

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: XTO Energy, Inc.	Contact: Logan Hixon	
Address: 382 Road 3100, Aztec, New Mexico 87410	Telephone No.: (505) 333-3683	
Facility Name: Jicarilla Apache #18 (API 30-039-21256)	Facility Type: Gas Well (Pictured Cliffs)	
Surface Owner: Tribal Trust or Indian Allotment	Mineral Owner:	Lease No.: Jic-154

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	28	26 N	5 W	1450	FSL	790	FEL	Rio Arriba

Latitude: N36.45066 Longitude: W-107.35872

RCVD MAR 7 '13  
OIL CONS. DIV.  
DIST. 3

#### NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: None
Source of Release: BGT	Date and Hour of Occurrence: Historical	Date and Hour of Discovery: 6/8/2011
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

The below grade tank was taken out of service at the Jicarilla Apache #18 well site due to the plugging and abandoning of this well site. A composite sample was collected beneath the location of the on-site BGT, and submitted for laboratory analysis for TPH via USEPA Method 418.1 and 8015, Benzene and BTEX via USEPA Method 8021, and for total chlorides. The sample returned results below the 'Pit Rule' spill confirmation standards for TPH, Benzene and BTEX, but above the 'pit rule' standards for chlorides, confirming that a release had occurred at this location. This site was then ranked pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases. The site was ranked a 0 due to an estimated depth to groundwater over 100 feet, and a distance to surface water greater than 1000 feet, and no water sources within 1000 feet. This set the closure standard to 5000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX, or 100 ppm organic vapors.

Describe Area Affected and Cleanup Action Taken.\*

Based on chloride results of 280 ppm, it has been confirmed that a release had occurred on this location. The BGT closure composite sample returned results below the regulatory standards determined for this site pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases which does not include a chloride standard. All applicable analytical results are attached for your reference.

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: <i>Logan Hixon</i>	OIL CONSERVATION DIVISION	
Printed Name: Logan Hixon	Approved by District Supervisor: <i>Jonath D. Kelly</i>	
Title: Environmental Technician	Approval Date: 4/25/2013	Expiration Date:
E-mail Address: Logan.Hixon@xtoenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-5-2013	Phone: 505-333-3683	

njK1311551550



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Logan Hixon  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

### Report Summary

Friday October 26, 2012

Report Number: L601964

Samples Received: 10/19/12

Client Project:

Description: Jicarilla Apache 18

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Daphne Richards , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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# REPORT OF ANALYSIS

October 26, 2012

Logan Hixon  
XTO Energy - San Juan Division  
382 County Road 3100  
Aztec, NM 87410

ESC Sample # : L601964-01

Date Received : October 19, 2012  
Description : Jicarilla Apache 18

Site ID :

Sample ID : BGT CELLAR COMP

Project # :

Collected By : Logan Hixon  
Collection Date : 10/17/12 12:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Chloride	280	12.	mg/kg	9056	10/25/12	1
Total Solids	83.4	0.100	%	2540G	10/25/12	1
Benzene	BDL	0.0030	mg/kg	8021/8015	10/21/12	5
Toluene	BDL	0.030	mg/kg	8021/8015	10/21/12	5
Ethylbenzene	BDL	0.0030	mg/kg	8021/8015	10/21/12	5
Total Xylene	BDL	0.0090	mg/kg	8021/8015	10/21/12	5
TPH (GC/FID) Low Fraction	BDL	0.60	mg/kg	GRO	10/21/12	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene (FID)	99.0		% Rec.	8021/8015	10/21/12	5
a,a,a-Trifluorotoluene (PID)	101.		% Rec.	8021/8015	10/21/12	5
TPH (GC/FID) High Fraction	BDL	4.8	mg/kg	3546/DRO	10/23/12	1
Surrogate recovery(%)						
o-Terphenyl	62.9		% Rec.	3546/DRO	10/23/12	1

Results listed are dry weight basis.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Note:

This report shall not be reproduced, except in full, without the written approval from ESC.

The reported analytical results relate only to the sample submitted

Reported: 10/26/12 16:22 Printed: 10/26/12 16:22

Summary of Remarks For Samples Printed  
10/26/12 at 16:23:00

TSR Signing Reports: 288  
R5 - Desired TAT

Sample: L601964-01 Account: XTORNM Received: 10/19/12 09:00 Due Date: 10/26/12 00:00 RPT Date: 10/26/12 16:22



**YOUR LAB OF CHOICE**

XTO Energy - San Juan Division  
Logan Hixon  
382 County Road 3100  
Aztec, NM 87410

Quality Assurance Report  
Level II

L601964

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Analyte	Result	Laboratory Blank Units % Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg		WG618946	10/21/12 01:59
Ethylbenzene	< .0005	mg/kg		WG618946	10/21/12 01:59
Toluene	< .0005	mg/kg		WG618946	10/21/12 01:59
TPH (GC/FID) Low Fraction	< .1	mg/kg		WG618946	10/21/12 01:59
Total Xylene	< .0015	mg/kg		WG618946	10/21/12 01:59
a,a,a-Trifluorotoluene(FID)		% Rec. 100.2	59-128	WG618946	10/21/12 01:59
a,a,a-Trifluorotoluene(PID)		% Rec. 102.1	54-144	WG618946	10/21/12 01:59
TPH (GC/FID) High Fraction	< 4	mg/kg		WG619343	10/23/12 19:47
o-Terphenyl		% Rec. 76.80	50-150	WG619343	10/23/12 19:47
Total Solids	< .1	%		WG619257	10/25/12 09:08
Chloride	< 10	mg/kg		WG618951	10/24/12 16:19

Analyte	Units	Result	Duplicate Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	74.0	74.0	0.125	5	L601968-04	WG619257
Chloride	mg/kg	130.	135.	3.77	20	L601970-01	WG618951

Analyte	Units	Laboratory Control Sample Known Val Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0523	105.	76-113
Ethylbenzene	mg/kg	.05	0.0554	111.	78-115
Toluene	mg/kg	.05	0.0543	109.	76-114
Total Xylene	mg/kg	.15	0.165	110.	81-118
a,a,a-Trifluorotoluene(PID)				102.6	54-144
TPH (GC/FID) High Fraction	mg/kg	60	50.4	84.0	50-150
o-Terphenyl				71.75	50-150
Total Solids	%	50	50.0	100.	85-115
Chloride	mg/kg	200	206.	103.	80-120

Analyte	Units	Laboratory Control Sample Duplicate Result Ref %Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0519 0.0523	104.	76-113	0.810	20
Ethylbenzene	mg/kg	0.0550 0.0554	110.	78-115	0.620	20
Toluene	mg/kg	0.0541 0.0543	108.	76-114	0.450	20
Total Xylene	mg/kg	0.164 0.165	109.	81-118	0.450	20
a,a,a-Trifluorotoluene(PID)			103.0	54-144		
TPH (GC/FID) Low Fraction	mg/kg	6.15 6.27	112.	67-135	1.90	20
a,a,a-Trifluorotoluene(FID)			104.7	59-128		
TPH (GC/FID) High Fraction	mg/kg	50.6 50.4	84.0	50-150	0.499	20
o-Terphenyl			71.11	50-150		

\* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Chloride	mg/kg	205.	206.	102.	80-120	0.487	20	WG618951

Analyte	Units	Matrix Spike				Limit	Ref Samp	Batch
		MS Res	Ref Res	TV	% Rec			
Benzene	mg/kg	0.246	0	.05	98.3	32-137	L601901-03	WG618946
Ethylbenzene	mg/kg	0.239	0	.05	95.7	10-150	L601901-03	WG618946
Toluene	mg/kg	0.249	0	.05	99.7	20-142	L601901-03	WG618946
Total Xylene	mg/kg	0.726	0	.15	96.8	16-141	L601901-03	WG618946
a,a,a-Trifluorotoluene(PID)					102.8	54-144		WG618946
TPH (GC/FID) Low Fraction	mg/kg	25.8	0	5.5	93.9	55-109	L601901-03	WG618946
a,a,a-Trifluorotoluene(FID)					101.2	59-128		WG618946

Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit	Ref Samp	Batch
		MSD	Ref	%Rec					
Benzene	mg/kg	0.246	0.246	98.6	32-137	0.260	39	L601901-03	WG618946
Ethylbenzene	mg/kg	0.243	0.239	97.1	10-150	1.41	44	L601901-03	WG618946
Toluene	mg/kg	0.247	0.249	98.8	20-142	0.910	42	L601901-03	WG618946
Total Xylene	mg/kg	0.741	0.726	98.7	16-141	2.02	46	L601901-03	WG618946
a,a,a-Trifluorotoluene(PID)				101.5	54-144				WG618946
TPH (GC/FID) Low Fraction	mg/kg	22.9	25.8	83.4	55-109	11.9	20	L601901-03	WG618946
a,a,a-Trifluorotoluene(FID)				100.7	59-128				WG618946

Batch number / Run number / Sample number cross reference

WG618946: R2402399: L601964-01  
WG619343: R2404897: L601964-01  
WG619257: R2407157: L601964-01  
WG618951: R2409937: L601964-01

\* \* Calculations are performed prior to rounding of reported values.  
\* Performance of this Analyte is outside of established criteria.  
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

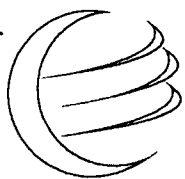
Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.







**envirotech**  
Analytical Laboratory

### Report Summary

Client: XTO

Chain of Custody Number: 14556

Samples Received: 10-17-12

Job Number: 98031-0528

Sample Number(s): 63477

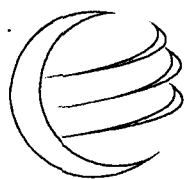
Project Name/Location: Jicarilla Apache #18

Entire Report Reviewed By:

Date:

10/22/12

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



# envirotech

Analytical Laboratory

EPA METHOD 418.1

TOTAL PETROLEUM HYDROCARBONS

Client:	XTO	Project #:	98031-0528
Sample ID:	BGT Cellar Comp	Date Reported:	10-18-12
Laboratory Number:	63477	Date Sampled:	10-17-12
Chain of Custody No:	14556	Date Received:	10-17-12
Sample Matrix:	Soil	Date Extracted:	10-18-12
Preservative:	Cool	Date Analyzed:	10-18-12
Condition:	Intact	Analysis Needed:	TPH-418.1

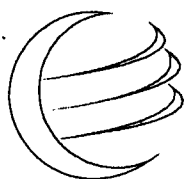
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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<b>Total Petroleum Hydrocarbons</b>	<b>20.8</b>	<b>13.0</b>
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ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: Jicarilla Apache #18



# envirotech

Analytical Laboratory

EPA METHOD 418.1

TOTAL PETROLEUM HYDROCARBONS

QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	QA/QC	Date Reported:	10-18-12
Laboratory Number:	10-18-TPH.QA/QC 63468	Date Sampled:	N/A
Sample Matrix:	Freon-113	Date Analyzed:	10-18-12
Preservative:	N/A	Date Extracted:	10-18-12
Condition:	N/A	Analysis Needed:	TPH

Calibration	I-Cal Date	C-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
	07-11-12	10-18-12	1,623	1,720	6.0%	+/- 10%

Blank Conc. (mg/Kg)	Concentration	Detection Limit
TPH	ND	13.0

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
TPH	27.2	29.8	9.6%	+/- 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
TPH	27.2	2,000	1,750	86.3%	80 - 120%

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: QA/QC for Samples 63468 and 63477-63480

# CHAIN OF CUSTODY RECORD

14556

Client: <b>YTO</b>			Project Name / Location: <b>Jicarilla Apache #18</b>			ANALYSIS / PARAMETERS													
Email results to: <b>Logan Hixon</b>			Sampler Name: <b>Logan Hixon</b>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: <b>(505) 386-8018</b>			Client No.: <b>98031-0528</b>																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HgCl <sub>2</sub>	HCl													
Bgt cellar comp	10/17	12:10	63477	1-4oz										X					✓
Relinquished by: (Signature) <i>Logan Hixon</i>					Date 10/17	Time 15:35	Received by: (Signature) <i>[Signature]</i>					Date 10/17/12	Time 15:35						
Relinquished by: (Signature)							Received by: (Signature) <i>[Signature]</i>												
Sample Matrix Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area.																			



XTO Energy, Inc.  
Jicarilla Apache #18  
Section 28 (I), Township 26N, Range 5W  
Closure Date February 8, 2013



Photo 1: Jicarilla Apache #18 after P&A'ing Activities.

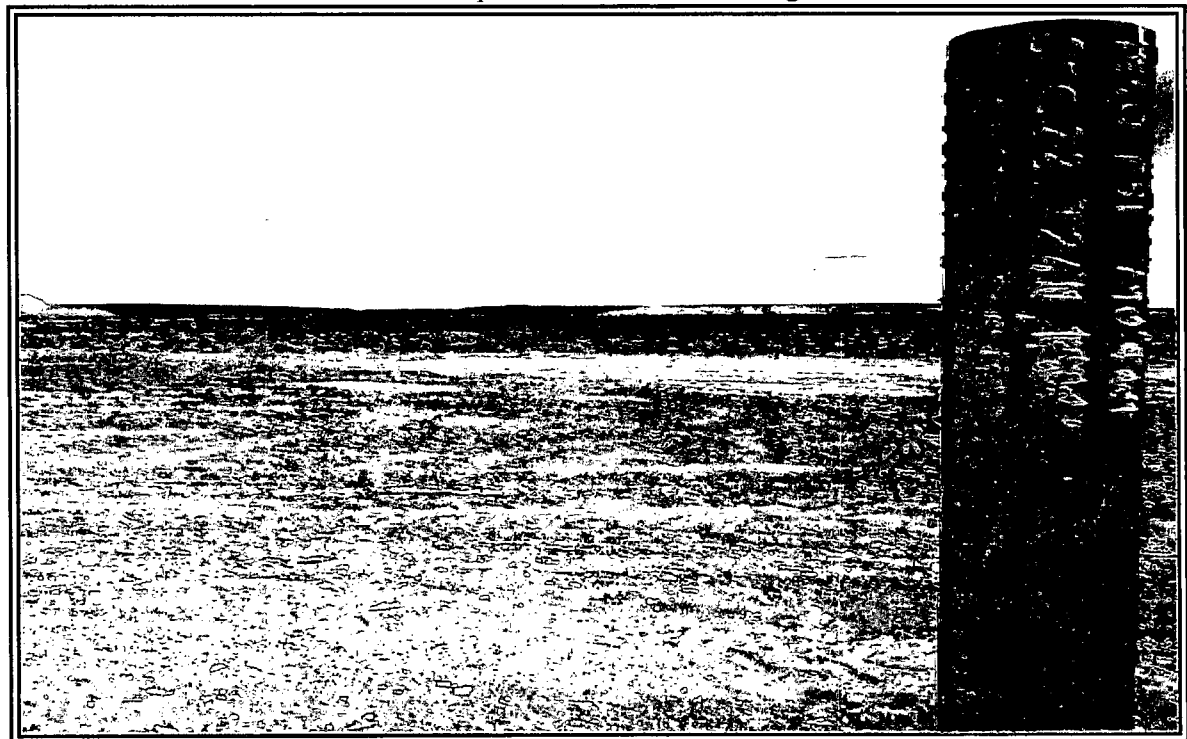


Photo 2: Jicarilla Apache #18 after P&A'ing Activities.

XTO Energy, Inc.  
Jicarilla Apache #18  
Section 28 (I), Township 26N, Range 5W  
Closure Date February 8, 2013

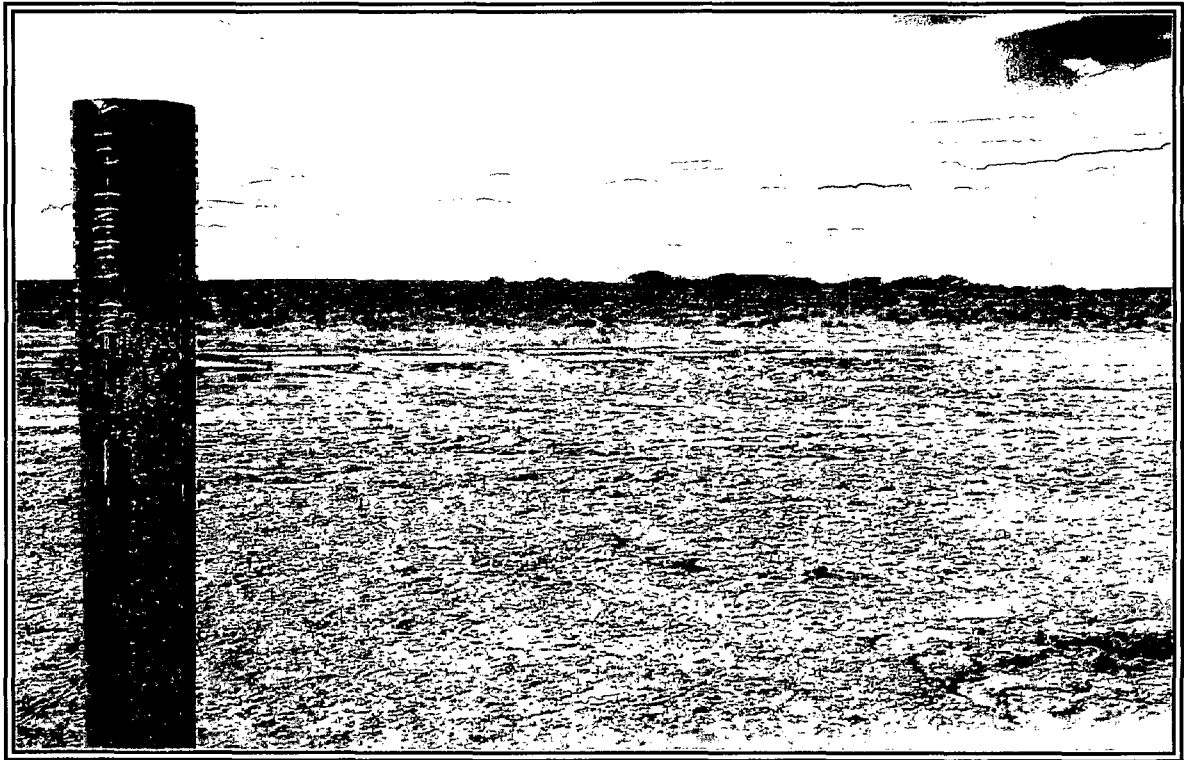


Photo 3: Jicarilla Apache #18 after P&A'ing Activities.



Photo 4: Jicarilla Apache #18 after P&A'ing Activities.