

BTA OIL PRODUCERS

MAXUS B FEDERAL #003

API 30-025-30661

C141 SITE ABANDONMENT PLAN

NMOCD RP # ~~1285~~?

1285?

UL-B (NW¼ OF THE NE¼) OF SECTION 34 T22S R34E
LATITUDE: N32° 21.216' LONGITUDE: 103° 27.283'
~18.2 MILES SW (BEARING 251°) OF EUNICE
LEA COUNTY, NEW MEXICO

April 24, 2007

HH PROJECT REF: BTA-FRENCH-003

PREPARED FOR BTA OIL PRODUCERS BY:

HUNGRY HORSE, LLC

ENVIRONMENTAL SERVICES

P.O. Box 1058; 3709 S. Eunice Hwy
Hobbs, NM 88241

Phone: 505-393-3386

Cell: 505-631-3277

Fax: 505-391-4585

E-mail: jgood4614@aol.com

JOHN GOOD
ENVIRONMENTAL MANAGER



RP# 1285

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1.0 Project Summary

Release Site Name: Maxus Federal B #003 (API: 30-025-30661)
Operating Company: BTA Oil Producers
Company Representative: Royce Boyce, Operations Manager Phone: 432-682-3753
Address: 104 S. Pecos, Midland, TX 79701-9988 Email: RBoyce@BTAOil.com
Remediation Company: Hungry Horse, LLC Phone: 505-393-3386

SITE SPECIFIC DATA:

Legal Description: Lea County, New Mexico UL-B Section 34, T22S, R34E
General Location: 18.2 miles southwest (bearing 251°) of Eunice, NM.
Latitude: N32° 21.216' Longitude: W103° 27.283' Elevation: 3,406-ft amsl
Land Ownership: Surface – State of NM; Minerals - Bureau of Land Management
Ground Water Elevation: ~135' bgs (based on Chevron/Texaco contour map)
Water Wells within 1000-ft: none Surface Water within 1000-ft: none

RELEASE SPECIFIC DATA:

Date and Time of Release(s): Periodically over long time period
Material Released: Crude Oil
Volume Released: Unknown but >5-bbl Volume Recovered: 0-bbl
Cause of Release: Blow-down line of separator installed to discharge off-site into pasture.
Release Affected Area: 40' X 30' (1200-ft²) north of separator @ NE corner of battery
Depth of Contamination: Unknown – estimate 5-ft to 10-ft bgs
NMOCD Site Ranking: 0 (ground water > 100' below lowest contamination)

PROPOSED REMEDIATION:

This Site Remediation Plan is submitted pursuant to a Notice of Written Order issued to BTA by Mr. Paul Evans of the BLM – Carlsbad Office. The Maxus Federal B 003 well and battery have been Plugged and Abandoned. BTA has authorized Hungry Horse LLC to remediate and close the entire facility in accordance with BLM specifications. All hydrocarbon contaminated soils (excepting the materials within the work over pit) will be excavated and blended on-site to achieve contamination levels below the NMOCD Remedial Action Levels for this site (TPH: 5000-ppm; Total Chlorides: 250-ppm). The materials within the work over pit recently constructed and utilized in the well plugging procedure will not be blended, but rather will be buried in-place after free fluid removal. The work over pit has sufficient excess liner material to fold over the top prior to burial.

The caliche well pad will be mined for the caliche which will be utilized by BTA to construct new containment berms and/or to augment existing containment berms at nearby facilities. Clean topsoil will be placed over the area where needed to provide an adequate root zone, and the entire area will be seeded with BLM #2 blended seed mixture. The access road to the site will be mined for usable caliche and seeded with BLM #2 seed mixture. The road entrance will be blocked with a 4-ft trench/dike combination. A location map, topographical map, aerial photo of the site, a site detail drawing and a water table contour map are included as Plates 1-5 in the Attachments.

2.0 Site Description

2.1 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil." The release site is located within the San Simon Swale physiographic subdivision, described by Nicholson & Clebsch as an area "covered by stabilized dune sand and no apparent drainage pattern is apparent" (Nicholson & Clebsch - 1961).

2.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Quercus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses, flowering annuals and flowering perennials. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 Area Ground Water

Based on available evidence, depth to ground water is projected to be ~135-ft below ground surface (bgs).

2.4 Area Water Wells

There are no recorded or observed water wells within 1000 horizontal feet of the site.

2.5 Area Surface Water Features

No permanent surface water bodies exist within 1000 horizontal feet of the site.

3.0 Contaminant and Size of Area

The primary Contaminants of Concern (COC's) are petroleum based hydrocarbons and, to a lesser extent total chlorides. The release affected area is elliptical in shape (30' X 40') and is located off the well pad approximately 30-ft north of the separator unit. The calculated area of the total release is ~1,200-ft² (see Plate 4, Attachments).

The fluids associated with this release are considered RCRA Exempt oilfield waste. No evidence of other contaminants was observed.

4.0 NMOCD Site Ranking Table

Preliminary investigation and evaluation of this site indicate that the chemical parameters of the soil and the physical parameters of the ground water are characterized consistent with the

characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- *Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)*
- *Unlined Surface Impoundment Closure Guidelines (February 1993)*

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX⁸²⁶⁰), was determined based on the NMOCD Ranking Criteria as follows:

- *Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.*
- *Wellhead Protection Area, i.e., distance from fresh water supply wells.*
- *Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.*

Based on the proximity of the site to area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 0 points with the soil remedial goals highlighted in the Site Ranking Table.

NMOCD Site Ranking Table

1. GROUND WATER		2. WELLHEAD PROTECTION	3. DISTANCE TO SURFACE WATER
DEPTH TO GW <50 FEET: 20 POINTS		IF <1000' FROM WATER SOURCE, OR; <200' FROM PRIVATE DOMESTIC WATER SOURCE: 20 POINTS	<200 HORIZONTAL FEET: 20 POINTS
DEPTH TO GW 50 TO 99 FEET: 10 POINTS			200-1000 HORIZONTAL FEET: 10 POINTS
DEPTH TO GW >100 FEET: 0 POINTS		IF >1000' FROM WATER SOURCE, OR; >200' FROM PRIVATE DOMESTIC WATER SOURCE: 0 POINTS	>1000 HORIZONTAL FEET: 0 POINTS
GROUND WATER SCORE =1 0		WELLHEAD PROTECTION SCORE= 0	SURFACE WATER SCORE= 0
SITE RANK (1+2+3) = 0 + 0 + 0 = 10 POINTS			
TOTAL SITE RANKING SCORE AND ACCEPTABLE REMEDIAL GOAL CONCENTRATIONS			
PARAMETER	20+	10	0
BENZENE	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	100 PPM	1000 PPM	1000 PPM

5.0 Proposed Remediation

- Blow-down area north of separator, Well Cellar and Tank Battery areas:

The contaminated soils associated with these affected areas will be excavated vertically and horizontally to an extent sufficient to obtain enough clean soil to achieve a final blend with hydrocarbon concentrations significantly below the acceptable remedial goal concentrations for this site, and total chloride concentrations below the New Mexico Water Quality Control Commission standard of 250-ppm. Sidewall and bottom soil samples will

be obtained and submitted to Cardinal Laboratories, Hobbs, NM for certified analyses. Samples will be transported under proper Chain of Custody by Hungry Horse personnel.

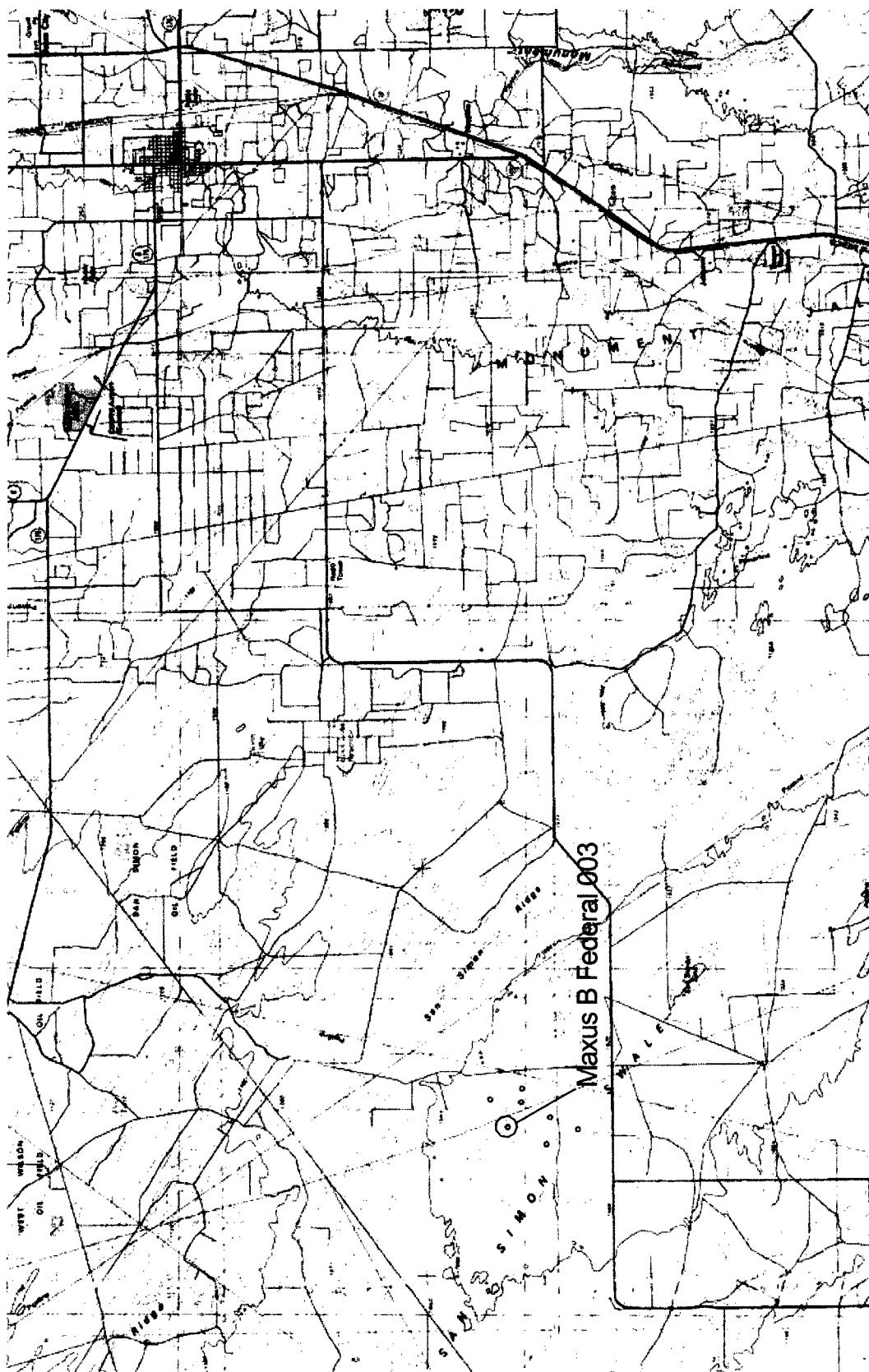
Once the remedial goal concentrations have been achieved, the blended soil will be placed back into the excavated volumes. The excavated and backfilled areas will be covered with topsoil and reseeded.

- Work Over Pit:

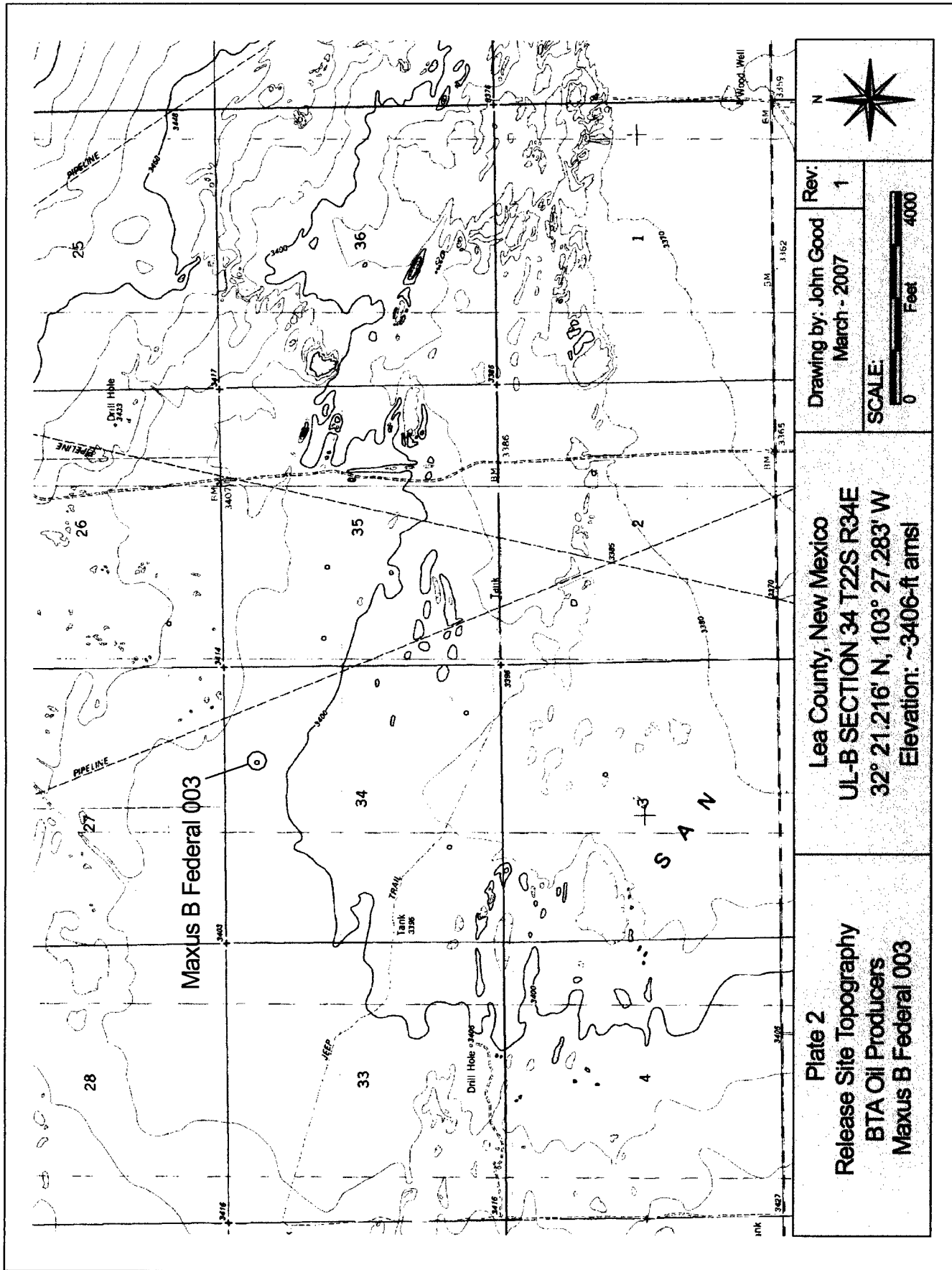
All free fluids will be removed by vacuum truck from this newly constructed work over containment pit. After fluid removal, the excess liner material will be folded over the top of the pit. The pit will then be buried (4-ft minimum from surface) with clean topsoil and then reseeded with the rest of the site.

ATTACHMENTS

Plate 1: Site Location Map	7
Plate 2: Site Topography Map	8
Plate 3: Site Aerial Photograph	9
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<p>Plate 1</p>	<p>Release Site Location BTA Oil Producers Maxus B Federal 003</p>	<p>Lea County, New Mexico UL-B SECTION 34 T22S R34E 32° 21.216' N, 103° 27.283' W Elevation: ~3406-ft amsl</p>	<p>Drawing by: John Good March - 2007</p> <p>Rev: 1</p> <p>SCALE: 0 5 Miles</p>
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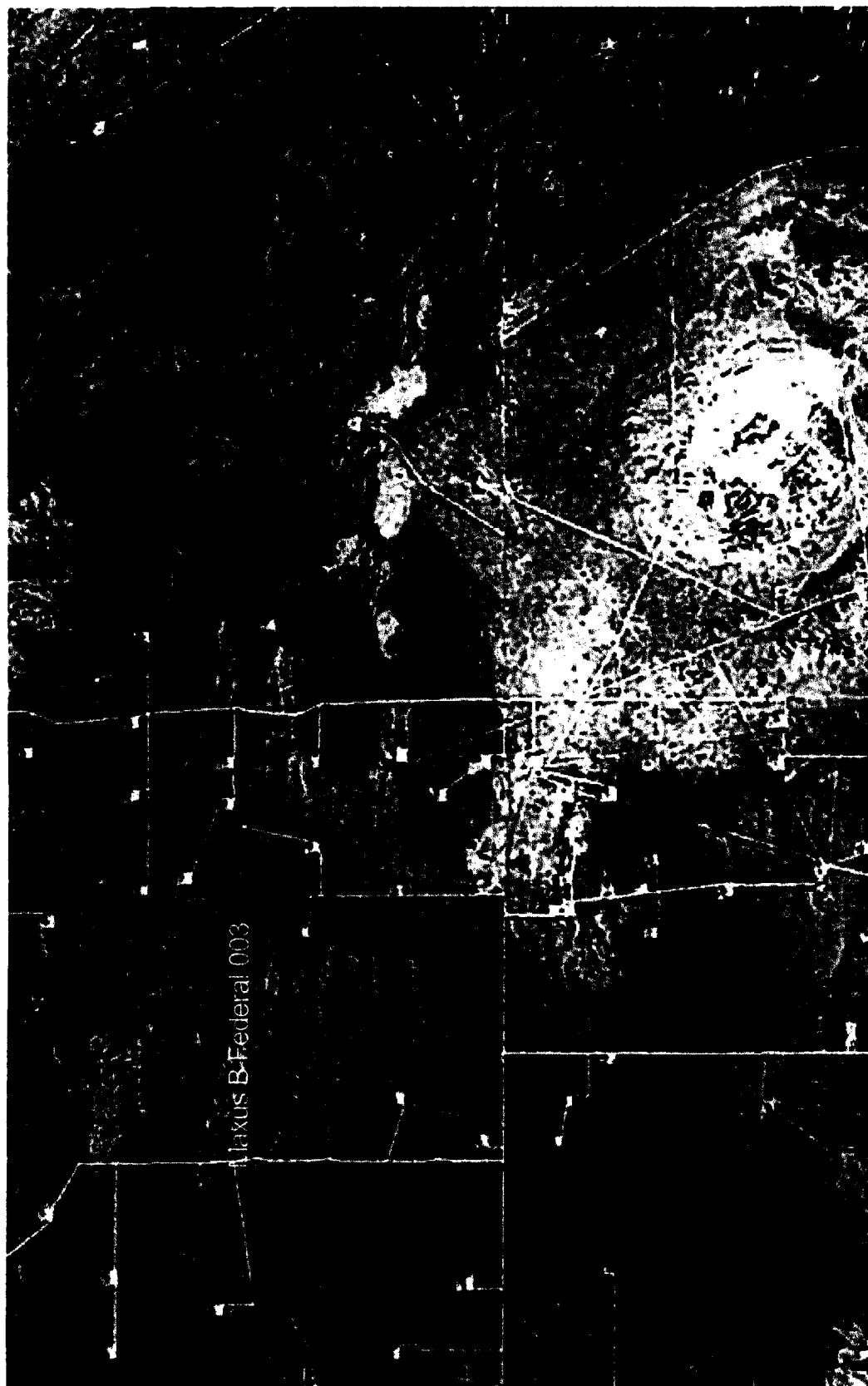
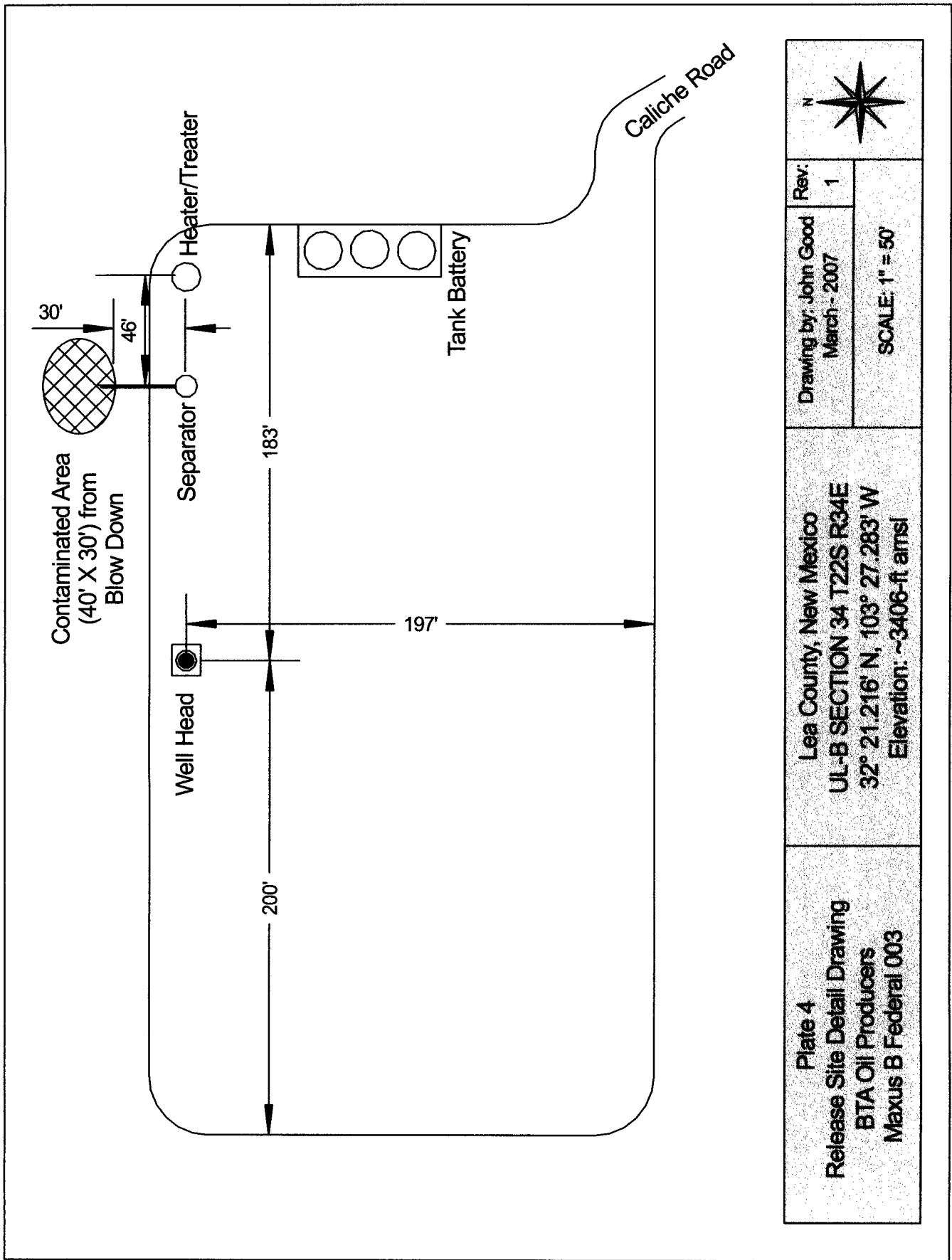

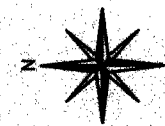
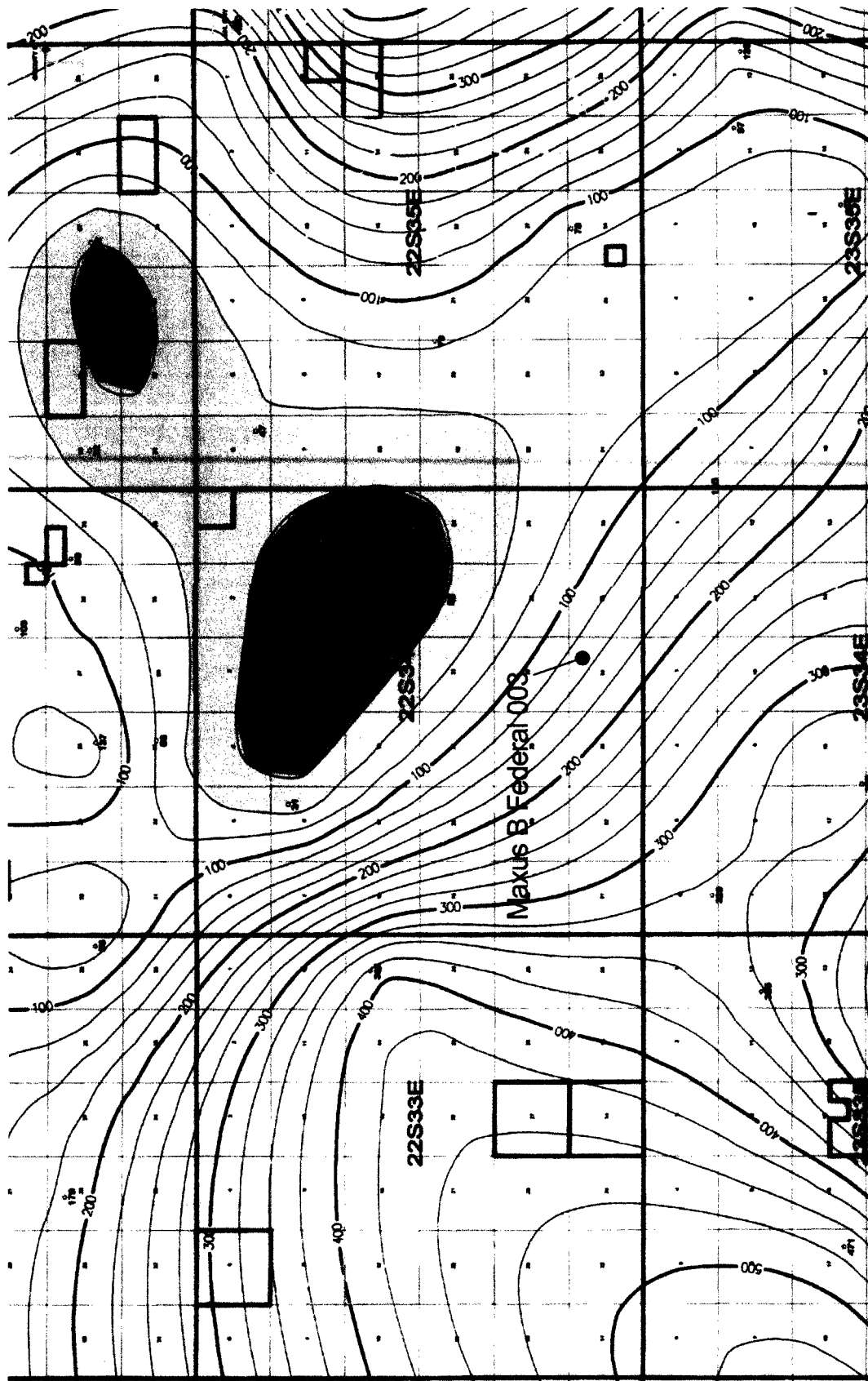


Plate 3 Release Site Aerial Photograph BTA Oil Producers Maxus B Federal 003	Lea County, New Mexico UL-B SECTION 34 T22S R34E 32° 21' 21" N, 103° 27' 28" W Elevation: ~3406-ft amsl		Drawing by: John Good March - 2007	Rev: 1	SCALE: 0 Feet 800	



<p>Plate 4</p> <p>Release Site Detail Drawing</p> <p>BTA Oil Producers</p> <p>Maxus B Federal 003</p>	<p>Lea County, New Mexico</p> <p>UL-B SECTION 34 T22S R34E</p> <p>32° 21.216' N, 103° 27.283' W</p> <p>Elevation: ~3406-ft amsl</p>	<p>Drawing by: John Good</p> <p>March - 2007</p>	<p>Rev:</p> <p>1</p>	<p>N</p> 
		<p>SCALE: 1" = 50'</p>		



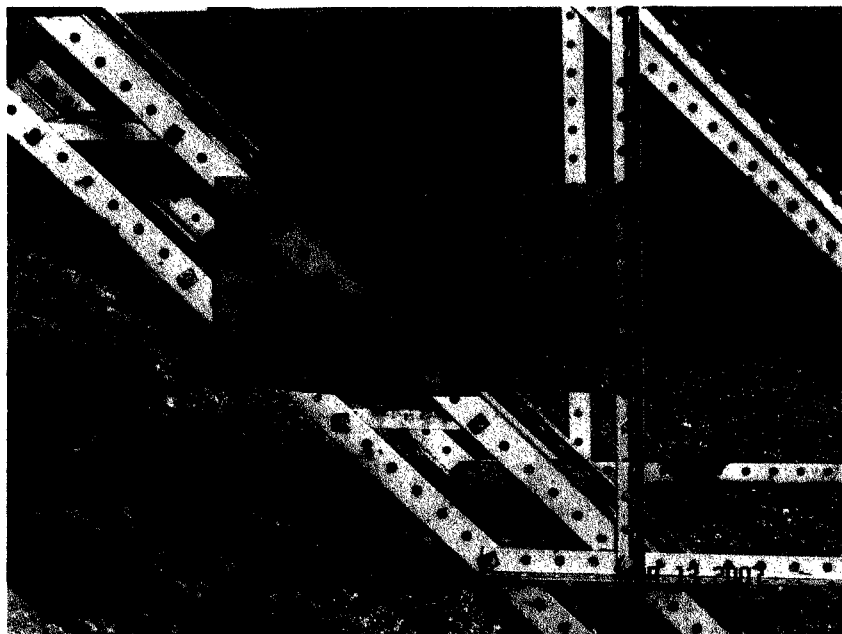
Drawing by: John Good
April - 2007

Rev: 1

SCALE:
0 Feet 2000

Lea County, New Mexico
UL-B SECTION 34 T22S R34E
32° 21.216' N, 103° 27.283' W
Elevation: ~3406-ft amsl

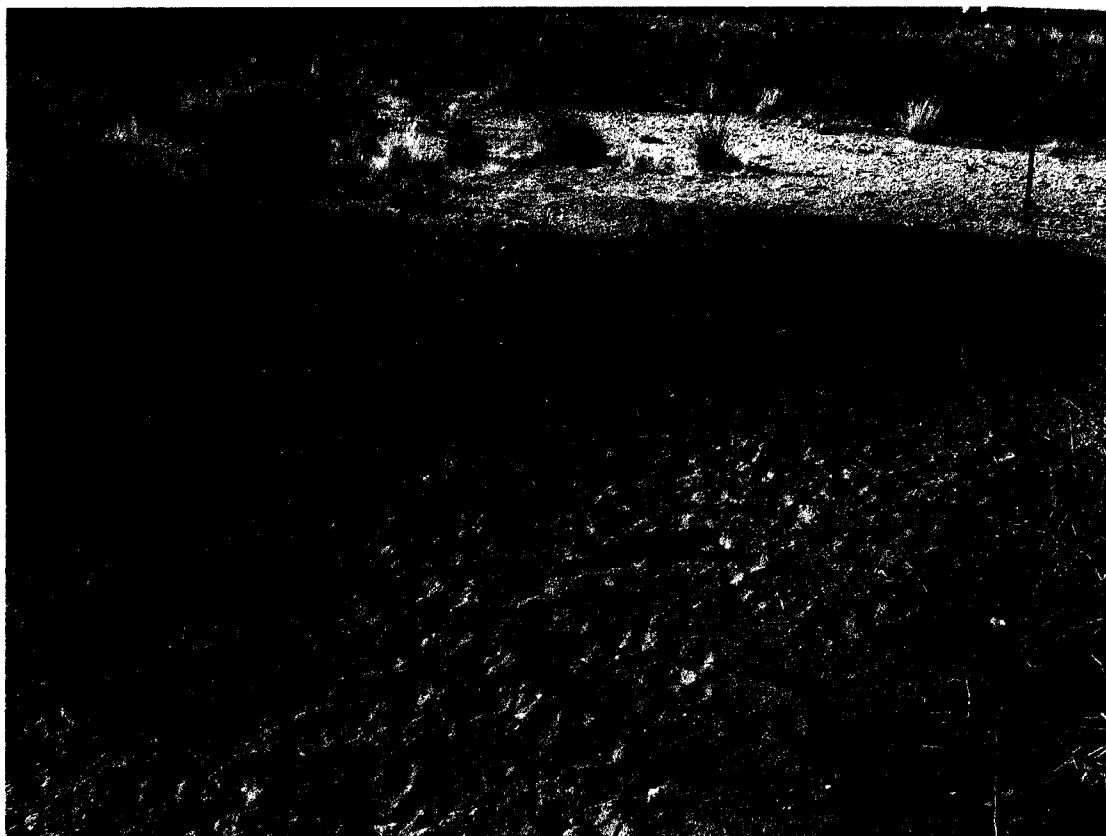
Plate 5
Water Table Contour Map
BTA Oil Producers
Maxus B Federal 003



HUNGRY HORSE, LLC

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BTA Maxus B Fed 003



		Incident Date:		NMOCD Notified:	
SITE: Maxus B Federal 003		Assigned Site Reference:		BTA-MAXUS-B-003	
Company: BTA Oil Producers		API No.:		30-025- 30661	
Street Address: 104 South Pecos		Lease No.:		NM19143	
Mailing Address: 104 South Pecos					
City, State, Zip: Midland, TX 79701-9988					
Representative: Royce Boyce		Position: Operations Manager			
Representative Telephone: 432-682-3753					
Telephone:					
Fluid Volume Released (bbl): > 5		Volume Recovered (bbl): 0		Net Release: > 5	
>25 bbl: Notify NMOCD verbally within 24 hours and submit C-141 within 15 days. 5-25 bbl: Submit Form C-141 within 15 days. (Also applies to unauthorized release of >50 mcf Natural Gas).					
Leak, Spill, or Pit (LSP) Name:		Maxus B Federal 003			
Source of Contamination:		Separator Blow Down Line			
Land Owner, i.e. BLM, ST, Fee, Other:		State of NM			
LSP Dimensions:		~ 30' X 40'			
LSP Area		~ 1200 -ft ²			
Location of Reference Point (RP):					
Location distance and direction from RP:					
Latitude: North		32deg 21.216'			
Longitude: West		103deg 27.283'			
Elevation above mean sea level (amsl):		3406 feet 1038 meters			
Distance from North Section Line (feet):		660			
Distance from East Section Line (feet):		1650			
Location - Unit Letter and 1/4 1/4:		UL- B NW - 1/4 of NE - 1/4			
Location - Section		34			
Location - Township		22S			
Location - Range		34E			
Surface water body within 1000' radius of site:		0			
Surface water body within 1000' radius of site:		0			
Domestic water wells within 1000' radius of site:		0			
Domestic water wells within 1000' radius of site:		0			
Agricultural water wells within 1000' radius of site:		0			
Agricultural water wells within 1000' radius of site:		0			
Public water supply wells within 1000' radius of site:		0			
Public water supply wells within 1000' radius of site:		0			
Depth (feet) from land surface to Ground Water (DG): ~		135			
Depth (feet) of lowest contamination (DC):		10			
Depth (feet) to Ground Water (DG - DC = DtGW): ~		125			
1. Ground Water		2. Wellhead Protection Area		3. Distance to Surface Water	
If Depth to GW <50-feet: 20 points		If <1000' from water source, or, <200' from private domestic water source: 20 points If >1000' from water source, or, >200' from private domestic water source: 0 points		<200 horizontal feet: 20 points	
If Depth to GW 50 to 100-feet: 10 points				200-1000 horizontal feet: 10 points	
If Depth to GW >100-feet: 0 points				>1000 horizontal feet: 0 points	
Ground Water Score: 0		Wellhead Protection Score: 0		Surface Water Score: 0	
Site Ranking (1 + 2 + 3): 0					
Total Site Ranking Score and Acceptable Concentrations					
Parameter	20 or >	10	0		
Benzene ¹	10-ppm	10-ppm	10-ppm		
BTEX ¹	50-ppm	50-ppm	50-ppm		
TPH	100-ppm	1000-ppm	5000-ppm		

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

Form C-141

Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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	BTA Oil Producers	Contact	Royce Boyce	Operations Manager
Address	104 South Pecos	Telephone No.	432-682-3753	
	Midland, TX 79701-9988			
Facility Name	Maxus B Federal 003	Facility Type	Oil Well (P&A)	

Surface Owner	State of NM	Mineral Owner	BLM	API No.:	30-025- 30661
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from North Line	Feet from East Line	Longitude-W	Latitude-N	County
B	34	22S	34E	660	1650	103deg 27.283'	32deg 21.216'	Lea

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil	> 5 bbl	0 bbl
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Separator Blow Down Line	Over Time	NA
Was Immediate Notice Given?	If YES, To Whom?	
<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Not Required		
By Whom?	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	NA	

If a Watercourse was Impacted, Describe Fully*

RP-1298
1285

Describe Cause of Problem and Remedial Action Taken. *

Oil from separator blow down has been sprayed directly onto ground north of separator. Well no longer in operation.

Describe Area Affected and Cleanup Action Taken. *

The area affected is approximately 1,200-ft² immediately north of the separator unit. Contaminant depth unknown at this time.
 Hungry Horse, LLC, Hobbs, NM contracted to perform site delineation and remediation.

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:	OIL CONSERVATION DIVISION	
Printed Name:	John Good	
Title:	Env. Manager, Hungry Horse LLC	
E-Mail Address:	jcgood4614@aol.com	
Date:	4/24/2007	Phone: 505-631-3277
Approved by District Supervisor:		Approval Date: 6.15.07 Expiration Date: 8.15.07
Conditions of Approval:		<input type="checkbox"/> Attached
APPROVAL FOR DELINEATION ONLY. THIS IS A 'KNOWING		

HUNGRY HORSE, LLC

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BTA Maxus B Fed 003

& WILLFUL VIOLATION OF NMAR.