# PIT REMEDIATION & CLOSURE REPORT

### STATE OF NEW MEXICO

### ENERGY. MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION

2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

**September 17, 1997** 

### **CERTIFIED MAIL** RETURN RECEIPT NO. P-410-431-222

Mr. Mike Warren **Apache Corporation** 3300 N. A. Suite 8220 Midland, Texas 79705

RE: FINAL PIT CLOSURE REPORTS

Dear Mr. Warren:

The New Mexico Oil Conservation Division (OCD) has completed a review of Apache Corporation's (AC) May 30, 1997 "PIT CLOSURE REPORTS" which were received by the OCD Santa Fe Office on September 16, 1997. These documents, which were submitted on behalf of AC by their consultant Indian Environmental Services, contain the results of the closure activities for 4 unlined oil and gas production pits in Lea County, New Mexico.

The OCD's review of the above referenced document is addressed below:

A. The pit remedial activities conducted at the sites listed below are satisfactory. However, according to the reports, onsite remediation of contaminated soil is still continuing at the sites. Therefore, the OCD cannot issue final closure approval and approval of closure actions at these sites is denied. Please resubmit final closure reports for these sites upon completion of the landfarming activities. The final reports will include the results of the soil remediation levels achieved, the laboratory analyses and associated quality assurance/quality control data and the disposition of the remediated soils.

South Jal Langlie Unit (Overflow pit) 1. Unit?, Sec. 17, T25S, R37E 2.

State It (Overflow pit) Unit F, Sec. 16, T26S, R33E

B. The final pit remedial contaminant levels at the sites listed below are in excess of the OCD's recommended remediation levels. Consequently, the OCD cannot issue final closure approval and approval of closure actions at these sites is denied. The OCD requires that AC submit Mr. Mike Warren September 17, 1997 Page 2

a work plan to determine the extent of and remediate the remaining contamination at these sites. The work plan will be submitted to the OCD Santa Fe Office by October 17, 1997 with a copy provided to the OCD Hobbs District Office.

1. Skelly Penrose A Unit (Overflow pit)

Unit ?, Sec. 03, T23S, R37E

2. New Mexico BZ State (Overflow)

Unit ?, Sec. 16, T23S, R37E

- C. The OCD has noted some serious errors in reporting the depth to ground water on the pit closure reports. The report forms for each site list the depth to ground water as greater than 100 feet. However, a review of readily available ground water information in the vicinity of these sites shows that the depth to ground water at all of the sites, except the "State It" site, is between 50-100 feet. This error causes the remediation levels for these sites to be greatly in excess of what the true recommended remediation levels should be under the OCD's "SURFACE IMPOUNDMENT CLOSURE GUIDELINES". Please correct this information when the forms are resubmitted.
- D. In order for the OCD to enter pit closure data into a database system, the OCD requires that an OCD "PIT REMEDIATION AND CLOSURE REPORT" form (attached) be submitted for each pit closed. Please provide these completed OCD forms, including appropriate 1/4, 1/4 section locations, when resubmitting the pit closure actions for approval.

To simplify the approval process for both AC and OCD, the OCD requests that AC submit all future pit closure reports only upon completion of all closure activities including onsite landfarming or composting of contaminated soils. The reports will include a completed OCD "PIT REMEDIATION AND CLOSURE REPORT" form and all pertinent information related to the extent of contamination, the results of the soil remediation levels in the pits and landfarms, all laboratory analyses and associated quality assurance/quality control data and the disposition of all remediated soils.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson Hydrogeologist

Environmental Bureau

attachment

xc: OCD Hobbs District Office

David Deardorff, New Mexico State Land Office Fred Holmes, Indian Environmental Services

### RECEIVED

SEP 16 1997

Environmental Bureau
Oil Conservation Division

### NMOCD INTER-OFFICE CORRESPONDENCE

TO:

Bill Olson-Environmental Bureau, Santa Fe, NM

From:

Wayne Price-Environmental Engineer

Date:

September 11, 1997

Reference:

Apache Corporation

Subject:

Pit Closures:

Skelly Penrose A unit: 3-23s-37e.

NM BZ State: 16-Ts23s-R37e.

South Jal Langlie Unit: sec 7-Ts25s-R37e. State IT Lease (W. Of Jal): F-16-26s-33e.

### Comments:

Dear Bill,

Enclosed are the original pit closure forms submitted by Apache. Apparently the originals came to the Hobbs office. Please refer to my field report letter dated June 26, 1996 (attached) for discrepancies that I found in the closure reports. I have also included the results of the most recent sampling event taken by Apache and witness by me.

We took bottom hole samples for locations at Skelly Penrose, NMBZ, and State IT Lease. The analyticals for these soil samples were supplied to me by Apache. For comparison please note I took field samples using the PID and obtained the following results.

Skell Penrose A Unit (SPAU); 11' deep, sampled soil using PID BTEX 460 ppm, medium to strong hydrocarbon odors, visual contamination.

NM BZ State: 16-Ts23s-R37e; 11' deep, sampled soil using PID BTEX 15.5 ppm, none to very slight hydrocarbon odor, no visual contamination.

State IT Lease (W. Of Jal): F-16-26s-33e; 8' deep, sampled soil using PID 43 ppm, no hydrocarbon odor, had earth smell of organic

material, no visual contamination.

After reviewing the pit closure reports I recommend approval for the following three sites;

NM BZ State: 16-Ts23s-R37e.

Bb:

South Jal Langlie Unit: sec 7-Ts25s-R37e. State IT Lease (W. Of Jal): F-16-26s-33e.

As for the Skelly Penrose A unit: 3-23s-37e, I recommend that Apache install a monitor well in the center of the pit to determine if ground water has been impacted.

Chris Williams-NMOCD District I Supervisor

attachments-pit closure reports, analyticals.



3703 Oakridge Ct. Midland, Texas 79707 Tele: (915) 520-2984

Fax: (915) 520-3172

**INDIAN** 

CORNARD TO
SHUARD SC
9/11/M **Environmental Services** 

May 30, 1996

State of New Mexico Oil Conservation Division District I P.O. Box 1980 Hobbs, New Mexico 88241

JUN 1 1 1996

Re: Pit Closure Reports

To Whom it May Concern:

Please find enclosed two (2) copies of the Pit Closure Reports and required attachments for the following locations that are operated by APACHE Corporation:

- State IT Lease 1.
- 2. State BZ Lease
- 3. Penrose Battery A#1
- South Jal Langley Unit 4.

As indicated on the routing header, a second copy has been forwarded to the OCD office in Santa Fe, NM.

Once received, would you please execute one copy and return to the address indicated above to acknowledge receipt of the document.

Thank you for your attention to this matter. Should you have any questions, please contact me at (915) 520-2968.

Sincerely

Fred Holmes Consultant

RECEIVED

SEP 16 1997

Environmental Bureau Oil Conservation Division

OFFICE JUN 1 1 1996

Deniel Soil about

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APACHE CO 2000 Post Oa Houston, Tex		Н&	S GRP.	×											
Operator:	APACHE CO	DRF	PORATION						-	Telep	ohone:	·	(915) 527-3	3311	1
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### RECEIVED

SEP 16 1997

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	Other	: On-s	site Bio	ologic	al d	degrad	lation				
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location of offsite facility)	anu										
General Description of R	emedia	i Acti	ion:								
were then treated with nitro Analysis of excavated area Once soils reach acceptab material (ie: tank battery b	shows le limits	then (less	interio	r of t	he p	oit to b	e less	than 5000 p will be used	pm T I for a	PH.	
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samples, attach sample results and diagram of											
sample locations and	Samp	le De	pth:	13	,						
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Ground Water Sample	Yes		No		·	(If ye	es, atta	ich sample re	esults	s)	
I hereby certify that the infor	mation	above	is tru	e and	coı	mplete	to the	e best of my	know	ledge and t	elief.
Date: 03/22/96					Pri	inted	Name:	Fred Holme	s		
Signature:	<u> </u>				Tit	lle: (	Consul	tant			
I hereby certify that the clo	sure of	this s	ite is a	appro	ved	and I	nas be	en accepted			
Date:					Pri	inted	Name:				
Signature:					Or	g. and	d Title		*	Appropriate and a second second	

JUN 1 1 1998 OFFICE



7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated:

January 4, 1996 09:49

### **CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE**

SENT INDIAN FIRE & SAFETY, INC.

TO: 3703 OAKRIDGE

MIDLAND, TX 79707

ATTN: FRED HOLMES

WORKORDER # : 9512114

WORK ID

: PENROSE CLIENT CODE : APA02

DATE RECEIVED : 12/11/95

JUN 1 1 1996

Page: 1

Lab ID: 9512114-01A

Sample ID: EX-NE

Collected: 12/08/95 09:30:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	1500 12/18/95	mg/Kg N/A	5.0	50	12/22/95	SLFTD56

**Lab ID:** 9512114-02A

Sample ID: EX-SW

**Collected:** 12/08/95 09:30:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	2200 12/18/95	mg/Kg N/A	5.0	50	12/22/95	SLFTD56

**Lab ID:** 9512114-03A

Sample ID: EX-CEN

Collected: 12/08/95 09:30:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	ND 12/18/95	mg/Kg N/A	5.0	500	12/21/95	SLFTD56

**Lab ID:** 9512114 - 04A

Sample ID: EX-SE

**Collected:** 12/08/95 09:30:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID	
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	2100 12/18/95	mg/Kg N/A	5.0	50	12/22/95	SLFTD56	



Page: 2

**Lab ID:** 9512114-05A **Sample ID:** EX-NW

**Collected:** 12/08/95 09:30:00 **Matrix:** SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID	
HCs DIESEL/CAL DHS 8015M Diesel HCs DSL XT/CAL DHS 8015M	2100 12/18/95	mg/Kg N/A	5.0	50	12/22/95	SLFTD56	

James A. Seely Operations Manager

JUN 1 1 1998 OFFICE

### **WORKORDER COMMENTS**

DATE : 01/04/96

WORKORDER:

### **DEFINITIONS/DATA QUALIFIERS**

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.

D F = Sample "dilution factor"

NT = Analyte "not tested" per client request.

B = Analyte was also detected in laboratory method QC blank.

E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.

LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D\_F) to obtain the sample specific

Detection Limit.

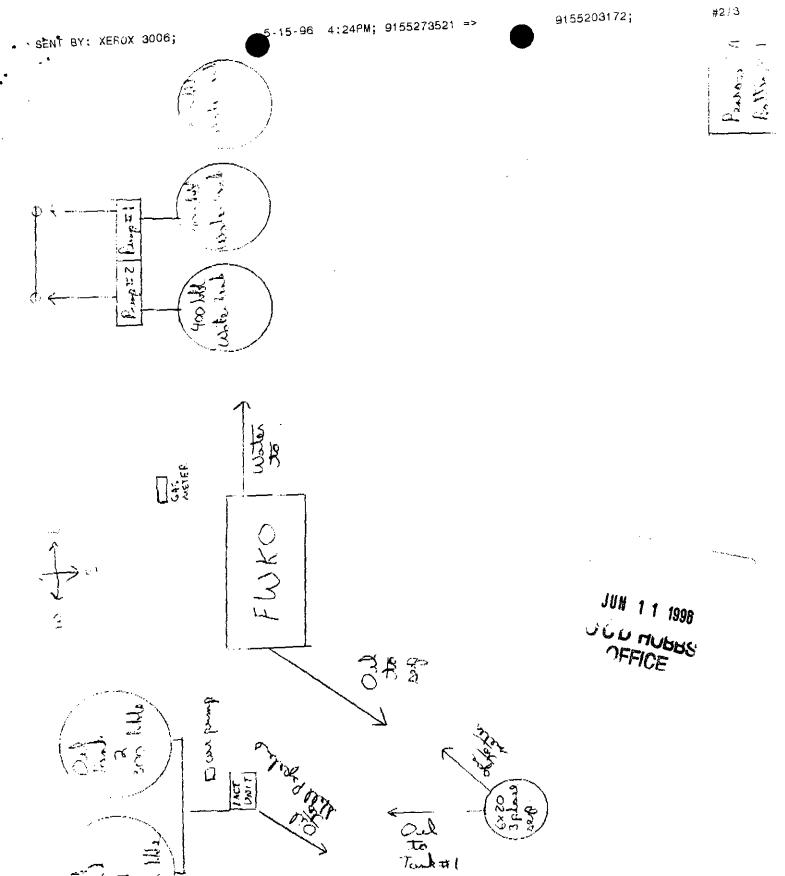
### REPORT COMMENTS

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

## Request for Analysis

Tele: (505) 397-3884 Fax: (505) 392-6274

Additional Information or Remarks:	Juny Warris	Relinquished By: (Signature)	SA EV- NW "	MA EX-SE "	3A EY-CEN "	AA EK-SW "	IIA EX-NE GOAL	Sample Number Type	Sampling Team: JERRY DAUIS	Contact:	Laboratory: A So After CA C Co		Date: /2-8-95 Jol	
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	10:00						des Shoudond		1		1856 AL			







PHONE (505) 393-2328 • 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: SPAU SEC. 4-T23S-R37E, LEA CO., NM

Sampling Date: 08/29/97 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH Analyzed By: BC/AH

LAB NUMBE	R SAMPLE ID	TPH (mg/Kg)	CI (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS D	ATE:	08/29/97	09/02/97	08/29/97	08/29/97	08/29/97	08/29/97
H3166-1	SPAU, 11" DEEP	27046	2207	1.06	0.452	0.306	1.53

	İ					
			·			
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

Burgess J. A. Cooke. Ph/. D.

Date

SEP O 8 1897

ANALYSIS RI	BILL TO PO#	rager: Por Bancham	Company Name: Apach Project Manager:
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POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-8161

### 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:

RECEIVED

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:

1 -----

#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:

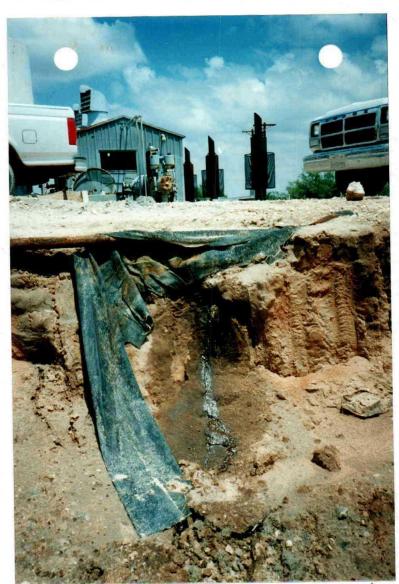
#11. Looking East. Shows pit and to right where tank water had been discharged into road.

#12. Looking North show remediation area.

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

attachments-1 pictures

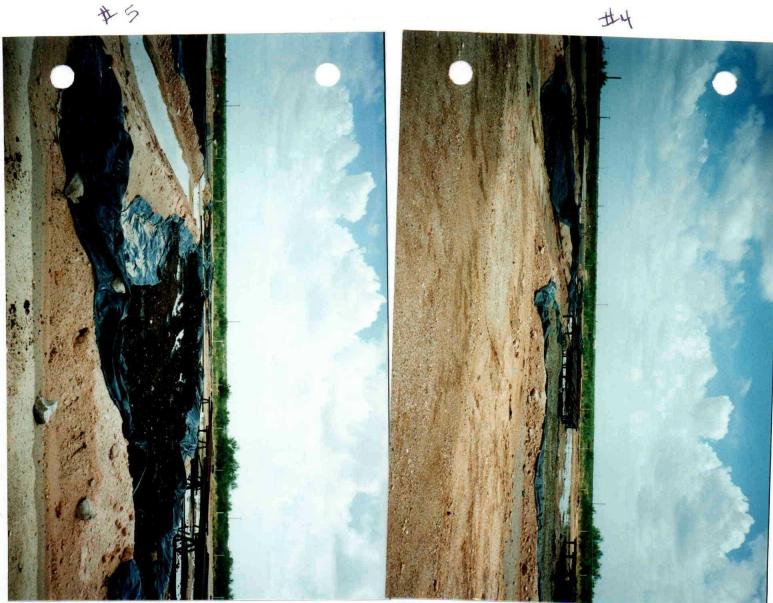




P #

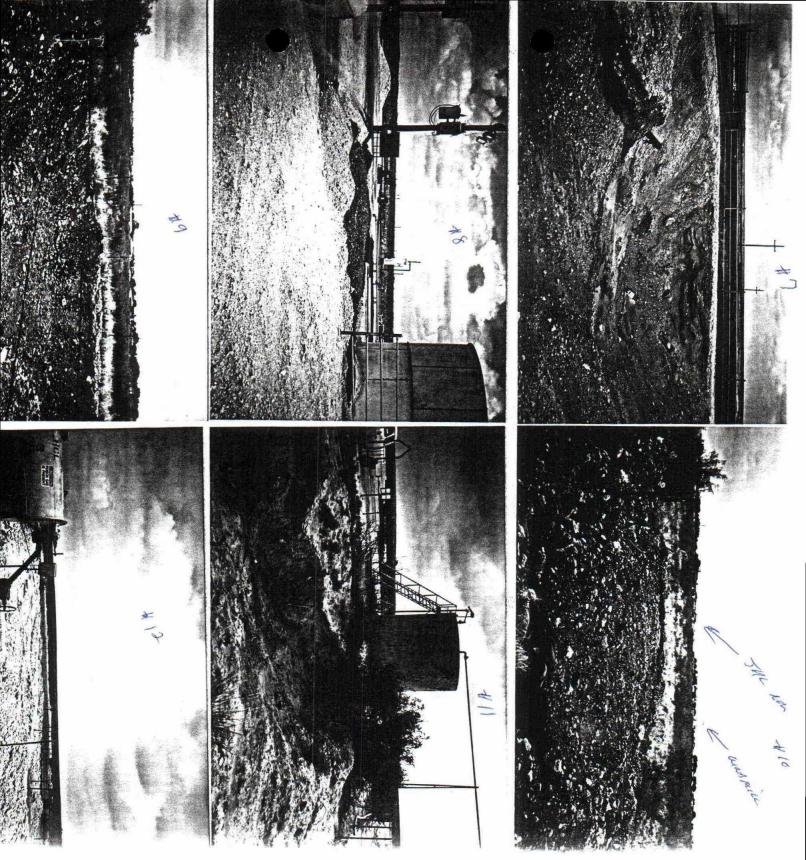


#5





#6



**PULL OR ALTER CASING** 

OTHER:

### State of New Mexico Energy, Minerals and Natural Resources Department

Form C-103

to Appropriate District Office Revised 1-1-89 DISTRICT I P.O. Box 1980, Hobbs, NM 88240 OIL CONSERVATION DIVISION WELL API NO. 310 Old Santa Fe Trail, Room 206 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico 87503 5. Indicate Type of Lease FEE \_\_ STATE DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410 6. State Oil & Gas Lease No. SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) SKelly Penrose "A" Type of Well: GAS WELL OIL WELL 2. Name of Operator 8. Well No. OPEF 3. Address of Operator 9. Pool name or 3300 N. 5 TE. 8220 midland, TK. Well Location Line and Feet From The \_ Feet From The Line Section 3-7235-R37E Township Zea Range **NMPM** County 10. Elevation (Show whether DF, RKB, RT, GR, etc.) Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data 11. NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL WORK ALTERING CASING TEMPORARILY ABANDON **CHANGE PLANS** COMMENCE DRILLING OPNS PLUG AND ABANDONMENT

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

OTHER:

CASING TEST AND CEMENT JOB

See attached workerdus!!!

I hereby certify that the information above is true and complete to the best of my knowledge and SIGNATURE	^	Folenan	
TYPEOR FRENT NAME MIKE WARREN		TELEPHONE NO.	915-5273311
(This space for State Use)	me Geologis	+ II	12/1/95
CONDITIONS OF APPROVAL, IF ANY:	val anditi		DAIL .

### OCD APPROVAL CONDITIONS FOR RCRA EXEMPT UNLINED PIT CLOSURES (August 16, 1995)

- 1. The following closure actions will be performed in accordance with OCD's February 1993 "SURFACE IMPOUNDMENT CLOSURE GUIDELINES":
  - a. Vertical and horizontal extent of contamination will be determined either prior to, during or upon completion of remedial actions.
  - b. Contaminated soils will be remediated to the OCD's recommended levels or a risk assessment will be provided which shows that an alternate cleanup level is protective of surface water, ground water, human health and the environment.
  - c. Final soil contaminant concentrations in excavated and landfarmed areas will be determined upon completion of remedial actions.
  - d. Soil samples for verification of completion of remedial actions will be sampled and analyzed for benzene, toluene, ethylbenzene, xylene and total petroleum hydrocarbons.
- All wastes removed from a site will be disposed of at an OCD approved facility.
- 3. The OCD Santa Fe Office's Environmental Bureau Chief and the OCD Hobbs District Office will be notified within 24 hours of the discovery of ground water contamination related to a pit closure.
- 4. Upon completion of all closure activities, a completed OCD "Pit Remediation and Closure Report" form containing the results of all pit closure and soil remediation activities will be submitted to the OCD for approval. The report will include the concentrations and application rates of any materials or additives used to enhance bioremediation of the contaminants and the final concentrations of any soils landfarmed onsite or the final disposition of soils removed from the site. To simplify the approval process, the OCD requests that the final pit closure reports be submitted only upon completion of all closure activities including onsite remediation or landfarming of contaminated soils.
- 5. All original documents will be submitted to the OCD Santa Fe Office for approval with copies provided to the OCD Hobbs Office.
- 6. OCD approval does not relieve you of liability should closure activities determine that contamination exists which is beyond the scope of the work plan or if the closure activities fail to adequately remediate contamination related to your activities. In addition, OCD approval does not relieve you of responsibility for compliance with other federal, state or local laws and regulations.

Date: 10/3/95 Time: 09:38:11



## Indian Fire & Safety, Inc. TELEFAX COVER SHEET

To: Warren, Mike Fax Number : 1-915-527-3521		From : FRED HOLMES  Company : IE&S	
Subject : WordPerfect [c:\wpwin60\props\950		Fax Number : 520-3172	

Notice: The contents of this document are considered confidential and intended to be seen only by the individual or individuals addressed. If you have received this document in error, please contact us at 1-800-530-8693 and arrangements will be made for this document to be returned at our expense.

Mike:

Please find attached the cost estimate for the pit delineation. If you have any questions, please feel free to call me or Michael.

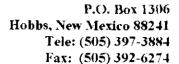
Thanks:

Fred Holmes

P.O. BOX 1306 HOBBS, NEW MEXICO 88241; TELE: 1-800-530-8693; FAX: 1-505-392-6274

From: FRED HOLMES To: Mike Warren

Date: 10/3/95 Time: 09:38:50



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**INDIAN** Fire & Safety, Inc.

October 2, 1995

Mr. Michael Bernard EH&S Group APACHE CORPORATION 2000 Post Oak Blvd. Houston, Texas 77056

Re:

Estimated Cost for Pit Closures (Jal, New Mexico Area)

Proposal Number: 95025

Dear Mr. Bernard:

Pursuant to your request on September 29, 1995, and following site visits, we have prepared the following cost estimate for investigation and closure of four sites in the Jal, New Mexico region.

Site:

STATE IT

Scope:

- Task 1: Perform a rough delineation of any contamination that may be present.
- Task 2: Take confirmation samples from the bottom and sides of the delineation

Task 3: Remove salt contaminated soil from southern edge of pad site, move soil to treatment area adjacent to main pad, take samples for clean-up

confirmation.

### ESTIMATED COST

Total Estimated Cost	\$3192.00
Misc. (plastic. sample shipping, photos etc.)	300.00
Mileage	90.00
PID Rental	125 00
Analysis ** (Cations, Anions, EC, SAR & ESP) 5 @ \$125.00 ca.	625.00
Analysis ** (TPH & BTEX) 5 @ \$160.00/ea.	900.00
Backhoe W/Operator & Dump Truck ** 8 hrs @ \$39.00/hr.	312.00
Environmental Scientist * 12 hrs. @ \$70.00:hr.	840.00

From: FRED HOLMES To: Mike Warren

Date: 10/3/95 Time: 09:39:23

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Proposal 95025 Continued

Site: STATE BZ

Scope:

Task 1:

Remove Liner and take confirmation samples from below pit

liner.

### **Estimated Cost**

Total Estimated Cost	\$2704.00
Misc. (plastic. sample shipping. photos etc.)	175.00
Mileage	80.00
PID Rental	125.00
Analysis ** (TPH & BTEX) 5 @ \$160.00/ea.	900.00
Backhoe W:Operator & Dump Truck ** 6 hrs @ \$39.00/hr.	234.00
Technician II. 2 @ 8 hrs./man x \$35.00/man/hr.	490.00
Environmental Scientist * 12 hrs. 3 \$70.00 hr.	700.00

Site: PENROSE

Scope:

Task 1:

Remove liquids and sludge from the pit.

Task 2:

Remove pit liner and perform rough delineation.

### **ESTIMATED COST**

Environmental Scientist * 16 hrs. @ \$70.00 hr.	1120.00
Technician II. 2 @ 10 hrs./man x \$35.00/man/hr.	700.00
Backhoe W/Operator & Dump Truck ** 6 hrs @ \$39,00 hr.	390.00
Analysis ** (TPH & BTEX) 5 @ \$160.00/Sample	900,00
PID Rental	250,00
Mileage	200.00
Misc. (plastic, sample shipping, photos etc.)	300.00
Total Estimated Cost	\$3860.00

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Date: 10/3/95 Time: 09:39:52

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Proposal 95025 Continued

Site: SOUTH LANGLIE JAL UNIT

Scope:

Task 1:

Take down fencing, perform, rough delineation with backhoe.

Task 2:

Take confirmation samples for BTEX & TPH.

### ESTIMATED COST

Total Estimated Cost	\$1995.00
Misc. (plastic, sample shipping, photos etc.)	125.00
Mileage	90.00
PID Rental	125.00
Analysis ** (TPH & BTEX) 5 @ \$160.00/Sample	900,00
Backhoe W:Operator & Dump Truck ** 5 hrs @ \$39.00/hr.	195.00
Environmental Scientist * 8 hrs. @ \$70.00 hr.	560 00

### Notes

- \* This time includes projected travel time and report preparation time. Travel time has been based upon the closest Indian portal which is Hobbs. New Mexico.
- \*\* Denotes charges that will be direct billed from third parties to APACHE.
- 1. Because of the size of the sites and limited scope, delineation will be performed using a backhoe.
- 2. Removal of debris and solid waste will be placed upon plastic to await proper disposal.
- 3. Removal of contaminated soils from delineation trenches will be placed back into the trenches pending further analysis.
- 4. Treatment costs for salt contaminated soils at the STATE IT Lease have been omitted pending receipt of the analyses. Cost range for treatment of this area could range from \$2800.00 \$4200.00 depending upon the salt levels and quantity of soil removed.

From: FRED HOLMES To: Mike Warren

Date: 10/3/95 Time: 09:40:24

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### Proposal 95025 Continued

5. The cost for analysis has been left elevated intentionally to allow some room for additional analysis if so desired. If this is not utilized, costs should reduce.

Thank you for contacting Indian to submit this proposal to you. Should you have any questions or need any additional information, please contact me at 1-800-530-8693.

Respectfully:

Tel Holmon

Fred Holmes

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