NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor

Joanna Prukop
Cabinet Secretary
Acting Director
Oil Conservation Division

June 1, 2004

Conoco Phillips
Celeste Dale
4001 Penbrook, PB-325
Odessa, TX 79762

Re: Closure Approval
Philmex #32 Flowline Leak
UL-H Sec 28-T17S-R33E

Dear Mr. Anderson,

The remediation closure proposal referenced above and submitted to the New Mexico Oil Conservation Division (OCD) for ConocoPhillips by BBC is **hereby approved.**

Please be advised that OCD approval of this plan does not relieve ConocoPhillips of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve ConocoPhillips of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: psheeeley@state.nm.us

Sincerely,

Paul Sheeley-Environmental Engineer
Cc: Roger Anderson - Environmental Bureau Chief
Chris Williams - District I Supervisor
Larry Johnson - Environmental Engineer

incident - nPAC0606037106
application - pPAC0606037329

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

November 19, 2003

BBC International, Inc., (BBC)
Attn: Ken Swinney
1324 Marland
Hobbs, NM 88240

Re: Work Plan Approval
Philmex #32 Flowline Leak - Dated: October 28, 2003
UL-E Sec 27-T17S-R33E

Dear Mr. Swinney,

The remediation work plan referenced above and submitted to the New Mexico Oil Conservation Division (OCD) for ConocoPhillips by BBC is **hereby approved.**

Please be advised that OCD approval of this plan does not relieve ConocoPhillips of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve ConocoPhillips of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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Sincerely,

Paul Sheeley-Environmental Engineer
Cc: Roger Anderson - Environmental Bureau Chief
Chris Williams - District I Supervisor
William Olson - OCD Hydrologist
Larry Johnson - Environmental Engineer

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Co.**	Contact **Kenneth N. Andersen**
Address **1004 Penbrook, Odessa, TX 79762**	Telephone No. **505.676.5569**
Facility Name **Philmex # 32**	Facility Type **Oil and Gas**

Surface Owner **State of New Mexico**	Mineral Owner **State Of New Mexico**	Lease No **B 2229**

LOCATION OF RELEASE

API# 30025 30396000

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	**28**	**17S**	**33E**	**1980**	**North**	**660**	**East**	**LEA**

Latitude 32.48'26"N **Longitude 103.39'29"W**

NATURE OF RELEASE

Type of Release **Crude Oil & Produced Water**	Volume of Release 7 bbl (2 oil, 5 water)	Volume Recovered (0 oil, 0 water)
Source of Release **Flowline Leak ~ 200' west of Philmex # 22** **UL "E", Sec. 27, T 17S, R 33E, Lea Co., NM**	Date and Hour of Occurrence **07/28/03 10:00pm**	Date and Hour of Discovery **07/29/03 3:30pm**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Internal Corrosion Leak; clamped line; replacing flowline with Marlex or Polyline.

Describe Area Affected and Cleanup Action Taken.*
60'X85' of dry caliche rock/soil pasture. See attachment for Cleanup Action Taken.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Kenneth N. Andersen	OIL CONSERVATION DIVISION
Printed Name: **Kenneth N Andersen**	Approved by District Supervisor:
Title: **SHEaR Specialist**	Approval Date: / Expiration Date:
E-mail Address: **ken.n.andersen@conocophillips.com**	Conditions of Approval: / Attached ☐
Date: **05/25/04** Phone: **505.676.5569**	

- Attach Additional Sheets If Necessary

ConocoPhillips

Philmex # 32 attachment.

There is no water source or surface water within 1,000 feet of the spill site and the site is not in a Wellhead Protection Area. Based on data from the USGS Ground-water levels for the Nation web page, depth to ground water is approximately 167 feet. Due to the above data, the Ranking Criteria Score from the NMOCD "Guideline for Remediation of Leaks, Spills, and Releases" is 10ppm Benzene, 50ppm BTEX, and 5,000ppm TPH.

On September 4, 2003, ConocoPhillips Co. (COPC) personnel took a four-point composite sample. As you can see by the enclosed laboratory data, the results for TPH and BTEX are below NMOCD cleanup guidelines for groundwater depths greater than 100 feet. The result for the chloride concentration however, is 37200mg/kg.

On September 17, 2003, BBC International personnel (Ken Swinney, phone # 505.397.6388, e-mail address kswinney@bbcinternational.com) took four grab and one four-point sample of the spill site. As you can see by the enclosed laboratory data, the result for chloride concentrations is still high.

On October 10, 2003, BBC personnel returned to the site and bored the spill site to a depth of 20 feet. As you can see by the enclosed laboratory data, chlorides clean up to 80mg/kg at 20 feet.

On October 28, 2003, ConocoPhillips Co. submitted a recommendation prepared by BBC International to remove the surface soils to the hard rock layer at approximately two feet below the surface, which was approved by Paul Sheeley of the NMOCD in his letter dated November 19, 2003.

In March 2004, the top two feet of soil was removed from the spill site and four grab samples were taken on March 17, 2004 with the chlorides still high (see enclosed laboratory results). On April 5, 2004, three inches of soil was removed and a composite sample taken on April 19, 2004 with chloride remaining high (see enclosed laboratory results). Another three inches of soil was removed and a composite sample taken on May 6, 2004 with chloride finally at 176mg/kg (see enclosed laboratory results).

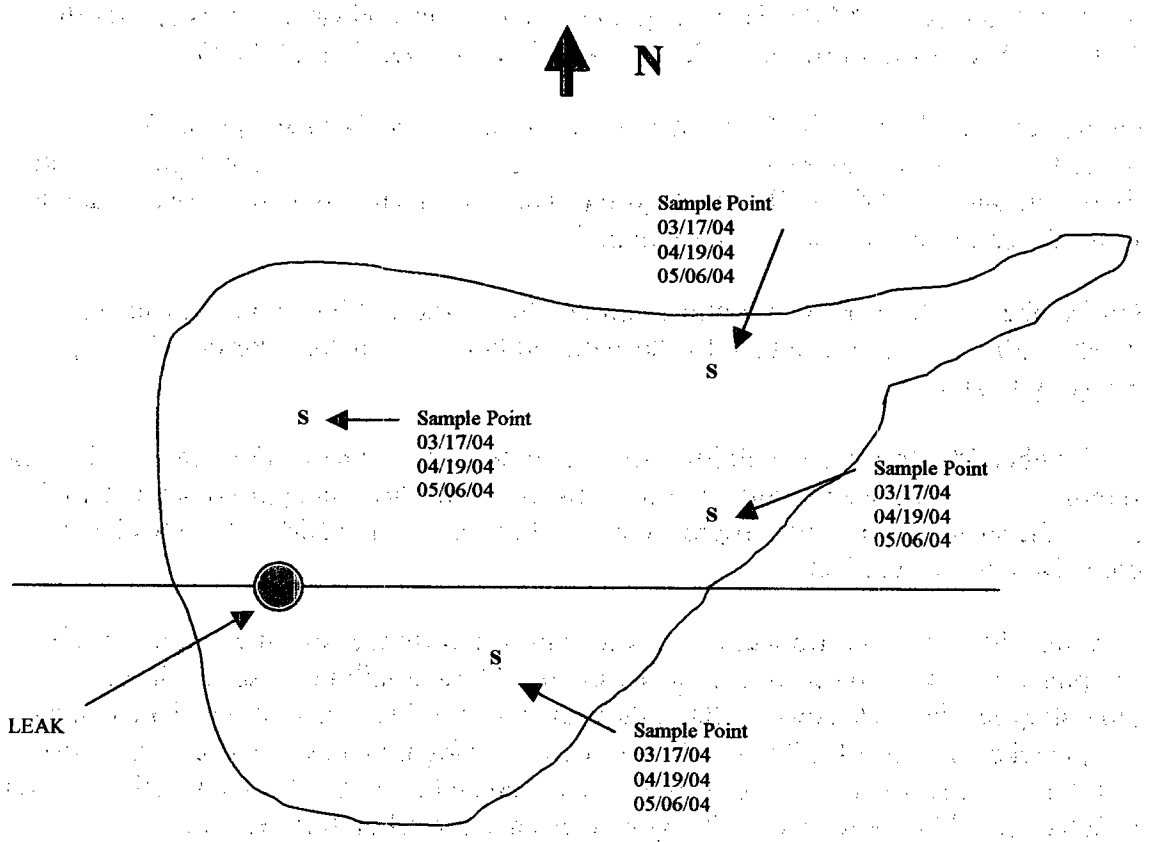
Taking into consideration that the depth to groundwater is greater than 147 feet, and the subsurface soil lithology at the site consists of caliche and sandstone layers; it is evident that the migration of the chlorides of this spill to groundwater is unlikely.

H_2S is a safety concern at the spill site.

ConocoPhillips

The driving directions to the spill site are as follows:
From the Buckeye store go North on 238 to intersection with CR 125. Turn West on CR 125 and go approximately 8 miles to dirt road. Turn North on road to wellsite Philmex # 22. The spill site is about 200 feet West of Philmex # 22. (See enclosed map).

Therefore, ConocoPhillips is submitting this completed closure plan for NMOCD approval. Should there be any questions, please contact me at 505.390.4821. Thank You.



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

November 19, 2003

BBC International, Inc., (BBC)
Attn: Ken Swinney
1324 Marland
Hobbs, NM 88240

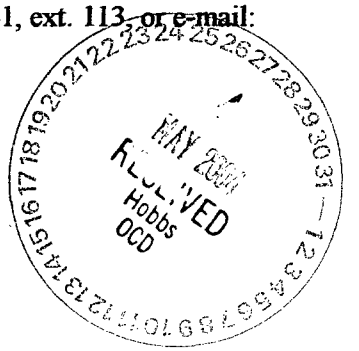
Re: Work Plan Approval
Philmex #32 Flowline Leak - Dated: October 28, 2003
UL-E Sec 27-T17S-R33E

Dear Mr. Swinney,

The remediation work plan referenced above and submitted to the New Mexico Oil Conservation Division (OCD) for ConocoPhillips by BBC is **hereby approved.**

Please be advised that OCD approval of this plan does not relieve ConocoPhillips of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve ConocoPhillips of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113 or e-mail: psheeeley@state.nm.us



Sincerely,

Paul Sheeley-Environmental Engineer

Cc: Roger Anderson - Environmental Bureau Chief
Chris Williams - District I Supervisor
William Olson - OCD Hydrologist
Larry Johnson - Environmental Engineer

ConocoPhillips Philmex #32
Flowline Leak 07-28-03

1.0 INTRODUCTION

The subject site is located east of Maljamar, New Mexico in Unit Letter E of Section 27, Township 17 South, Range 33 East. The site consists of undeveloped rangeland. On July 28, 2003, a 2.0 inch flowline for the Philmex #32 well, leaked approximately 5 barrels of produced water and 2 barrels of oil. The leak was discovered on July 29, 2003.

2.0 SITE CHARACTERIZATION

The leak area runs North-South for approximately 85 feet and East-West for approximately 60 feet. The surface soil is brown dirt mixed with caliche. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the New Mexico Office of the State Engineer, depth to ground water is approximately 160 feet.

3.0 SITE INVESTIGATION ACTIVITIES

On September 4, 2003, ConocoPhillips personnel took a four point composite sample at the site for laboratory analysis. This sample was taken at a depth of 1 foot. The laboratory results are located in Appendix I. On September 17, 2003, BBC personnel conducted an inspection of the site. Four grab samples and one four point composite sample were collected at the site at a depth of 1 foot. The laboratory results are located in Appendix II. On October 10, 2003, BBC personnel returned to the site to take additional soil samples at a greater depth. One sample point was drilled at the approximate center of the leak site to a depth of 20 feet, using an air rotary drilling rig. Field screening consisted of field chloride titrations. Samples were taken at the 3', 5', 10', 15', and 20' intervals. All samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis. Laboratory results are located in Appendix III. A site drawing showing the locations of the sample points is located on Figure I. Laboratory analysis of the reservoir fluids is also available for review in Appendix IV.

4.0 CONCLUSION AND RECOMMENDATION

Laboratory results for TPH and BTEX are below OCD cleanup guidelines for groundwater depths greater than 100 feet. The data shows a significant reduction in chloride concentrations from an average of 37,200 ppm at 1 foot, to 3439 ppm at 3 feet, and 80 ppm at 20 feet. Taking into consideration that the depth to groundwater is greater than 150 feet, and the subsurface soil lithology at the site consists of caliche and sandstone layers, it is evident that the migration of chlorides to groundwater is unlikely. Therefore it is recommended that the surface soils be removed to the hard rock layer at

approximately 2 feet below surface. The excavated soil will be disposed of at an OCD approved disposal site. Clean soil will be used to backfill the excavation and the site will be seeded with BLM #3 seed mix to revegetate.

ConocoPhillips

SPILL CATEGORY: C

Record of Accidental Discharge of Crude Oil, Water or Hazardous Substances

PERMIAN BASIN BUSINESS UNIT - EXPLORATION AND PRODUCTION

1. Lease	PHILMEX # 32	2. Field	MALJAMAR	3. Person in charge of site	LYLE HIGDON
4. Person Reporting Discharge	JOE JACKSON	Person Receiving Report	KEN ANDERSEN		
5. Discharge Discovered By	JOE JACKSON	Date and Time Discovered	7-29-03 AT 3:30 P.M.		
Witnesses	NONE				
6. How Did Company Learn of Discharge	JOE JACKSON CALLED BUKEYE OFFICE THEN BUCKEYE OFFICE GOT A HOLD OF LYLE HIGDON				
7. Date and Time Discharge Began	7-28-03 10:00 P.M.	7a. Date and Time Discharge Ended	7-29-03 AT 4:00 P.M.	8. Date and Time Initial Report Received	7-29-03 AT 3:30 P.M.
9. Discharge Site	Unit Letter	Sec 28	Blk./TWP 17S-R33E	County LEA	Lease No.
Highway Map Location	GO NORTH ON COUNTY ROAD 125 APPR. 8 MILES TURN NORTH ON CALICHES ROAD GO APPR. 1/4 MILE LEAK WAS ON EAST SIDE OF ROAD 1000 FEET			Survey/Range	R33
				State	N.M
10. Location of Discharge	EAST OF PHILMEX # 32	X	Flowline	2000	feet to Wellhead No 32
			Injection Line		feet to Wellhead No

11. Specific Source of Discharge Pipe 2 inches

- ☒ Steel ☐ Buried ☐ Coated ☐ Line Chem Treated
- ☐ Fiberglass ☐ Surface ☒ Internal
- ☐ Plastic ☒ Bare ☐ CMT ☐ PL ☐ Fbgl.
- ☐ Transite ☐ External

- ☐ Tank Piping
- ☐ Vessel Piping
- ☐ Line Check Valve
- ☐ Wellhead Connections
- ☐ Tank
- ☐ Vessel

- ☐ Chemical Storage Containers
- ☐ Chemical Storage Units
- ☐ Injection Equipment
- ☐ Pump
- ☐ Casing/Tubing Communication

12. Possible Reason for Discharge

- ☒ Corrosion
- ☐ External
- ☒ Internal
- ☒ Fatigue
- ☒ Age
- ☐ Human Error
- ☐ Pressure
- ☐ Instrumentation
- ☐ Mechanical
- ☐ Weather

12a. Describe Cause of Discharge and Action Taken to Prevent Reoccurrence

EXTERNAL CORROSION LEAK WILL REPLACE FLOWLINE WITH MARLE OR POLY LINE

13. Names and Volumes of Substances Involved					14. Remedial Action – Picked Up				
2	Bbls. Oil	5	Bbls. Water	☐ Fresh		B/O		B/W	☐ Fresh
	Other		Other Volume	☒ Salt		Other Volume			☐ Salt

15. Describe Nature and Extent of Area Affected and Cleanup Action Take	10FOOT x 20 FOOT AREA AFFECTED WILL REMEDIATE AREA	Contained Within Dike ? ☐ Yes ☒ No

16. Water Courses Reached ☒ None ☐ River ☐ Creek ☐ Pond ☐ Running ☐ Dry ☐ Intermittent

Name

Volume Entering Water: Bbls. Oil; Bbls. Water; Other

17. How Was Discharge Stopped	CLAMPED LINE

18. Operating Conditions at Time of Discharge ☒ Pumping Well ☐ Flowing Well

Injection Well BWPD at psi BOPD 3 BWPD 30 Line psi 30

19. General Weather Conditions at Time of Discharge	SUNNY	20. Cost of Repair/Cleanup	$ 800

21. Federal. State, and Local Agencies Notified and/or Non-Company On--Site Investigators

Agency	Person Notified	Date/Time Notified	Method Used	Person Notifying

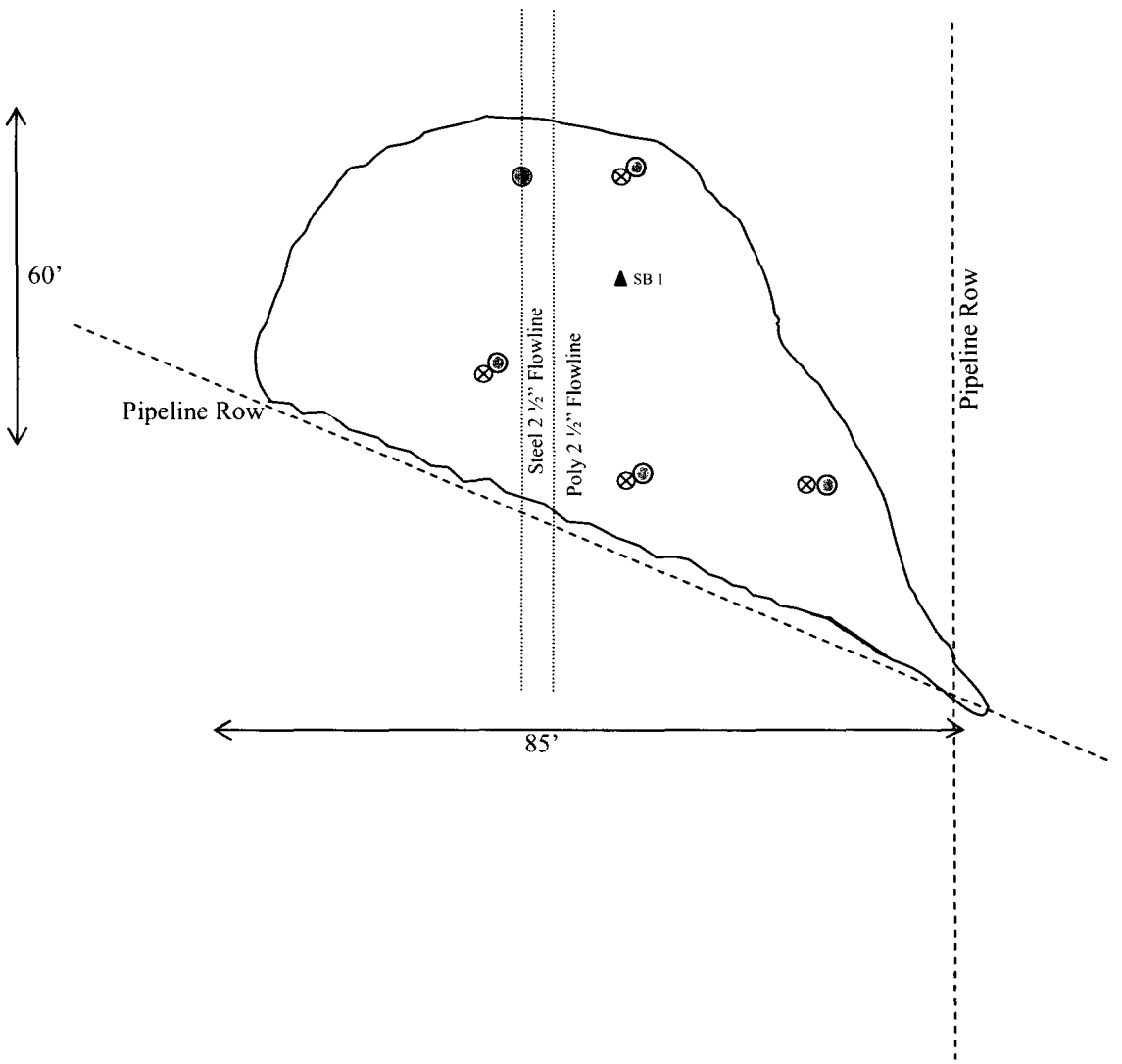
22. State/Federal Lease No.		Unit/CA No.		Right of Way No.	
23. Landowner/Tenant				Telephone Number:	

I Hereby Certify That The Information Above Is True and Complete To The Best of My Knowledge.

Name and Title	LYLE HIGDON MSO
Date and Location	7-30-03 MALJAMAR OFFICE

Figure 1

CONOCOPHILLIPS
PHILMEX 32 FLOWLINE



LEGEND

- Leak point
- BBC sample point - grab sample
- ConocoPhillips composite sample
- Soil Boring

BBC INTERNATIONAL, INC.	
CONOCO ELVIS TRUNKLINE	
Date: 10-28-03	Drawn By: JG
Disk:	Sheet of Sheets
Scale: Not to Scale	File Name

Appendix I

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CONOCO PHILLIPS
ATTN: KEN ANDERSEN
P.O. BOX 180
MALJAMAR, NM 88264-0180
FAX TO: (505) 676-2377

Receiving Date: 09/04/03
Reporting Date: 09/05/03
Project Number: NOT GIVEN
Project Name: CLOSURE TEST
Project Location: MALJAMAR, NM

Sampling Date: 09/04/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		09/04/03	09/04/03	09/04/03
H7969-1	MCA 2-A	<10.0	281	2100
H7969-2	PHILMEX #32	<10.0	2340	37200
Quality Control		804	847	1000
True Value QC		800	800	1000
% Recovery		100	106	100
Relative Percent Difference		2.6	2.1	7.0

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

Chemist

9/5/03
Date

H7969 XLS

CARDINAL LABORATORIES, INC.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name:	ConocoPhillips
Project Manager:	Ken Andersen
Address:	P.O. Box 180
City:	Maljamar State: NM Zip: 88264-0180
Phone #:	390-4821 Fax #: 676-2377
Project #:	1 Project Owner: Ken Andersen
Project Name:	closure Test
Project Location:	Maljamar
Sampler Name:	Ken Andersen

BILL TO

P.O. #:	
Company:	
Attn:	same
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	TPH 8015M	Chlorides
H7969-1	MCA 2-A	C	1			X							9-4-03	0808		X
-2	Phimex #32	C	1			X							9-4-03	0854	X	X

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

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

Sampler Relinquished:	Date: 9-4-03	Received By:	
Ken Andersen	Time: 0956		
Relinquished By:	Date:	Received By: (Lab Staff)	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition Cool	Intact	CHECKED BY: (Initials)
☑ Yes ☐ No	☐ Yes ☐ No	

Phone Result:	☐ Yes	☐ No	Add'l Phone #:
Fax Result:	☐ Yes	☐ No	Add'l Fax #:
REMARKS:			

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

Appendix II

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: C. BRUNSON
P.O. BOX 805
HOBBS, NM 88240
FAX TO: (505) 397-0397

Receiving Date: 09/18/03
Reporting Date: 09/24/03
Project Owner: CONOCO PHILLIPS
Project Name: PHILMEX 32
Project Location: MALJAMAR, NM

Analysis Date: 09/18/03
Sampling Date: 09/17/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H8013-2	GRAB #1	10100
H8013-3	GRAB #2	57200
H8013-4	GRAB #3	43600
H8013-5	GRAB #4	38400
Quality Control		970
True Value QC		1000
% Recovery		97.0
Relative Percent Difference		1.0

METHOD: Std. Methods	4500-Cl^-B

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Amy Hill
Chemist

9/24/03
Date

H8013A.XLS

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: C. BRUNSON
P.O. BOX 805
HOBBS, NM 88240
FAX TO: (505) 397-0397

Receiving Date: 09/18/03
Reporting Date: 09/19/03
Project Owner: CONOCO PHILLIPS
Project Name: PHILMEX 32
Project Location: MALJAMAR, NM

Sampling Date: 09/17/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		09/18/03	09/18/03	09/18/03	09/18/03
H8013-1	COMPOSITE #1	<0.005	0.008	0.014	0.028
Quality Control		0.097	0.102	0.099	0.295
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97.4	102	99.3	98.2
Relative Percent Difference		2.8	2.5	0.5	1.2

METHOD: EPA SW-846 8260

Chemist

9/19/03
Date

CARDINAL LABORATORIES, INC.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	BBC International, Inc.	BILL TO	PO #:
Project Manager:	C. Brunson	Company:	
Address:	1324 W. Marland	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	
Phone #:	(505) 397-6388	City:	
Fax #:	(505) 397-0397	State:	Zip:
Project #:	Project Owner: Conoco Phillips	Phone #:	
Project Name:	Philmex 32	Fax #:	
Project Location:	Maljamar, N.M.		

FOR LAB USE ONLY LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRES.: ACID:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chloride	BTEX
H8313-1	Composite #1	C	1			✓					✓		9-17-03	14:50		✓
-2	Grab #1	G	1			✓					✓		9-17-03	14:52	✓	
-3	Grab #2	G	1			✓					✓		9-17-03	14:54	✓	
-4	Grab #3	G	1			✓					✓		9-17-03	14:57	✓	
-5	Grab #4	G	1			✓					✓		9-17-03	14:59	✓	

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

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

Sampler Relinquished: Ken Lowrey	Date: 9-17-03 Time: 17:06	Received By: Jaime D'Aponte	Phone Result ☐ Yes ☐ No Additional Fax #:
Relinquished By: Jaime D'Aponte	Date: 9-18-03 Time: 8:06	Received By: (Lab Staff) Sayde Patterson	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☑ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)	REMARKS:

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

Appendix III

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 10/02/03
Reporting Date: 10/03/03
Project Owner: CONOCO PHILLIPS
Project Name: PHILMEX 32 FLOWLINE
Project Location: MALJAMAR, NM

Analysis Date: 10/03/03
Sampling Date: 10/02/03
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H8062-1	PHILMEX 32-SB1-3'	3439
H8062-2	PHILMEX 32-SB1-5'	3359
H8062-3	PHILMEX 32-SB1-10'	304
H8062-4	PHILMEX 32-SB1-15'	144
H8062-5	PHILMEX 32-SB1-20'	80
Quality Control		1050
True Value QC		1000
% Recovery		105
Relative Percent Difference		6.7

METHOD: Standard Methods	4500-ClB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Amy Hill
Chemist

10/3/03
Date

h8062

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: N.M. Zip: 88240
Phone #:	(505) 397-6388 Fax #: (505) 397-0397
Project #:	— Project Owner: ConocoPhillips
Project Name:	Philmex 32 Flowline
Project Location:	Maljamar N.M.
Sampler Name:	Ken Sweeney

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	SAME
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

Chlorides

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chlorides
H8062-1	Philmex 32-SB1-3'	G	1			✓					✓		10-2-03	12:27	✓
-2	Philmex 32-SB1-5'	G	1			✓					✓		10-2-03	12:30	✓
-3	Philmex 32-SB1-10'	G	1			✓					✓		10-2-03	12:37	✓
-4	Philmex 32-SB1-15'	G	1			✓					✓		10-2-03	13:18	✓
-5	Philmex 32-SB1-20'	G	1			✓					✓		10-2-03	13:23	✓

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

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

Sampler Relinquished: Ken Sweeney	Date: 10-2-03 Time: 16:00	Received By:	Phone Result: ☐ Yes ☐ No
Relinquished By:	Date: 10/2/03 Time: 4:20	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Temp. °C: cool; Intact? ☑ Yes ☐ No	Checked By: (Initials)	REMARKS:

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

Appendix IV

Analytical Laboratory Report for:

Phillips

BJ Unichem Chemical Services

UNICHEM Representative:

Production Water Analysis

Listed below please find water analysis report from: *Phil Mex, #33*

Lab Test No:	23441	Sample Date:	02/07/1999
Specific Gravity:	1.075		
TDS:	113909		
pH:	7.07		

Cations:	mg/L	as:
Calcium	2839	(Ca^{++})
Magnesium	841	(Mg^{++})
Sodium	39773	(Na^{+})
Iron	75.05	(Fe^{++})
Barium	0.24	(Ba^{++})
Strontium	47.66	(Sr^{++})
Manganese	1.46	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	732	(HCO_3^{-})
Hydroxide	0.00	(OH^{-})
Sulfate	4600	($SO_4^{=}$)
Chloride	65000	(Cl^{-})
Gases:		
Carbon Dioxide	40	(CO_2)
Hydrogen Sulfide	51	(H_2S)

Comments:

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CONOCO PHILLIPS
ATTN: KEN ANDERSEN
P.O. BOX 180
MALJAMAR, NM 88264-0180
FAX TO: (505) 676-2377

Receiving Date: 03/17/04
Reporting Date: 03/17/04
Project Number: NOT GIVEN
Project Name: PHILMEX #32
Project Location: MALJAMAR, NM

Analysis Date: 03/17/04
Sampling Date: 03/17/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H8534-1*	GRAB #1	512
H8534-2	GRAB #2	5678
H8534-3	GRAB #3	7598
H8534-4	GRAB #4	8877
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Difference		0

METHOD: Standard Methods	4500-ClB

Note: Analyses performed on 1:4 w:v aqueous extracts.
*Matrix interference (color) observed.

Amy Hill
Chemist

3/17/04
Date

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CONOCO PHILLIPS
ATTN: KEN ANDERSEN
P.O. BOX 180
MALJAMAR, NM 88264-0180
FAX TO: (505) 676-2377

Receiving Date: 04/19/04
Reporting Date: 04/20/04
Project Number: NOT GIVEN
Project Name: PHILMEX 32
Project Location: MALJAMAR, NM

Analysis Date: 04/20/04
Sampling Date: 04/19/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H8618-1	PHILMEX 32	5438
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Difference		5.0

METHOD: Standard Methods	4500-ClB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Amy Hill
Chemist

4/20/04
Date

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
CONOCO PHILLIPS
ATTN: KEN ANDERSEN
P.O. BOX 180
MALJAMAR, NM 88264-0180
FAX TO: (505) 676-2377

Receiving Date: 05/06/04
Reporting Date: 05/07/04
Project Number: NOT GIVEN
Project Name: PHILMEX 32
Project Location: MALJAMAR, NM

Analysis Date: 05/07/04
Sampling Date: 05/06/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H8677-1	PHILMEX 32	176
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent Difference		3.0

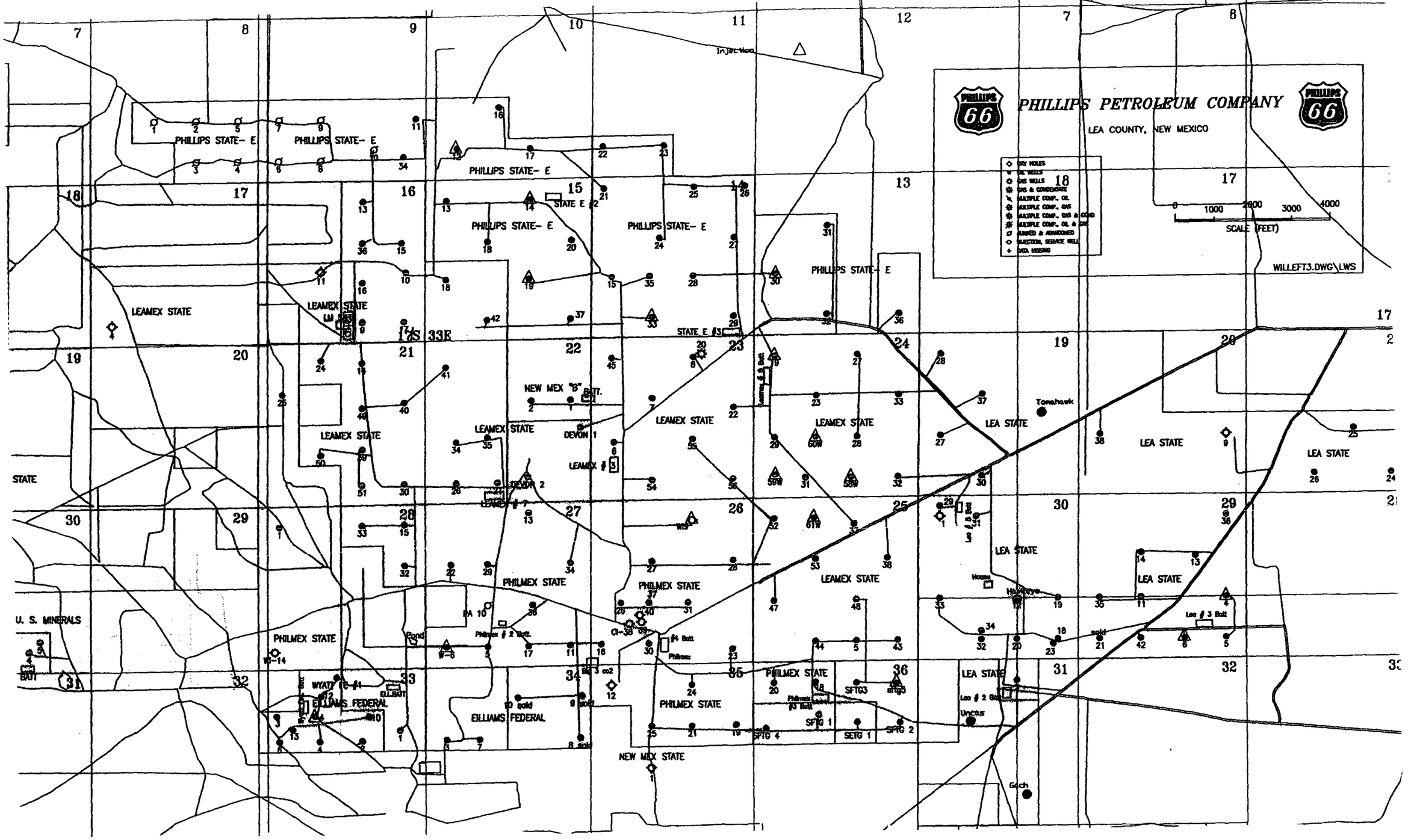
METHOD: Standard Methods	4500-Cl^-B

Note: Analysis performed a on 1:4 w:v aqueous extract.

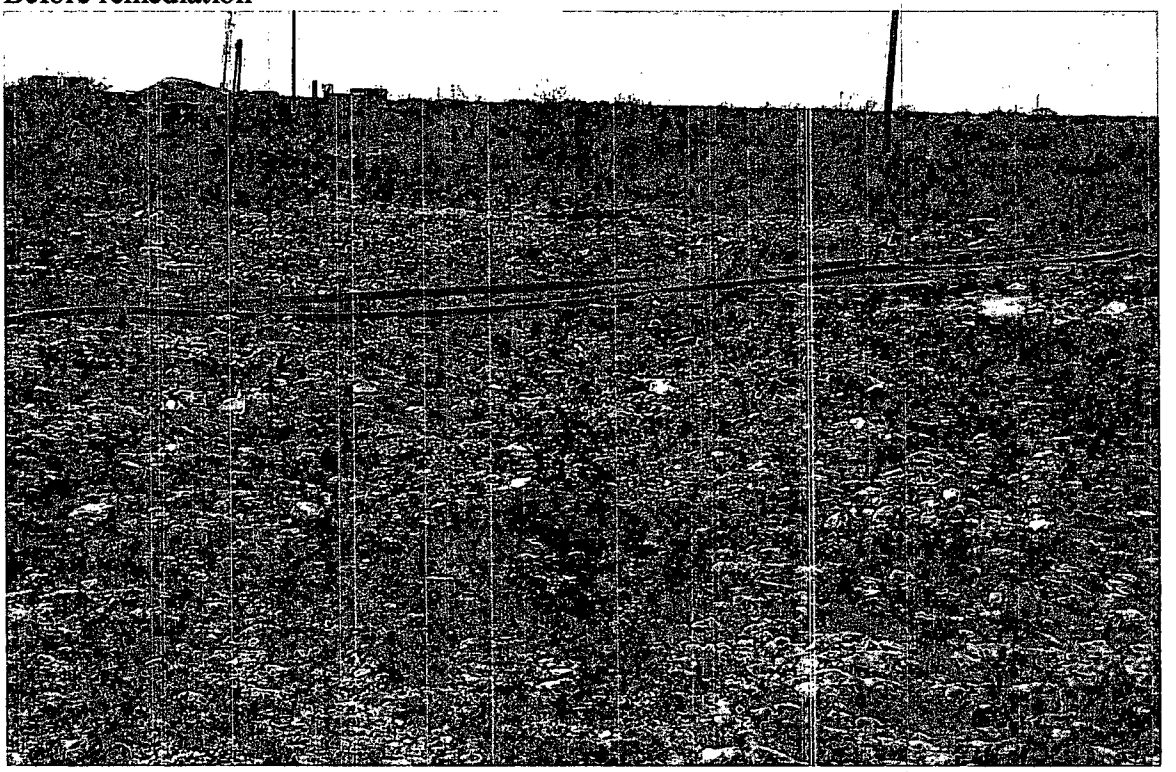
Amy Hill
Chemist

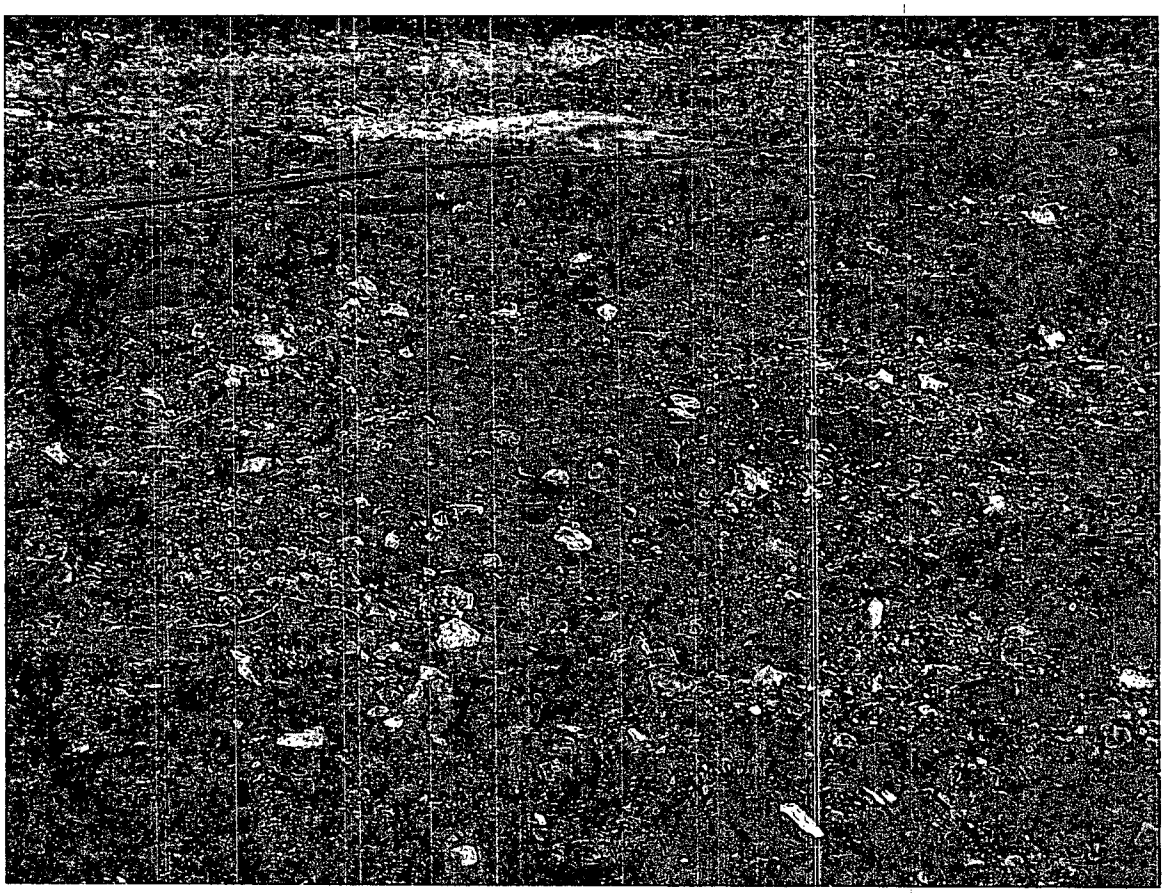
5/7/04
Date

H8677

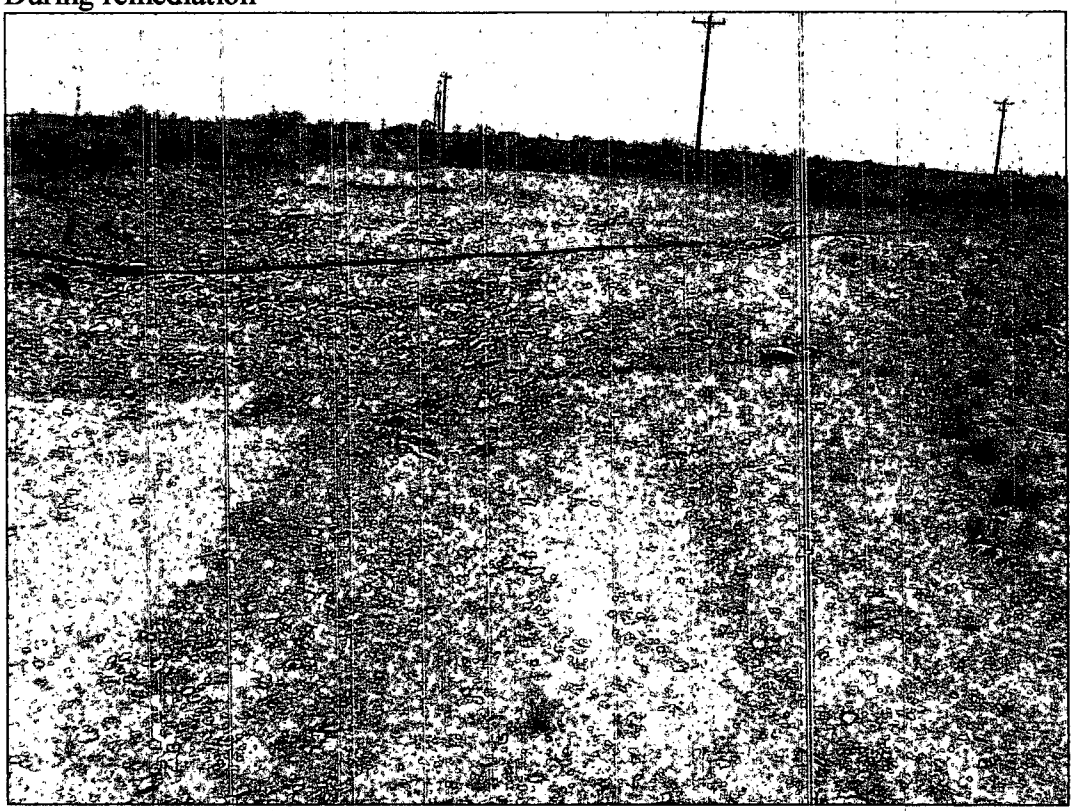

PHILLIPS PETROLEUM COMPANY
LEA COUNTY, NEW MEXICO
PHILLIPS 66
DRY HOLES
OIL WELLS
GAS WELLS
OIL & CONDENSATE
MULTIPLE COMP., OIL
MULTIPLE COMP., GAS
MULTIPLE COMP., OIL & GAS
PLUGGED & ABANDONED
INJECTION, SERVICE WELL
DATA MISSING
0 1000 2000 3000 4000
SCALE (FEET)
WILLEFT3.DWG\LWS
17S 33E
PHILLIPS STATE- E
LEAMEX STATE
NEW MEX "B" BATT.
DEVON 1
DEVON 2
LEAMEX # 5
LEAMEX # 7
STATE E #3
PHILMEX STATE
WYATT FEDERAL
WILLIAMS FEDERAL
NEW MEX STATE
LEA STATE
U. S. MINERALS
Tomahawk
Hawkeye
Gatch
Units
Pond
House

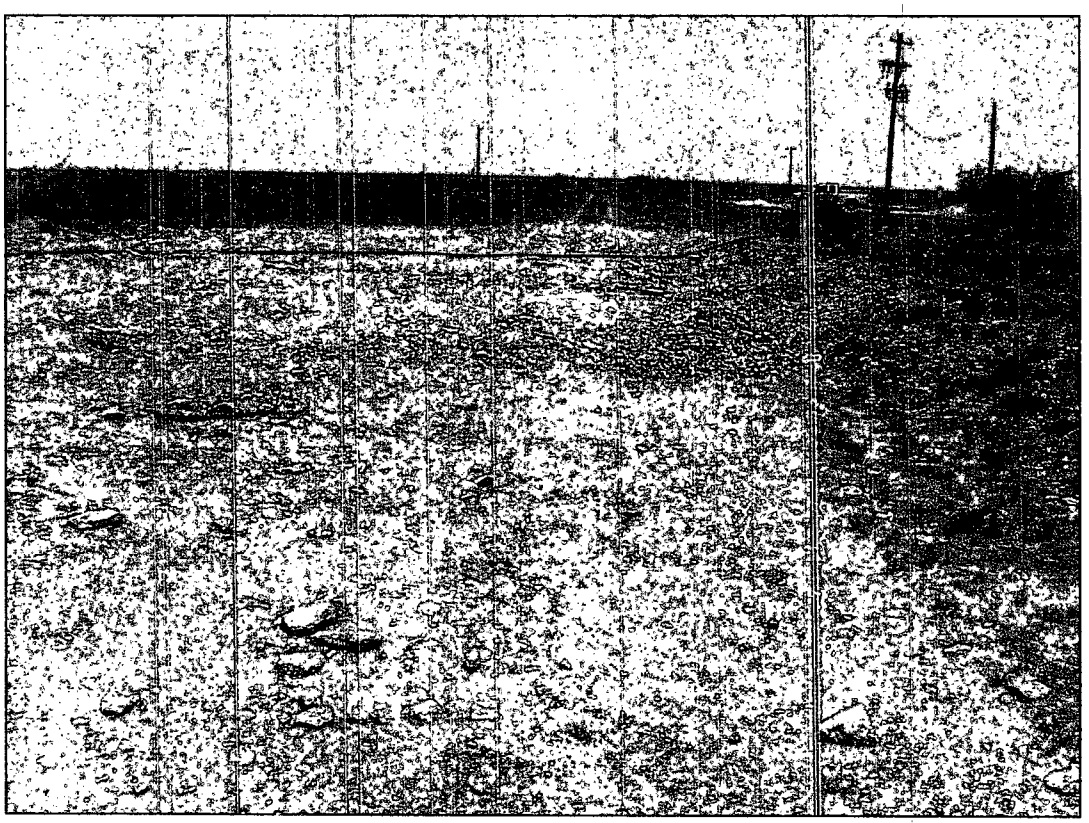
Before remediation





During remediation





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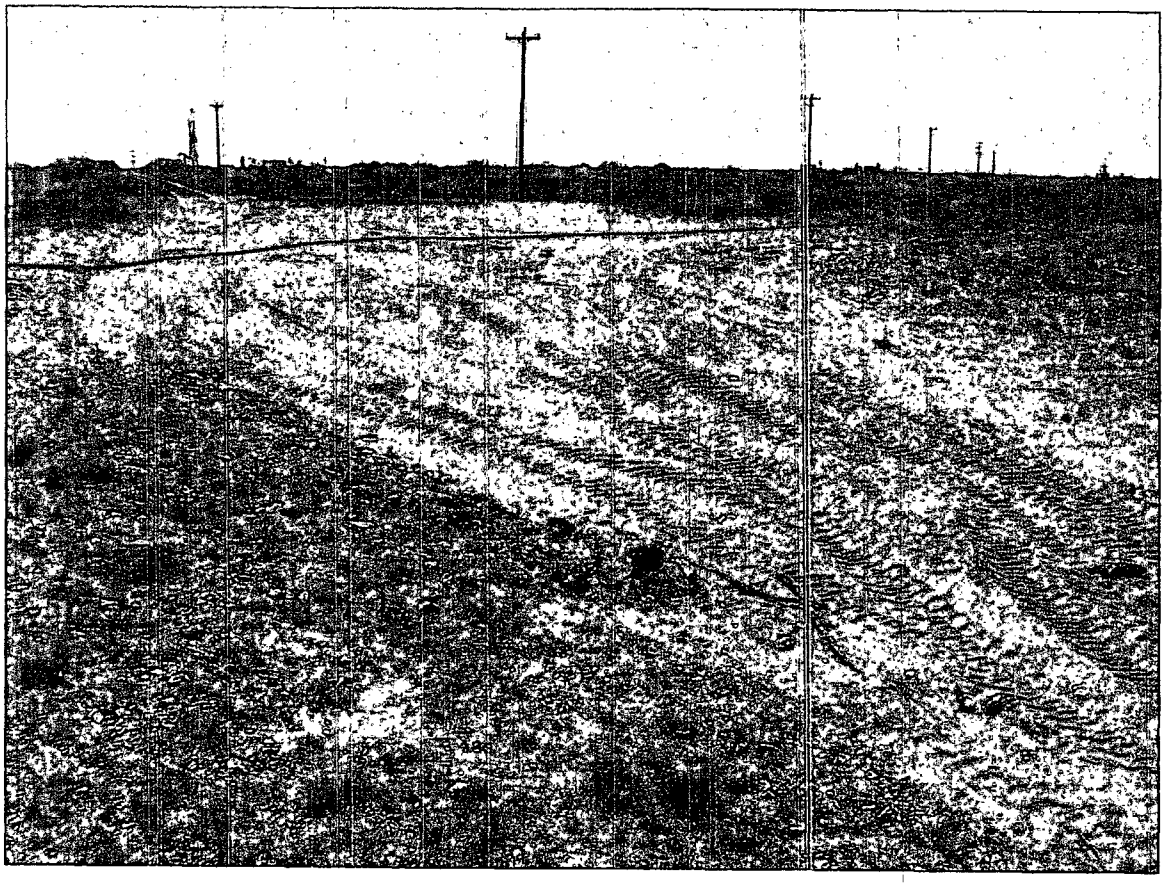

Water Resources

Data Category: Ground Water | Geographic Area: United States | go

Ground-water levels for the Nation

Search Results -- 1 sites found

Search Criteria

Agency code = usgs
site_no list = • 324940103365801

Save file of selected sites to local disk for future upload

USGS 324940103365801 17S.33E.13.34122

Lea County, New Mexico
Latitude 32°49'40", Longitude 103°36'58" NAD27
Gage datum 4,125.00 feet above sea level NGVD29
The depth of the well is 252 feet below land surface.
This well is completed in OGALLALA FORMATION (121OGLL)

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	Water level, feet below land surface	Status
1952-05-24		147.77	
1952-07-23		148.09	
1952-08-01		147.98	
1952-09-01		148.39	
1952-10-01		148.19	
1952-11-01		147.74	
1952-12-01		146.97	
1953-01-01		146.36	
1953-02-01		146.05	
1953-03-01		146.86	
1953-04-01		147.96	
1953-05-01		148.21	
1953-06-01		148.39	
1953-07-01		148.74	

Date	Time	Water level, feet below land surface	Status
1965-08-01		159.75	
1965-09-01		159.70	
1965-10-01		159.79	
1965-11-01		159.70	
1965-12-01		159.65	
1966-01-01		159.77	
1966-01-13		160.84	
1966-02-01		159.95	
1966-02-07		159.74	
1966-04-01		159.85	
1966-05-01		159.89	
1966-07-01		160.12	
1967-01-09		160.51	
1968-01-08		161.43	

1953-08-01		149.21		1969-01-09		162.09	
1953-09-01		148.79		1970-01-05		161.08	
1953-10-01		149.22		1970-01-12		162.18	
1953-11-01		149.21		1970-08-26		161.20	
1953-12-03		149.54		1971-01-13		161.34	
1954-01-01		148.79		1972-01-12		160.57	
1954-01-03		149.82		1973-01-10		161.99	
1954-02-01		148.29		1973-08-08		162.65	
1954-03-01		147.84		1974-01-08		163.23	
1954-04-01		148.62		1974-08-13		164.48	
1954-05-01		149.49		1975-01-08		165.46	
1954-06-01		149.76		1975-03		165.70	
1954-07-01		150.20		1975-04		165.63	
1954-08-01		150.31		1975-05		165.79	
1954-09-01		150.53		1975-06		165.83	
1954-10-01		150.59		1975-07		166.10	
1954-11-01		150.25		1975-08		166.38	
1954-12-01		150.29		1975-08-12		166.46	
1955-01-01		150.12		1975-09		166.44	
1955-01-10		151.46		1975-10		166.52	
1955-02-01		150.07		1975-11		166.46	
1955-03-01		150.38		1975-12		166.60	
1955-04-01		150.07		1976-01		167.09	
1955-05-01		149.97		1976-01-13		167.18	
1955-06-01		149.90		1976-02		167.03	
1955-07-01		150.36		1976-03		167.02	
1955-08-01		150.52		1976-04		167.02	
1955-09-01		150.47		1976-05		167.21	
1955-10-01		150.53		1976-06		167.25	
1955-11-01		150.99		1976-07		167.37	
1955-12-01		151.09		1976-08		167.44	
1956-01-05		151.49		1976-08-10		167.39	
1956-01-13		152.59		1976-09		167.65	
1956-03-14		151.93		1976-10		167.71	
1956-05-09		151.86		1976-11		167.76	
1956-07-26		152.35		1976-12		167.96	
1956-09-07		152.50		1977-01		168.12	
1956-11-30		152.70		1977-01-08		170.70	

1957-01-15		153.67		1977-02		168.27	
1957-01-23		152.57		1977-03		168.44	
1957-03-06		152.97		1977-04		168.59	
1957-03-18		154.29		1977-05		168.73	
1957-06-06		153.19		1977-06		168.99	
1957-09-11		153.78		1977-07		169.05	
1958-01-15		154.14		1977-08		169.29	
1958-01-20		155.24		1977-08-01		169.26	
1958-06-22		154.76		1977-09		169.56	
1958-09-10		154.90		1977-11		169.53	
1959-01-16		156.20		1977-12		169.76	
1959-01-18		155.10		1978-01		169.71	
1959-03-10		155.14		1978-01-04		169.82	
1959-06-02		155.44		1978-02		169.55	
1959-09-15		155.51		1978-03		169.82	
1960-01-07		157.04		1978-04		170.03	
1960-01-15		155.44		1978-05		170.19	
1960-03-23		156.06		1978-06		170.38	
1960-06-02		156.22		1978-07		170.62	
1960-09-01		156.47		1978-08		170.75	
1960-11-22		156.90		1978-08-09		170.76	
1961-01-01		156.81		1978-09		170.86	
1961-01-06		158.01		1978-10		171.00	
1961-01-17		156.91		1978-11		170.96	
1961-02-01		156.77		1978-12		170.86	
1961-03-01		156.70		1979-01		171.19	
1961-04-03		156.67		1979-01-04		171.04	
1961-05-01		156.74		1979-02		171.43	
1961-06-01		156.94		1979-03		171.65	
1961-07-01		157.00		1979-04		171.88	
1961-08-01		157.11		1979-05		172.09	
1961-09-01		157.22		1979-06		172.18	
1961-10-01		157.22		1979-07		172.21	
1961-11-01		157.14		1979-07-25		172.26	
1961-12-01		157.34		1979-08		172.44	
1962-01-04		158.74		1979-09		172.30	
1962-01-15		157.40		1979-10		172.32	
1962-02-01		157.46		1979-11		172.55	

1962-03-01		157.54		1979-12		172.74	
1962-04-01		157.57		1980-01		172.91	
1962-05-01		157.71		1980-01-03		172.80	
1962-06-01		158.00		1980-02		173.04	
1962-07-01		157.50		1980-03		173.23	
1962-08-01		157.67		1980-04		173.32	
1962-09-01		158.08		1980-05		173.52	
1962-10-01		158.30		1980-06		173.61	
1962-11-01		158.30		1980-07		173.69	
1962-12-01		158.10		1980-08		173.82	
1963-01-01		158.11		1980-09		173.88	
1963-01-03		159.31		1980-10		174.06	
1963-02-01		158.22		1981-01-06		174.33	
1963-03-01		158.10		1981-08-27		174.74	
1963-04-01		158.30		1982-01-06		173.93	
1963-05-01		158.21		1982-08-31		173.73	
1963-06-01		158.27		1983-01-03		171.49	
1963-07-01		158.30		1983-08-17		171.72	
1963-08-01		158.35		1984-01-05		170.38	
1963-09-01		158.48		1984-09-04		171.28	
1963-10-01		158.49		1985-01-08		168.79	
1963-11-01		158.48		1985-08-27		169.18	
1963-12-01		158.46		1986-01-08		169.50	
1964-01-01		158.57		1986-09-03		169.95	
1964-01-11		159.70		1987-01-06		174.15	
1964-02-01		158.64		1987-08-19		169.76	
1964-03-01		158.74		1988-01-07		170.35	
1964-04-01		158.64		1988-08-03		170.60	
1964-05-01		158.88		1989-01-04		172.42	
1964-06-01		158.89		1989-08-07		174.79	
1964-07-01		158.95		1990-01-02		172.80	
1964-08-01		158.96		1990-08-28		173.60	
1964-09-01		158.93		1991-01-02		171.50	
1964-10-01		159.08		1991-07-29		174.59	
1964-11-01		159.20		1991-12-11		173.74	
1964-12-01		159.03		1992-01-08		179.10	
1965-01-01		159.15		1992-08-19		175.96	
1965-01-12		160.40		1993-01-04		177.80	

1965-02-01		159.14	
1965-03-01		159.20	
1965-04-01		159.20	
1965-05-01		159.28	
1965-06-01		159.41	
1965-07-01		159.49	

1993-07-15		176.27	
1994-01-08		178.15	
1994-08-23		178.75	
2000-01-03		172.39	
2001-01-03		172.05	
2002-01-03		170.60	
2003-01-05		168.34	
2004-01-08		167.87	

Questions about data h2oteam@usgs.gov
Feedback on this website gs-w_support_nwisweb@usgs.gov

Top
Explanation of terms

Ground water for USA: Water Levels
http://waterdata.usgs.gov/nwis/gwlevels?

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Department of the Interior, U.S. Geological Survey
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1.1 1.07 nadww01

CONOCOPHILLIPS
P.O. BOX 180
1000 CONOCO ROAD
MALJAMAR, NM 88264
505/676-2371
FAX 505/676-2377

FACSIMILE TRANSMITTAL SHEET

TO: Paul Sheely	FROM: Ken Andersen
COMPANY: NMOCD	DATE: 3-29-04
FAX NUMBER: 505. 393.0720	TOTAL NO. OF PAGES INCLUDING COVER: 3
PHONE NUMBER: 505 393.6161 ext 113	SENDER'S REFERENCE NUMBER:
RE: Philmex #32	YOUR REFERENCE NUMBER:

☐ **ORDER**

NOTES/COMMENTS:

Paul, my phone #is 505.676.5569
mobile # 505.390.4821
Fax # 505.676.2377

e-mail Ken.n.andersen@conocophillips.com