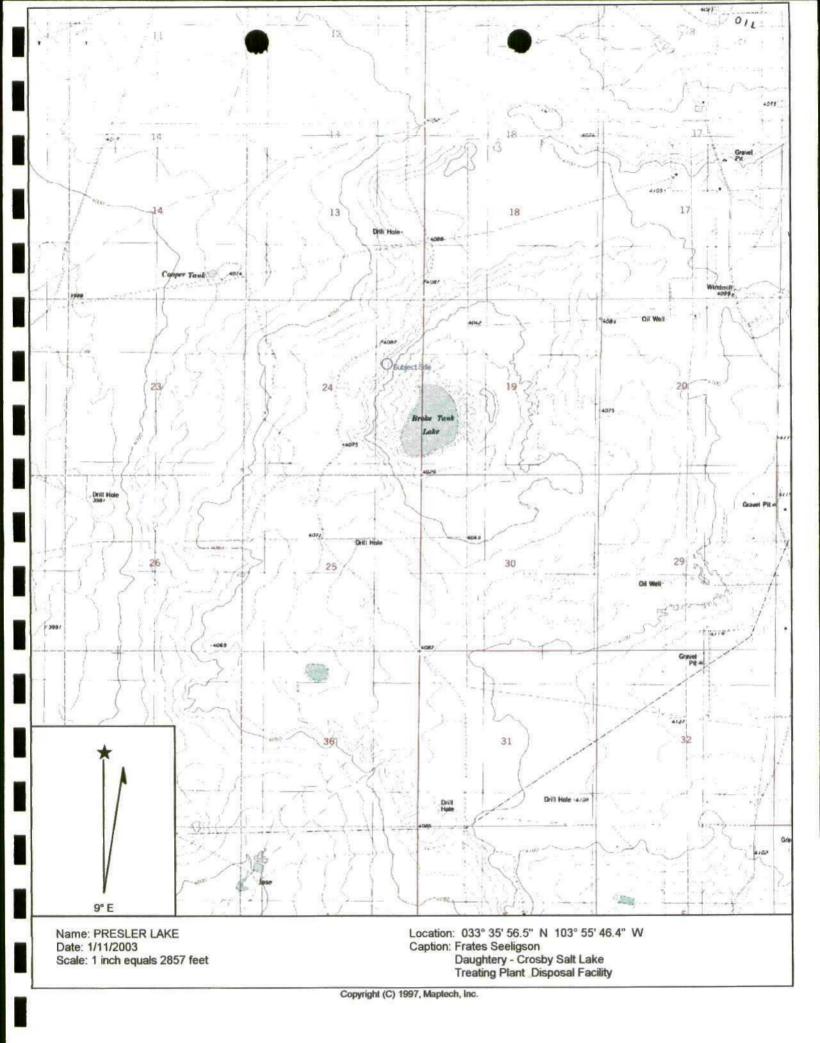
Figure 1 - Vicinity Map Appendix A - Analytical Results Appendix B - Site Photos

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Frates Seeligson Chaves County, New Mexico

Figure 1 Vicinity Map



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Appendix A Analytical Results

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

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

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 05/19/03 Reporting Date: 05/20/03 Project Number: SEE-02-001 Project Name: NOT GIVEN Project Location: NOT GIVEN Sampling Date: 05/16/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

			GRO	DRO	
			$(C_6 - C_{10})$	(>C ₁₀ -C ₂₈)	Cl*
	LAB NUMBE	ER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
Г	ANALYSIS		05/20/03	05/20/03	05/20/03
+	H7668-1	D.C. COMP #1 DUNES	<10.0	233	5520
-	H7668-2	D.C. COMP #2 DUNES	<10.0	42.1	1020
-	H7668-3	D.C. DISCARD AREA	<10.0	271	160
-	Quality Cont	trol	814	844	990
-	True Value (800	800	1000
ľ	% Recovery	· · · · · · · · · · · · · · · · · · ·	102	106	99.0
ſ	Relative Per	rcent Difference	2.5	3.4	6.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

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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 profils incurred by client, its subsidiries, 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.



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

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

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 05/19/03 Reporting Date: 05/20/03 Project Number: SEE-02-001 Project Name: NOT GIVEN Project Location: NOT GIVEN Sampling Date: 05/16/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBE	R SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS D	ATE	05/19/03	05/19/03	05/19/03	05/19/03
H7668-1	D.C. COMP #1 DUNES	< 0.005	<0.005	<0.005	<0.015
H7668-2	D.C. COMP #2 DUNES	<0.005	< 0.005	< 0.005	<0.015
H7668-3	D.C. DISCARD AREA	<0.005	<0.005	<0.005	<0.015
		· · · · · · · · · · · · · · · · · · ·			
Quality Contr	ol	0.090	0.092	0.088	0.262
True Value C	2C	0.100	0.100	0.100	0.300
% Recovery		89.8	91.9	88.2	87.2
Relative Perce	cent Difference	3.2	6.6	2.0	1.6

METHOD: EPA SW-846 8260

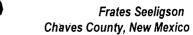
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be linitied to the amount paid by client for analyses. All claims, including those for negligence 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 HT GBB shall Gradinal within thirty (30) days after completion of the applicable service HT GBB shall Gradinal within thirty (30) days after completion of the applicable services or socies 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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05)	397-0510		Address:				
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Appendix B Site Photos



Process Area Before 11/20/02



Process Area Before 11/20/02



Lake Shore Before 11/20/02



Lake Shore Before 11/20/02



Lake Shore Before 11/20/02



Lake Shore Before 11/20/02



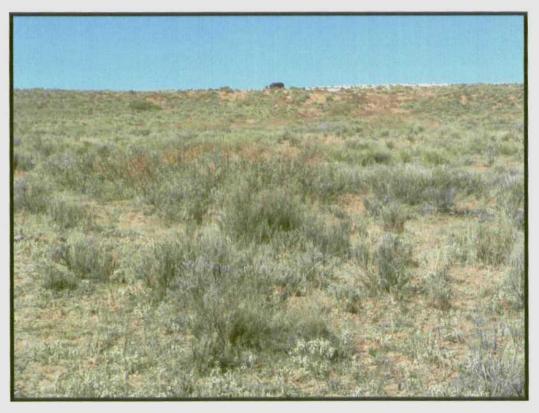
Typical "Run" at Lake Shore 11/20/02



More "Run" at Lake Shore 11/20/02



Lake Shore 11/20/02



"Run" Area Between Process Area & Lake Bed 11/20/02



"Run" Area Between Process Area & Lake Bed 11/20/02



"Run" Area 11/20/02



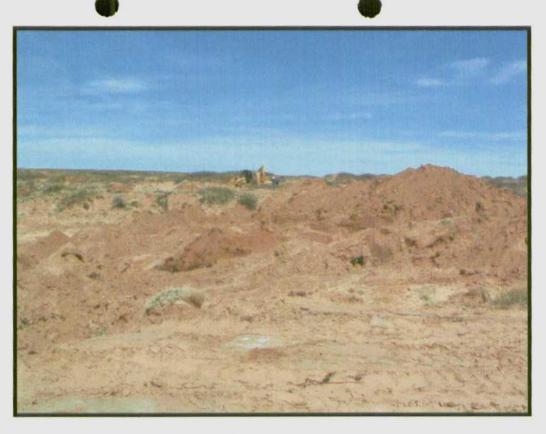
"Run" Area 11/20/02



Lake Shore During Excavation 3/5/03



"Typical" Material Found at Lake Shore 3/5/03



Lake Shore During Excavation 3/5/03



Lake Shore During Excavation 3/5/03



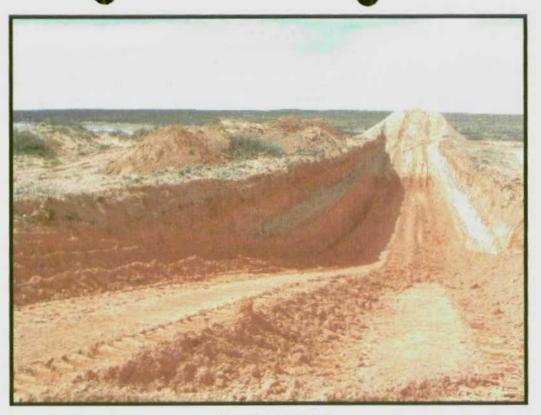
"Typical" Material Found at Lake Shore 3/5/03



Lake Shore During Excavation 3/21/03



Trench #1 3/21/03



Trench #1 3/21/03



Lake Shore During Excavation 3/25/03



Lake Shore During Excavation 3/25/03



Spoils Pile 3/25/03



Lake Shore 3/25/03



Spoils Pile 3/25/03



Spoils Pile 3/25/03



Spoils Pile 3/25/03



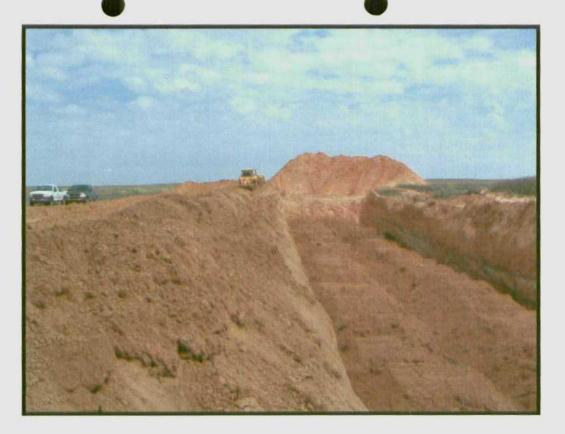
Spoils Pile 3/25/03



Contaminated Material Being Placed in Trench 3/25/03



Partially Filled Trench #1 3/25/03



Partially Filled Trench #1 3/25/03



Lake Shore 4/4/03



Lake Shore 4/4/03



Lake Shore 4/4/03



Lake Shore 4/4/03



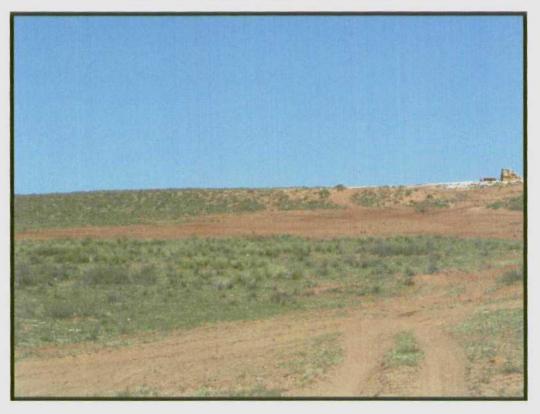
Trench #2 4/4/03



Lake Shore 4/4/03



"Run" Area Between Process Area & Lake 4/4/03



"Run" Area Between Process Area & Lake 4/4/03



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"Run" Area Between Process Area & Lake 4/4/03



"Run" Area Between Process Area & Lake 4/4/03



"Run" Area Between Process Area & Lake 4/4/03



Lake Shore Final 5/16/03



Lake Shore Final 5/16/03

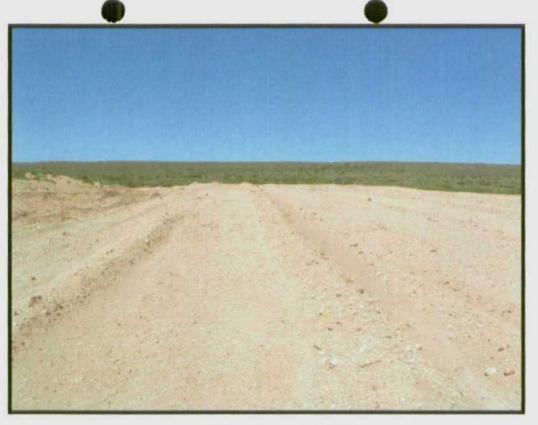


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Example of Isolated Small Run Soil Sampled Underneath This Run 5/16/03



Soil Sample Location5/16/03



Capped Trench 5/16/03



Capped Trench 5/16/03



Run Area 5/16/03



Run Area 5/16/03



Run Area 5/16/03



Process Area Final 5/16/03



Overview of Project Final 5/16/03



Overview of Project Final 5/16/03



Above Ground Tank Area Final 5/16/03

Kieling, Martyne

From: Sent: To: Cc: Subject: Stubblefield, Mike Friday, March 28, 2003 2:44 PM Kieling, Martyne Arrant, Bryan Remediation actions Daughtery Treating Plant & Disposal Facility

Martyne,

Here are some photo's taken on my inspection today. The remediation actions will probably be concluded today along the lake shores and on the sand dune area to the east of the lake playas. Some of the photo's are of the disposal pit excavated on the bench north and east of lake playas. One disposal pit has recovered materials in it and the disposal pit being excavated has the recovered materials stockpiled near it. Bob Allen will not cover the disposal pits until next Friday giving Frates a chance to see the open pits. Remediation operations will now start to correct through blending the degraded hydrocarbon going from the closed treating facility site down to the lake playas.

Will keep you informed as the project progresses.

Mike S.

















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MVC-010F.JPG



MVC-013F.JPG

Kieling, Martyne

From: Sent: To: Subject: Stubblefield, Mike Wednesday, March 12, 2003 7:10 AM Kieling, Martyne RE: Daughtery/White Lakes

Martyne,

I made my weekly visit to the Daughtery treating site yesterday. A backhoe is on site excavating and stockpiling the degraded hydrocarbon from the lake shores. There are some places were contamination has penetrated deeper than expected. Bob Allen is meeting with Frates today before excavating to vertical extent in the mentioned areas. It is estimated that the stockpiling actions will take at least two more weeks. When the recovery and stockpiling actions are concluded and the stockpiled materials are ready for burial I would like to have you inspect the lake shoreline for your approval on final excavation near the lake. I will E-mail you when the area as I have mentioned is ready for your inspection.

Mike S.

From:Kieling, MartyneSent:Tuesday, March 11, 2003 2:56 PMTo:Stubblefield, MikeSubject:Daughtery/White Lakes

in one day. Let me know what you think.

Mike,

How are things going out at the old Daughtery treating plant and the lake shore cleanup. Please advise should I come for a day visit to check on the cleanup around the lake? as you probably know our travel has been halted as far as per deim is concerned. But I will come if I can squeeze it all

Martyne J. Kieling

Martyne J. Kieling Environmental Geologist



P.O. Box 1613 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 505/397-0510 Fax 505/393-4388 www.sesi-nm.com

Safety & Environmental Solutions, Inc.

April 17, 2003

Mrs. Martyne Kieling Environmental Geologist Oil Conservation Division P.O. Box 6429 Santa Fe, NM 87504

Dear Martyne:

This letter will request a modification to the approved work plan for the Daughtery-Crosby Salt Lake Treating Plant. As we discussed during our telephone conversation today, Mr. Seeligson had agreed to install boreholes in order to delineate the process area as well as cap it with caliche. However, after further review of that area, it is our feeling that there is only minimal surface contamination in the form of "hardpan" or well degraded hydrocarbons is present in that area. There is no evidence of contamination that would migrate either vertically or horizontally from that area. The "hardpan" can be disced in place and broken into small pieces which will hasten natural attenuation in the area.

Please consider this request to allow only discing the area instead of the original plan. We feel this is a reasonable action considering the overall improvement in the facility due to the completion of the remaining steps in the approved work plan.

Thank you for your consideration in this matter. If I may answer any questions of be of further service, please call me.

Sincerely,

Bob Allen CHMM, REM, CET, CES President

BA/jra



NEW MOXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

Lori Wrotenbery Director Oil Conservation Division

April 21, 2003

Mr. Frates S. Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

RE: Remediation / Cleanup Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico

Dear Mr. Seeligson:

The New Mexico Oil Conservation Division (OCD) has received the letter dated April 17, 2003 from Safety & Environmental Solutions, Inc. requesting to modify the Remediation and Cleanup Work Plan, dated January 10, 2003, for the Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility. The OCD hereby approves of the modification to disc or rip the process area to aid in the natural attenuation.

Please be advised that this approval does not relieve Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility of liability should their operation result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility of responsibility for compliance with other federal, state or local regulations.

If there are any questions, please contact me at (505) 476-3488.

Sincerely

Martyne J. Kieling Environmental Geologist

XC: Artesia OCD
 Bob Allen, Safety & Environmental Solutions, Inc., 703 E. Clinton Suite 102, Hobbs, NM 88240

Kieling, Martyne

From:Stubblefield, MikeSent:Friday, April 18, 2003 6:34 AMTo:Kieling, Martyne

Subject: RE: Daughtery

Martyne,

I believe Safety & Environmental Solutions request for modification of the work plan is based on a sound bases and is approval able.

Mike S.

-----Original Message----- **From:** Kieling, Martyne **Sent:** Thursday, April 17, 2003 3:31 PM **To:** Stubblefield, Mike **Subject:** Daughtery

Mike,

I received a call from Bob Allen today and he submitted a request to modify the approved work plan for the Daughtery site. When you get a chance can you look this over and with your knowledge of the site give me your recommendation.

化社

<u>h</u> | |

Thanks Martyne

-----Original Message----- **From:** Bob Allen [mailto:ballen@sesi-nm.com] **Sent:** Thursday, April 17, 2003 2:18 PM **To:** Martyne Keeling **Subject:**

Bob Allen Safety & Environmental Solutions, Inc. 505-397-0510

1Hi



P.O. Box 1613 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 505/397-0510 Fax 505/393-4388 www.sesi-nm.com

1

Safety & Environmental Solutions, Inc.

April 17, 2003

Mrs. Martyne Kieling Environmental Geologist Oil Conservation Division P.O. Box 6429 Santa Fe, NM 87504

Dear Martyne:

This letter will request a modification to the approved work plan for the Daughtery-Crosby Salt Lake Treating Plant. As we discussed during our telephone conversation today, Mr. Seeligson had agreed to install boreholes in order to delineate the process area as well as cap it with caliche. However, after further review of that area, it is our feeling that there is only minimal surface contamination in the form of "hardpan" or well degraded hydrocarbons is present in that area. There is no evidence of contamination that would migrate either vertically or horizontally from that area. The "hardpan" can be disced in place and broken into small pieces which will hasten natural attenuation in the area.

Please consider this request to allow only discing the area instead of the original plan. We feel this is a reasonable action considering the overall improvement in the facility due to the completion of the remaining steps in the approved work plan.

Thank you for your consideration in this matter. If I may answer any questions of be of further service, please call me.

Sincerely,

Bob allon

Bob Allen CHMM, REM, CET, CES President

BA/jra





Phone 210-826-5645 Fax 210-826-5689 3737 Broadway - #210 San Antonio, TN 78209

February 20, 2003

Ms. Martyne J. Kieling, Environmental Geologist New Mexico Energy Minerals and Natural Resources Department Fax #505-476-3462

 RE: Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility Section 19, T 8 S, R 30E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico National Surety Corporation, Bond No. 11132683654

Following is Paul Gabel's permission to do the work as outlined.

Frates Seeligson, Jr.

Mr. Frates S Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

February 19, 2003

To Whom it May Concern:

Mr. Seeligson has our permission to perform the work outlined in the Remediation and Cleanup Work Plan on the Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility. We ask that Mr. Seeligson or the crew performing the work call either myself or our ranch manager the day before bringing equipment onto or beginning work on the ranch. We also request that any roads used to bring equipment to the job site be repaired to their condition before this project.

Sincerely.

and liched

Paul Gabel PO Box 9 Sudan TX 79371 806 227 2288 phone 806 227 2258 fax

Ranch Manager Terry Brice 505 398 3172 phone 505 631 0509 mobile 4.

P.O. Box 1613 703 E. Clinton Suite 103 Hobbs, New Mexico 88240 505/397-0510 Fax 505/393-4388



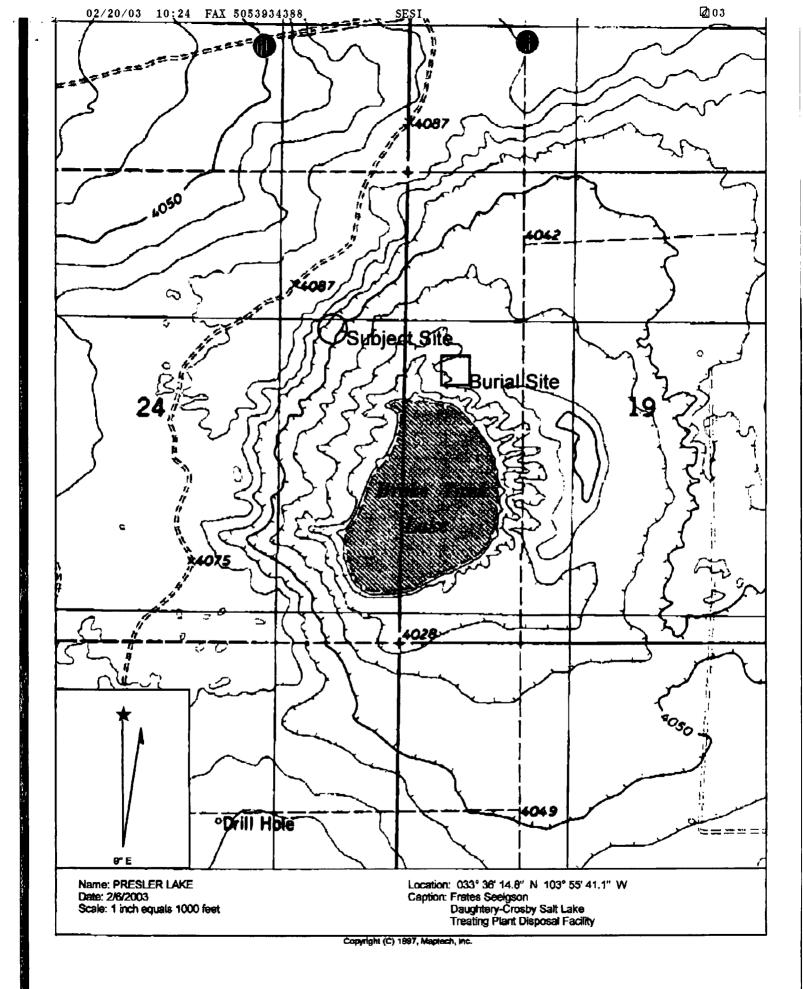
Safety & Environmental Solutions, Inc.

Send to: NMOCD	From: Jerri Læ
Attention: Martyne Kieling	Date: 2-20-03
Office Location:	Office Location:
Fax Number: 505-476-3462	Phone Number:

- 🛛 Urgent
- Reply ASAP Reply ASAP Rease comment Please review
- G For your information

Total pages, including cover: 3

Comments:



STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

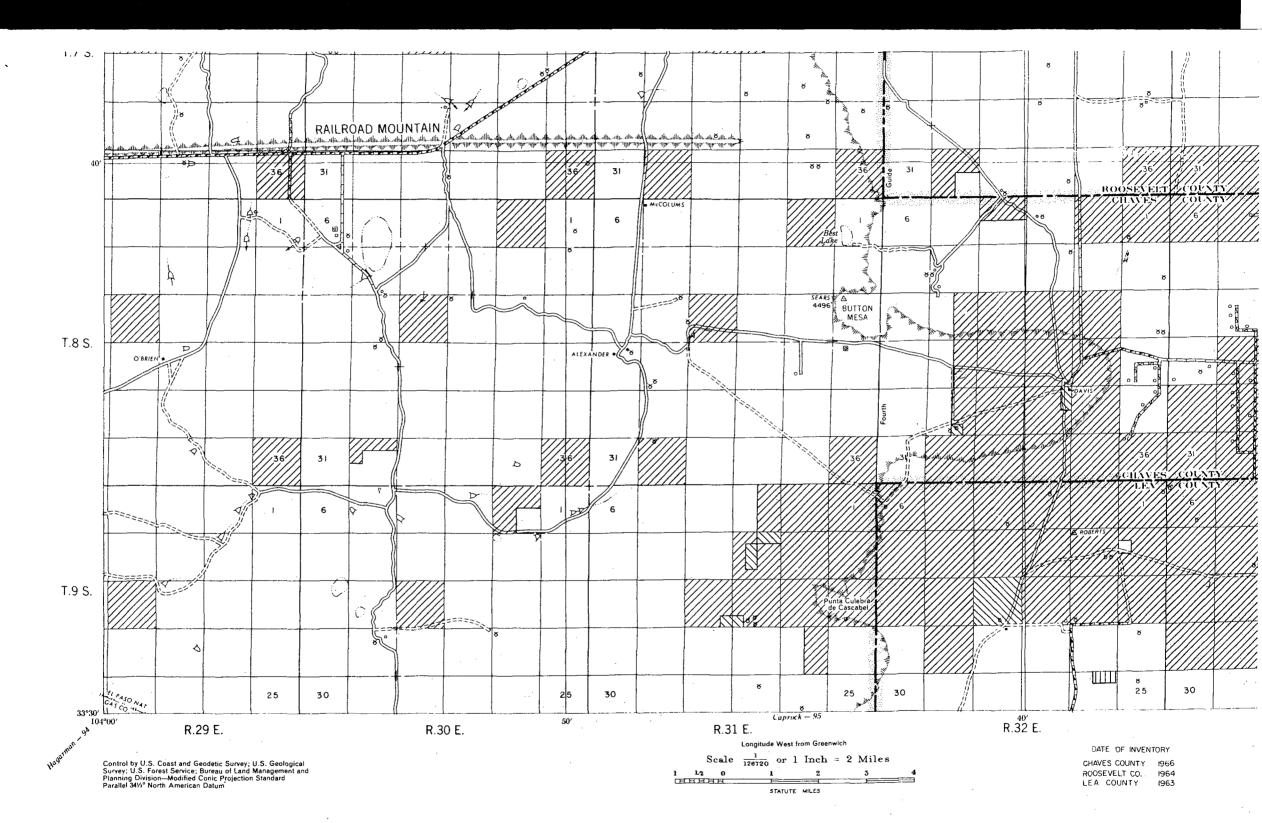
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STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

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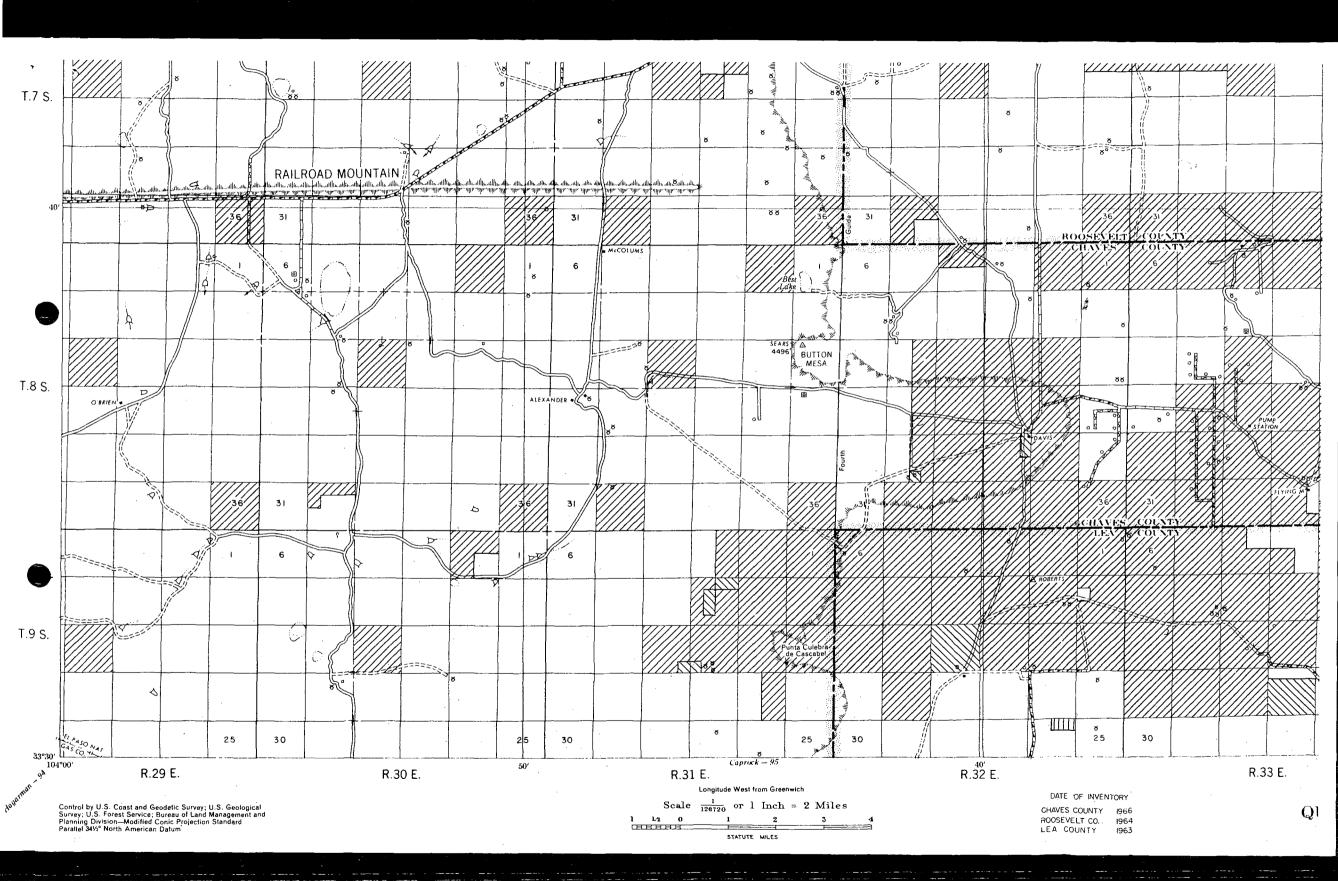
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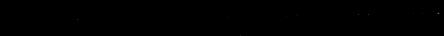
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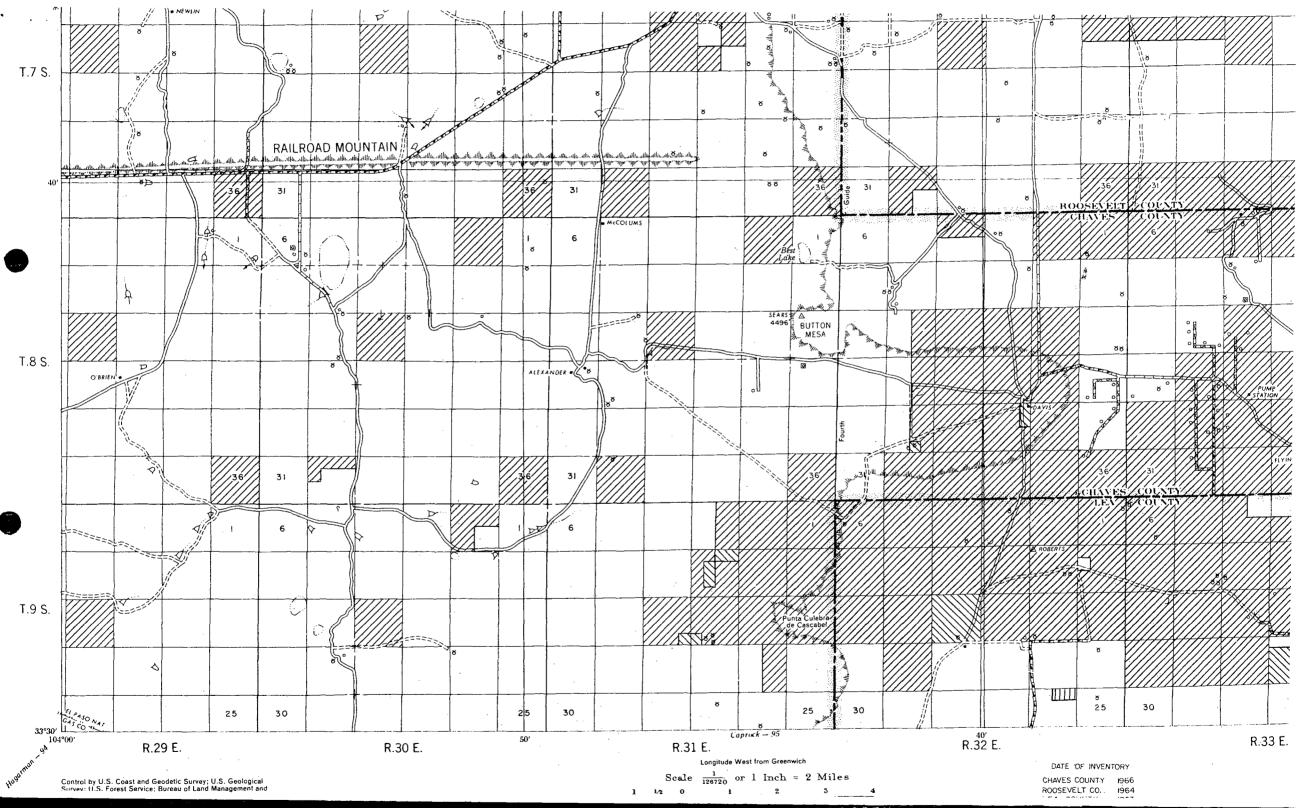
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NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

January 31, 2003

Lori Wrotenbery Director Oil Conservation Division

Mr. Frates S. Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

RE: Remediation / Cleanup Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico

Dear Mr. Seeligson:

The New Mexico Oil Conservation Division (OCD) has received the Remediation and Cleanup Work Plan dated January 10, 2003 for the Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility. The OCD hereby approves of the remediation and cleanup plan prepared by Safety & Environmental Solutions, Inc. with the following conditions.

- 1. The landowner of record at the site must be notified and written permission must be received regarding the work outlined in the Remediation and Cleanup Work Plan.
- 2. A topographic map showing the disposal trench location that was discussed at the December 2002 site inspection must be included as part of the Work Plan.
- 3. The analytical results will be made available to the OCD as the work progresses.
- 4. The OCD Santa Fe and Artesia District offices must be notified within 48 hours of beginning the site work, within 48 hours of beginning trenching and with in 48 hours of covering and backfilling the disposal trench.
- 5. A final report will be submitted to the OCD Santa Fe office and a copy to the Artesia District office upon completion of the project. The report must include a detailed description of the work that was performed and must include all analytical results delineating nature and extent along with maps locating any and all remaining waste that is left or disposed of on site. The report should also describe where the flow lines and tanks were disposed or recycled.

Frates Seeligson Page 2 January 31, 2003

Please be advised that this approval does not relieve Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility of liability should their operation result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility of responsibility for compliance with other federal, state or local regulations.

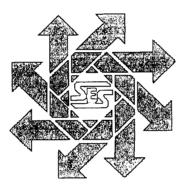
If there are any questions, please contact me at (505) 476-3488.

Sincerely

Martyne J. Kieling Environmental Geologist

Xc: Artesia OCD Safety & Environmental Solutions, Inc., 703 E. Clinton Suite 102, Hobbs, NM 88240 Daughtery – Crosby Salt Lake Treating Plant and Disposal Facility Remediation/Cleanup Work Plan Section 19, Township 8S, Range 30E Section 24, Township 8S, Range 30E Section 19, Township 8S, Range 29E Chaves County, New Mexico

January 10, 2003



Prepared for:

Mr. Frates S. Seeligson 4040 Broadway Suite 510 San Antonio, Texas 78209

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (505) 397-0510

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Vertical and Horizontal Extent of Contamination	1
Groundwater	1
Action Plan	1
Figures	3

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I. Purpose

The purpose of this work plan is to propose a plan for the cleanup of the area identified as the Daughtery – Crosby Salt Lake Treating Plant and Disposal Facility in the letter from the New Mexico Oil Conservation Division (NMOCD) to Mr. Frates S. Seeligson dated October 22, 2002. The subject area is located in Section 19, Township 8S, Range 30E, Section 24, Township 8S, Range 30E, and Section 19, Township 8S, Range 29E, in Chaves County, New Mexico. The site is situated on the White Lake Ranch privately owned by Mr. Kent Gable. The site was an NMOCD approved treating and reclaiming facility operated from the late 1970s to the late 1980s. This plan will allow closure in a manner that will protect the population, environment and groundwater of the area surrounding the subject location. (Figure 1)

II. Background

The subject site was used as a water treating and oil reclaiming facility in the past. The site is currently abandoned. Two abandoned tanks and many feet of associated flowlines are still on-site.

III. Contaminant and Size of Area

The suspected contaminant is crude oil and produced water associated with the treating and reclaiming facility. The crude oil and produced water is considered exempt oilfield waste. No evidence of other contaminants was observed.

IV. Vertical and Horizontal Extent of Contamination

A vertical and horizontal extent investigation has not been performed at this site. The only area requiring a vertical and horizontal extent investigation is the process area.

V. Groundwater

There is no protectable groundwater in the area according to the database provided by the New Mexico State Engineer's Office .

VI. Action Plan

The above referenced letter requires that the following areas be addressed at the subject site: Process Area, Flow Lines, Above Ground Tanks, Crosby Salt Lake and Area between Process Area and Crosby Lake.

The action plan for the closure of each area is detailed below.

Process Area

This area will be delineated for the vertical and horizontal extent of contamination. We plan to install three to four boreholes in the area from which samples will be taken from the appropriate depths and sent to a laboratory for analysis. The results will be documented in the closure report.

In addition, a cap of caliche material will be placed over this area. There will be no soil excavation or removal in this area.

Flow Lines

All flowlines left in the area that were associated with this facility will be cut up, and taken to a local landfill for proper disposal.

Above Ground Tanks

The two above ground tanks at the site will be removed.

Crosby Salt Lake

The hydrocarbon material at the lake will be excavated and disposed of onsite at the location near the lake agreed upon by the NMOCD at the last inspection in December 2002. A disposal trench will be excavated at that location and the contaminated soils placed in the trench. A 3' to 4' cap of native soil with a high clay content from the surrounding area will be place on top of the filled disposal trench.

SESI will take samples of the soil immediately under the material that is to be removed at several points around the area. These samples will be used to document the level of TPH under the material. No specific TPH level must be attained in this area.

Area between Process Area and Crosby Lake

This area contains degraded hydrocarbon contamination along two "run" areas. This area will be "disced" in place. The area will be worked in a manner to avoid future erosion of the area. No vertical or horizontal investigation will be performed in this area. No specific level of TPH must be attained in this area.

After completion of the project, the appropriate reports will be filed with the NMOCD in the closure report.

Figure 1 Vicinity Map



3737 Broadway - #210 San_Antonio, TX_78209

Phone .. 10-826-5645 Fax 210-826-5689

RECEIVED

DEC 0 2 2002 Environmental Bureau Oil Conservation Division

November 26, 2002

Ms. Martyne J. Kieling, Environmental Geologist New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility Section 19, T 8 S, R 30E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico National Surety Corporation, Bond No. 11132683654

Dear Martyne:

Just to follow up on the progress of the clean up of the Daughtery-Crosby Salt Lake Treating Plant and Disposal Facility, I just returned from Roswell where I had a meeting with both Bob Allen and Larry Gandy. I am awaiting their estimates on the cost of the cleanup and will contract one of the two once the information is at hand.

I hope this meets with your approval. Happy Thanksgiving.

Sincorely,

Frates Seeligson, Jr.



RECEIVED



NOV 3 1 2002 Environmental Bureau Oil Conservation Division P.O. Box 1613 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 505/397-0510 Fax 505/393-4388 www.sesi-nm.com

Safety & Environmental Solutions, Inc.

November 8, 2002

Mrs. Martyne Kieling Environmental Geologist Oil Conservation Division P.O. Box 6429 Santa Fe, NM 87504 RECEIVED

NOV 1 3 2002 Environmental Bureau Oil Conservation Division

Dear Martyne:

Safety & Environmental Solutions, Inc. (SESI) has been retained by Mr. Frates Seeligson of San Antonio, Texas to perform assessment and remedial services at the Daughtery-Crosby Salt Lake Treating Plant and disposal facility. Mr. Seeligson is unable to travel to New Mexico until November 25, 2002 when we plan to meet at the site in order to finalize plans to comply with your letter of October 22, 2002.

In your letter you required a response by November 27, 2002; however, I would like to request an extension of time for that request to December 27, 2002. This extension of time will allow us adequate time to perform the assessment services and formulate an appropriate remediation plan.

Thank you for your consideration in this matter. If I may answer any questions of be of further service, please call me.

Sincerely,

Bob Allen

Bob Allen CHMM, REM, CET, CES President

BA/jra



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

October 22, 2002

<u>CERTIFIED MAIL</u> <u>RETURN RECEIPT NO. 7001-1940-0004-3929-8140</u>

Mr. Frates S. Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

RE: Daughtery - Crosby Salt Lake Treating Plant and Disposal Facility Inspection Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico National Surety Corporation, Bond No.11132683654

Dear Mr. Seeligson:

The New Mexico Oil Conservation Division (OCD), inspected the Daughtery - Crosby Salt Lake treating plant and disposal facility located in the Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico, on June 3, 2002. The OCD inspection indicated that the facility requires some additional remediation. Below is a list of items that must be addressed prior to the OCD closing the site and returning the surety bond No.11132683654 for \$25,000 held by the National Surety Corporation. Please review Attachment 1 that contains photos taken during the inspection.

1. <u>Process Area</u>:

Petroleum contaminated soil is still evident at the processing area on top of the hill (see photo 1).

Contaminated soils must be either excavated and removed to an OCD approved disposal facility or be further remediated on site. Please refer to the enclosed "Unlined Surface Impoundment Closure Guidelines" for remediation and sampling guidance. The soil samples must be analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and 'xylene (BTEX). Remediation levels are based on depth to groundwater, proximity to water wells, and proximity to surface water.

Upon approval of final remediation the process area must be reseeded with a native seed mix.

Frates S. Seeligson October 22, 2002 Page 2

2. <u>Flow lines</u>:

Flow lines are still in place down the slope from the process area toward Crosby Salt Lake (see photo 5)

All flow lines associated with the treating plant and disposal operation must be recycled or disposed of at an OCD approved facility.

3. <u>Above Ground Tanks</u>:

Two of the former above ground tanks from the treating plant along with the catwalk (photo 7 & 8) have been moved off site to a location approximately one half mile west of the facility process area (see photo 6).

Any oil or BS&W material contained within these tanks must be hauled to an OCD approved waste management facility. Please supply written documentation that the current landowner at this location has taken possession of the tanks. If this is not the case the tanks and catwalk must either be recycled or disposed of at an OCD approved facility.

4. <u>Crosby Salt Lake</u>:

The cleanup activities in 1988 removed petroleum-contaminated soils from the lakebed and shoreline and placed the contaminated material along the upper banks of the lake. These contaminated soil piles are now weeping hydrocarbons that are running back down toward the lake playa (see photo 2, 3 and 4). Hydrocarbons migrating toward Crosby Salt Lake present a potential hazard to migratory birds.

Contaminated soils must be either excavated and removed to an OCD approved disposal facility or be further remediated on site. Please refer to the enclosed "Unlined Surface Impoundment Closure Guidelines" for remediation and sampling guidance. The soil samples must be analyzed for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX). Remediation levels for this location are based on depth to groundwater, proximity to water wells, and proximity to surface water.

Please provide the OCD with a remediation plan for the Daughtery/Crosby Salt Lake treating plant and disposal facility. The remediation plan must address the above items and must include a timetable for beginning and completion of the project. A response is required by November 27, 2002.

The National Surety Corporation Bond No. 11132683654 for \$25,000 will remain in full force and affect until such time as the OCD has approved the remediation and closed the facility. If you have any questions please do not hesitate to contact me at (505) 476-3488.

Frates S. Seeligson October 22, 2002 Page 3

Sincerely, Martyne J. Kieling

Environmental Geologist

Attachments

xc: Artesia OCD Office

:

Shannon Dom SM1A25, Fireman's Fund Insurance Company, 777 San Marin Drive, Navato, CA 94998

9

Attachment 1 Daughtery -Crosby Salt Lake Treating Plant Inspection June 3, 2002



Photo1. Contaminated soils at the former location of the treating plant.



Photo 2. Contaminated soils that were removed from Crosby Salt Lake in 1988 and piled along the edge of the lake.



Photo 4. Contaminated soil along the edge of the saltpan of Crosby Salt Lake. Hydrocarbons are weeping from the material and flowing back toward the lakebed.



Photo 5. Flow lines that extend from the top of the hill down to the lake.



Photo 3. Contaminated soils that were removed from Crosby Salt Lake in 1988 and piled along the edge of the lake.



Photo 6. Two tanks and one catwalk from the treating plant that have been moved west approximately ½ mile.

Page 1

Attachment 1 Daughtery -Crosby Salt Lake Treating Plant

a,



Photo 7. For Reference: Tanks at the facility in 08-27-1997



Photo 8. For Reference: Photo of tanks at the facility in 08-27-1997

Page 2

Attachment 1 Daughtery -Crosby Salt Lake Treating Plant Inspection June 3, 2002



Photo1. Contaminated soils at the former location of the treating plant.



Photo 2. Contaminated soils that were removed from Crosby Salt Lake in 1988 and piled along the edge of the lake.



Photo 4. Contaminated soil along the edge of the saltpan of Crosby Salt Lake. Hydrocarbons are weeping from the material and flowing back toward the lakebed.



Photo 5. Flow lines that extend from the top of the hill down to the lake.



Photo 3. Contaminated soils that were removed from Crosby Salt Lake in 1988 and piled along the edge of the lake.



Photo 6. Two tanks and one catwalk from the treating plant that have been moved west approximately $\frac{1}{2}$ mile.

Page 1

Kieling, Martyne

From: Sent: To: Subject: Stubblefield, Mike Tuesday, June 04, 2002 10:00 AM Kieling, Martyne INSPECTION TRIP 6/3/2002 CHAVES COUNTY CROSBY SALT LAKE

MARTYNE,

HOPE YOU ARE FEELING WELL TODAY. HERE ARE PHOTO'S OF MY INSPECTION WITH MYSELF AND FRATES SEELIGSON JR. TAKEN AT THE OLD CROSBY SALT LAKE TREATING PLANT. PHOTO 003 TREATING PLANT SITE LOOKING FROM THE SOUTH.

PHOTO 006 HISTORIC HYDROCARBON SPILL REMOVED FROM THE LAKE PLAYAS TO THE SAND HILLS DUE EAST OF THE CROSBY BRINE LAKE.

PHOTO 007 HISTORIC HYDROCARBON SPILL REMOVED FROM THE LAKE PLAYAS TO THE SAND HILLS DUE EAST OF THE CROSBY BRINE LAKE.

PHOTO 011 HISTORIC HYDROCARBON SPILL AT POINT OF ENTRY FROM TREATING PLANT TO CROSBY LAKE PLAYAS.

PHOTO 014 OLD FLOWLINE LEFT IN PLACE BETWEEN TREATING PLANT AND LAKE PLAYAS. PHOTO 005 STOCK TANKS REMOVED FROM TREATING PLANT AREA TO PASTURE EST. .4 MILE WEST OF OLD TREATING PLANT SITE.

PHOTO 006 FLOW LINES FROM TREATING PLANT REMOVED TO PASTURE LAND EST. .4 MILE WEST OF OLD TREATING PLANT SITE.

MIKE S.















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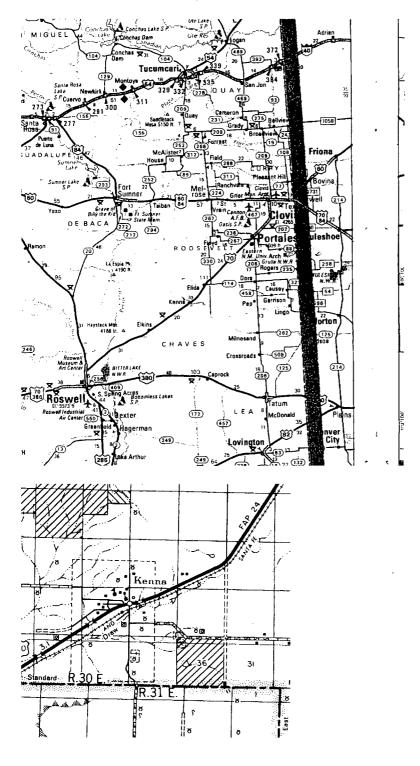
Frates, here are the directions that I promised.

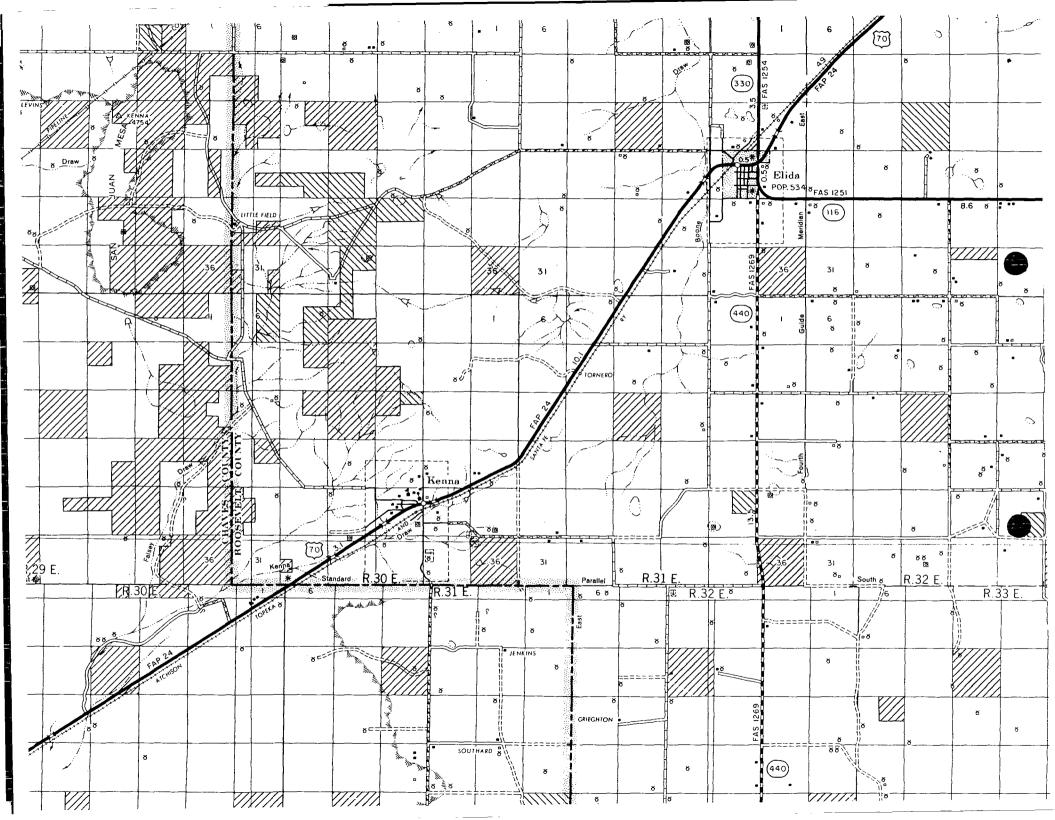
Lubbock, TX to Kenna, NM is approximately 152 miles.

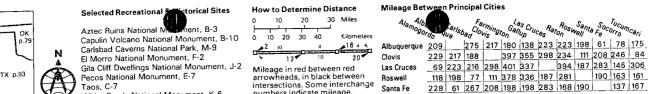
Find Portales, NM. Go 24 miles West on US 70 to Elida, then another 10 miles west to Kenna (a wide spot in the road, so I am told).

I will meet you next to the Railroad tracks, on the south side of US 70, wherever the main turn off is for Kenna.

I will be driving a White Ford Expedition with NM Oil Conservation Division Labels on the side. I will have will have a cell phone with me 1-505-660-1067. **MEET AT 10:00 am on June 3, 2002**

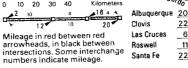






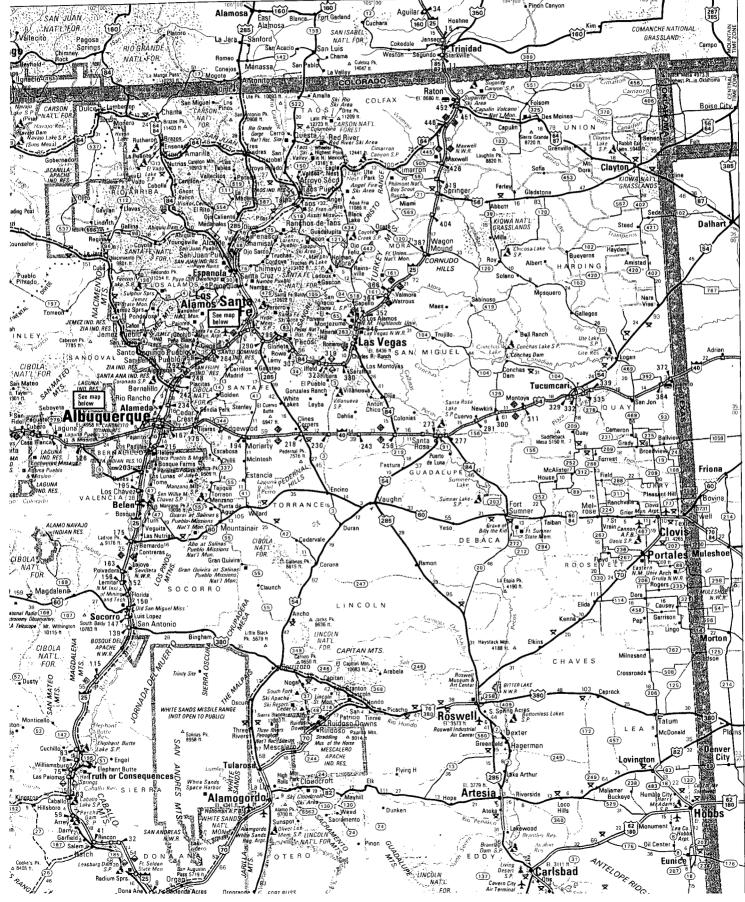


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STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Telephone	_Personal	Time	2:55 pm	Date	1-23-02
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STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Leftnessy Leftnessy _____Telephone _____Personal Time 12:27 Date 10-6-00 Returnd Call 10:15 10 - 11 - 00 **Originating Party** Other Parties Kielin Franks Seelisson Jr. Mal 210-861 - 4881 Cell phone realm Plant Final Insocition Subject Daugh what was (Iwill read Something in asto Done wr. and we Discussion Meet at 10:00 in Rosuell November reso Conclusions or Agreements_ Signed That My Distribution

STATE OF NEW MEXICO ENERGY MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

4:01 Date August 3 1st 2000 Time 🏟 Telephone Personal of 5 th 2000 Called Back **Originating Party** Other Parties Fratis Soul 1- SOn Martine Vielin Jr. 826-5645 Jex 21 White lake Ranch Subject Dayin tary me f chi Discussion \mathcal{O} ю urh. Dor Balk Call 111 in 6 twD. 125 61+6 Conclusions or Agreements Signed That the K Distribution

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FRATES SLICK SEELIGSON, JR. 4040 Broadway, Suite #510 San Antonio, Texas 78209 210-826-5645

January 20, 1999

Ms. Martyne J. Kieling New Mexico Energy, Minerals & Natural Resources Department Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

RE: Crosby Salt Lake Treating Plant Inspection Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; And Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico

Dear Ms. Kieling:

Pursuant to your letter dated November 20, 1998 and our phone conversation on January 19, 1999, Crosby Salt Lake intends to make all necessary corrections to the treating plant. The recommendations put forth in the OCD's November letter shall be the guidelines that we follow.

Crosby Salt Lake has already contacted Mr. A.L. Daugherty as a possible site restoration manager and the present landowner, Mr. Kent Gable, regarding the use of heavy equipment. In addition, Mr. Dirk Jones, attorney-at-law, was contacted for advice regarding environmental consultants. Furthermore, I myself plan to travel to Roswell, in hopes of expediting the operation.

Regarding a timetable for completion of each correction, I can only say as soon as possible. Having no prior experience with cleaning up oil field sites, any date of completion would be mere speculation on my part. However, what I propose to do is to maintain communication with the OCD through you, updating the progress. I hope this meets with your approval.

If you have any questions or concerns please feel free to phone at (210) 826-5645 ext. 14.

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Sincerely,

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Frates Seeligson, Jr.

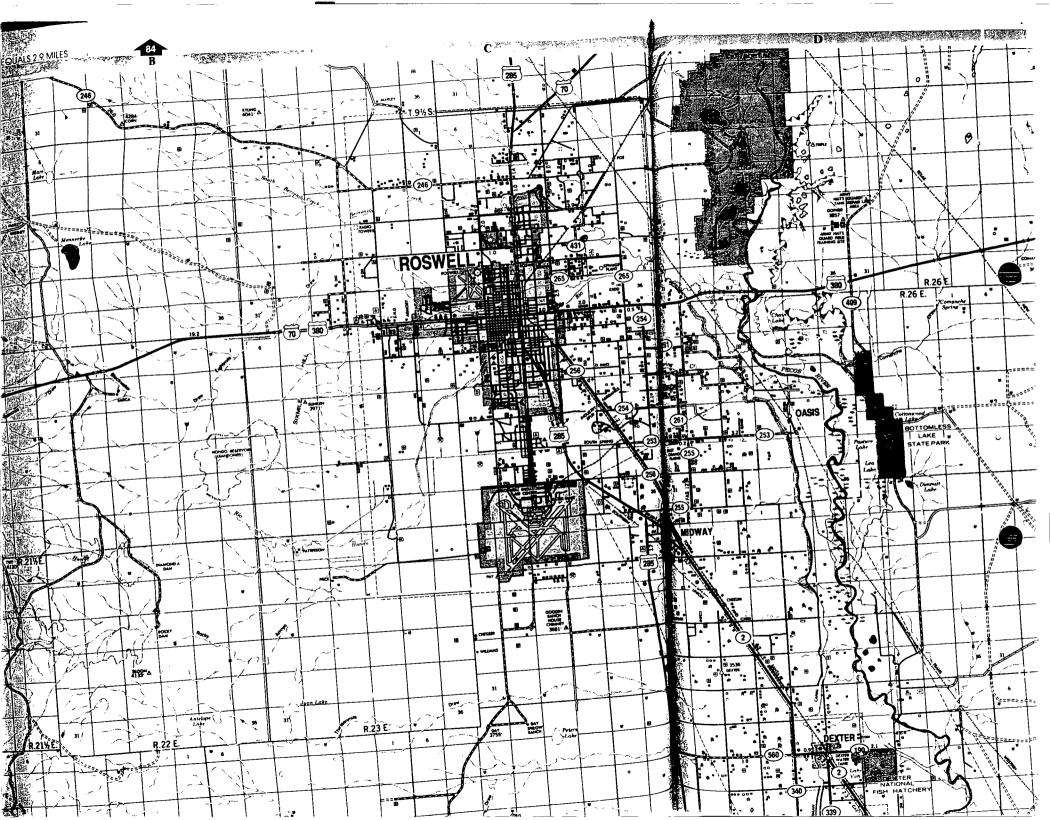
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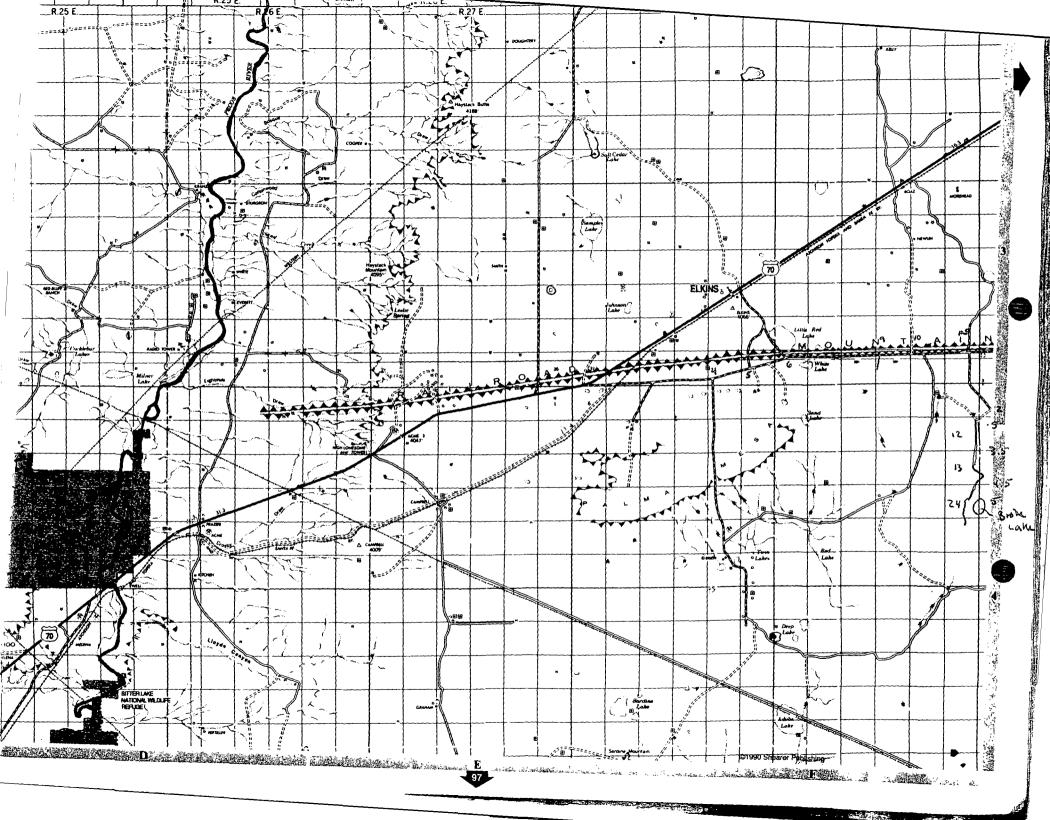
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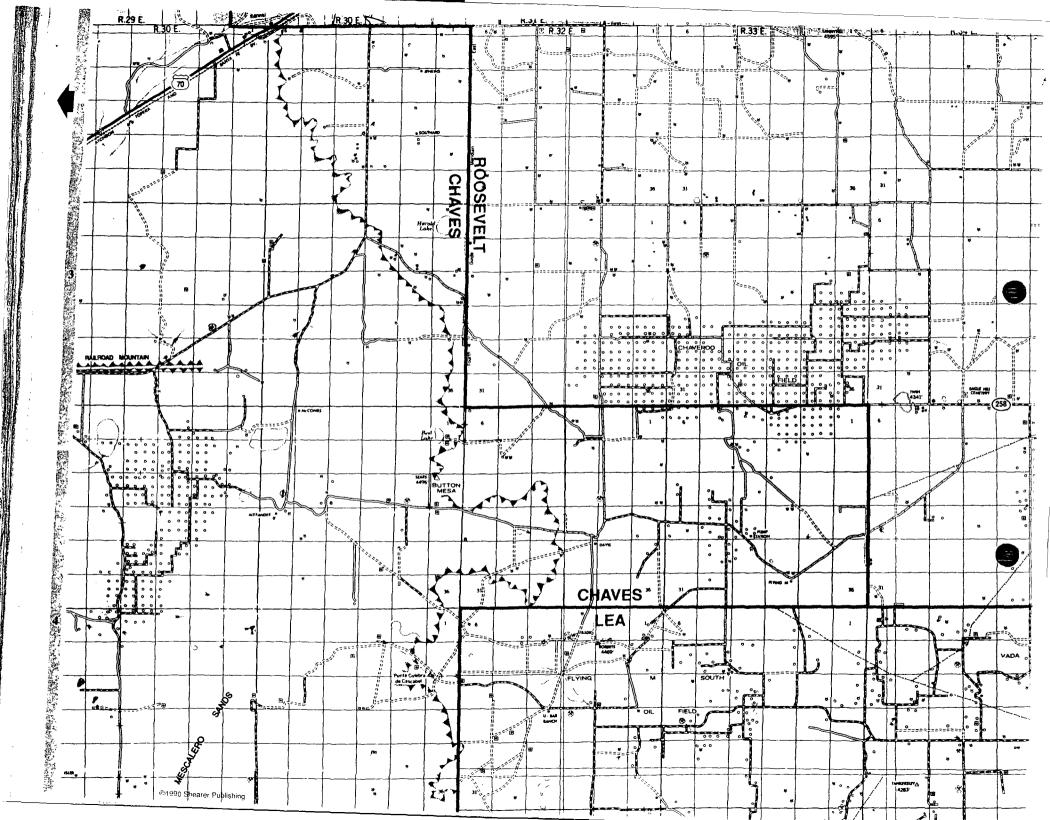
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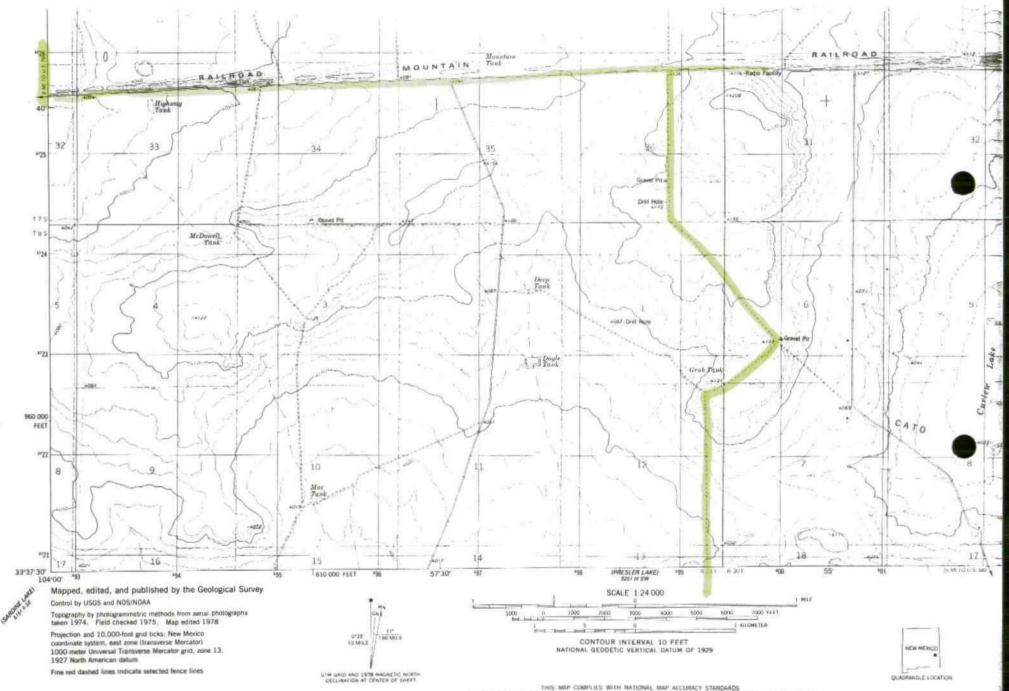
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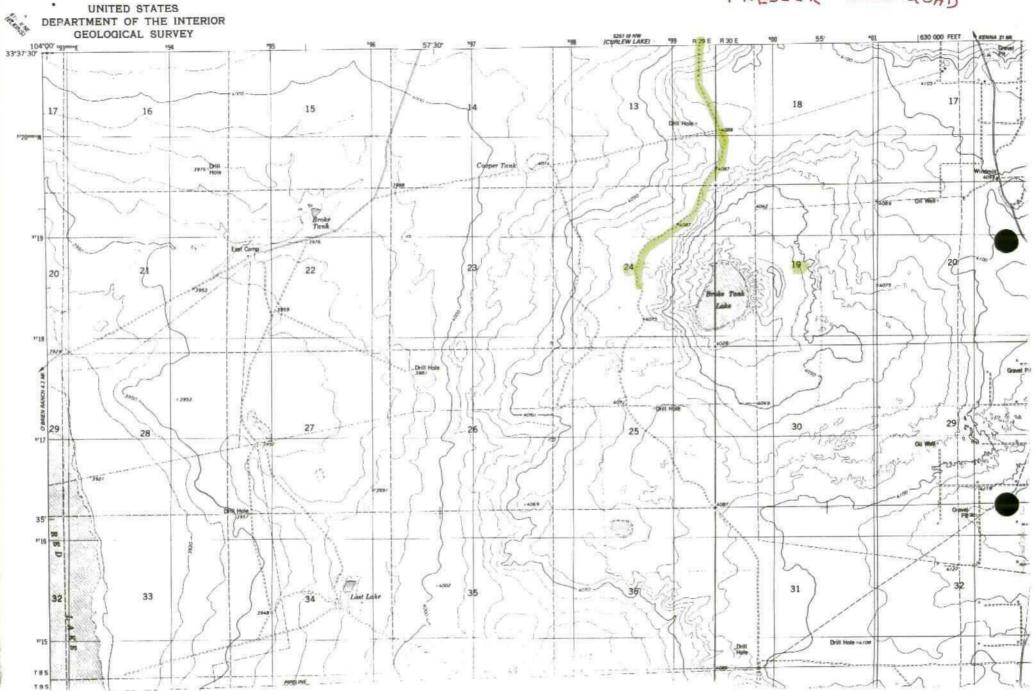


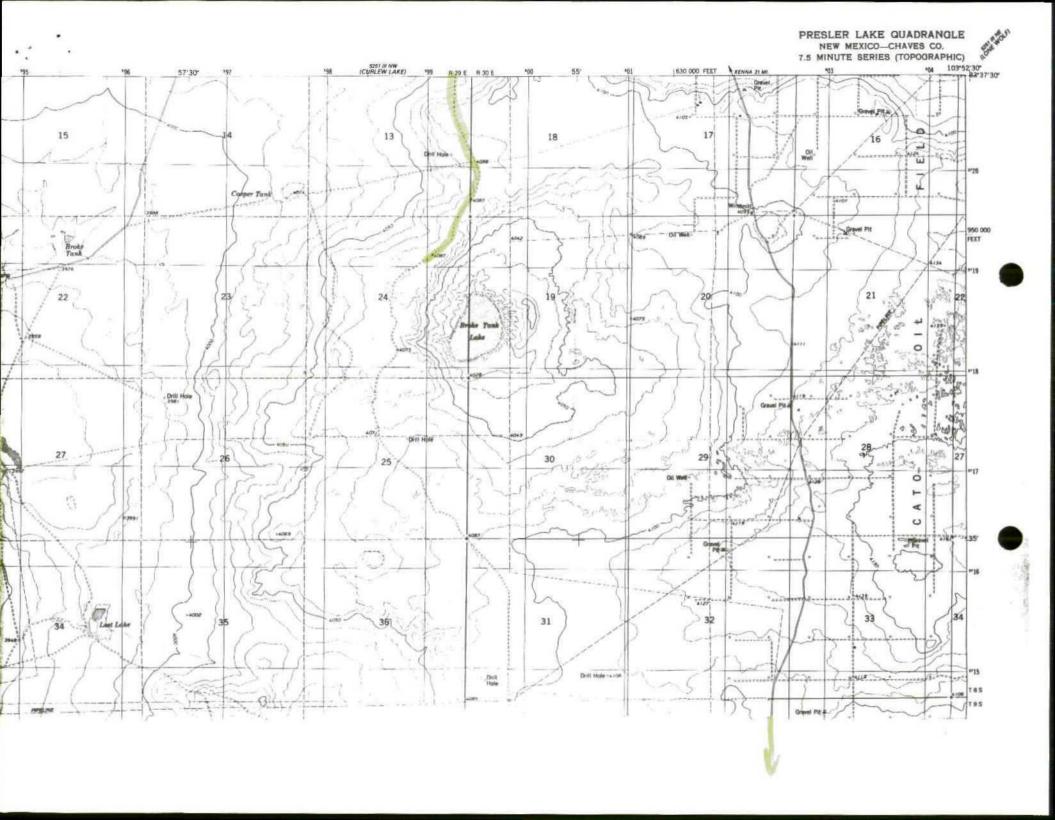
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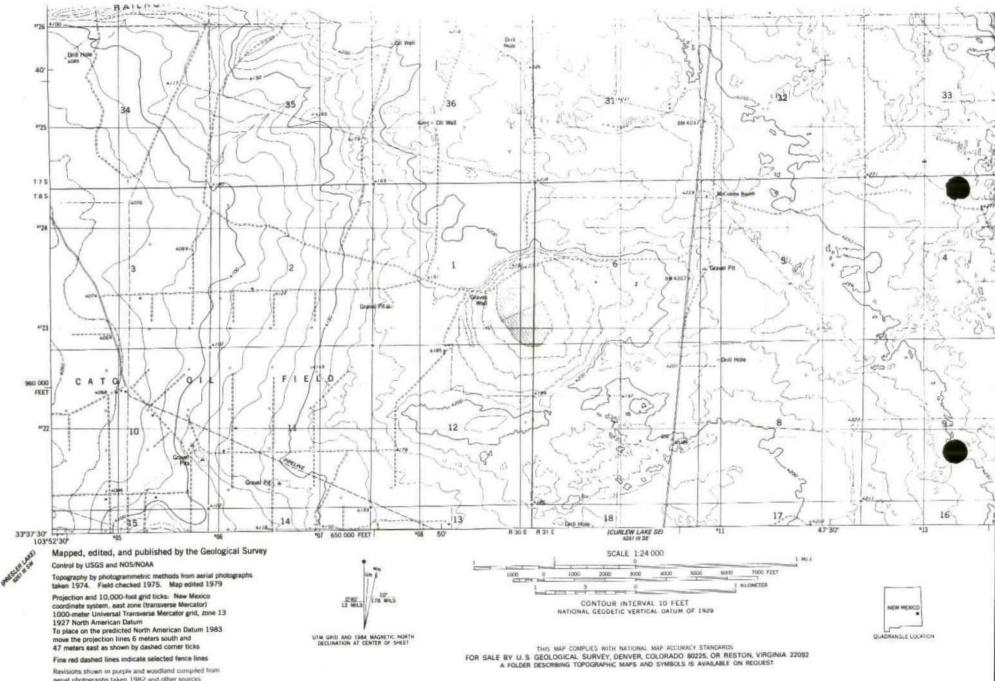
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

PRESLER LAKE QUAD





LONE WOLF QUAD



aerual photographs taken 1982 and other sources This information nut field checked. Map edited 1984



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

November 20, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-488

Mr. Frates Seeligson 4040 Broadway Suite 510 San Antonio, TX 78209

RE: Crosby Salt Lake Treating Plant Inspection Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico

Dear Mr. Seeligson:

The New Mexico Oil Conservation Division (OCD), inspected the Crosby Salt Lake treating plant located in the Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico, on August 8, 1997 and again on May 18, 1998.

The OCD inspection, current file review and conversations with yourself and Mr. A.L. Daugherty indicate that the facility is to be closed however there are some permit deficiencies regarding closure which must be addressed.

The following is a list the permit closure deficiencies found at Crosby Salt Lake during the inspection. Attachment 1 contains photographs taken during the inspection on August 8, 1997 and again on May 18, 1998. Crosby Salt Lake shall provide the OCD with a detailed description of how the corrections will be made and a time table of when each of the corrections will be completed. A response is required by Crosby Salt Lake to these deficiencies by January 20, 1999.

1. <u>Process Area</u>:

There was evidence of leaks and deliberate spills around most of the above grade tanks (see pictures 1, 2, 3, 5, 6, 7, 10, 11, and 15 dated 8/8/97 and picture 1 dated 5/18/98). Pictures 1, 2 and 11 show that the small tank was jacked up and the drain port was open and oil was allowed to flow out onto the ground. Some of the spills and the tank bottom dump areas have been disked to allow for bioremediation to begin (pictures 2 and 4 dated 5/18/98).

The surface spill, tank area, and tank bottom dump area (pictures 12 and 13 dated 8/8/98) soils shall either be removed to an OCD approved disposal facility or be further remediated on site. The closure proposal shall include final testing of the soils for total

petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX). The proposal shall also include the reseeding the site with native grasses.

2. <u>Spill Reporting</u>:

All spills/releases shall be reported pursuant to OCD Rule 116. Enclosed please find a spill report form C-141 to be filled out and filed with the appropriate OCD District office.

3. <u>Open Top Tanks and Pits</u>:

To protect migratory birds, all tanks exceeding 16 feet in diameter, and exposed pits and ponds shall be screened, netted or covered unless rendered non hazardous (Order R-8952, Rule 711).

The small open toped tank was not netted. There is a large bird nest on the catwalk between the two tanks (see pictures 1 and 15 dated 8/8/97). Cattle tracks, five dead birds and a dead rodent were found in the spilled oil surrounding the tanks (see pictures 3, 4, 5, and 6 dated 8/8/97).

4. <u>Above Ground Tanks</u>:

If any oil or BS&W remains within the tanks the material shall be hauled to an OCD approved 711 waste management facility. All empty tanks shall be removed from the facility location.

5. <u>Trash and Potentially Hazardous Materials</u>:

All trash and potentially hazardous materials shall be properly disposed of. The contaminated soil at the facility area shall be remediated on sight and/or removed to an OCD approved 711 waste management facility (see picture 1, 2, 3, 4, 5, 6, 7, 10, 11, 12, 13, and 15 dated 8/8/97). The tanks, abandoned flow lines to Crosby Salt Lake (Picture 4 dated 5/18/98), piping, trash and equipment should be recycled or properly disposed of.

6. <u>Soil Spreading, Disking and Lift Thickness</u>:

All contaminated soils to be landfarmed at the facility will be spread on the surface in six inch lifts or less and disked a minimum of one time every two weeks (biweekly) to enhance biodegradation of contaminants.

7. <u>Historical Facility Spills:</u>

The historical spills that occurred along the flow line to Crosby Salt Lake are still evident (see pictures 8 and 9 dated 8/8/97 and picture 4 dated 5/18/98). The contaminated soil along the flow line route shall be sampled at several intervals and tested for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylene (BTEX). Upon review of the analytical results the OCD will determine if any soil remediation is required.

If you have any questions please do not hesitate to contact me at (505) 827-7153.

Sincerely,

Martym gikly -

Martyne J. Kieling Environmental Geologist

Attachments

xc: Artesia OCD Office

Hobbs OCD Office

Mr. A.L. Daugherty, 400 Twin Diamond, Roswell, NM 88201

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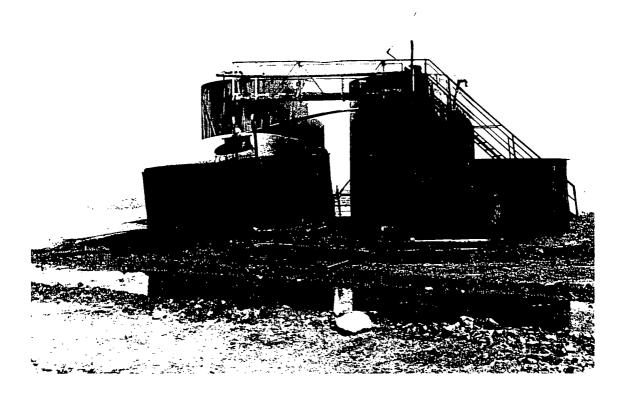


PHOTO NO. 1 DATE: 8/8/97

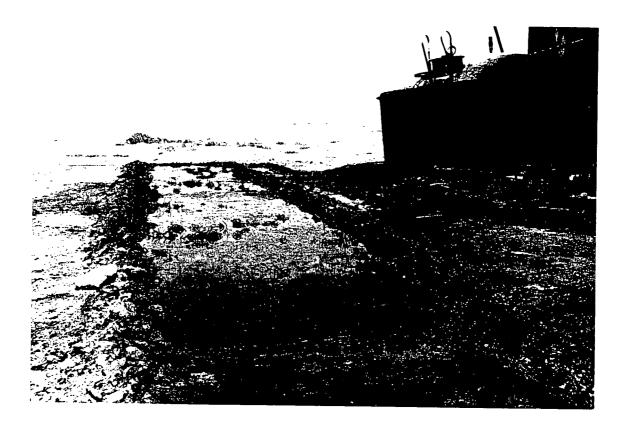


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PHOTO NO. 3 DATE: 8/8/97



PHOTO NO. 4 DATE: 8/8/97

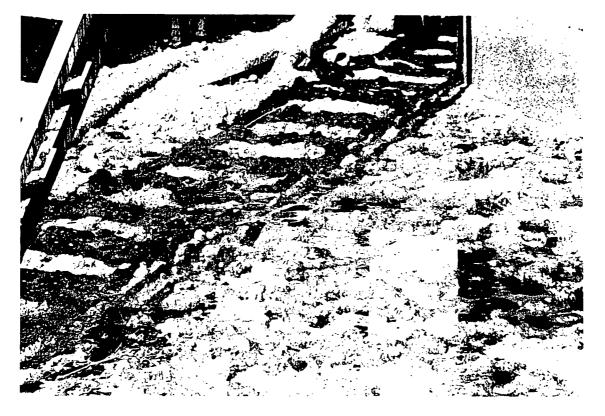
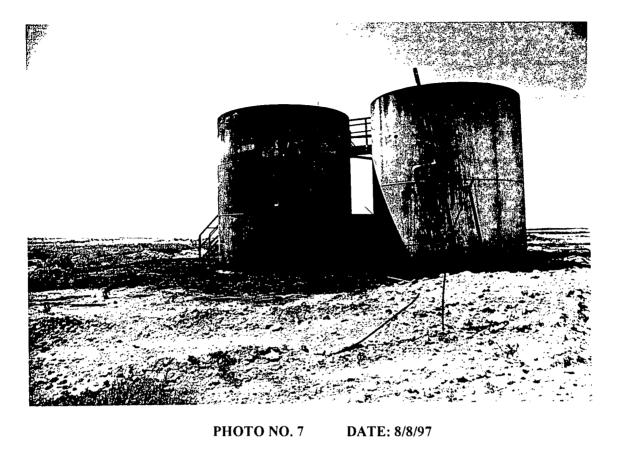


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PHOTO NO. 6 DATE: 8/8/97



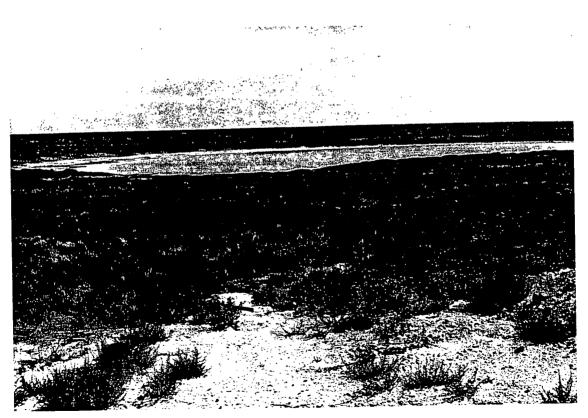
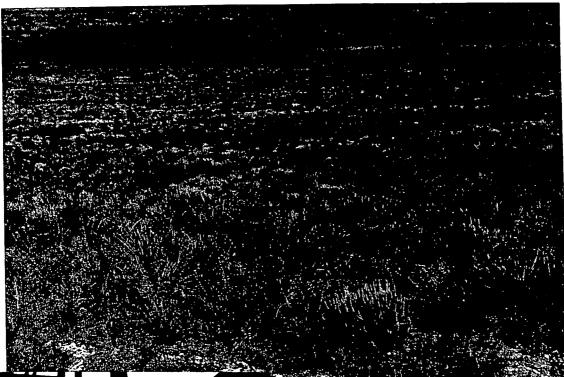


PHOTO NO. 8 DATE: 8/8/97





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PHOTO NO. 10 DATE: 8/8/97





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PHOTO NO. 12 DATE: 8/8/97



PHOTO NO. 13 DATE: 8/8/97



PHOTO NO. 14 DATE: 8/8/97

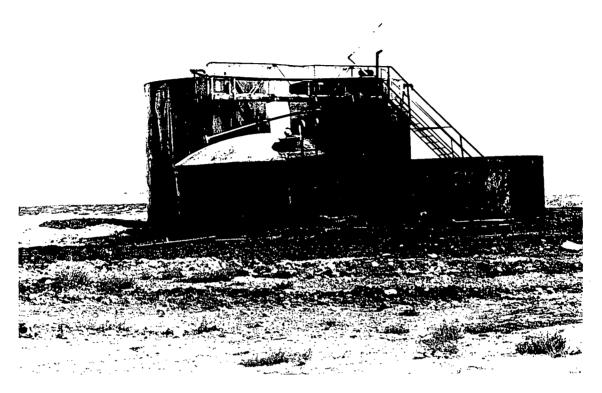


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PHOTO NO. 1 DATE: 5/18/98

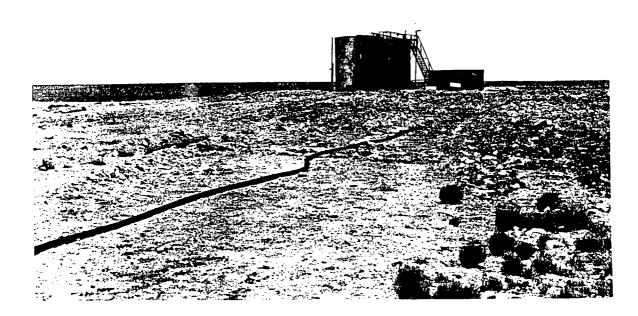


PHOTO NO. 2 DATE: 5/18/98

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CROSBY SALT LAKE, 711 FACILITY INSPECTION (PHOTOS BY OCD)







PHOTO NO. 4 DATE: 5/18/98



Picture 11:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Tank jacked up, open valve, tank contents drained onto ground.



Picture 9:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Former Treating Plant spills/ discharge pathway to Playa, Looking Southeast Oil contaminated soil center of photo in dark green plants.

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Picture 12:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking Southeast Tank bottoms spread on ground North northwest of Tank area



Picture 13:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking Southeast Tank bottoms spread on ground Northwest of Tank area -- --



Picture 10:

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A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking south southwest Oil contaminated soil next to Treating Plant Tanks.

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Picture 15:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking Southeast Tank jacked up, valve open, tank contents drained onto ground. Bird nest on catwalk



Picture 14:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking East Brine leak from pipeline.



Picture 1:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking East South East Tank jacked up, valve open, tank contents drained onto ground.



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Sec 19, T & S, R 29 E Sec 19, 785, R 30 E Su 24, T85, R29E Crusby Salt Lake Frates S. Seeligson / AL Drughtery May 18, 1998 OCD Martyne Kicking Royer Anderson AL Drughdoody



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OCD 711 Facility:	A.L. Daugherty, White Lake Disposal
Inspection Date:	August 27, 1997
OCD Personnel:	Martyne Kieling, Santa Fe
	Ray Smith, Artesia
Picture 9:	Former Treating Plant spills/ discharge pathway to Playa, Looking Southeast
	Oil contaminated soil center of photo in dark green plants.

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Picture 6:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Oil contaminated soil next to Treating Plant Tanks, Oily soil dead bird in center of photo.



Picture 5:

A.L. Daugherty, White Lake Disposal
August 27, 1997
Martyne Kieling, Santa Fe
Ray Smith, Artesia
Oil contaminated soil next to Treating Plant Tanks,
Oily soil with hoof prints, large dead bird in center of photo.



Picture 4:

A.L. Daugherty, White Lake Disposal
August 27, 1997
Martyne Kieling, Santa Fe
Ray Smith, Artesia
Oil contaminated soil next to Treating Plant Tanks,
Oily soil with hoof prints, large dead bird in center of photo.



Picture 3:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Oil contaminated soil next to Treating Plant Tanks, Oily soil with hoof prints, dead bird in center of photo, dead rodent bottom right.



OCD 711 Facility: Inspection Date: OCD Personnel:

Picture 2:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking East North East Tank jacked up, valve open, tank contents oil/bottoms/water drained onto ground



OCD 711 Facility: Inspection Date: OCD Personnel:

Picture 7:

A.L. Daugherty, White Lake Disposal August 27, 1997 Martyne Kieling, Santa Fe Ray Smith, Artesia Treating Plant Tanks, Looking Northwest Oil contaminated soil next to Treating Plant Tanks, STATE OF NEW MEXICO OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Time Date Telephone Personal 10-23-98 1:20 Originating Party Other Parties Ugharty - 1867 50c 625 Subject Diamond 8820 IW. Discussion Correspondence COPU WYOD Y Christme Inspution Repor Conclusions or Agreements Signed **Distribution** Martyn



MEMORANDUM OF MEETING OR CONVERSATION

Telephone Personal	Time		ate 4/14/98
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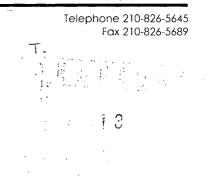
STATE OF NEW MEXICO OIL CONSERVATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

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FRATES SEELIGSON

4040 Broadway - Suite 510 San Antonio, TX 78209



April 9, 1998

Ms. Martyne J. Kieling, Environmental Geologist New Mexico Energy, Minerals & Natural Resources Dept. Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87505

> RE: \$25,000 Bond for Commercial Surface Waste Disposal facility Fireman's Fund Ins. Co., Surety Bond No. 111 3268 3654 Your Letter of 3/30/98

Dear Ms. Kieling:

Once you have a date certain when you wish to visit the Chaves County property, please let me know. We will help set up a meeting with A. L. Daugherty, former foreman of White Lake Ranch. If you wish to contact Mr. Daugherty directly, please call him at 505-625-1867 in Roswell. In addition, I will write the new owner of the ranch notifying him of what we would like to do.

Best regards,

Frates Seelyson.

Frates Seeligson

STATE OF NEW MEXICO

MEMORANDUM OF MEETING OR CONVERSATION

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Time Date Telephone Personal 4/9/98 10:40 Firstenlled 4/3/18 Originating Party Other Parties Ceftnes Suge Martyne Seeliason 210-826-5649 Frates Kichn White 1 nhe Subject Dinnightery Treating Flint 1 ran site Forma Discussion Band Clusiver SIL and socilion Mr. AL Daughtery M Scelinson will Fix of 廿 12 Mai Conu C ~ He will write to The New Land Owners. Sold The Property HUS been I Told Mr Salagion That Twoodd like to Inspect the Site May with a Cumping Representative on Site 3. A week 2 er 124 Conclusions or Agreements For with # Phone 1 1 2000 1-riv Signed Distribution



OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

March 30, 1998

CERTIFIED MAIL RETURN RECEIPT NO. P-326-936-413

Ms. Cindy Ash Fireman's Fund Insurance Companies P.O. Box 2519 Dallas, TX 75221

RE: \$25,000 Bond for Commercial Surface Waste Disposal facility Frates S. Seeligson., Principal Section 19, T 8 S, R 30 E; Section 24, T 8 S, R 29 E; and Section 19, T 8 S, R 29 E, NMPM, Chaves County, New Mexico Fireman's Fund Insurance Co., Surety Bond No. 111 3268 3654

Dear Ms. Ash:

The New Mexico Oil Conservation Division (OCD) received the Fireman's Fund Insurance Company letter on March 23, 1998. The above referenced letter requested that the OCD cancel the Surface Waste Disposal Bond No. 111 3268 3654. Cancellation of the bond is conditional upon compliance with all applicable statutes of the State of New Mexico and all rules, regulations and orders of the OCD, and upon clean-up of the facility site to standards of the OCD.

The Frates S. Seeligson surface waste disposal facility was inspected on August 27, 1997 by OCD personnel. The facility site requires additional clean-up to meet OCD standards. Since the activities/operations giving rise to the needed cleanup have already been conducted the subject bond will remain in full force and effect until the required clean-up is performed and closure of the facility is approved by the OCD.

If you have any questions please call me at (505) 827-7153

Sincerely,

Martyn My

Martyne J. Kieling Environmental Geologist

xc: Artesia District Office Frates S. Seeligson, 4040 Broadway, Suite 510, San Antonio, Texas 78205 STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

<u>MEMORANDUM</u>

BRUCE KING

ANITA LOCKWOOD CABINET SECRETARY POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

SUBJECT: DOCUMENTATION REQUIRED FOR ACCEPTANCE OF WASTE

DATE: APRIL 2, 1993

The Oil Conservation Division (OCD) has issued a number of Rule 711 permits for commercial surface disposal facilities which allow the facilities to accept certain types of wastes. The OCD has not previously listed the documentation that should accompany all waste accepted at these facilities. Attached is a list of the documentation to accompany any waste accepted by an OCD-permitted commercial disposal facility. Listed are the certifications and tests required for the various classifications of waste. Also attached is a list of the oil and gas wastes exempted from EPA "hazardous waste" classification.

This documentation provides protection from hazardous waste regulations for the waste generator, transporter and disposal facility and facilitates OCD oversight. Please note that certain types of non-oilfield wastes can also be accepted by a disposal facility under its OCD Rule 711 permit. The OCD is currently in the process of developing an information form to accompany each load of waste received at a disposal facility. Until that form is finalized, each facility may develop and use its own forms and shall retain these records at the facility.

If you have any questions regarding the technical aspects of the documentation needed, please call Roger Anderson at 505/827-5812.

DOCUMENTATION REQUIRED TO ACCEPT WASTES COMMERCIAL SURFACE DISPOSAL FACILITIES

(April 1, 1993)

- 1. <u>Exempt Oilfield Waste</u>: A "Certification of Waste Status" signed by a corporate official of the waste generator certifying that the wastes are generated from oil and gas exploration and production operations and are exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations.
- 2. <u>Exempt. Non-Oilfield Waste</u>: A "Certification of Waste Status" signed by the New Mexico Environment Department (NMED) or the appropriate regulatory agency for non-oilfield wastes which are exempt from RCRA Subtitle C regulations. Acceptance is on a case-by-case basis only after OCD approval from both Santa Fe and the appropriate district office.
- 3. <u>Non-exempt, Non-hazardous Waste from OCD Permitted Facilities</u>: The analytical results of *Hazardous Waste Characterization. The test for hazardous characteristics for a particular waste may be effective for one year from the date of analysis, if, the subsequent wastes from the same waste stream are accompanied by a statement from a corporate official that there has been no change in the processes employed or the chemicals stored/used at the facility generating the waste. Acceptance is on a case-by-case basis only after OCD approval from both Santa Fe and the appropriate district office.
- 4. <u>Non-Exempt, Non-hazardous, Non-Oilfield Waste</u>: The analytical results of *Hazardous Waste Characterization and a "Certification of Waste Status" certifying the nonhazardous classification of the wastes signed by the NMED or appropriate regulatory agency. Acceptance of waste is on a case-by-case basis only after OCD approval from both Santa Fe and the appropriate district.
- 5. <u>Hazardous Waste</u>: At no time will wastes which are hazardous by either listing or testing be accepted at an OCD permitted disposal facility.

* Includes corrosivity, reactivity, ignitability, and toxic constituents and a certification that no listed hazardous wastes are contained within the wastes. The samples for these analyses and results will be obtained from the wastes prior to removal from the generator's facility and without dilution in accordance with EPA SW-846 sampling procedures.

NOTES:

 As of September 25, 1990, any facility disposing of 1.1 tons or more of non-exempt waste per month with benzene as a constituent (e.g. oily liquid or solids, or aromatic wastes) is disposing of hazardous waste if, after testing, benzene levels of liquids, and of liquid leachate from solids are above 0.5 milligrams per liter (equivalent to 500 parts per billion). Benzene is a naturally occurring constituent of crude oil and refined product (especially gasoline), and is also used as a cleaning solvent. (Other types of solvents and chemicals have been subject to hazardous waste rules for several years.)

As of March 29, 1991, facilities disposing of between 0.11 and 1.1 tons of non-exempt waste per month became subject to the same rules. Regulation of such facilities is the responsibility of either the US Environmental Protection Agency or the New Mexico Environment Department (dependent on jurisdiction transfer from USEPA).

The totlowing OCD regulated facilities, especially. <u>may be subject to hazardous waste rules</u> for disposal of wastes and contaminated soils containing penzene:

- Oil and gas service companies having wastes such as vacuum truck, tank, and drum rinsule from trucks, tanks and drums transporting or containing non-exempt waste.
- Crude oil treating plants and crude tank bottom reclaimers using benzene solvent, or liquids containing benzene as cleaning solutions.
- Transportation pipelines and mainline compressor stations generating waste, including waste deposited in transportation pipeline-related pits.

Source: Federal Register, Thursday, March 29, 1990, p.11,798 - 11,877.

- 2. In April, 1991, EPA clarified the status of oil and tank bottom reclamation facilities:
 - A. Those wastes that are derived from the processing by reclaimers of only exempt wastes from primary oil and gas field operations are also exempt from the hazardous waste requirements. For example, wastes generated from the process of recovering crude oil from tank bottoms are exempt because the crude storage tanks are exempt.
 - B. Those reclaimer wastes derived from non-exempt wastes (eg. reclamation of used motor oil, refined product tank bottoms), or that otherwise contain material which are not uniquely associated with or intrinsic to primary exploration and production field operations would not be exempt. An example of such non-exempt wastes would be waste solvent generated from the solvent cleaning of tank trucks that are used to transport oil field tank bottoms. The use of solvent is neither unique nor intrinsic to the production of crude oil.
 - Source: EPA Office of Solid Waste and Emergency Response letter opinion dated April 2, 1991, signed by Don R. Clav. Assistant Administrator.

EPA WASTE CLASSIFICATION O & G EXPLORATION AND PRODUCTION WASTES*

Oil and Natural Gas Exploration and Production Materials and Wastes Exempted by EPA from Consideration as "Hazardous Wastes" (provided non-exempt waste which is or may be "hazardous" has not been added):

- Produced water;
- Drilling fluids;
- Drill cuttings;
- Rigwash;
- Drilling fluids and cuttings from offshore operations disposed of onshore;
- Geothermal production fluids;
- Hydrogen sulfide abatement wastes from geothermal energy production;
- Well completion, treatment, and stimulation fluids;
- Basic sediment and water and other tank bottoms from storage facilities that hold product and exempt waste;
- Accumulated materials such as hydrocarbons, solids, sand, and emulsion from production separators, fluid treating vessels, and production impoundments;
- Pit sludges and contaminated bottoms from storage or disposal of exempt wastes;

. Workover wastes;

- Gas plant dehydration wastes, including glycol-based compounds, glycol filters, filter media, backwash, and molecular sieves;
- Gas plant sweetening wastes for sulfur removal, including amines, amine filters, amine filter media, backwash, precipitated amine sludge, iron sponge, and hydrogen sulfide scrubber liquid and sludge; Cooling tower blowdown:
- . Cooling tower blowdown;

Spent filters, filter media, and backwash (assuming the filter itself is not hazardous and the residue in it is from an exempt waste steam);

Packing fluids;

Produced sand;

Pipe scale, hydrocarbon solids, hydrates, and other deposits removed from piping and equipment prior to transportation; Hydrocarbon-bearing soil;

Pigging wastes from gathering lines;

- . Wastes from subsurface gas storage and retrieval, except for nonexempt wastes listed below;
- Constituents removed from produced water before it is injected or otherwise disposed of; Liquid hydrocarbons removed from the production stream but not from oil refining;
- . Gases from the production stream, such as hydrogen sulfide and carbon dioxide, and volatilized hydrocarbons;
- Materials ejected from a producing well during the process known as blowdown;
- . Waste crude oil from primary field operations and production;
- . Light organics volatilized from exempt wastes in reserve pits or impoundments or production equipment;
- Liquid and solid wastes generated by crude oil and crude tank bottom reclaimers***.

Materials and Wastes Not Exempted (may be a "hazardous waste" if tests or EPA listing define as "hazardous") **:

- Unused fracturing fluids or acids;
 Gas plant cooling tower cleaning wastes;
- . Painting wastes;
- . Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids;
- . Vacuum truck and drum rinsate from trucks and drums transporting or containing nonexempt waste;
- . Refinery wastes;
 - Liquid and solid wastes generated by refined oil and product tank bottom reclaimers^{***};
- . Used equipment lubrication oils;
- . Waste compressor oil, filters, and blowdown;
- . Used hydraulic fluids;
- . Waste solvents;
- . Waste in transportation pipelinerelated pits;
- . Caustic or acid cleaners;
- . Boiler cleaning wastes;
- . Boiler refractory bricks;
- . Boiler scrubber fluids, sludges, and ash;
- . Incinerator ash;
- Laboratory wastes;
- . Sanitary wastes;
- . Pesticide wastes;
- . Radioactive tracer wastes;
- Drums, insulation, and miscellaneous solids.

Source: Federal Register, Wednesday, July 6, 1988, p.25,446 - 25,459.

^{**} See important note on 1990 disposal restrictions for non-exempt waste on reverse.

^{***} See reverse side for explanation of oil and tank bottom reclaimer listings.

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS

March 1, 1990

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Mr. Frates S. Seeligson 1604 NBC Building San Antonio, Texas 78205

> Re: \$25,000 Bond for Commercial Surface Waste Disposal Facilities Frates S. Seeligson, Principal Bond No. 111 3268 3654

Dear Mr. Seeligson:

We have corresponded with you previously requesting a rider to your bond giving the location of your facility as:

Section 19, T-8-S, R-30-E Section 24, T-8-S, R-29-E and Section 19, T-8-S, R-29-E, all in Chaves County, New Mexico.

We have not yet received that rider as requested.

You are hereby directed to file the rider with Diane Richardson, Administrator of the OCD Bond Department, at the letterhead address not later than 3:00 p.m. on March 9, 1990.

If you fail to file the rider as required, you will immediately cease operations at the facility and begin reclamation. Your failure to comply with this directive will result in a civil assessment being made against you, and each day of violation will be considered a separate offense for which a separate assessment will be assessed.

Sincerely, WILLIAM J. LEM# Director WJL/RGS/dr

		ral Resources Departr			Form C-134 Aug. 1, 1989	
DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980	OIL CONSERVA	TION DIVISIO	ON RECI	TION DIVISI	ON	
DISTRICT II P.O. Drawer DD, Anesia, NM 88211-0719	1.0.00	x 2088 xico 87504-208& 8				0
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		Ū			r Division Use (Ooly)
FOR PROTECTION OF M					3, or Rule	711(I)
Operator Name: A.L.	Dougherty	······			<u></u>	
Operator Address: HCR	31 Roswell, M	New Mexico 882	10			
	osby Salt Lake Mately 80 Acres	Loca	ationUt.	Ltr. Sec		29E Rge
Operator requests exception from		et or cover the oit or	tank at the	above-descr	ihed facility	,
	ardous to migratory waterfowl is kept free of oil.	. Describe complete	ely the reaso	on pit is non-	hazardous.	
clea 2) If any oil or hydroca appropriate District	any oil or hydrocarbons an up will begin immedi arbons reach the above-desc t Office of the OCD with 24 ho llowing alternate protective n	ately. Thed facility the ope purs.	erator is requ	-		
CERTIFICATION BY OPERATOR knowledge and belief. Signature	R: I hereby certify that the in	formation given abo Operator		nd complete t Date		
Printed Name A.L. Do	ugherty	Telephone N	o(505)	623-2657		
EOR OIL CONSERVATION DIV	ISION USE					
Date Facility Inspected <u>8/2z/</u>	89	Approved by	Th	Della	ham	2
Inspected by $m\omega + JS$	>	Title		t Supi	er visa	
			_ /	. /		
		Date	9/2	20/89		

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS

February 21, 1989

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

CERTIFIED MAIL RETURN RECEIPT NO. P-106 675 481

Mr. A. L. Daugherty Clovis Star Route Roswell, New Mexico 88210

RE: Crosby Salt Lake Disposal Facility Chaves County, New Mexico

Dear Mr. Daugherty:

Commercial surface waste disposal facilities in New Mexico are now regulated by Oil Conservation Division (OCD) Rule 711 (enclosed). This rule, which became effective June 6, 1988, outlines specific information required by the OCD to permit commercial surface disposal facilities. Although your operations were permitted by the Division through a hearing process, certain information now required by Rule 711 must be supplied by you in order for them to come into compliance with the new rule. Both of your tank facilities (Section 99, Township 8 South, Range 29 East and Section 19, Township 8 South, Range 30 East) that discharge into Crosby Salt Lake will be treated as one facility for permitting and bonding purposes. Both facilities shall be addressed in the below requirements.

The following information must be furnished to the OCD within 120 days of receipt of this letter:

1. Principals

Supply the names, phone numbers and addresses of all owners and the official contact person for the permitted facility.

2. Description

Supply descriptions of the facilities including detailed diagrams of all fences, cattleguards, pits, dikes, piping, and tanks. Include in your description the security measures that are in place or will be instituted to prevent any unauthorized disposal at the facilities.

3. Contingency Plan

Submit a contingency plan for reporting and clean up of any spills, leaks or releases.

4. Maintenance

Submit a routine inspection and maintenance plan to ensure permit compliance. Include the inspection frequency and maintenance of all berms, pits, tanks, piping, water levels and siphons. Mr. A. L. Daughterty February 21, 1989 Page 2

5. Closure Plan

Submit a plan for closure of the facility. The plan should include, but is not limited to the removal of fluids and chemicals, backfilling of pits, disposition of contaminated soils, disposition of buildings, tanks, vessels, equipment or hardware, and general reclamation and restoration of the site to as close to its original condition as practical.

6. Affidavit

Certification by an authorized representative that information submitted is true, accurate, and complete to the best of the applicants knowledge.

Public Notice requirements were fulfilled through the hearing process, so no additional public notice is required.

If you have not already fulfilled the \$25,000 bond requirement or the annual status report, you must begin this process immediately.

District personnel in the Artesia District have inspection and enforcement authority within their district to ensure compliance with OCD Rule 711 and permit conditions placed on individual disposal facilities.

If you have questions, please do not hesitate to contact me at (505) 827-5884, or Mr. Mike Williams, Artesia District, at (505) 748-1283.

Sincerely,

Roger C. Anderson Environmental Engineer

RCA/sl

Enclosure

cc: OCD Artesia Office OCD Hobbs Office

CHECKLIST FOR COMPLIANCE WITH RULE 711

Facility Name and Mailing Address: CROCKAL TALE SPEE No. SPEC Order No.: R-5464 Location: 24-85-29E + 19-89-30E Contact Person: A.C. DAUSWERTY SPRATES SECURENT, A BANK A COMPENSATE CLASSANGATA (HAS. F. MALONS, ATWALT COMPENSATE CLASSANGATA Date of Review:

- 1. Plat and topo maps showing location in relation to governmental surveys and roads, watercourses, water wells and dwellings within one mile.
- /2. Names and addresses of facility site landowners and landowners of record within one-half mile.
 - 3. Description of facility with a diagram indicating location of fences and cattleguards, and detailed engineering construction/installation diagrams of pits, liners, dikes, piping, sprayers, and tanks.
- 4. Plan for disposal of approved waste solids or liquids.
 - 5. Contingency plan for reporting and cleanup of spills or releases.
 - 6. Routine inspection and maintenance plan.
- 7. Closure plan.

. . .

- /8. Geohydrological evidence that fresh water will not be affected.
 - 9. a. Proof that owners and occupants within ½ mile were notified.
 - b. OCD public notice.
 - 10. Affidavit of verification.
 - 11. Bond (required by 12/30/88 for current facilities).

REPORT TO:	DAVID BOYER	Sample No. <u>8903</u>
	N.M. OIL CONSERVATION D	
	P.O. Box 2088	PRIORITY
	Santa Fe, NM 87504-208	BPHONE(S): , 827-581
COLLECTION C	-	; COUNTY: Chaves
COLLECTION D	ATE/TIME CODE: (Year-Month-Day-Hour	Minute) 18191013131111251
		D D + B B + + (107
	SUBMITTER:	David Boyer
SAMPLE TYPE:	WATER XI. SOIL . FOOD . OT	HER:
This form scrow	Danies 🗍 Sectum Viale Glass	Jugs, and/or
	eserved as follows:	
NP:	No Preservation; Sample stored at room	-
□ P-Ice	Sample stored in an ice bath (Not From Sample Preserved with Ascorbic Acid to	
	Sample Preserved with Hydrochloric Adi	
		x(es) below to indicate the type of analytical scree
required. Wheney	er possible list specific compounds suspects <u>PURGEABLE SCREENS</u>	EXTRACTABLE SCREENS
	tic Headspace (1-5 Carbons)	(751) Aliphatic Hydrocarbons
	tic & Halogenated Purgeables	(755) Base/Neutral Extractables
(765) Mass (766) Trihal	Spectrometer Purgeables	(758) Herbicides, Chlorophenoxy scid (759) Herbicides, Trissines
	VOC's I (8 Regulated +)	(760) Organochlorine Pesticides
	VOC's II (EDB & DBCP)	(761) Organophosphate Pesticides
Other	Specific Compounds or Classes	(767) Polychlorinated Biphenyls (PC)
<u> </u>		(764) Polynuclear Aromatic Hydrocas (762) SDWA Pesticides & Herbicides
Remarks:		
FIELD DATA:	NN 50,000	
	onductivity=umho/cm ato	
	=mg/l; Alkalinity=mg/l; F	
	ft.; Depth of wellft.; Perfo	ration Intervalft.; Casing:
	n, Methods and Remarks (i.e. odors, etc.)	$1.11 \leq 0 \leq 1$
		Lake - Sample from
_ site	of dike at North	no of labe
I certify that th	e results in this block accurately reflect t	te regults of my field analyses, observations and
activities.(signatu	e collector): A Cerris A Ro	$\underbrace{-4}_{-}$ Method of Shipment to the Lab: <u>E</u>
CHAIN OF CUS	TODY	
I certify that th	is sample was transferred from	DB 10 DM
at (location)	ALR	on 415189-12:25
· ·		
		Nor Sealed C OR Seals Intact: Yes A No
Signatures'	Court AM Show	

Accu-Labs Research, Inc.

May	9,	1	989	
Page	2 1	5	of	18

Mr.	, Dav	/id	Boyer	
NM	0i1	Cor	iservation	Division

RE: 9649-29859-20 Date Samples Rec'd: 4-5-89 P.O. No. 77-521.07-123

RECEIVED

MAY 1 7 1989

OIL CONSERVATION DIV. SANTA FE

REPORT	0F	ANAL	YSIS
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ALR Designation Sponsor Designation	9649-29859-20-16 8903301440 3-30-89		9649-29859-20-18 8904032115 Trip Blank <u>4-3-89</u>
GC/MS VOLATILE ORGANICS, µg	g/L:		
Chloromethane Bromomethane Vinyl chloride Chloroethane	<10 <10 <10 <10	<10 <10 <10 <10	<10 <10 <10 <10 <10
Methylene chloride	<5	<5	<5
1,1-Dichloroethene	<5	<5	<5
1,1-Dichloroethane	<5	<5	<5
Total 1,2-Dichloroethene	<5	<5	<5
Chloroform	<5	<5	<5
1,2-Dichloroethane	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5
Carbon tetrachloride	<5	<5	<5
Bromodichloromethane	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5
c-1,3-Dichloropropene	<5	<5	<5
Trichloroethene	<5	<5	<5
Benzene	<5	<5	<5
Dibromochloromethane	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5
t-1,3-Dichloropropene	<5	<5	<5
2-Chloroethylvinyl ether	<5	<5	<5
Bromoform	<5	<5	<5
1,1,2,2-Tetrachloroethane	<5	<5	<5
Tetrachloroethene	<5	<5	<5

May 9, 1989 Page 16 of 18

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Mr. David Boyer NM Oil Conservation Division

RE: 9649-29859-20 Date Samples Rec'd: 4-5-89 P.O. No. 77-521.07-123

RUE

Accu-Labs Research, Inc.

MAY 1 7 1989 OIL CONSERVATION DIV. SAUTO FE

REPORT	0F	ANAL	YSIS

ALR Designation Sponsor Designation	9649-29859-20-16 8903301440 3-30-89	9649-29859-20-17 8903311255 3-31-89	9649-29859-20-18 8904032115 Trip Blank <u>4-3-89</u>
Determination: µg/L			
Toluene Chlorobenzene Ethyl benzene Total Dichlorobenzenes Total Xylenes	<5 <5 <5 <5 <5	<5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5

ENVIRONMENT	SCIENTIFIC LABORA ORGANIC ANALYSIS	
·'' ''	Organic Section - H	hone: 841-7570
		89-38C -
REPORT TO:	DAVID BOYER	S.L.D. No. OR- SION DATE REC. $/-19-89$
	N.M. OIL CONSERVATION DIVI	•>
	P.O. Box 2088	PRIORITY
	Santa Fe, NM 87504-2088	PHONE(S): <u>827-5812</u> ; county: <u>4a</u> Des.S
	11	
	ATE/TIME CODE: (Year-Month-Day-Hour-Min	$\frac{(16)^{1}}{5+3} \frac{5}{5+1} \frac{5}{7+1} \frac{7}{7+1} \frac{7}{3} \frac{7}{5} \frac{1}{5} \frac{5}{5} \frac{1}{5} \frac{1}{$
	_	vid BoyerCODE: 2 6 0
SAMPLE TYPE:	WATER XI, SOIL , FOOD , OTHER	s, and/or
P-Ice P-AA P-HCl ANALYSES REQ required. Whenev (753) Alipha (754) Aroma (765) Mass (766) Trihalo (774) SDWA (775) SDWA Other	Sample stored in an ice bath (Not Frosen). Sample Preserved with Ascorbic Acid to ren Sample Preserved with Hydrochloric Acid (2 <u>UESTED</u> : Please check the appropriate box(es er possible list specific compounds suspected of <u>PURGEABLE SCREENS</u> tic Headspace (1-5 Carbons) tic & Halogenated Purgeables Spectrometer Purgeables omethanes . VOC's I (8 Regulated +) . VOC's II (EDB & DBCP) Specific Compounds or Classes	nove chlorine residual. APR 2 7 1989 drops/40 ml)) below to indicate the type of ChalGOASERVATION DIV.
	nductivity=umho/cm at $53B^{\circ}C$; (Chlorine Residual≈ mg/l
	=mg/l; Alkalinity=mg/l; Flow	
	ft.; Depth of wellft.; Perforati	
Sampling Location	n. Methods and Remarks (i.e. odors, etc.)	
Samo	le from Crochy Sall	Lake (Broke Jamk Lake)
oter	at of peninsuta, N.	End Splake
I certify that the	e results in this block accurately reflect the	results of my field analyses, observations and talk Car Method of Shipment to the Lab: Stalk Car
CHAIN OF CUS	TODY	
	s sample was transferred from	to
I certify that thi		
I certify that thi at (location)		on/; and that
at (location)		on/: and that t Sealed OR Seals Intact: Yes No

ANALYSES PERFORMED

ΙΔ	R	No.	· 0	R_
	υ.	INU.	. U	1/-

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

(753)	Aliphatic	He	adspace	(1-5	Carbons)	
(754)	Aromatic	šı.	Halogen	ated	Purgeable	8
(765)	Mass Spe	ctro	meter l	Purgea	ables	

(766) Trihalomethanes

(774) SDWA VOC's I (8 Regulated +)

(775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

	EX	TRACTABLE SCREENS
	(751)	Aliphatic Hydrocarbons
	(755)	Base/Neutral Extractables
	(758)	Herbicides, Chlorophenoxy acid
	(759)	Herbicides, Triazines
	(760)	Organochlorine Pesticides
	(761)	Organophosphate Pesticides
—	(787)	Polychlorinated Binhanyle (PCE

- [] (767) Polychlorinated Biphenyls (PCB's)
- (764) Polynuclear Aromatic Hydrocarbons
- (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
		······································	-
· · · · · · · · · · · · · · · · · · ·			
• DETECTION LIMIT • ¥		+ DETECTION LIMIT + $+$	

ABBREVIATIONS USED:

N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT

T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED)

[RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION

LABORATORY REMARKS:

1

CERTIFICATE OF ANALYTICAL PERSONNEL

Seal(s) Not Sealed 🗌 Intact: Yes 🦳 No 🦳. Seal(s) broke	en by:	date:
I certify that I followed standard laboratory procedures on hand	ling and analysis of this sample unle	ess otherwise noted and
that the statements on this page accurately reflect the analytical	results for this sample.	
Date(s) of analysis: Analyst's signature:		
I certify that I have reviewed and concur with the analytical re	sults for this sample and with the	statements in this block.
Reviewers signature:		

STATE OF NEW MEXICO

NM Oil Consv. Div.

P. O. Box 2088

Santa Fe, NM

State Land Office Bldg.

HEALTH AND IVIRONMENT DEPARTMENT

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud, NE Albuquerque, NM 87106 [505]-841-2500 ORGANIC CHEMISTRY SECTION [505]-841-2570

February 1, 1989

To:

ANALYTICAL REPORT SLD Accession No. OR-89-0038

Distribution (■) Submitter (※) SLD Files

From: Organic Chemistry Section Scientific Laboratory Div. 700 Camino de Salud, NE Albuquerque, NM 87106

Re: A purgeable water sample submitted to this laboratory on January 19, 1989

User: OIL CONSERVATION DIV State Land Office Bldg. P. O. Box 2088 Santa Fe, NM 87504-2088

87504-2088

DEMOGRAPHIC DATA

C(OLLECTION	LOCATION		
<i>On:</i> 12-Jan-89	By: Boy	Township: 08S	Section: 19	
<i>At:</i> 11:15 hrs.	In/Near: Roswell	Range: 30E	Tract: 133	

ANALYTICAL RESULTS: Aromatic & Halogenated Purgeable Screen

Parameter	Value	Note	MDL	Units
Aromatic Purgeables (6)	0.00	N	12.50	ppb
Halogenated Purgeables (33)	0.00	N	12.50	ppb

Notations & Comments:

Analyst:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified; T = Trace (<Detection Limit); U = Compound Identity Not Confirmed.

Seals: Not Sealed 2; Intact: No , Yes & Broken By: ____

Laboratory Remarks: Crosby Salt Lake- North End

Analysis

Reviewed By:

Date:

Garý C. Eden Analyst, Organic Chemistry

Date

Richard F. Meyerhein 02/01/89 Supervisor, Organic Chemistry Section

		852 WAN	
SCIENTIFIC L 700 Camino de Albuquerque,	ealth and Environment Department ABORATORY DIVISION e Salud NE NM 87106 — (505) 841-2555	<i>i</i> ,	SENERAL WATER CHEMISTRY and NITROGEN ANALYSIS
		300 □ <u>59600</u> 🕅	отнея: 82235
Collection DATE	SITE INFORM- ► ATION	proshy Satt	Lake (BROKe Tent)
Collected by - Person/Agency	erton/OCD	N. Sille	of lope at end of
SEND NM OIL CO INAL State Lan	NTAL BUREAU NSERVATION DIVESION 50 d Office Blags Pollog 20 NM 87504-2008 MAR over 5812 OIL CONSERV	ATION DIVISION	Station/ well code 085-30E-19.133
AMPLING CONDITIONS		14:11:	Owner
□ Bailed □ Pump S Dipped □ Tap	Water level	Discharge	Sample type /
рн (00400)	Conductivity (Uncorrected) 44 APT) µmh	Water Temp. (00010)	5.5 °C Conductivity at 25°C (00094)
Field comments	<u></u>		Анно
No. of samples submitted / NA: No acid added NALYTICAL RESULTS fro	Whole sample (Non-filtered) \Box F:Filtered 0.45 μ Other-specify: \Box A:		2 mIH₂SO₄/Ladded added □A: 4ml fuming HNO ₃ added
NA	Units Date analy	From NF,	NA Sample: Date
Conductivity (Corrected) 25°C (00095)	122430µmho/27	;	Analyzed
Total non-filterable residue (suspended)		🔀 Calcium 🖸 Potassium	
(00530) Ø Other:	mg/1 5.45mg/1	Magnesium	the low
□ Other:	/	- X Sodium	
Other:		Bicarbonat	e <u>359</u> mg/1 1/23
A-H ₂ SO ₄		Chloride _	261200 mg/l 2/2
Nitrate-N ⁺ , Nitrate-N total (00630)	mg/l	Sulfate	<u>217 mg/1 2/16</u>
Ammonia-N total (00610)	mg/l	- Total Soli	
Total Kjeldahl-N ()	mg/l	_ Br_	206 Mg/ 2/07
Chemical oxygen demand (00340)	mg/l	_ COs	
Total organic carbon	-		
()	mg/l	17-	Anion Balance
Other:		Analyst	2 20 89 Content
Laboratory remarks		,,,,,	
261200			
FOR OCD USE Date	Owner Notified	Phone or Let	ter?Initals

f

AWALYTI	CATIONS E MEQ.	РРМ	DET. LIMIT
Ca Mg Na K	1733.06 1435.41	62650.00 21100.00 33000.00 13710.00	<3.0 <0.3 <10.0 <0.3
Mn Fe	0.00 0.00	0.00 0.00	
SUMS	6645.35	130460.00	

. .

•

HC03 SO4 CL	5.88 4.38 7368.12	359.00 210.00 #########	<1. <1(<5.	0.0
		>200000		
NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00 7378.38	0.00 0.00 0.00 0.00 4###################	< <	0. 1. 0. 0.

PPM

DET.

LIMIT

Total Dissolved Solids= >100000 | Ion Balance = 90.07%

WC No. = 890093 Date out/By $O_{en} \frac{2/r3/89}{2}$

MAR - 1 1983 CUL CONSERVATION DIVISION OIL CONSERVATION FE

ANIONS

ANALYTE MEQ.

, .					· ·	
للاس	New Mexico Health and	d Environment Depar	Iment			
the	SCIENTIFIC LABORAT	ORY DIVISION				
	700 Camino de Salud N Albuquerque, NM 8710			HEAV		ALYSIS FORM
.1 1		-			Telephone: (505)8	(41-2553
Date	1 :0.00	Lab ()	User		<u>_</u>	·····
Received	1/1/9/87	No. +-CP-1	<u> Code</u>			
COLLECTIO	ON DATE & TI	IME: yy mm	dd hh 1		Cochy Sa	TE DESCRIPTION
COLLECTE	D BY:4	1. 0			The Tax	1/ La Re
<u> </u>	<u>KOYP</u>	Auker	SON			
то:	V		With	Engl	OWNER:	
101			مسلسلاسية ليتسبه الرين. مدينا			
		1.11	WERK TT.			_
	RONMENTAL BU	nton ptitter	ON		SITE LOCATION County:	
State	E Land Offic FE, NM 8	ce Bldga, OP	0 Box: 20	88		
SANT	AFE, NM 8	37504-2088	SASINT	معلة	Township, Range, Secti	on, Tract: (10N06E24342)
ATTN	. L. Boy	ΟD			085+30	5+1 9+133
	PHONE: 827-		STATI	ON/ WELL	CODE:	
_			0			┉┉┶──┤──┧┉┍┛╼╦╼╏──┧┉┍╸┙
			DE, LONG	ITUDE:		
	CONDITIONS		r Level:	Disch	arge:	Sample Type:
Di Da		•	T Dever.	Disch		220 9
pH(00400		vity (Uncorr	.) Wate	r Temp. (0		tivity at 25°C
6	4	7,000 jumh		5.8 %	(00094	l) µmho
FIELD CO	MMENTS:		0		2	
······	Sumple	From /	enins	ale N	, Side	
CANDLE P	IELD TREATM	PNIR		TAR ANA	LYSIS REQUESTI	
	roper boxes:				LISIS REQUEST	ù <i>D</i> •
WPN	: Water	WPF: W	1		AP Scan	
Preserv Non-Fil	ed w/HNO3	Preserved Filtered	w/HNO ₃		box next to me quired.	etal if AA
<u>NOII=F11</u>		ritered			quirea.	
		ANALYT			(MG/L)	
ELEMENT	ICAP VAL		ALUE	ELEMEN		JE <u>AA VALJE</u>
Aluminum Barium	<u> </u>		j	Silico Silver		
Berylliu		<u> </u>		Stront		k
Boron	210.			Tin	8.2	
Cadmium	< 1.0			Vanadi	.um <u><1.</u> 0	
Calcium	49100.			Zinc	< 1.0	
Chromium	< 1.0			Arseni		× <u><0.5</u>
Cobalt	< 0.3			Seleni		X <0.5
Copper	< 1.0			Mercur	Y	X. KO1002
Iron	<u> </u>					
Lead	<u> </u>	⊵ □			<u> </u>	
Magnesiu		<u> </u>				_ <u>H</u>
Manganes						<u>H</u>
Molybden Nickel	um<1.0 <1.0			<u></u> 19.		- H
NICKEI		<u> </u>				
LAB COMM	ENTS:					DIGEST
For OCD	Use:					-AD T.
	er Notified	:	ICAP An	alyst (\mathcal{A})	1 Review	er (flun A. Mayl
	e or Letter	?			Laka -	1 1/100
	Initials	:	Date An	alyzed ^{2/.}	<u>27/87</u> Date R	eveived_ <u>1//3/87</u>

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المراقعة فتشتقي ألما الم

CROSBY SattLake

Accu-Labs Research, Inc. 11485 W. 48th Avenue Wheat Ridge, Colorado 80033 (303) 423-2766

February 7, 1989 Page 1 of 2

Mr. David Boyer NM Oil Conservation Division State Land Office Bldg. P.O. Box 2088 Santa Fe, NM 87504-2088

RE: 9649-29142-3 Date Samples Rec'd: 1-20-89 P.O. No. 77-521.07-123

REPORT OF ANALYSIS

ALR Designation Sponsor Designation	9649-29142-3-1 8901121115 1-12-89	9649-29142-3-2 8901121645 1-12-89	9649-29142-3-3 8901131205 1-13-89
Determination: mg/L			
Aluminum, total Barium, total Boron, total Cadmium, total Calcium, total Chromium, total Iron, total Lead, total Magnesium, total Manganese, total Mercury, total Potassium, total Sodium, total Total Alkalinity, (as CaCO ₃ to pH 4.5) Carbonate (as CO ₃) Bicarbonate (as HCO ₃) pH Specific Conductance, µmhos/cm Arsenic, total Selenium, total Total Solids Bromide	(1.0*) 3.0 190 (0.05*) 64,000 (0.05*) (0.1*) (0.5*) 21,000 4.3 0.0072 12,000 34,000 280 (5) 340 5.5 900,000 0.24 (0.25*) 540,000 2000 Chosky Chocke	<1.0* 10 38 <0.05* <0.05* 7.4 <0.5* 3.8 0.0060 ENR PM - R, Ther Lakes	<1.0* 0.6 8.2 <0.05* 8900 <0.05* 210 <0.5* 1400 5.2 0.0060 1100 47,000 170 <5 210 7.0 340,000 2.4 200,000 310 $B \neq E$ Disposee
	(rond)		

FEB - 9 Marina - CONSERVATION DIVISION

Accu-Labs Research, Inc.

February 7, 1989 Page 2 of 2

Mr. David Boyer NM Oil Conservation Division

RE: 9649-29142-3 Date Samples Rec'd: 1-20-89 P.O. No. 77-521.07-123

REPORT OF ANALYSIS

ALR Designation	9649-29142-3-1	9649-29142-3-2	9649-29142-3-3
Sponsor Designation	8901121115	8901121645	8901131205
Determination: mg/L	<u>1-12-89</u>	1-12-89	<u>1-13-89</u>
Chloride	230,000		110,000
Sulfate (as SO ₄)	240		770
Ion Balance	103		85

* Higher detection limit due to sample matrix interference.

These samples are scheduled to be discarded 30 days after the date of this report.

Mary Fabisiak Mary Fabisiak Water Laboratory

Supervisor

MF/dh 2

SCIENTIFIC LABORATORY DIV	
Organic Section - Phone: 841-2570	
REPORT TO: DAVID BOYER	S.L.D. No. OR-
N.M. OIL CONSERVATION DIVISION	date rec. $1 - 19 - 89$
P.O. Box 2088	priority <u>3</u>
Santa Fe, NM 87504-2088	PHONE(S) : 827-5812
COLLECTION CITY: Roscoell - NF. 51 C, 14; co	
COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute)	11/12/1/10151 (TanK)
LOCATION CODE: (Township-Range-Section-Tracts) $ 0 8 5+2 9 5+$	214+21-1-1(10N06E24342) ballener
USER CODE: 8 2 2 3 5 SUBMITTER: David Boyer	CODE: 2 6 0 Logo
SAMPLE TYPE: WATER 🔀, SOIL [_], FOOD [_], OTHER:	
(753) Aliphatic Headspace (1-5 Carbons) (751) A (754) Aromatic & Halogenated Purgeables (755) B (765) Mass Spectrometer Furgeables (758) H (766) Trihalomethanes (774) SDWA VOC's I (8 Regulated +) (760) O (775) SDWA VOC's II (EDB & DBCP) (761) On Other Specific Compounds or Classes (762) SI	MECEIVED
Remarks:	
FIELD DATA:	
pH=; Conductivity=umho/cm at°C; Chlorine Residual=	mg/l
Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	
Depth to waterft.; Depth of wellft.; Perforation Interval	
Sample Location, Methods and Remarks (i.e. odors, etc.) at Lake Sample SNOM discharge price from ballency, Crashy Salt Lake (Ro.	NOBIH m South tank oke Tank Jake)
I certify that the fesults in this block accurately reflect the results of my field a activities.(signature collector):	(Shipment to the Lab: <u>Slade (19</u>)
CHAIN OF CUSTODY	
I certify that this sample was transferred from	to
at (location) on/	
the statements in this block are correct. Evidentiary Seals: Not Sealed 🦲 <u>OR</u> S	Seals Intact: Yes 🔲 No 🦳
Signatures	
For OCD use: Date owner notified: 6/19/84 Pt	none or Letter? Initial

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ANALYSES PERFORMED

LAB. No.: OR-

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening method(s) checked below:

PURGEABLE SCREENS

(753) Aliphatic Headspace (1-5 Carbons) [] (754) Aromatic & Halogenated Purgeables

[] (765) Mass Spectrometer Purgeables

(766) Trihalomethanes

(774) SDWA VOC's I (8 Regulated +)

(775) SDWA VOC's II (EDB & DBCP)

Other Specific Compounds or Classes

EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables

- (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines
- (760) Organochlorine Pesticides
- (761) Organophosphate Pesticides
- [] (767) Polychlorinated Biphenyls (PCB's)
- (764) Polynuclear Aromatic Hydrocarbons
- (762) SDWA Pesticides & Herbicides

ANALYTICAL RESULTS

COMPOUND(S) DETECTED	CONC. [PPB]	COMPOUND(S) DETECTED	CONC.
· · ·			
······································			
· · · · · · · · · · · · · · · · · · ·			
• DETECTION LIMIT • ¥		+ detection limit + $+$	•
T R = DETECTED AT A LEVEL BEL [RESULTS IN BRACKETS] ARE UNC		DETECTION LIMIT (NOT CONFIRMED) . WITH APPROXIMATE QUANTITATION	
ABORATORY REMARKS:			
			·····
CERTIFI	CATE OF ANALYTI		
al(s) Not Sealed 🛄 Intact: Yes 🦳 No 🦳			
certify that I followed standard laboratory proc at the statements on this page accurately reflec			noted and
ate(s) of analysis: Analyst's			

I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.

7

Reviewers signature:

STATE OF NEW MEXICO

NM Oil Consv. Div.

P. O. Box 2088

Santa Fc, NM

State Land Office Bldg.

HEALTH AND ENVIRONMENT DEPARTMENT

SCIENTIFIC LABORATORY DIVISION

700 Camino de Salud, NE Albuquerque, NM 87106 [505]-841-2500 ORGANIC CHEMISTRY SECTION [505]-841-2570

February 1, 1989

To:

ANALYTICAL REPORT SLD Accession No. OR-89-0043

Distribution (■) Submitter (※) SLD Files

From: Organic Chemistry Section Scientific Laboratory Div. 700 Camino de Salud, NE Albuquerque, NM 87106

Re: A purgeable water sample submitted to this laboratory on January 19, 1989

<u>User:</u>

OIL CONSERVATION DIV State Land Office Bldg. P. O. Box 2088 Santa Fe, NM 87504-2088

87504-2088

DEMOGRAFHIC DATA						
	LOCATION					
Township: 08S	Section: 24					
Range: 29E	Tract: 2					
	Township: 08S	LOCATION Township: 08S Section: 24				

ANALY IICAL RESULTS: Aromatic & Halogenated Purgeable Screen						
Parameter	Value	Note	MDL	<u>Units</u>		
Halogenated Purgeables (33)	0.00	N	100.00	ppb		
Benzene	2450.00		100.00	ppb		
Toluene	1700.00		100.00	ppb		
Ethylbenzene	220.00		100.00	ppb		
p- & m-Xylene	300.00		100.00	ppb		
l,2-Dimethylbenzene	0.00	Т	100.00	ppb		

NAT VTICAT DESULTS. Anomatic 9 Italenan

Notations & Comments:

MDL = Minimal Detectable Level.

A = Approximate Value; N = None Detected above Detection Limit; P = Compound Present, but not quantified; The Transformed Value; N = Compound Value the Net Confirmed

T = Trace (< Detection Limit); U = Compound Identity Not Confirmed.Seals: Not Sealed [z]; Intact: No[], Yes & Broken By:

Laboratory Remarks: Crosby Salt Lake

Analyst:

Gary C/Eden Analyst, Organic Chemistry

89 Reviewed By: Analysis Date

Date:

Richard F. Meyerhein 02/01/89 Supervisor, Organic Chemistry Section

DEMOCRABILIC DATA

SCIENTIFIC LA 700 Camino de	alth and Environment Department BORATORY DIVISION Salud NE M 87106 — (505) 841-2555	8,59r	MAR - 1 1989
	AB NO. W(-96 USER □ 593 SITE INFORM-►	00 □ 59600 XX OT Reshy Sott Lo	HER: 82235 Re (BROKe Kank)
Collected by - Person/Agenty	ATION Collection site descript	" Jank bat	tory at N. Sille of Lake, discharge
SEND NM OIL CON FINAL State Land REPORT Santa Fe, Attn:David.Bo Phone: 827-5	yer ja	AR = 1 1903 SERVATION DIVISION SANTA FE	Station/ well code OBS-JSE-24JZ
SAMPLING CONDITIONS Bailed Dump	Water level	Discharge	Sample type
Dipped 🔀 Tap			GRab
рн (00400) つ	Conductivity (Uncorrected) $> 50, 30 \Rightarrow \mu mhc$	Water Temp. (00010)	°C Conductivity at 25°C (00094) μmho
SAMPLE FIELD TREATMEN No. of samples submitted / A.N. Submitted	F : Whole sample (Non-filtered) \Box F : Filtered 0.45 μ mOther-specify: \Box A :	5ml conc. HNO ₃ add	
□ Other:		Sodium	55350 mg/1 1/24
A-H ₂ SO ₄	<u></u>	Chloride	$\frac{650 \text{ mg/1}}{1/23}$
 Nitrate-N +, Nitrate-N total (00630) Ammonia-N total (00610) Total Kjeldahl-N () Chemical oxygen demand (00340) 	mg/l mg/l mg/l mg/l	- Childride - Containe - Dotain Solids - D	1512 mg/1 2/2
Total organic carbon () Other:	mg/l	- Cation/An Analyst	ion Balance
C Other:			2. 15 59 Cilan
Laboratory remarks			
1.36400			
FOR OCD USE Date	Owner Notified	Phone or Lette	r? Initals

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	CATIONS				ANIONS		
			DET.				DET.
ANALYT	E MEQ.	PPM	LIMIT	ANALYT	E MEQ.	PPM	LIMIT
Ca	858.28	17200.00	<3.0	HC03	10.65	650.00	<1.0
Mg	482.14	5870.00	<0.3	S04	31.50	1512.00	<10.0
Na	2407.57	55350.00	<10.0	CL	3847.67	#########	<5.0
К	73.15	2860.00	<0.3				
Mn	0.00	0.00		NO3	0.00	0.00	< 0.
Fe	0.00	0.00		C03	0.00	0.00	< 1.
				NH3	0.00	0.00	< 0.
				PO4	0.00	0.00	< 0.
SUMS	3821.13	81280.00			3889.83	#########	
			100000				
Ion Ba	lance =	98.23%	;			=_8800096	
				Date	out/By <u>(</u>	Salan 2/18B	?

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णिष्ठितिधः MAR - 1 1983 OIL CONSERVATION DIVISION SANTA FE

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	Mexico Health and Enviro ENTIFIC LABORATORY D		•	
	Camino de Salud NE		HEAVY MET	AL ANALYSIS FORM
Albu	querque, NM 87106		Telepho	one: (505)841-2553
Date		II		
Received	11/9189 Lab	ICP-16 User Code	(F -82235	Other:
COLLECTION		yy mm dd hh m		TION SITE DESCRIPTION
		890112110	S Jan	& batteridischarge
COLLECTED H	BY: Railen In	lancia not	at at	martifielt che
	Corger fb	METTON CAR	4 <u>1</u>	
то:	6	MAX 14	OWNER	
				·····
FIRTDO			ATT AL CIMP 1	
NM OTL	MENTAL BUREA CONSERVATION	DIVISION SAULA F	County	i
State I	Land Office B	ldg., PO Box 208	3	
	FE, NM 8750	1-2000 / /	m 11	Range, Section, Tract: (10N06E24342)
ATTN:	N Rollen	(Ιαγ	Klacolien EE	515-12/2=+2/2+2/-1-1-
	DNE: $827 - 5812$	STATIO	N/ WELL CODE:	
		0211120		
-		LATITUDE, LONGI		
SAMPLING CO		<u> </u>	Dischause	
🔲 Baile		Water Level:	Discharge:	Sample Type:
pH(00400)	Conductivity	(Uncorr.) Water	Temp. (00010)	Conductivity at 25°C
	750,00			(00094)
27112 G. CON		<u> </u>	°c	jumho_
FIELD COMM		mitrale int	Talias Do	
	The si m	Martin an	ALL COUTARE	
	LD TREATMENT		LAB ANALYSIS	REQUESTED:
Check prop	per boxes:	WPF: Water	X ICAP Sca	
Preserved		served w/HNO		xt to metal if AA
Non-Filter	red ³ Fil	tered 3	is required	
			ULTS (MC/L)	
ELEMENT	ICAP VALUE	NALYTICAL RES		CAP VALUE AA VALUE
Aluminum	.0</td <td>ANT VALUE</td> <td></td> <td>2.7</td>	ANT VALUE		2.7
Barium	<1.0		Silver	<0.1
Beryllium	<1.0			<u> </u>
Boron Cadmium	51.		Tin Vanadium	<u> </u>
Calcium	13900.	L-1	Zinc	<u> </u>
Chromium	<1.0		Arsenic –	2015
Cobalt	< 0.5		Selenium	X X
Copper Iron	<1.0		Mercury	X < 0.0005
Lead	<u></u>		••••••••••••••••••••••••••••••••	——————————————————————————————————————
Magnesium	5210.			
Manganese	1.8			<u>_</u>
Molybdenum Nickel	<u> </u>	<u> </u>		
11 TOVET				
LAB COMMEN	rs:			DIEEST
For OCD Use Date Owner		ICAP Ana	Ivet MA	Reviewer Alm L. Meine
	or Letter?			neviewer 10 m r. juga
	Initials:	Date Ana	lyzed 2/27/89	Date Reveived 3/13/87
			1y2eu - /=//0]	

	SCIENTIFIC LAE	Ith and Environment SORATORY DIVISION alud NE # 87106 - 5) 841-2	۱ [′] (357 UNN	GENERAL V	VATER CH OGEN AN	
DATE RECEIVED 8.	15 88 N	0 wr-3342		59600	X OTHER: 82	235	
		SITE INFORM-► ATION	Sample location	//	Pitate	mostra	1 Satt Jako
Collected by - Person/A	igency Kere	197 /OCD	Collection site description	Sample	2 5.2924 S	- Side	Center of
			L		ban	7	
END INAL EPORT O	State Land	SERVATION DIV Office Bldg NM 87504-208	, PO Box 208	3			
	ne: 827-58				Station/ well code	32-24	2-19,340
		512			Owner ·	- <u></u>	-11,59.0
Bailed		Water level		Discharge	1	Sample type	<i>i n</i>
Dipped	🗆 Тар		•		 	(and a
pH (00400)	7	Conductivity (Unco	rrected)	Water Temp. (000	10) <u>3</u> 5 °C	Conductivity	at 25°C (00094) µmho
Field comments		·	<u> </u>	•			<u>_</u>
NA: No ac NALYTICAL F		SAMPLES	A: Units Date analyze	41 - · · · · · · · · · · · · · · · · · · ·	,		Date
Conductivity (C 25°C (00095)	Corrected)	15801	umho <u>8/29</u>	- From <u>/ /</u>	🥂, NA Sample		Analyzed
Total non-filtera residue (suspe (00530)			mg/l	Calcium	um	<u>4mg/1_</u> <u> 01_mg/1_</u>	9/8
⊠ Qther: Lack □ Other:	s pH	7.69		- Magnest			9 8
Other:	- 			- Sodium		<u> </u>	9/7
A-H₂SO₄				Bicarbo		<u>_S_</u> mg/1_ 1</td <td><u> </u></td>	<u> </u>
Nitrate-N + Ni	trate-N			Chlorid			8/24
total (00630)			mg/l	_ Sulfate		3 <u>5 mg</u> /1_	8/24
 Ammonia-N to Total Kjeldahl-I 		<u></u>	mg/l		Solids <u>107</u>	<u> (@_mg/ _</u>	<u> </u>
(') Chemical oxyg			mg/t	- 2	<u> </u>		n dia
demand (0034	0)		mg/l		Smile	<u>20:5 149</u>	P 8/25
Total organic c ()	arbon	·	mg/l	- Catic	n/Anion Bal	lance _	
Other: Other:				Analyst	Date R	eported R	eviewed by
Laboratory remark			······································	- <u> </u>	· · / /	27 58 (

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	CATIONS				ANIONS		
ANALYI	E MEQ.	PPM	DET. LIMIT	ANALY	TE MEQ.	PPM	DET. LIMIT
Ca Mg Na K	22.65 9.03 135.93 1.56	454.00 110.00 3125.00 61.00	<3.0 <0.3 <10.0 <0.3	HC03 SO4 CL	1.48 9.06 169.96	90.50 435.00 6025.00	
Mn Fe	0.00 0.00	0.00 0.00		NO3 C03 NH3 PO4	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	< 0. < 1. < 0. < 0.
SUMS	169.18	3750.00			180.50	6550.50	
	Dissolved alance =	Solids= 93.73%	10716		WC No. = out/By	= 8803342	_

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New Mexico Health and Environment Department SCIENTIFIC LABORATO 700 Camino de Salud NE Albuquerque, NM 87106

HEAVY JETAL ANALYSIS FORM Telephone: (505)841-2553

		•		
Date Received 8 15 88 No	ICP-B71 Use		Other:	
COLLECTION DATE & TIME				DESCRIPTION
	680811 16		allors Sals	Dake
COLLECTED BY:	Bunk	· K]		
	<u>1809911.U.</u>	W Em	<u>alligenely</u>	pt_
то:		OWNE	ER:	
ENVIRONMENTAL BURE			E LOCATION:	1-
State Land Office			icy: <u>_/////</u>	<u>, </u>
	04-2088	Townsh	ip, Range, Section,	Tract: (10N06E24342)
12		Ľ	2815+2171E+	<u>/12+31410</u>]
ATTN: <u>Sou</u> TELEPHONE: 827-581	<u></u>	ION/ WELL CODE:	• 1 • 1 1 1 1	
-			• [
SAMPLING CONDITIONS:	LATITUDE, LON	GITUDE:		
Bailed Dipped Tap	Water Level	: Discharge:		ple Type:
pH(00400) Conductivit	V(Uncorr.) Wat	er Temp.(00010)	Conducti	vity at 25°C
			(00094)	
	Dod umho	32 °c	<u> </u>	µmho
FIELD COMMENTS: Somuelo Citan	1 1 1 1 1 1 1	10 10 10.1	-1-1-Da	······
	(apropho	PARL J ZJALI	Min HAC	
SAMPLE FIELD TREATMENT		LAB ANALYSIS	S REQUESTED:	
Check proper boxes:	WPF: Water			
	eserved w/HNO2	(X ICAP So Mark box)	hext to meta	lifaa
Non-Filtered 3 Fi	ltered	is require		
			·1)	
ELEMENT ICAP VALUE	NALYTICAL RI	ELEMENT	LJ ICAP VALUE	AA VALUE
Aluminum O.		Silicon	<u>4.4</u>	<u>AA VABOD</u>
Barium 0.3		Silver	<0,1	
Beryllium <u><0.</u>	·····	Strontium	6.0	
Boron 1.5 Cadmium < 0.1	F1	Tin Vanadium		·······
Cadmium < 0.1 Calcium $490.$	L_J		$\frac{\langle 0, }{\langle 0, }$	
Chromium $\frac{-10}{\sqrt{0.1}}$		Arsenic		0<0.05
Cobalt <0.05		Selenium		10.007
Copper 0.3		Mercury	4 - 1 m	<0.000 <u>5</u>
Iron <u>0.1</u>	····· ,		<u> </u>	□
Lead 20.1				님
Magnesium <u>110.</u> Manganese <u>0.57</u>			· · · · · · · · · · · · · · · · · · ·	⊣
Molybdenum < 0.5	······			
Nickel <0.	······································	· · · · · · · · · · · · · · · · · · ·		
LAB COMMENTS:				DIGEST
For OCD Use:				0 0 0 0
Date Owner Notified:	ICAP A	nalyst	_ Reviewer_	Un lishby
Phone or Letter?				Juin I. Com
Initials:	Date A	nalyzed	_ Date Reve	erved 12/29/80

•	пе: 841-2570 Шри
REPORT TO: DAVID BOYER	S.L.D. No. OR- <u>1333 At-R</u>
N.M. OIL CONSERVATION DIVISI	ON DATE REC. <u>3-15-39</u>
P.O. Box 2088	PRIORITY T
Santa Fe, NM 87504-2088	PHONE(S): <u>827-5812</u>
COLLECTION CITY: Roswell	; COUNTY: Chares
COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute)	181812191/1/16251
LOCATION CODE: (Township-Range-Section-Tracts)	+271E+119+3 7101(10N06E24342)
USER CODE: 812 2 3 5 SUBMITTER: Davi	<u>d BoyerCODE: 2 6 0 </u>
SAMPLE TYPE: WATER K, SOIL , FOOD , OTHER:	
This form accompanies Septum Vials, Glass Jugs, a Samples were preserved as follows: NP: No Preservation; Sample stored at room tempera P-Ice Sample stored in an ice bath (Not Frosen). P-AA Sample Preserved with Ascorbic Acid to remove P-HCl Sample Preserved with Hydrochloric Acid (2 dr ANALYSES REQUESTED: Please check the appropriate box(es) bar required. Whenever possible list specific compounds suspected or re-	ature. h chlorine residual. ops/40 ml) elow to indicate the type for analytical screens. equired.
PURGEABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons)	EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons
X (754) Aromatic & Halogenated Purgeables	(755) Base/Neutral Extractables
(765) Mass Spectrometer Purgeables	(758) Herbicides, Chlorophenoxy acid
(766) Trihalomethanes (774) SDWA VOC's I (8 Regulated +)	(759) Herbicides, Triazines (760) Organochlorine Pesticides
(775) SDWA VOC's II (EDB & DBCP)	(761) Organophosphate Pesticides
Other Specific Compounds or Classes	(767) Polychlorinated Biphenyls (PCB's)
	[] (764) Polynuclear Aromatic Hydrocarbons [] (762) SDWA Pesticides & Herbicides
Remarks:	
NoTe: WhITE Laber Faci	lita- KCR
FIELD DATA: 15,000 25	
pH=; Conductivity=umho/cm at 32 °C; Chlo	rine Residual= mg/l
Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Ra	
Depth to waterft.; Depth of wellft.; Perforation	
Sampling Location, Methods and Remarks (i.e. odors, etc.)	
Cropby CalTLahe Emera	Dit. O. O. Sheom & Rulel
-Sample Stam S. Scho, Ce	
I certify that the results in this block accurately reflect the result activities.(signature collector):	Its of my field analyses observations and -
CHAIN OF CUSTODY	
I certify that this sample was transferred from	to
at (location)	
the statements in this block are correct. Evidentiary Seals: Not S	ealed OR Seals Intact: Yes No
Signatures	
	19/By Phone or Letter? Initial

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A.

ANALYSES PERFORMED		LAB. No.: OR- 1333		
THIS PAG	E FOR LABOR	TORY RESUS ONLY	``	
This sample was tested using the analytical scree	ning method(s) c	hecked below:		
PURCEABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (754) Aromatic & Halogenated Purgeables (765) Mass Spectrometer Purgeables (766) Trihalomethanes (774) SDWA VOC's I (8 Regulated +) (775) SDWA VOC's II (EDB & DBCP) Other Specific Compounds or Classes	EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides			
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.	
r				
aromatic surgeables	Amarka			
hennend	T.R.			
tolueng	T.R.			
ethil hensene	TR			
A + m - Laulene	T.R.			
DE AL MAR	T.R.			
		· · · · · · · · · · · · · · · · · · ·		
halogenated surgeables	N.V.	······································		
Mauginalle Mugeabur	N.P.:			
	╀────┤┠╴			
	25			
• DETECTION LIMIT • 🗡	313/2	+ DETECTION LIMIT + \top		
ABBREVIATIONS USED: N D = NONE DETECTED AT OR ABOVE T R = DETECTED AT A LEVEL BELOW [RESULTS IN BRACKETS] ARE UNCON	THE STATED	DETECTION LIMIT (NOT CONFIRMED)		
LABORATORY REMARKS: Trobuty	nie Gerry	numen nanging from	tistet	
- and the compounded in	the 1B	TX sayor that the	the	
_ C3, substituted kennere	region a	t approve the = 500 pps	Lettedad	
by the shotoinitation	Hetertro-	hut not ilentified.		
CERTIFICA	TE OF ANALYTI	CAL PERSONNEL		
Seal(s) Not Sealed Intact: Yes No D. I certify that I followed standard laboratory procedu that the statements on this page accurately reflect t Date(s) of analysis: Children Analyst's sign I certify that I have reviewed and concur with the	res on handling a he analytical resu gnature:	and analysis of this sample unless otherwise n lits for this sample. uny (· · ·	
Reviewers signature: _ & meyer hein				
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ANALYSES PERFORMED LAB. No.: OR- 1337							
THIS PAG	E FOR LABOR	AATORY REST S ONLY	· · ·				
This sample was tested using the analytical scree	ning method(s) [.]	checked below:					
PURGEABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (754) Aromatic & Halogenated Purgeables (755) Mass Spectrometer Purgeables (766) Trihalomethanes (774) SDWA VOC's I (8 Regulated +) (775) SDWA VOC's II (EDB & DBCP) Other Specific Compounds or Classes		EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides					
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.				
in ama tie and another			<u> </u>				
- Comance proposition	1200						
ter a							
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pt m- ry lang	$\mathcal{T}\mathcal{P}$						
p-xillenc	MPOUND(S) DETECTED CONC. COMPOUND(S) DETECTED CONC. Image:						
halogenated surgiables	M.D.						
,							
• DETECTION LIMIT • 🗡	101-93K	+ DETECTION LIMIT + $+$					
	THE STATED	DETECTION LIMIT (NOT CONFIRMED)					
LABORATORY REMARKS:		······································	···				
			<u> </u>				
			····-				
Seal(s) Not Sealed Intact: Yes No \Box Seal(s) Not Sealed Intact: Yes No \Box Sealed I certify that I followed standard laboratory procedure that the statements on this page accurately reflect to Date(s) of analysis: $3/19/55$. Analyst's sign I certify that I have reviewed and concur with the	Seal(s) broken b res on handling he analytical re- mature: analytical result	and analysis of this sample unless otherwise noted sults for this sample.					
Reviewers signature: <u>K Meyenhlim</u>		والا الحديث المراجع المحاجم المح والمحاجم المحاجم					

H ENVIRONMENT	SCIENTIFIC LABORATORY DIVISION 754 PRGANIC ANALYSIS' REQUEST FOM Organic Section - Phone: 841-2570 WM WM
REPORT TO:	DAVID BOYER S.L.D. No. OR- 1337 AtB
	N.M. OIL CONSERVATION DIVISION DATE REC. 8-15-88
	P.O. Box 2088 PRIORITY 3
	Santa Fe, NM 87504-2088 PHONE(S): 827-5812
COLLECTION C	TTY:; COUNTY:;
COLLECTION D	ATE/TIME CODE: (Year-Month-Day-Hour-Minute) 38031116110
LOCATION COL	DE: (Township-Range-Section-Tracts) 10315+2915+19+34101(10N06E24342)
	8 2 2 3 5 SUBMITTER: David Boyer CODE: 2 6 0
This form accom Samples were pr NP: P-Ice P-AA P-HCl ANALYSES REA required. Whenev (753) Alipha (754) Aroma (765) Mass (766) Trihal (774) SDWA (775) SDWA Other Remarks:	WATER M, SOIL L, FOOD L, OTHER: papanies Septum Vials, Glass Jugs, and/or WILL 1989 reserved as follows: No Preservation; Sample stored at room temperature. Sample Preserved with Ascorbic Acid to remove chlorine residual. Sample Preserved with Ascorbic Acid to remove chlorine residual. Sample Preserved with Hydrochloric Acid (2 drops/40 ml) CUESTED Please check the appropriate box(es) below to indicate the type of analytical screens ver possible list specific compounds suspected or required. PURSTED Please check the appropriate box(es) below to indicate the type of analytical screens ver possible list specific compounds suspected or required. PURSTED Please check the appropriate box(es) below to indicate the type of analytical screens stic Headspace (1-5 Carbons) atic & Halogenated Purgeables Spectrometer Purgeables A VOC's I (8 Regulated +) A VOC's I (8 Regulated +) A VOC's I (EDB & DBCP) r Specific Compounds or Classes (761) Organochlorine Pesticides (762) SDWA Pesticides & Herbicides (762) SDWA Pesticides & Herbicides (762) SDWA Pesticides & Herbicides
FIELD DATA:	> 50,000 .
рН=; С	onductivity=umho/cm_at°C; Chlorine Residual=mg/l
Dissolved Oxyger	n=mg/l; Alkalinity=mg/l; Flow Rate/
Depth to water	ft.; Depth of wellft.; Perforation Intervalft.; Casing:
Croff colle	on, Methods and Remarks (i.e. odors, etc.)
activities.(signatu	re collector): <u>Harden accurately</u> reflect the results of my field analyses, observations and <u>the contraction</u> Method of Shipment to the Lab: <u>State</u> (2)
CHAIN OF CU:	
	his sample was transferred from to to
	on and that
	n this block are correct. Evidentiary Seals: Not Sealed <u>OR</u> Seals Intact: Yes No
Signatures'	
For OCD	use: Date owner notified: 6/19/39 Phone or Letter? Initials

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SCIENTIFIC LA 700 Camino de	alth and Environment Department BORATORY DIVISION Salud NE M 87106 – (1)5) 841-2555	854 NV	NERAL NITR	WATER CHEMISTRY NOGEN ANALYSIS	
DATE RECEIVED 8 15 8	AB WC- 3346 USER 593	00 🗍 59600 🕅	л _{НЕВ:} 82	235	
	SITE INFORM- ATION	ofby Satal	ake-	Collection site	
I D I D I D I D I D D D D D D D D D D D		ion Sample	le 9-12	In NWhite in	
Bou	1 <u>4</u> /0CD		F	1 Con Du o Au o Ma	
END NM OIL CON INAL State Land O Santa Fe,	ITAL BUREAU ISERVATION DIVISION I Office Bldg, PO Box 20 NM 87504-2088	88	- <u>10</u> 21	leg	
Attn: <u>David Bo</u>	yer	اللہ کی ایک میں میں میں میں میں میں میں میں میں ایک می ایک میں ایک میں ایک میں میں میں میں میں میں میں ایک میں ایک میں ایک میں ایک میں میں ایک	2		
Phone: 827-5	812		Station/ well code		
AMPLING CONDITIONS		· · · ·	Owner	35-25519.340	
□ Bailed □ Pump □ Dipped <□ <tap< td=""><td>Water level</td><td>Discharge</td><td></td><td>Sample type-</td></tap<>	Water level	Discharge		Sample type-	
pH (00400)	Conductivity (Uncorrected) > 50.000 μ mho	Water Temp. (00010)	°C	Conductivity at 25 °C (00094) µmho	
Field comments					
submitted / / / / / / / / / / / / / / / / / / /	Other-specify:	From <u>M</u> , Calcium Potassium Magnesium Sodium	NA Sample 1524 2595 6700	$\frac{\text{Analyzed}}{9/8}$ $\frac{290 \text{ mg/l} - 9/8}{57 \text{ mg/l} - 9/8}$	
A-H₂SO₄		Bicarbonate		<u></u>	
Nitrate-N + , Nitrate-N total (00630)	mg/l mg/l mg/l mg/l mg/l	Chloride Sulfate CTotal Solid CKCCS CKCCS	<u>88</u> s <u>2.1%</u> x	5 mg/1 <u>8/24</u>	
() () C Other: Other:	mg/l	Analyst		Reported Reviewed by	
Laboratory remarks		16			
	139	Re Calenced In	, p	munkers too ling in fing	
FOR OCD USE Date	Owner Notified	Phone or Lett	er?	Initals	

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SCIE 700	Mexico Health and Envir ENTIFIC LABORATOF Camino de Salud NE Iquerque, NM 87106	onment Department VISION		•	ETAL A phone: (50		SIS FORM
Date Received	8 15 88 No.	10P-37.7	User Code	(⊠_82235		ther:	
COLLECTION	DATE & TIME:		hh mr	COLI	LECTION	SITE	ESCRIPTION
COLLECTED H	3Y:	880811	1/6/12		pflint-	Salt	Jake
		Bary	· <u>/</u>	Som	ylen	whi	Rallang Land
TO:			/	OWNE	ER:	<u></u>	
ENVIRON	MENTAL BUREA	ū			E LOCAT		
	CONSERVATION		000	Cour	nty: <u>C/</u>	ares	
State I SANTA I	Land Office E FE. NM 8750	31dg., PO B 04-2088	$\mathbf{0x}$ 2088		in. Range. S	Section Tra	açt: (10N06E24342)
	n A			4	71315+2	SIF+11	9+314101
ATTN:	ONE: 827-5812	, 	STATTO	N/ WELL CODE:	•		
					• [L_,L IL	
SAMPLING CO	ONDITITONS .	LATITUDE,	LONGI				
🗌 Baile	ed 🗌 Pump	Water L	evel:	Discharge		Sampl	e Type:
Dippe pH(00400)		(Uncorr)	Wator	Temp. (00010)		ductivi	+y at 25°C
pii(00400)	$>$ 50, ϑ		Water			094)	, cy ac 20 c
FIELD COMM		22) µmho		°c	ł	<u></u>	µmho
	duck a	ralez		•			
	LD TREATMENT per boxes:			LAB ANALYSI	S REQUE	STED:	
Přeserved Non-Filter	w/HNO, Pre	WPF: Wate served w/H tered		Mark box i is require	next to	metal	if AA
		NALYTICA	I DES	ULTS (MG/	/1)		
ELEMENT	ICAP VALUE	AA VALU		ELEMENT	ICAP V	ALUE	AA VALUE
Aluminum	<0.1		_	Silicon			
Barium Beryllium	$\frac{\langle 0, }{\langle 0, }$	<u></u>	-	Silver Strontium	-290.	0.1	LJ
Boron	60.		_	Tin	<	0,	
Cadmium Calcium	<u><0. </u> 16000.		-	Vanadium Zinc		0.1	· <u> </u>
Chromium	<0.1	□	-	Arsenic			\$ 50.05
Cobalt	<0.05	Las		Selenium			2 <0.05
Copper	<0.1		_	Mercury			$\Delta < 0.005$
Irón	0.6		_				<u>َ ا</u>
Lead	<0.	└┘	-	<u></u>			Ц
Magnesium Manganese	4780		-	·····		····	॑
Molybdenum			- 1				⊣
Nickel	< 0.1		_		<u> </u>		<u>ا</u>
LAB COMMEN	TS:		l		<u></u>		DIFEST
For OCD Us	e:					^	
Date Owner		IC	AP Ana	lyst	_ Revi	ewer_	Flahly
Phone	or Letter?		+- 1	luned	₩~±-	Dest	and halto
	Initials:	Da	te Ana	ràseq	Date	Revei	rea <u>1-1-1-108</u>



Crosby Satt Lake (BROKE Tank) 11/68



Crosby Salt Lake (BRoke Tank) 11/68



crossy Salt Labe-Broke Tank



Crosby Salt Lake (Broke Tank) 11/22



Crosby Salt Lake (Broke Tank) 11/68



Crosby Salt Labe (Broke Tank) 11/83



crosby Satt Lake (Broke Tant) 11/68



12/2/88 Crosby Salt Lake



Chosley Solt Lake (Broke Touk) 11/68



Crosby Salt Lake (BRoke Fork) 11/68



Crosby Salt Lake (Broke Tank) 11/28



crosby solt Labe (BRokeTonk) 11/55



12/2/88

Crasby Salt Lake



12/2/88

Crosby salt Lake



12/2/88 Crosby Salt Lake



Crasby Salt Lake 12/2/88



12/2/2" " asby Sattria as



Crosly Salt Labe W. Sacility 8/11/88 5 - 29 E - 19. 340



Emengemul Pond - Cresby Sal TLake W. Foelit, 8/11/82 85-298-19,340



Emergency pond - Crasby SolTlake West Socility 8/11/88 85-296-19,340



crosby Salt Labe - West Saculity 8/11/88

85-29E-19.340



Broken Pipe & Spillarea W. Focility Crosby SolTlake 8/11/88

85-295-19,340



Crosby Salt Labe West Saidity 8/11/88

85-295-19,340



crosby Solt Lake-West Facility 5/11/88 85-198-19,340



Crosby Salt Lake - Lespecility 8/11/88 85-29 E - 19,340



crosby SelT Lake - W. Soulity 8/11/88 85-295-19,340



Crosby Salt Lake, West Sacility 8/11/28 85-29E-19,346



Crosby Sult Lake - Litest Facility E/11/88

85.295.19,340



Pipeleab-crosby Salt Lake - West Sacility 8/11/88

85-29 E-19340



Crosby Salt Lake - West Sacility 8/11/88

85-295-19,340



Crosby Salt Lake - West Scelling 8/11/88

85-29E-19,340



Emergency Pond crosby Salt Lake - West fairlify 8/11/88

85-295-19.340