

**PIT
REMEDICATION
PLAN
AND
CLOSURE
REPORT**

*Denied - No landfill results
Soil above limits*

JUN 11 1997
OCD HOBBS
OFFICE

APACHE CORPORATION PIT REMEDIATION AND CLOSURE REPORT									
Routing									
OCD Dist. I, P.O. Box 1980 Hobbs, New Mexico 87410				x		OCD Santa Fe, P.O. Box 2088 Santa Fe, New Mexico 87504-2088			x
APACHE CORPORATION EH&S GRP. 2000 Post Oak Blvd. Houston, Texas 77056				x					
Operator: APACHE CORPORATION					Telephone: (915) 527-3311				
Address: P.O. Box 848 Wink, Texas 79789									
Facility or Well Name: New Mexico BZ State									
Location: Unit or Qtr/Qtr Sec.				Sec 16		T 23S	R 37E	County Lea	
Pit Type:		Separator		Dehydrator		Other: Overflow			
Land Type:		BLM		State		x	Fee		Other:
PIT LOCATION (Diagram Attached)									
Pit Dimensions:		Length: 40'			Width: 40'		Depth: 12'		
Reference:		Wellhead			Other: SE Corner				
Footage From Reference:		1'							
Direction From Reference:		25 Degrees				East	North		x
of									
					West	South		x	
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 feet			(20 Points)		0		
		50 feet to 99 feet			(10 Points)				
		Greater than 100 feet			(0 Points)				
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)		Yes			(20 Points)		0		
		No			(0 Points)				
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		Less than 200 feet			(20 Points)		0		
		200 feet to 1000 feet			(10 Points)				
		Greater than 1000 feet			(0 Points)				
Ranking Score (Total Points):								0	

EF15

*65-75
40*

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SEP 16 1997

Environmental Bureau
Oil Conservation Division

Date Remediation Started: 12/95			Date Completed: In Progress		
Remediation Method: (Check all appropriate Sections)	Excavation	<input checked="" type="checkbox"/>	Approx. Cu. Yds.: 48		
	Land Farmed	<input type="checkbox"/>	In-situ Bioremediation		
	Other: On-site Biological degradation				
Remediation Location: (ie. landfarmed onsite, name and location of offsite facility)	Onsite	<input checked="" type="checkbox"/>	Offsite:		
General Description of Remedial Action:					
Impacted soils from the pit were removed and placed into separate treatment cells. Excavated soils were then treated with nitrogen, water and surfactants to stimulate natural production of bacteria. Analysis of excavated area shows then interior of the pit to be less than 5000 ppm TPH. Once soils reach acceptable limits (less than 5000 ppm TPH), they will be used for construction material (ie: tank battery berms, etc.).					
Ground Water Encountered:		<input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes	Depth:	
Final Pit Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths.	Sample Location: Multiple Samples See Attached Analysis.				
	Sample Depth:	12'			
Sample Date:	1/17/96	Sample Time:	1200		
Sample Results					
Benzene (ppm)	ND		Field Headspace (ppm)	ND	
Total BTEX (ppm)	ND		TPH	See Attached	
Ground Water Sample	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/>	(If yes, attach sample results)	
I hereby certify that the information above is true and complete to the best of my knowledge and belief.					
Date: 03/22/96			Printed Name: Fred Holmes		
Signature: 			Title: Consultant		
I hereby certify that the closure of this site is approved and has been accepted					
Date:			Printed Name:		
Signature:			Org. and Title:		

JUN 11 1996
 GGD RUBBS
 OFFICE

Report Generated:
 January 29, 1996 08:22

**CERTIFICATE OF ANALYSIS
 RESULTS BY SAMPLE**

SENT INDIAN FIRE & SAFETY, INC.
 TO: 3703 OAKRIDGE
 MIDLAND, TX 79707

WORKORDER # : 9601148
 WORK ID : JAL PIT CLOSURES JOB #95025
 CLIENT CODE : APA02
 DATE RECEIVED : 01/19/96

ATTN: FRED HOLMES

Page: 1

Lab ID: 9601148-01A
 Sample ID: BZ-HT

Collected: 01/17/96 16:00:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	1400	mg/Kg	5.0	100	01/25/96	SLFTD061
HCs DSL XT/CAL DHS 8015M	01/23/96	N/A				

Lab ID: 9601148-02A
 Sample ID: EX-NE

Collected: 01/17/96 16:00:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	100	01/25/96	SLFTD061
HCs DSL XT/CAL DHS 8015M	01/23/96	N/A				

Lab ID: 9601148-03A
 Sample ID: EX-NW

Collected: 01/17/96 16:00:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	100	01/25/96	SLFTD061
HCs DSL XT/CAL DHS 8015M	01/23/96	N/A				

Lab ID: 9601148-04A
 Sample ID: EX-SE

Collected: 01/17/96 16:00:00
 Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	5.0	01/25/96	SLFTD061
HCs DSL XT/CAL DHS 8015M	01/23/96	N/A				

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Lab ID: 9601148-05A
Sample ID: EX-SW

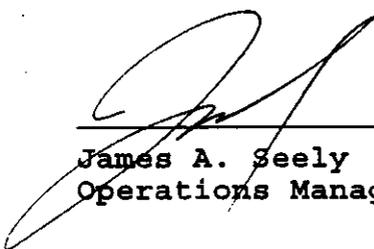
Collected: 01/17/96 16:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	100	01/25/96	SLFTD061
HCs DSL XT/CAL DHS 8015M	01/23/96	N/A				

Lab ID: 9601148-06A
Sample ID: BZ-C

Collected: 01/17/96 16:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	1000	mg/Kg	5.0	100	01/25/96	SLFTD061
HCs DSL XT/CAL DHS 8015M	01/23/96	N/A				


 James A. Seely
 Operations Manager

JUN 11 1998
 SULLY HUBBS
 OFFICE

W.O. # 1148

Indian Fire & Safety, Inc.
P.O. Box 1306
Hobbs, New Mexico 88241

Request for Analysis

Tele: (505) 397-3882
Fax: (505) 392-6274

Date: 1/18/96	Job No: 95025	Client: APACHE CORP.			
Job: TAL PIT CLOSURES	Proj Contact: FRED HOLMES	Bill To: IFFS HOBBS,			
Laboratory: ASSAGAI, ALB. NM.	Report To: IFFS MIDLAND	Date Results are Needed: 1/25/96			
Contact: DAN MOORE	Sampling Team: HOLMES/DAVIS	Date of Sampling Event: 1/17/96			
Sample Number	Type	Time Taken	Container/Size	Analysis Requested	
BZ-HT	SOIL	1600	64/80Z	TPH/8015 MODIFIED/DEO	
EX-NE	"	7	7	" " " "	
EX-NW	"	7	7	" " " "	
EX-SE	"	7	7	" " " "	
EX-SW	"	7	7	" " " "	
BZ-C	SOIL	1600	64/80Z	TPH/8015 MODIFIED/DEO	
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time
<i>[Signature]</i>	1/18/96	1200	Jawar N Campbell	1/19/96	9:45

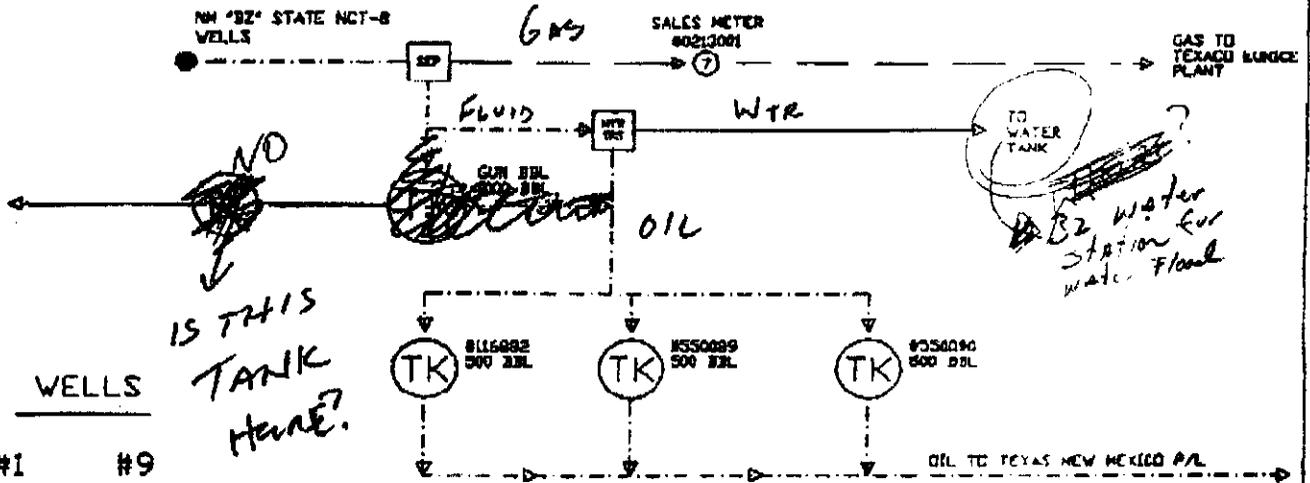
Additional Information/Remarks:
JUN 11 1996
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MAY 08 '96 09:26AM APACHE CORP.

F 2/3

MIDLAND DISTRICT - WELL LEVEL NM 'BZ' STATE NCT-8

NW2



- WELLS**
- #1
 - #4
 - #5
 - #9
 - #11
 - #15

GS LIST

- 30-025-61060-G
- 30-025-61060-□
- 30-025-61060-L

Company	APACHE (TRACED)
System Name	NM 'BZ' STATE
Top ID	GS LIST
County, State	LEA, NEW MEXICO
Effective Date	10/12/95
Approval:	
Field:	
Prod Alias:	
Prod Mgmt:	

JUN 11 1996
 OGD NUMBER
 OFFICE



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

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

ANALYTICAL RESULTS FOR
 APACHE CORP.
 ATTN: DON BAUCHAM
 P.O. BOX 848
 WINK, TX 79789
 FAX TO: 915-527-3321

Receiving Date: 08/29/97
 Reporting Date: 09/02/97
 Project Number: NOT GIVEN
 Project Name: APACHE PIT CLOSURES
 Project Location: ST. NM B-2, SEC. 16-T23S-R37E

Sampling Date: 08/29/97
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		08/29/97	09/02/97	08/29/97	08/29/97	08/29/97	08/29/97
H3165-1	ST. MN B-2 11' DEEP	22	128	<0.002	<0.002	<0.002	<0.006
Quality Control		194	484	0.096	0.095	0.089	0.261
True Value QC		200	500	0.090	0.090	0.087	0.260
% Accuracy		96.8	96.8	106	106	102	100
Relative Percent Difference		0.6	0	3.0	2.3	1.3	1.1

METHODS: TRPHC-EPA 600/749-020, 418.1; BTEX-EPA SW-846-8020; CI-EPA 600/4-79-020 352.3

**HOBBS
 OFFICE
 SEP 08 1997
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Burgess J. A. Cooke
 Burgess J. A. Cooke, Ph.D.

9/2/97
 Date



ARDINAL LABORATORIES

PHONE 915.673.7001 • 2111 BEECHWOOD • BILEVE, N. 7803
PHONE 505.393.2125 • 101 E MARLAND • MCBS, W. 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name: <u>Apache Corp.</u>		Company: <u>BILTO</u>		PO #:													
Project Manager: <u>Ken Bachman</u>		Company:															
Address: <u>P.O. Box 848</u>		Attn:															
City: <u>Musk</u>		State: <u>TX</u>		Zip: <u>79789</u>													
Phone #: <u>915-527-3311</u>		City:															
Fax #: <u>915-527-3521</u>		State:		Zip:													
Project #: <u>Apache P.T. Closures</u>		Phone #:															
Project Name: <u>Same as Above</u>		Fax #:															
Project Location: <u>Stim B-2 SEC 16 T-235 R37-E</u>		MATRIX		ANALYSIS REQUEST													
LAB ID. #	Sample ID.	COMP(C) OR GRAB(G)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID:	ICE / COOL	OTHER :	DATE	TIME	BTEX (8020)	TPH 418.1	Chlorides
<u>H3105-1</u>	<u>STNM B-2 11' deep</u>	<u>2</u>	<u>2</u>			<u>✓</u>							<u>8-29-97</u>	<u>10:40</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>

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Requisitioned By: _____ Date: _____
 Delivered By: (Circle One) Ken Bachman Time: 1:39 pm
 Received By: (Lab Staff) _____
 Checked By: _____ (Initials)

Phone Return Yes No
 Fax Return: Yes No
 Additional Fax #: _____
 REMARKS:

RECEIVED
 SEP 08 1997

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

NMOCD INTER-OFFICE CORRESPONDENCE

TO: File of Apache Corporation.
From: Wayne Price-Environmental Engineer
Date: June 26, 1996
Reference: Pit Closures
Subject: Field Report
Comments:

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JUL 1 8 1996

Environmental Bureau
Oil Conservation Division

TO: Bill Olson-NMOCD Hydrogeologist-Environmental Bureau

Please find enclosed the findings of my recent field report for the Apache Pit closures. Mike Warren of Apache and I visited the sites.

Skelly Penrose A unit:
sec 3-Ts23s-R37e

Took bottom hole sample PID (BTEX) approx. 175 ppm, wet soil due to recent rain, discharge pipe still leaking into pit area. Apache discovered that this pit had liner on sides only, pit bottom had no liner. Soil has mild hydrocarbon odor. NM St. Engr. office indicated ground water at 60-70 feet. Windmills in area to south and east.

Took pictures:

- #1. Standing in pit looking east. Shows discharge from pipe.
- #2. Pit area looking northwest.
- #3-#6. Looking south- shows remediation areas for contaminated soils.

NM BZ STATE:
sec 16-Ts23s-R37e

Took bottom sample PID (BTEX) approx. 84 ppm, wet soil due to recent rain. Discharge pipe still in place. Apache will remove. Apache discovered that this pit had liner on sides only, pit bottom had no liner. Soil has mild hydrocarbon odor. NM St. Engr. office indicated ground water at 65-75 feet. Windmills nearby area located to southeast approx. 400 yards.

Took pictures:

- #7. Looking east.
- #8. looking north- show remediation area.

South Jal Langlie Unit:
sec 7-Ts 25s-R37e

The legal description on the pit closure is wrong location, actual is above. Took bottom sample PID (BTEX) approx. 12 ppm, wet soil due to recent rain. Discharge pipe still in place. Soil has no hydrocarbon odor. NM St. Engr. office indicated ground water at 55-65 feet. Windmills and Jal country club fresh water well nearby area located to east and south approx. 400 yards.

Took pictures:

- #9. Looking Southeast.
- #10 Looking south.

NM ST. IT:
unit f sec 16-Ts26s-R33e

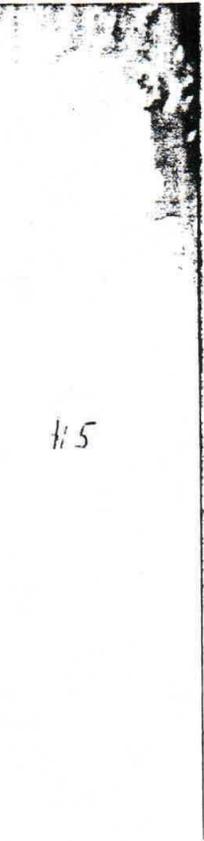
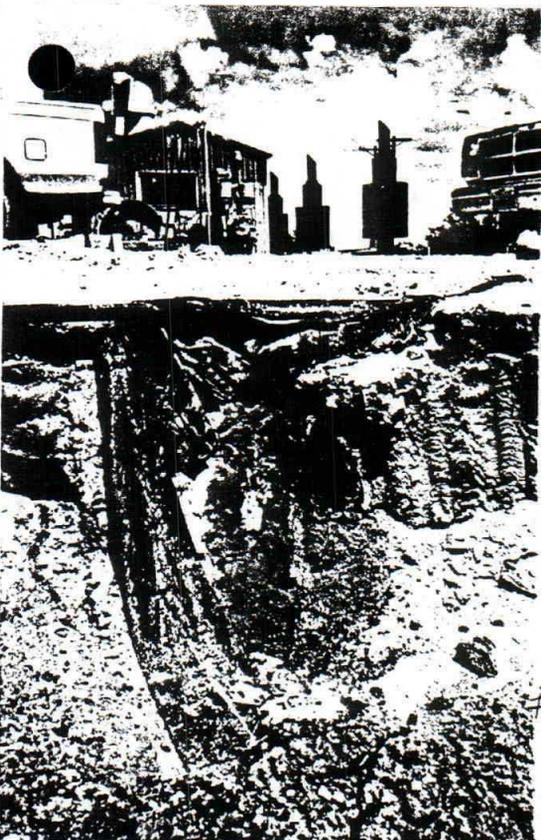
Took bottom sample of pit PID (BTEX) approx. 140-160 ppm, wet soil due to recent rain. Roadway where condensate and water was being discharged by Amoco PID (BTEX) 45 ppm. Pit has mild to moderate condensate smell. NM St. Engr. office indicated ground water at 107-124 feet.

Took pictures:

- #11. Looking East. Shows pit and to right where tank water had been discharged into road.
- #12. Looking North show remediation area.

cc: Jerry Sexton-NMOC District I Supervisor
Mike Warren-Apache Corp.

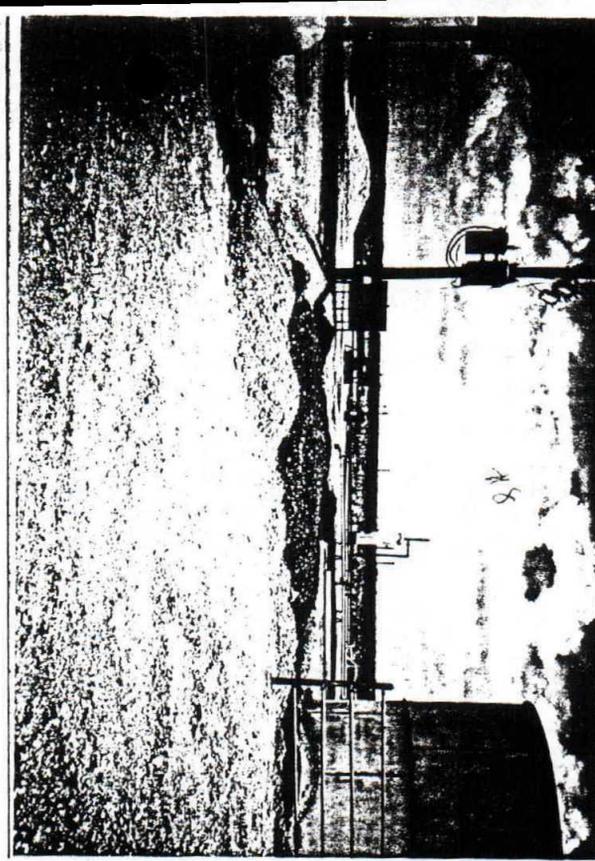
attachments-1 pictures



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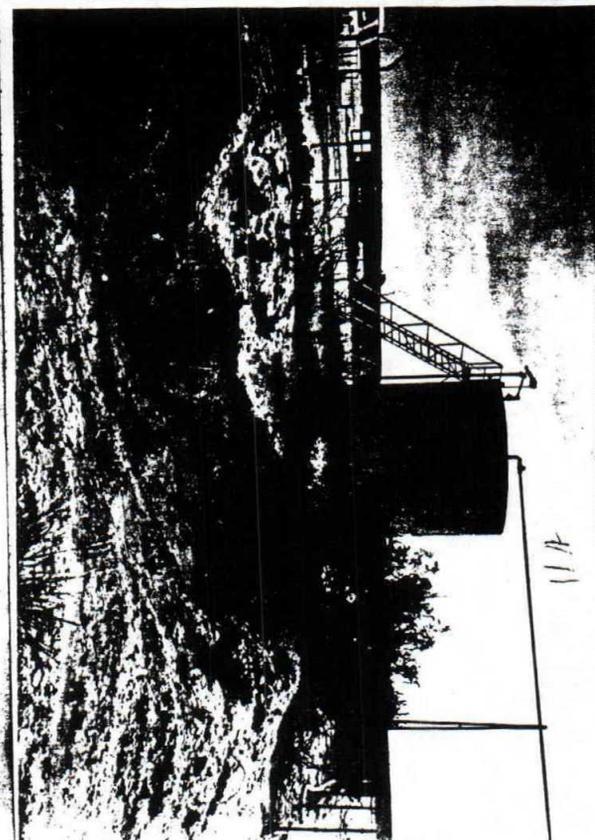
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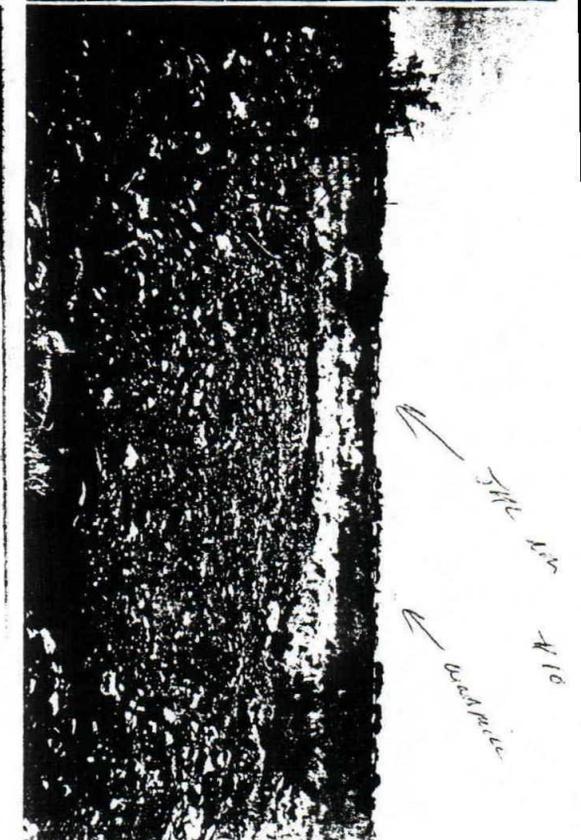
8A



11A



11A



The Sun
10A

APACHE-NM ST BZ 16-235-37E #7



APACHE #8 NM ST BZ 16-235-37E

