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

Closed

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

DRILL PIT

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No X
Type of action: Registration of a pit or below-grade tank ☐ Closure of ~~a pit or below-grade tank~~ X

Operator: Apache Corporation Telephone: 432-527-3311 e-mail address: harold.swain@usa.apachecorp.com
Address: P. O. Box 848 Wink, Tx. 79789
Facility or well name: Hawk B-1 #48 API #: 30-025-37744 U/L or Qtr/Qtr J Sec 9 T 21S R 37E
County: Lea Latitude 32°29'24.01"N Longitude 103°09'47.87"W NAD: 1927 X ☐ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private X ☐ Indian ☐

Pit	**Below-grade tank**	
Type: Drilling X ☐ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined X ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness ____mil Clay ☐ Pit Volume _____bbl	Volume: ____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) **60.00**	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points)X (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 No	(20 points) (0 points) X
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) X
	Ranking Score (Total Points)	10 points

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite X ☐ If offsite, name of facility Sundance Disp. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No X ☐ Yes ☐ If yes, show depth below ground surface _____ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: **Drilling Pit Closure Plan**: Excess water was hauled away. Pit contents were removed and hauled to acceptable disposal site. Pit bottom was sampled for TPH, BTEX and Chlorides, then, backfilled with clean native soil and domed to prevent pooling.

Beginning date – 12-29-06 Completion date – 1-12-07

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**
Date 1-15-07 elkeenv@yahoo.com 432-366-0043
Printed Name/Title C. H. Kerby/ Agent Signature C. H. Kerby - Elke Environmental

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title L JOHNSON - GWRD ENGR Signature [signature] Date: 2-9-07

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Energy Minerals and Natural Resources

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1220 South St. Francis Dr.
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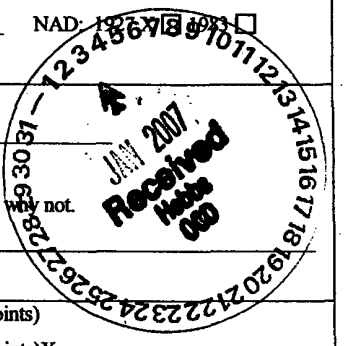
Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No X
Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank X

Operator: Apache Corporation Telephone: 432-527-3311 e-mail address: harold.swain@usa.apachecorp.com
Address: P. O. Box 848 Wink, Tx. 79789
Facility or well name: Hawk B-1 #48 API #: 30-025-37744 U/L or Qtr/Qtr J Sec 9 T 21S R 37E
County: Lea Latitude 32°29'24.01"N Longitude 103°09'47.87"W NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private X ☐ Indian ☐



Pit	Below-grade tank	
Type: Drilling X ☐ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined X ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness ____mil Clay ☐ Pit Volume ____bbl	Volume: ____bbl Type of fluid: ____ Construction material: ____ Double-walled, with leak detection? Yes ☐ If not, explain why not. ____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) 60.00	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) X (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 No	(20 points) (0 points) X
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) X
	Ranking Score (Total Points)	10 points

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite X ☐ If offsite, name of facility Sundance Disp. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No X ☐ Yes ☐ If yes, show depth below ground surface ____ft. and attach sample results.
5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: **Drilling Pit Closure Plan**: Excess water will be hauled away. Pit contents will be removed and hauled to acceptable disposal site. Pit bottom will be sampled for TPH, BTEX and Chlorides, then, if acceptable, backfilled with clean native soil and domed to prevent pooling. NMOCD will be notified at least 48 hrs prior to any sampling activity.

Beginning date – approx. 12-29-06 Completion date – approx.1-9-07

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines X a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date 12-28-06 elkeenv@yahoo.com 432-366-0043

Printed Name/Title C. H. Kerby/ Agent Signature C. H. Kerby, Elke Environmental

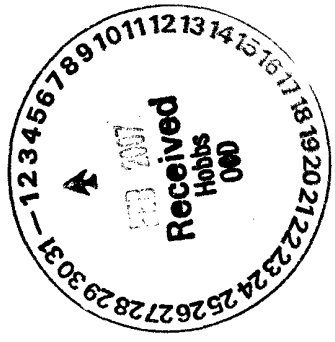
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title L. Johnson · Envir Engr Signature L. Johnson Date: 1·3·07

Elke Environmental, Inc.
4817 Andrews Hwy. Pho. 432-366-0043 Mail: P. O. Box 14167
Odessa, Tx. 79762 Fax: 432-366-0884 Odessa, Tx. 79768

January 19, 2007



Mr. Larry Johnson
New Mexico Oil Conservation Division
1625 N. French Dr.
Hobbs, New Mexico 88240

SUBJECT: Closure Report for Apache Corporation Hawk B1 #48 Reserve Pit
API no. 30-025-37744 U/L J Sec. 9 T21s R37e Lea County, NM

Dear Mr. Johnson,

Enclosed in this mailing is:

- a copy of the initial form C-144 closure **plan**
- the C-144 closure **report**
- a drawing of the site indicating the reserve pit location and sample points
- a table of field and laboratory sample results.
- a copy of the laboratory report
- photos of the site

As indicated in the C-144 closure report, the impacted pit contents were removed to the pit bottom and hauled to an approved disposal site (Sundance Disposal). The area of test point 3 (TP3) was excavated to 20 ft. depth x 25 ft. width x 35 ft. length to remove excessive chloride contamination.

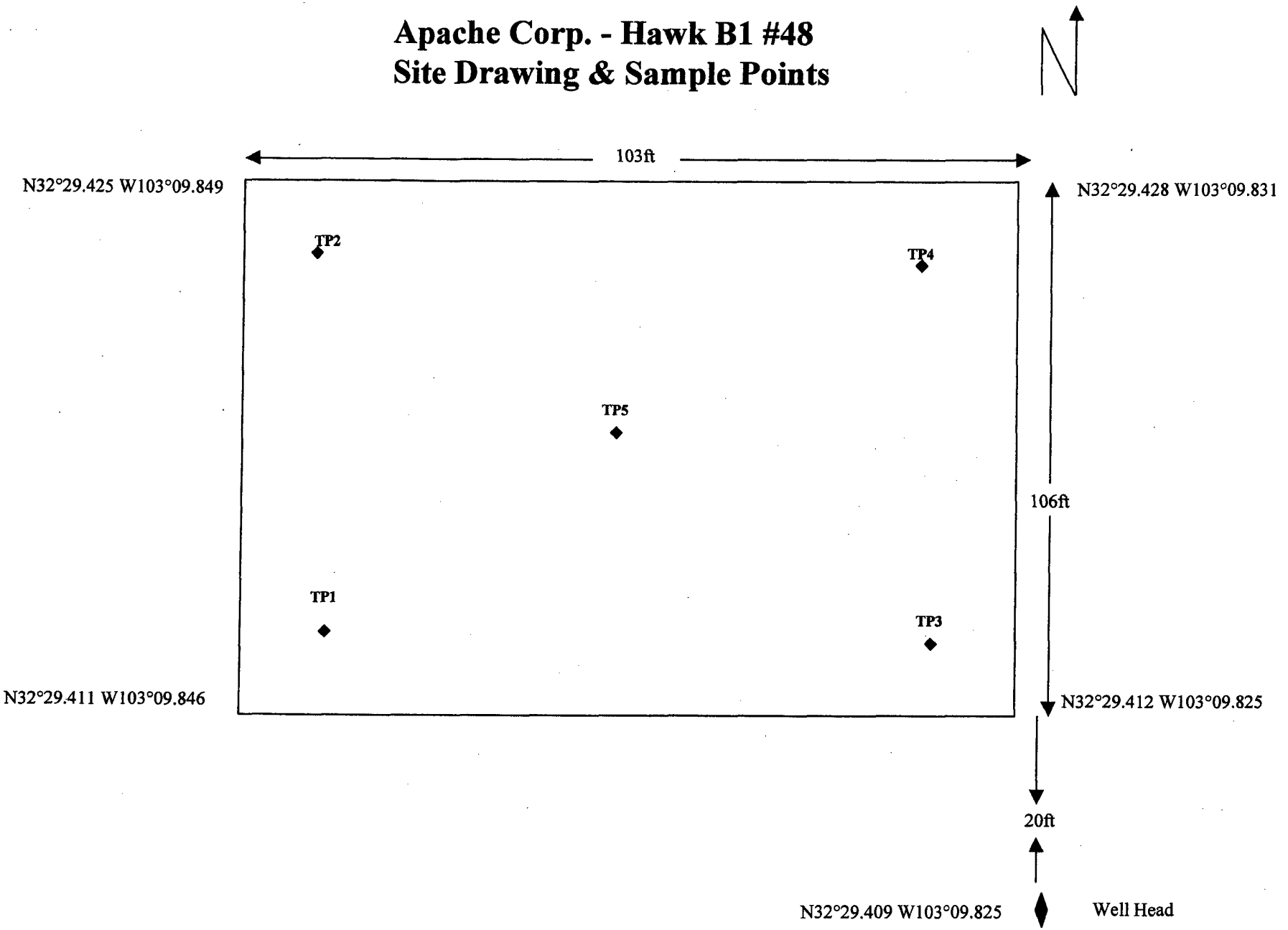
Any questions or concerns may be addressed to Robert Spangler at 432-638-4220 or Logan Anderson at 432-664-1269.

Sincerely,

Hamp Kerby

Hamp Kerby – Elke Environmental, Inc.

Apache Corp. - Hawk B1 #48
Site Drawing & Sample Points



Apache Corp. Hawk B-1 #48 Sample Chart

Field Test Results						Lab Results	
Sample Location	Date	Depth	Chlorides (ppm)	PID	GPS	Chlorides (ppm)	TPH 8015M (ppm)
TP1	1/5/2007	6 ft.	7,800	5.7	32°29.412N	124	ND
		8 ft.	180		103°09.844W		
TP2	1/5/2007	6 ft.	180	6.9	32°29.424N	88.6	ND
		8 ft.	120		103°09.846W		
TP3	1/5/2007	7 ft.	15,611		32°29.408N		
		9 ft.	5,045		103°09.820W		
		11 ft.	435				
		13 ft.	480				
		15 ft.	150	1.3		147	ND
	1/9/2007	15 ft.	508		mid bottom		
		15 ft.	597		west bottom		
		15 ft.	150		east bottom		
		15 ft.	828		south wall		
		15 ft.	1,026		north wall		
		15 ft.	185		east wall		
		20 ft.	193		mid bottom		
		20 ft.	190		west bottom		
		20 ft.	149		north wall		
		20 ft.	571		south wall		
TP4	1/5/2007	4 ft.			32°29.428N	30.7	ND
		6 ft.	150	3.7	103°09.827W		
TP5	1/5/2007	4 ft.			32°29.420N	30.2	ND
		6 ft.	120	1.9	103°09.836W		

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Robert Spangler

Elke Environmental

P.O. Box 14167

Odessa, TX 79768

Project: Apache

Project Number: Hawk B- 1 #48

Location: None Given

Lab Order Number: 7A12017

Report Date: 01/16/07

Elke Environmental	Project: Apache	Fax: (432) 366-0884
P.O. Box 14167	Project Number: Hawk B- 1 #48	
Odessa TX, 79768	Project Manager: Robert Spangler	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1@ 6'	7A12017-01	Soil	01/05/07 13:40	01-12-2007 14:40
TP2@ 6'	7A12017-02	Soil	01/05/07 13:50	01-12-2007 14:40
TP3@ 15'	7A12017-03	Soil	01/05/07 13:00	01-12-2007 14:40
TP4@ 4'	7A12017-04	Soil	01/05/07 11:00	01-12-2007 14:40
TP5@ 4'	7A12017-05	Soil	01/05/07 11:30	01-12-2007 14:40

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Elke Environmental	Project: Apache	Fax: (432) 366-0884
P.O. Box 14167	Project Number: Hawk B- 1 #48	
Odessa TX, 79768	Project Manager: Robert Spangler	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP1@ 6' (7A12017-01) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71216	01/12/07	01/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*103 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*111 %*	*70-130*		"	"	"	"	
TP2@ 6' (7A12017-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71216	01/12/07	01/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*71.7 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.3 %*	*70-130*		"	"	"	"	
TP3@ 15' (7A12017-03) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71216	01/12/07	01/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*114 %*	*70-130*		"	"	"	"	
TP4@ 4' (7A12017-04) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71216	01/12/07	01/13/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*102 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*108 %*	*70-130*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Elke Environmental	Project: Apache	Fax: (432) 366-0884
P.O. Box 14167	Project Number: Hawk B- 1 #48	
Odessa TX, 79768	Project Manager: Robert Spangler	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP5@ 4' (7A12017-05) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA71216	01/12/07	01/14/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbons	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*99.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*105 %*	*70-130*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Elke Environmental	Project: Apache	Fax: (432) 366-0884
P.O. Box 14167	Project Number: Hawk B- 1 #48	
Odessa TX, 79768	Project Manager: Robert Spangler	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP1@ 6' (7A12017-01) Soil									
Chloride	**124**	10.0	mg/kg	20	EA71505	01/15/07	01/16/07	EPA 300.0	
% Moisture	**26.7**	0.1	%	1	EA71501	01/12/07	01/15/07	% calculation	
TP2@ 6' (7A12017-02) Soil									
Chloride	**88.6**	5.00	mg/kg	10	EA71505	01/15/07	01/16/07	EPA 300.0	
% Moisture	**10.9**	0.1	%	1	EA71501	01/12/07	01/15/07	% calculation	
TP3@ 15' (7A12017-03) Soil									
Chloride	**147**	10.0	mg/kg	20	EA71505	01/15/07	01/16/07	EPA 300.0	
% Moisture	**9.2**	0.1	%	1	EA71501	01/12/07	01/15/07	% calculation	
TP4@ 4' (7A12017-04) Soil									
Chloride	**30.7**	5.00	mg/kg	10	EA71505	01/15/07	01/16/07	EPA 300.0	
% Moisture	**6.5**	0.1	%	1	EA71501	01/12/07	01/15/07	% calculation	
TP5@ 4' (7A12017-05) Soil									
Chloride	**30.2**	10.0	mg/kg	20	EA71505	01/15/07	01/16/07	EPA 300.0	
% Moisture	**7.5**	0.1	%	1	EA71501	01/12/07	01/15/07	% calculation	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Elke Environmental
P.O. Box 14167
Odessa TX, 79768

Project: Apache
Project Number: Hawk B- 1 #48
Project Manager: Robert Spangler

Fax: (432) 366-0884

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA71216 - Solvent Extraction (GC)										
Blank (EA71216-BLK1)				Prepared: 01/12/07 Analyzed: 01/13/07						
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbons	ND	10.0	"							
Surrogate: 1-Chlorooctane	*42.3*		*mg/kg*	*50.0*		*84.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.2*		"	*50.0*		*88.4*	*70-130*			
LCS (EA71216-BS1)				Prepared: 01/12/07 Analyzed: 01/13/07						
Carbon Ranges C6-C12	546	10.0	mg/kg wet	500		109	75-125			
Carbon Ranges C12-C28	559	10.0	"	500		112	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00			75-125			
Total Hydrocarbons	1110	10.0	"	1000		111	75-125			
Surrogate: 1-Chlorooctane	*55.1*		*mg/kg*	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.3*		"	*50.0*		*86.6*	*70-130*			
Calibration Check (EA71216-CCV1)				Prepared: 01/12/07 Analyzed: 01/14/07						
Carbon Ranges C6-C12	232		mg/kg	250		92.8	80-120			
Carbon Ranges C12-C28	283		"	250		113	80-120			
Total Hydrocarbons	515		"	500		103	80-120			
Surrogate: 1-Chlorooctane	*55.1*		"	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.0*		"	*50.0*		*100*	*70-130*			
Matrix Spike (EA71216-MS1)	**Source: 7A12010-01**			Prepared: 01/12/07 Analyzed: 01/14/07						
Carbon Ranges C6-C12	707	10.0	mg/kg dry	531	44.6	125	75-125			
Carbon Ranges C12-C28	699	10.0	"	531	270	80.8	75-125			
Carbon Ranges C28-C35	36.0	10.0	"	0.00	55.6		75-125			
Total Hydrocarbons	1440	10.0	"	1060	370	101	75-125			
Surrogate: 1-Chlorooctane	*73.6*		*mg/kg*	*50.0*		*147*	*70-130*			*S-04*
Surrogate: 1-Chlorooctadecane	*62.0*		"	*50.0*		*124*	*70-130*			

Elke Environmental
P.O. Box 14167
Odessa TX, 79768

Project: Apache
Project Number: Hawk B- 1 #48
Project Manager: Robert Spangler

Fax: (432) 366-0884

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA71216 - Solvent Extraction (GC)										
Matrix Spike Dup (EA71216-MSD1)	**Source: 7A12010-01**			Prepared: 01/12/07 Analyzed: 01/14/07						
Carbon Ranges C6-C12	705	10.0	mg/kg dry	531	44.6	124	75-125	0.803	20	
Carbon Ranges C12-C28	696	10.0	"	531	270	80.2	75-125	0.745	20	
Carbon Ranges C28-C35	34.4	10.0	"	0.00	55.6		75-125		20	
Total Hydrocarbons	1440	10.0	"	1060	370	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*69.5*		*mg/kg*	*50.0*		*139*	*70-130*			*S-04*
Surrogate: 1-Chlorooctadecane	*59.3*		*"*	*50.0*		*119*	*70-130*			

Elke Environmental
P.O. Box 14167
Odessa TX, 79768

Project: Apache
Project Number: Hawk B- 1 #48
Project Manager: Robert Spangler

Fax: (432) 366-0884

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA71501 - General Preparation (Prep)										
Blank (EA71501-BLK1)				Prepared: 01/12/07 Analyzed: 01/15/07						
% Solids	100		%							
Duplicate (EA71501-DUP1)	Source: 7A12005-01			Prepared: 01/12/07 Analyzed: 01/15/07						
% Solids	84.5		%		87.5			3.49	20	
Duplicate (EA71501-DUP2)	Source: 7A12011-03			Prepared: 01/12/07 Analyzed: 01/15/07						
% Solids	91.9		%		92.3			0.434	20	
Batch EA71505 - Water Extraction										
Blank (EA71505-BLK1)				Prepared: 01/15/07 Analyzed: 01/16/07						
Chloride	ND	0.500	mg/kg							
LCS (EA71505-BS1)				Prepared: 01/15/07 Analyzed: 01/16/07						
Chloride	10.2	0.500	mg/kg	10.0		102	80-120			
Calibration Check (EA71505-CCV1)				Prepared: 01/15/07 Analyzed: 01/16/07						
Chloride	9.17		mg/L	10.0		91.7	80-120			
Duplicate (EA71505-DUP1)	Source: 7A10025-02			Prepared: 01/15/07 Analyzed: 01/16/07						
Chloride	339	5.00	mg/kg		340			0.295	20	
Duplicate (EA71505-DUP2)	Source: 7A12017-05			Prepared: 01/15/07 Analyzed: 01/16/07						
Chloride	33.1	10.0	mg/kg		30.2			9.16	20	
Matrix Spike (EA71505-MS1)	Source: 7A10025-02			Prepared: 01/15/07 Analyzed: 01/16/07						
Chloride	444	5.00	mg/kg	100	340	104	80-120			

Elke Environmental	Project: Apache	Fax: (432) 366-0884
P.O. Box 14167	Project Number: Hawk B- 1 #48	
Odessa TX, 79768	Project Manager: Robert Spangler	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA71505 - Water Extraction										
Matrix Spike (EA71505-MS2)	**Source: 7A12017-05**			Prepared: 01/15/07 Analyzed: 01/16/07						
Chloride	256	10.0	mg/kg	200	30.2	113	80-120			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 1/16/2007

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Robert Spangler
Company Name: Elke Environmental, Inc.
Company Address: 4817 Andrews Hwy
City/State/Zip: Odessa, TX 79762
Telephone No: 432-366-0043 Fax No: 432-366-0884
Sampler Signature: Robert Spangler e-mail: elkeenv@yahoo.com

Project Name: Apache
Project #: Hawk B-1 #48
Project Loc:
PO #:
Report Format: ☑ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 7A1207

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 (8015B) 1005 1006	TOTAL: TPH: 418.1 (8015B) 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO_4, CO_3, HCO_3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/8260B or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	TP1@ 6'		6'	1-5-07	1:40 pm	1	1								S			1			1									1
02	TP2@ 6'		6'	1-5-07	1:50 Pm	1	1								S			1			1									1
03	TP3@ 15'		15'	1-5-07	3:00 pm	1	1								S			1			1									1
04	TP4@ 4'		4'	1-5-07	11:00 Am	1	1								S			1			1									1
05	TP5@ 4'		4'	1-5-07	11:30 Am	1	1								S			1			1									1

Special Instructions:
Please Email [redacted] Results to Elkeenv@Yahoo.com
RG

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Spangler	1-9-07	8:00A		1-9-07	8:00A
	1-12-07	14:40	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	1/12/07	14:40

Laboratory Comments:
Sample Containers Intact? Ⓨ N
VOCs Free of Headspace? Ⓨ N
Custody seals on container(s) Ⓨ N
Custody seals on cooler(s) Ⓨ N
Sample Hand Delivered by Sampler/Client Rep. ? Ⓨ N
by Courier? UPS DHL FedEx Lone Star
4oz glass
Temperature Upon Receipt: 2.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Elke

Date/ Time: 1/12/07 14:40

Lab ID #: 7A12017

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	2.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

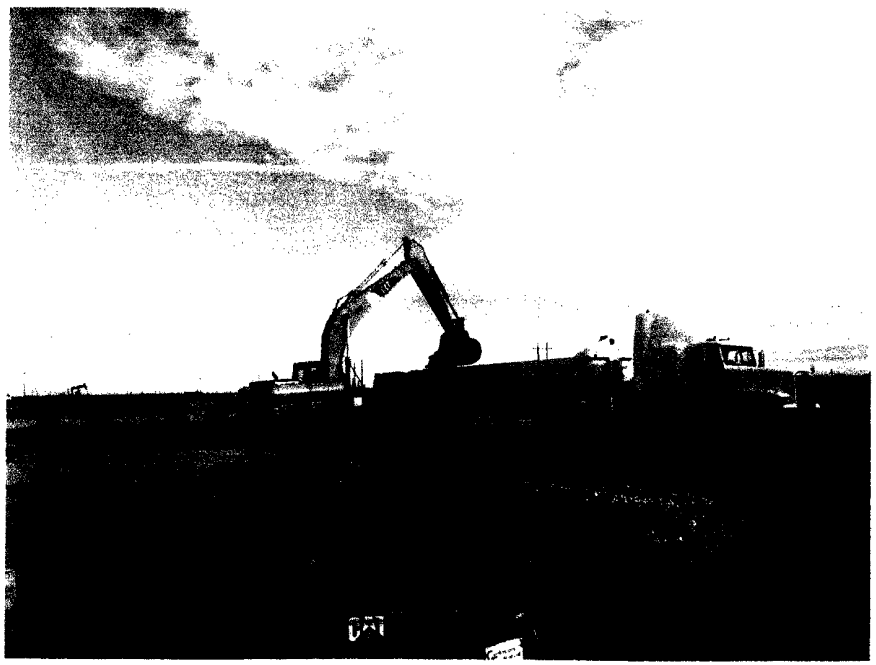
Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

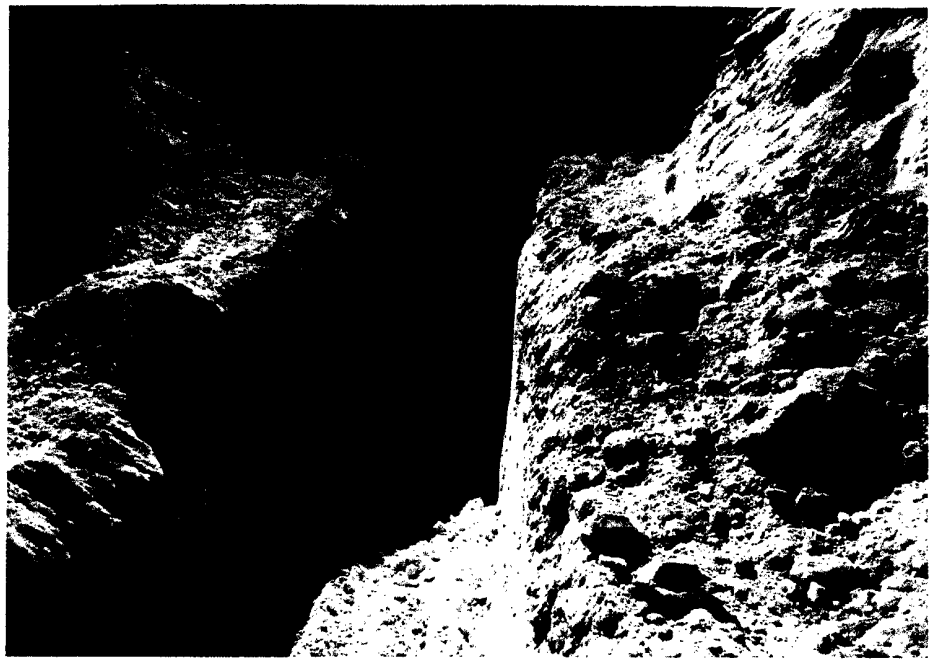
Front leg of reserve pit

Adding dirt to help stiffen mud

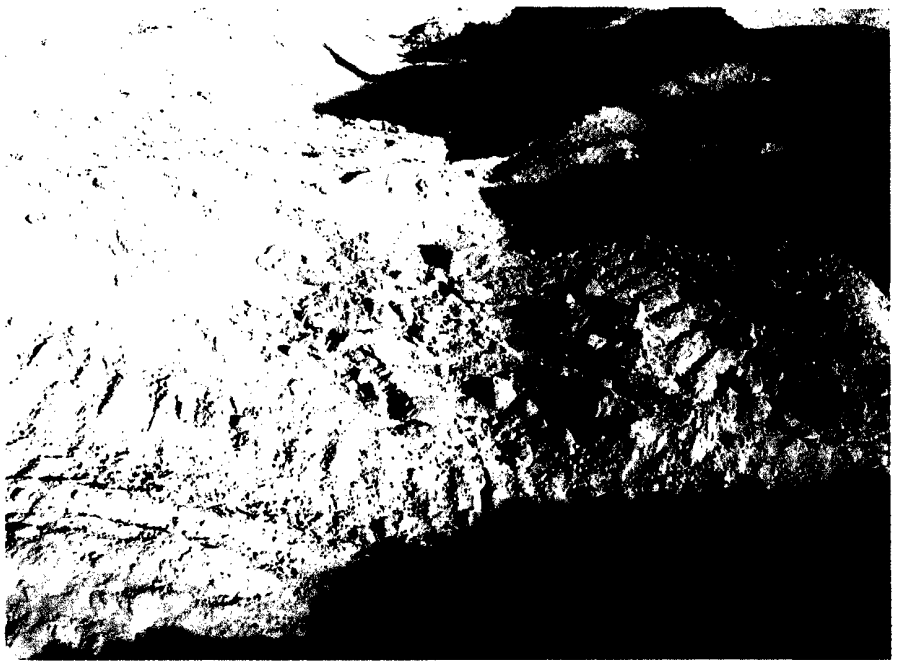


Loading trucks with mud

Center of pit after mud was hauled

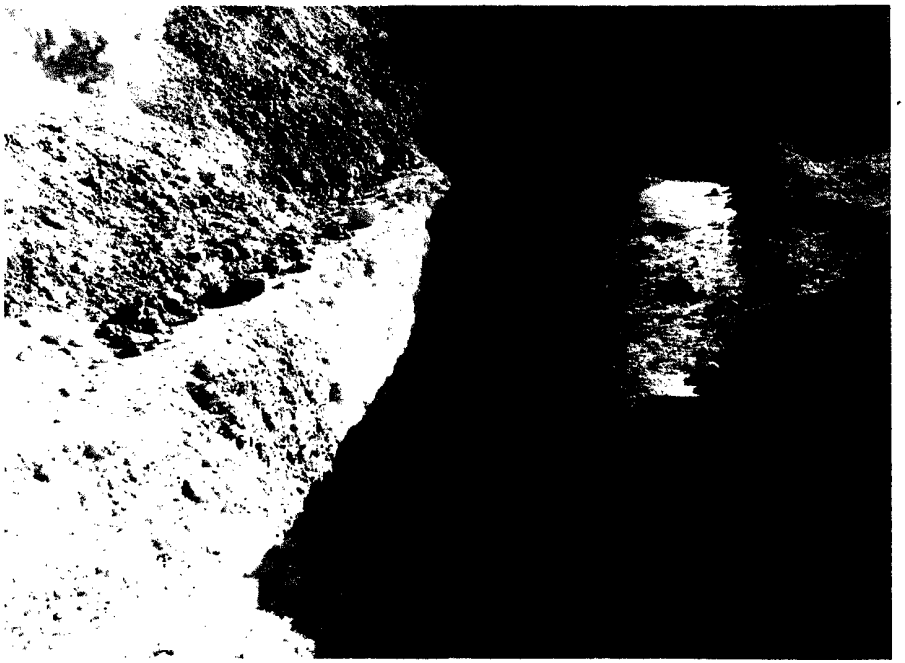


Test point #3



Test point #1

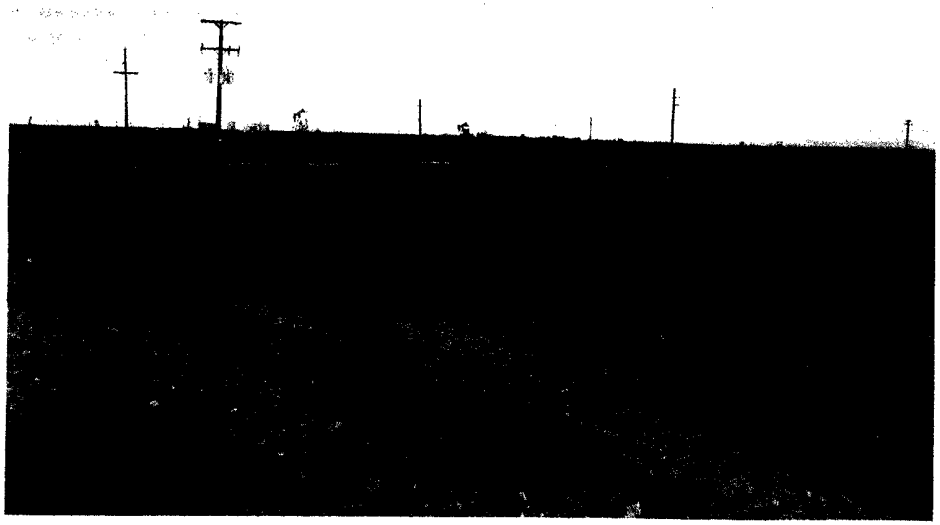
Test point #4



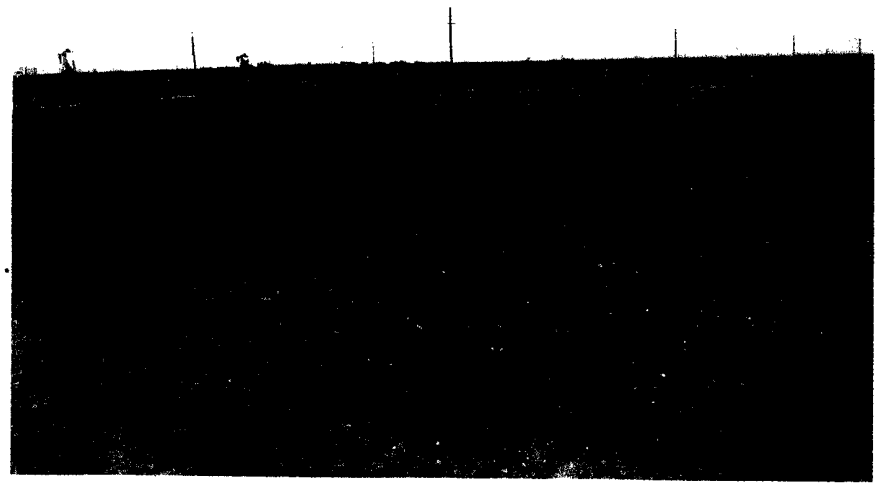
Test point #2

Test point #5

Digging contaminated soil from test point #3



Location after backfill



Location after backfill