

State of New Mexico  
Energy, Minerals and Natural Resources Department

**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary-Designate

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date:

Application Type:

☐ P&A    ☐ Drilling/Casing Change    ☐ Recomplete/DHC  
☐ Location Change    ☒ Other:

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-30130-00-00	OWENS	001A	XTO ENERGY, INC	G	A	San Juan	F	K	7	31	N	12	W

Conditions of Approval:

1. XTO Notify NMOCD verbally and by email 72hrs prior to soil sampling of in-situ remediation piles.
2. XTO will fence the excavation with 4' hogwire fence with 1 strand of barb wire on top.
3. XTO will build a temporary berm around the remediation piles to contain the contaminated material on site.

NMOCD Approved by Signature

6-26-14  
Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.  
NMSF078243

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**8. Well Name and No.  
OWENS 1A9. API Well No.  
30-045-30130-00-S110. Field and Pool, or Exploratory  
BLANCO MESAVERDE11. County or Parish, and State  
SAN JUAN COUNTY, NM

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
XTO ENERGY INCContact: SHERRY J MORROW  
E-Mail: sherry\_morrow@xtoenergy.com3a. Address  
382 ROAD 3100  
AZTEC, NM 874103b. Phone No. (include area code)  
Ph: 505-333-3630

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 7 T31N R12W NESW 1975FSL 1980FWL  
36.912117 N Lat, 108.139221 W Lon

## 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

XTO Energy Inc. has attached a Remediation Plan for the spill that occurred on this location on 6/23/14. This remediation plan will be executed immediately upon your approval.

If you have any questions or concerns please contact James McDaniel at 505-333-3100.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #250880 verified by the BLM Well Information System  
For XTO ENERGY INC, sent to the Farmington  
Committed to AFMSS for processing by MARK KELLY on 06/26/2014 (14MXK0174SE)

Name (Printed/Typed) SHERRY J MORROW

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/25/2014

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MARK KELLY

Title BRANCH CHIEF ENVIRONMENTAL PROTECTION Date 02/26/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Farmington

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

AV



**Owens #1A**

**API # 30-045-30130**

**Unit K, Section 7, Township 31N, Range 12W**

**San Juan County, New Mexico**

**Lat: 36.91211 Long: -108.139220**

**Remediation Plan**

**Submitted By:**

**James McDaniel**

**EH&S Supervisor**

**XTO Energy, Inc.**

**505-333-3701**

## Introduction

On June 23, 2014, a loss of approximately 80 bbls of production fluids was discovered at the Owens #1A well site. Approximately 42 bbls of condensate, and 38 bbls of produced water was lost from the on-site production tank through a hole in the tank. All fluids were contained within the bermed area, and soaked into the ground beneath the tank berm. No fluids were recovered. The site was then ranked a zero pursuant to the NMOCD Guidelines for the Remediation of Leaks, Spills and Releases, setting the closure standards for this location to 5,000 ppm total petroleum hydrocarbons (TPH), 10 ppm Benzene, and 50 ppm total BTEX. The required 24 hour notice was made to Cory Smith with the NMOCD on June 24<sup>th</sup>, 2014. Samples were collected to determine the extent of the impacted soil from 2', 4' and 6' below ground surface. All three samples returned results above the 50 ppm BTEX standard, determining that excavation activities would need to be performed. The production tank has been cleaned and moved in preparation for excavation activities.

## Proposed Remediation Activity

XTO proposes to excavate the impacted materials to extents of the NMOCD Standards of 5,000 ppm TPH, 10 ppm benzene and 50 ppm total BTEX, as determined by laboratory analysis. Estimated impacted soil is estimated at between 100-150 cubic yards at this time. Due to the relatively low levels of TPH compared to the BTEX constituents in the sample results, XTO proposes to remediate the impacted soil on-site in a bio-pile or landfarm in order to re-use the soils for backfill purposes. Based on the temperature and the volatile nature of the constituents, XTO believes that the light range hydrocarbons will flash off quickly, leaving behind only the heavier, less mobile hydrocarbons. XTO proposes to turn the bio-pile or landfarm 3-4 times, allowing the sun to remediate the soil, and resample for TPH, Benzene and BTEX. Should the impacted soils achieve results below the closure standards determined for this location of 5,000 ppm TPH, 10 ppm benzene and 50 ppm BTEX, the remediated soil would be used for backfill of the spill excavation area. If the closure levels cannot be achieved in a maximum time of two week, then the soil would be hauled off for disposal, with clean backfill being brought in. Preliminary sample results, a topographic map, and a facility diagram are attached with this plan for your reference.

Please consider this remediation plan the proposal for remediation activities at the Owens #1A well site. XTO is prepared to execute this remediation plan immediately upon approval.



James McDaniel, CHMM #15676  
EH&S Supervisor  
XTO Energy, Inc.  
Western Division





## Analytical Report

### Report Summary

Client: XTO Energy Inc.

Chain Of Custody Number: 0069

Samples Received: 6/24/2014 1:50:00PM

Job Number: 98031-0528

Work Order: P406101

Project Name/Location: Owens 1A

Entire Report Reviewed By:

**Draft**

Date: 6/25/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: Owens 1A  
Project Number: 98031-0528  
Project Manager: Logan Hixon

**Reported:**  
25-Jun-14 09:49

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NE 12"	P406101-01A	Soil	06/24/14	06/24/14	Glass Jar, 4 oz.
W 2'	P406101-02A	Soil	06/24/14	06/24/14	Glass Jar, 4 oz.
W 6'	P406101-03A	Soil	06/24/14	06/24/14	Glass Jar, 4 oz.

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XTO Energy Inc.  
 382 CR 3100  
 Aztec NM, 87410

 Project Name: Owens 1A  
 Project Number: 98031-0528  
 Project Manager: Logan Hixon

**Reported:**  
 25-Jun-14 09:49

**DRAFT: NE 12"**  
**P406101-01 (Solid)**

Analyte	Reporting				Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Units	Dilution					
DRAFT: Volatile Organics by EPA 8021									
Benzene	2.08	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Toluene	55.6	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Ethylbenzene	26.1	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
p,m-Xylene	244	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
o-Xylene	62.7	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Surrogate: Bromochlorobenzene		139 %		80-120	1426009	06/24/14	06/24/14	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		629 %		80-120	1426009	06/24/14	06/24/14	EPA 8021B	S-02

**DRAFT: Nonhalogenated Organics by 8015**

Gasoline Range Organics (C6-C10)	1380	4.99	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	109	30.0	mg/kg	1	1426010	06/24/14	06/24/14	EPA 8015D	

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XTO Energy Inc. 382 CR 3100 Aztec NM, 87410	Project Name: Owens 1A Project Number: 98031-0528 Project Manager: Logan Hixon	Reported: 25-Jun-14 09:49
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**DRAFT: W 2'**  
**P406101-02 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
DRAFT: Volatile Organics by EPA 8021									
Benzene	6.48	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Toluene	126	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Ethylbenzene	39.1	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
p,m-Xylene	350	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
o-Xylene	88.3	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B	
Surrogate: Bromochlorobenzene		132 %	80-120		1426009	06/24/14	06/24/14	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		621 %	80-120		1426009	06/24/14	06/24/14	EPA 8021B	S-02
DRAFT: Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	2020	4.99	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	1270	30.0	mg/kg	1	1426010	06/24/14	06/24/14	EPA 8015D	

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XTO Energy Inc.  
 382 CR 3100  
 Aztec NM, 87410

 Project Name: Owens 1A  
 Project Number: 98031-0528  
 Project Manager: Logan Hixon

**Reported:**  
 25-Jun-14 09:49

**DRAFT: W 6'**  
**P406101-03 (Solid)**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
DRAFT: Volatile Organics by EPA 8021										
Benzene	10.4	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B		
Toluene	194	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B		
Ethylbenzene	57.4	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B		
p,m-Xylene	470	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B		
o-Xylene	133	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8021B		
Surrogate: 1,3-Dichlorobenzene		992 %		80-120	1426009	06/24/14	06/24/14	EPA 8021B		S-02
Surrogate: Bromochlorobenzene		445 %		80-120	1426009	06/24/14	06/24/14	EPA 8021B		S-02
DRAFT: Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	2710	5.00	mg/kg	1	1426009	06/24/14	06/24/14	EPA 8015D		
Diesel Range Organics (C10-C28)	2320	29.9	mg/kg	1	1426010	06/24/14	06/24/14	EPA 8015D		

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XTO Energy Inc.  
 382 CR 3100  
 Aztec NM, 87410

 Project Name: Owens 1A  
 Project Number: 98031-0528  
 Project Manager: Logan Hixon

**Reported:**  
 25-Jun-14 09:49

**DRAFT: Volatile Organics by EPA 8021 - Quality Control**
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1426009 - Purge and Trap EPA 5030A**
**Blank (1426009-BLK1)**

Prepared &amp; Analyzed: 24-Jun-14

Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
p,m-Xylene	ND	0.001	"							
o-Xylene	ND	0.001	"							
Total Xylenes	ND	0.001	"							
Total BTEX	ND	0.001	"							
Surrogate: 1,3-Dichlorobenzene	55.1		ug/L	50.0		110	80-120			
Surrogate: Bromochlorobenzene	56.3		"	50.0		113	80-120			

**Duplicate (1426009-DUP1)**

Source: P406093-01

Prepared &amp; Analyzed: 24-Jun-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	59.2		ug/L	50.0		118	80-120			
Surrogate: Bromochlorobenzene	62.2		"	50.0		124	80-120			S-02

**Matrix Spike (1426009-MS1)**

Source: P406093-01

Prepared &amp; Analyzed: 24-Jun-14

Benzene	52.7		ug/L	50.0	ND	105	39-150			
Toluene	53.2		"	50.0	ND	106	46-148			
Ethylbenzene	51.9		"	50.0	ND	104	32-160			
p,m-Xylene	106		"	100	ND	106	46-148			
o-Xylene	53.2		"	50.0	ND	106	46-148			
Surrogate: 1,3-Dichlorobenzene	57.6		"	50.0		115	80-120			
Surrogate: Bromochlorobenzene	60.2		"	50.0		120	80-120			

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: Owens 1A  
Project Number: 98031-0528  
Project Manager: Logan Hixon

**Reported:**  
25-Jun-14 09:49

**DRAFT: Nonhalogenated Organics by 8015 - Quality Control**

**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1426009 - Purge and Trap EPA 5030A**

**Blank (1426009-BLK1)**

Prepared & Analyzed: 24-Jun-14

Gasoline Range Organics (C6-C10) ND 0.10 mg/kg

**Duplicate (1426009-DUP1)**

Source: P406093-01

Prepared & Analyzed: 24-Jun-14

Gasoline Range Organics (C6-C10) 7.59 4.99 mg/kg ND 30

**Matrix Spike (1426009-MS1)**

Source: P406093-01

Prepared & Analyzed: 24-Jun-14

Gasoline Range Organics (C6-C10) 0.46 mg/L 0.450 ND 102 75-125

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com

XTO Energy Inc.  
 382 CR 3100  
 Aztec NM, 87410

 Project Name: Owens 1A  
 Project Number: 98031-0528  
 Project Manager: Logan Hixon

**Reported:**  
 25-Jun-14 09:49

**DRAFT: Nonhalogenated Organics by 8015 - Quality Control**
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1426010 - DRO Extraction EPA 3550C**
**Blank (1426010-BLK1)**

Prepared &amp; Analyzed: 24-Jun-14

Diesel Range Organics (C10-C28) ND 30.0 mg/kg

**Duplicate (1426010-DUP1)**

Source: P406093-01

Prepared &amp; Analyzed: 24-Jun-14

Diesel Range Organics (C10-C28) ND 30.0 mg/kg ND 30

**Matrix Spike (1426010-MS1)**

Source: P406093-01

Prepared &amp; Analyzed: 24-Jun-14

Diesel Range Organics (C10-C28) 279 mg/L 250 6.00 109 75-125

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XTO Energy Inc.  
382 CR 3100  
Aztec NM, 87410

Project Name: Owens 1A  
Project Number: 98031-0528  
Project Manager: Logan Hixon

**Reported:**  
25-Jun-14 09:49

#### Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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

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5796 US Highway 64, Farmington, NM 87401

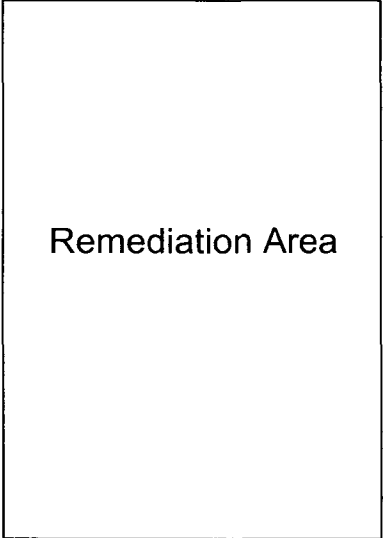
Ph (505) 632-0615 Fx (505) 632-1865

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

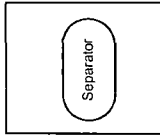
Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com  
laboratory@envirotech-inc.com

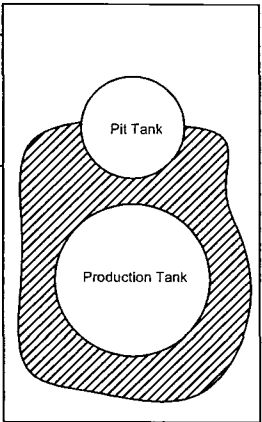




Remediation Area



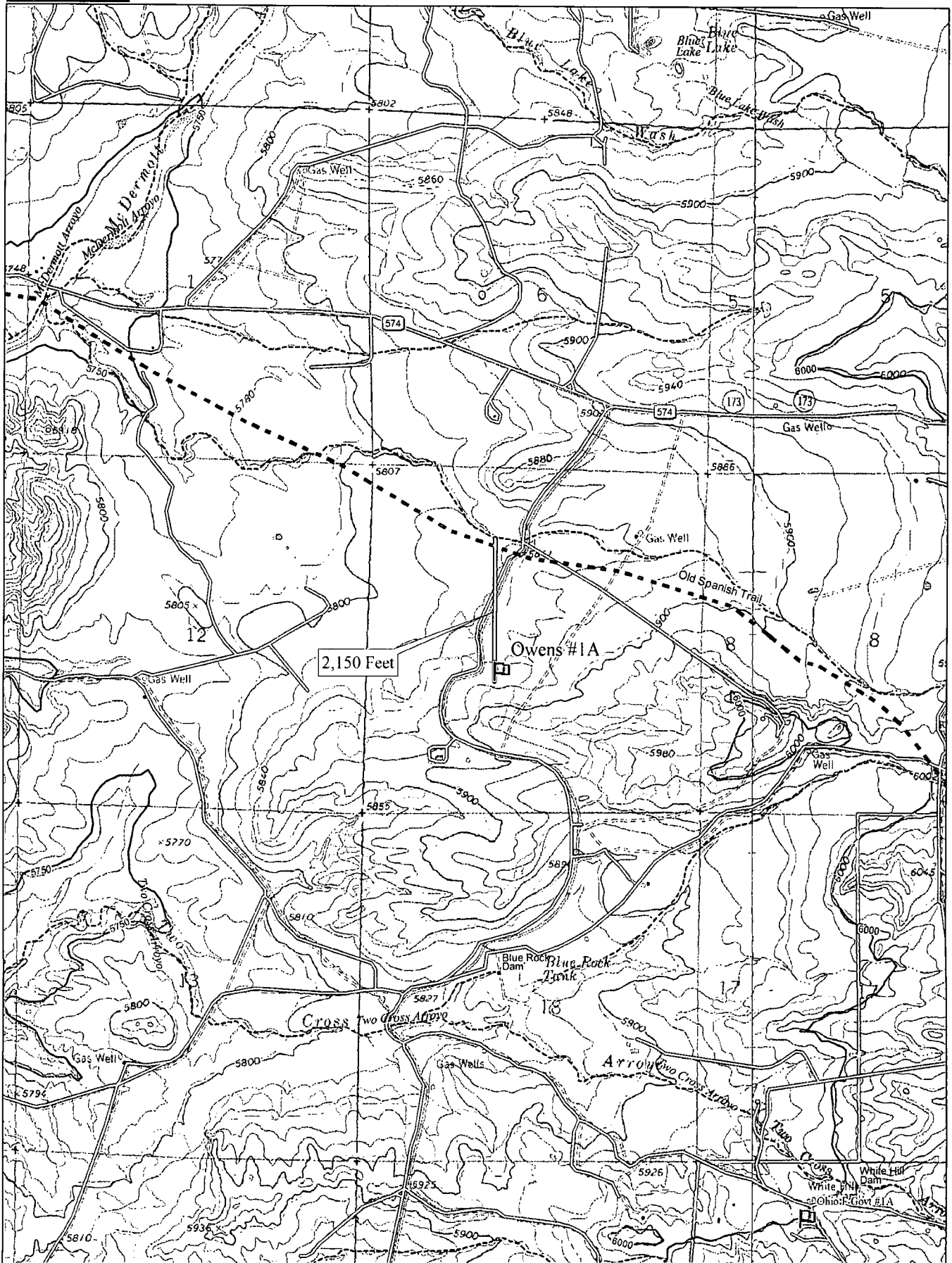
Separator



Pit Tank

Production Tank

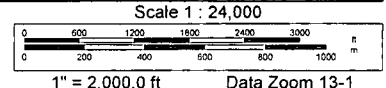




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Data Zoom 13-1