

District I
1625 N. Francis 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: Targa Midstream Services L.P.	Contact: Ralph England	
Address: P.O. Box 1689, Lovington, NM 88260	Telephone No.: 575-396-3221	
Facility Name: FIELD #1 LEAK	Facility Type: Gas Processing	
Surface Owner: Branch Ranch LLC	Mineral Owner:	Lease No.:

LOCATION OF RELEASE

Unit Letter V	Section 3	Township 16S	Range 35E	Feet from the 1117'	North/South Line SOUTH	Feet from the 1759'	East/West Line WEST	County LEA
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Latitude: 32.946917

Longitude: -103.448462

NATURE OF RELEASE

DTW: +/- 54'bgs

Type of Release: Gas Release	Volume of Release: Unknown	Volume Recovered: 0
Source of Release: 20" steel pipeline	Date and Hour of Occurrence: 9/6/2011	Date and Hour of Discovery: 9/6/2011
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom? Notification given to Geoffery L. on 3-2-12 by Roy R. Rascon ETNM/WEE Inc. over phone	Date and Hour: 3-2-12 2:41pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Leak was detected but not reported as initial assessment of leak was below reporting limits. Leak was clamped off and line later replaced with 20" polyline. Targa started initial investigation of leak, excavated at source to a depth of 13'bgs, pulled sample. Sample sent to Cardinal Labs in Hobbs, NM results above NMOCD cleanup standards.

Describe Area Affected and Cleanup Action Taken.*

Affected area: Initial assessment 5'x 5', Targa initiated cleanup efforts, affected area increased below pipeline. ETNM/WEE Inc. contracted to perform vertical and horizontal delineation of site and will set up protocol for cleanup of affected area.

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>Ralph England</i>	OIL CONSERVATION DIVISION	
Printed Name: Ralph England	ENV SPECIALIST Approved by District Supervisor: <i>Geoffery L. Rascon</i>	
Title: Field Supervisor	Approval Date: 03/07/12	Expiration Date: 05/07/12
E-mail Address: REngland@targaresources.com	Conditions of Approval: SUBMIT FINAL C-141 BY 05/07/12	Attached ☐ IRP-3-12-2786
Date: 3-5-12	Phone: (575) 396-3221	

* Attach Additional Sheets If Necessary

1RP-2786

TARGA

FIELD #1 LEAK

ULV Sec. 3 - T16S - R35E

1117FSL & 1759FWL

DRIVING DIRECTIONS: In Lovington @ Intersection of Ave D & Main St. turn L. onto Ave D go 5.54mi, turn R. cross gates, turn R. staying on main lease rd. go 0.47mi. turn L. onto Targa R-O-W go 0.49mi to excavation. KEEP ALL GATES CLOSED AT ALL TIMES, STAY ON R-O-W. Spot 300' N,S,E & W from excavation.

0.49MI.
EXCAVATION ON
R-O-W

0.47MI. TARGA
R-O-W

TARGA FIELD 1 LEAK

5.54MI, TURN R.

W D Ave

82 W Ave D

Lovington

E Ave D

MAIN & AVE D

© 2012 Google
Image © 2012 DigitalGlobe
Image © 2012 GeoEye

Imagery Date 6/5/2010

1996

lat - 32.950449° lon - 103.397933° elev 3964 ft

Eye alt 34501 ft

Google earth

SITE ASSESSMENT CRITERIA (NMOCD)

TARGA

FIELD #1 LEAK

UL/V SEC 3 - T16S - R35E

GPS LAT & LON WGS84 N32.946917 / W103.448462

DTW: +/- 54'BGS according to Cheron Texaco water data map for LEA Co.

DEPTH TO GROUND WATER

(Vertical distance from contaminants to seasonal high water elevation of ground water.)

Less than 50' BGS	(20 points)	0
50' to 99' BGS	(10 points)	10
Greater than 100' BGS	(0 points)	0

WELLHEAD PROTECTION AREA

(Less than 200' from a private domestic water source, or; less than 1000' from all other water sources)

YES	(20 points)	0
NO	(0 points)	0

DISTANCE TO SURFACE WATER BODY

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals, and ditches)

Less than 200'	(20 points)	0
200' to 1000'	(10 points)	0
Greater than 1000'	(0 points)	0

RANKING SCORE TOTAL POINTS **10**

CLEAN - UP TARGET CONCENTRATIONS FOR "SITE CLOSURE"

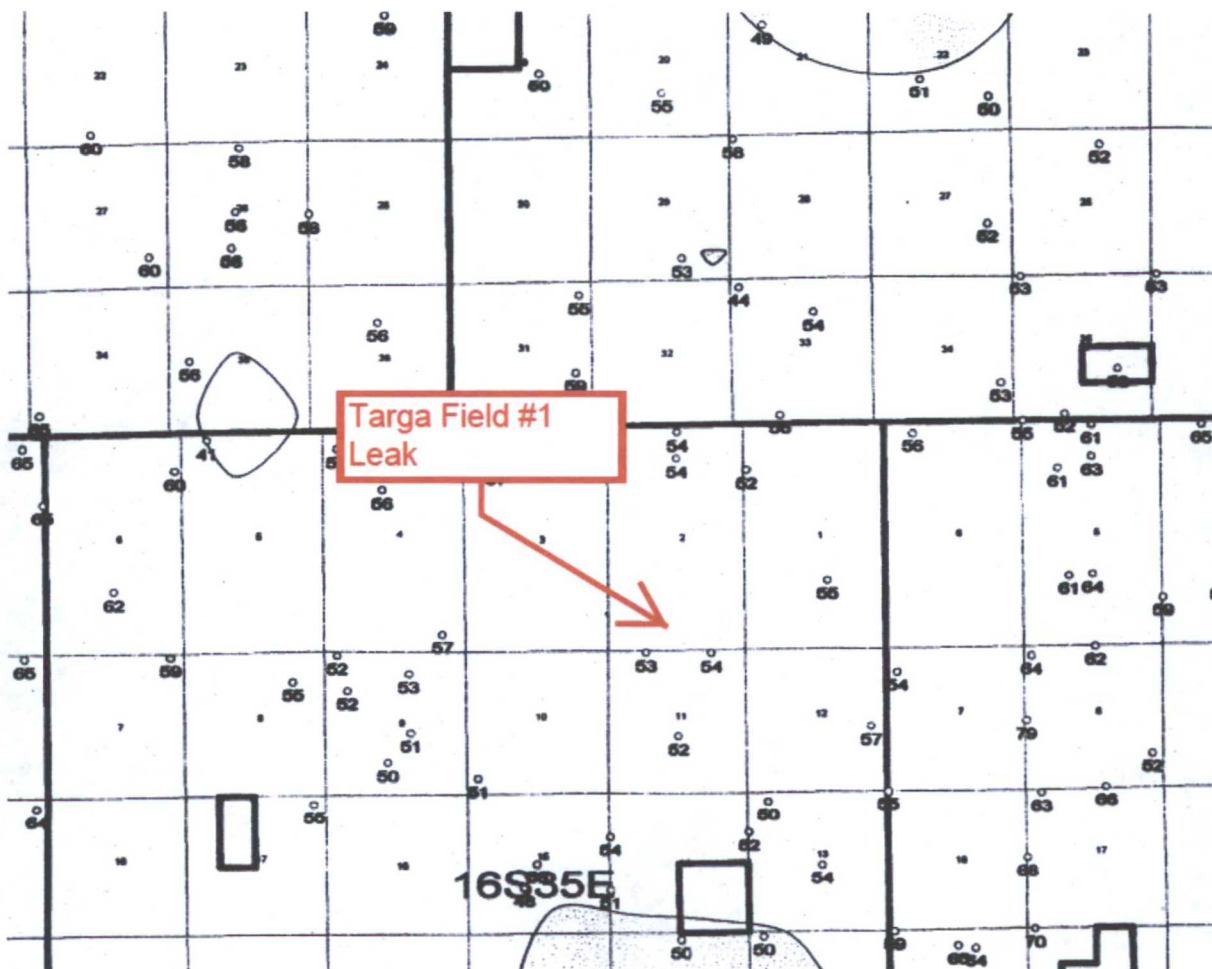
IF RANKING SCORE IS:	> 19	10 - 19	0 - 9
BENZENE (ppm)*	10	10	10
BTEX (ppm)*	50	50	50
TPH (ppm)**	100	1000	5000

*A field vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis.

** The contaminant concentration for TPH is the concentration above background levels.

Center of present excavation is at 13'bgs, subtract that from +/- 54'DTW = 41'DTW will require >19
Ranking Score clean up standards

TARGA
FIELD #1 LEAK
UL/V Sec. 3 – T16S – R35E
GPS Lat. & Lon WGS84
N32.946917 / W103.448462
Depth to GW +/- 54'bgs
According to Chevron Texaco Lea County Water Data Map 2005



EARTH TECHNOLOGIES OF NEW MEXICO

CL- FIELD TITRATION & PID RESULTS

LOCATION: 1RP-2786 TARGA FIELD 1 20" LEAK

2/24/2012

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	LAB RESULTS					
										B	T	E	X	CL-	GRO C6-C11
Source	850	8'	0	0	0	0	0	0						1170	1190
															DRO >C10-C29
															6000

4/9/2012

SOURCE (N32.94690 W103.44845)	830	15'	10.6	25.7	2.42	0.05	242	1549.0	7.5YR-6/4 light brown sandy sand damp strong odor						
	838	20'	0	0	0.00	0	0	1268.0	7.5YR-6/4 light brown sandy sand damp strong odor						
	848	25'	10.3	25.6	2.49	0.01	50	1290.0	7.5YR-6/4 light brown sandy sand damp strong odor						
	900	30'	0	0	0.00	0	0	724.0	5YR-7/2 pinkish gray sandy sand dry strong odor	<0.050	<0.050	<0.050	<0.150	<16.0	13.2
	908	35'	10.2	27.9	2.74	0.02	109	349.0	5YR-8/3 pink sandy sand damp light odor						
B1 (N32.94695 W103.44846)	918	40'	0	0	0.00	0	0	129.0	5YR-8/3 pink sandy sand dry no odor						
	928	45'	10.3	28.7	2.79	0.01	56	82.6	5YR-8/3 pink sandy sand dry no odor	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0
	1007	10'	10	29.7	2.97	0.01	59	35.3	7.5YR-8/2 pinkish white rocky sandy sand damp no odor						
	1020	15'	10.2	32	3.14	0.02	125	36.0	7.5YR-8/2 pinkish white rocky sandy sand damp no odor						
	10'	1050	10.3	30.6	2.97	0.02	119	22.9	2.5YR-4/4 reddish brown sandy sand damp no odor						
B2 (N32.91693 W103.44846)	15'	1103	10	25.1	2.51	0.02	100	90.6	5YR-8/2 pinkish white sandy sand damp no odor	<0.050	<0.050	<0.050	<0.150	<10.0	<10.0
	5'	1131	10.3	27.9	2.71	0.02	108	28.1	5YR-8/3 pink rocky sandy sand dry no odor						
	10'	1143	0	0	0.00	0	0	26.5	5YR-8/3 pink rocky sandy sand dry no odor						
	10'	1200	10.3	24.5	2.38	0.04	190	24.0	5YR-6/2 reddish gray sandy sand dry no odor						
	15'	1211	0	0	0.00	0	0	25.8	5YR-8/3 pink sandy sand dry no odor					<10.0	<10.0

Sample pt.	TIME	DEPTH	SOIL	WATER	CF	AGNO3	CL-	PID	SOIL LITHOLOGY	LAB RESULTS						
										B	T	E	X	CL-	GRO C6-C11	DRO >C10-C29
B5 (N32.94693 W103.44848)	10'	1237	10.1	27.3	2.70	0.03	162	27.6	5YR-8/2 pinkish white sandy sand damp no odor							
	15'	1244	0	0	0.00	0	0	84.1	5YR-8/3 pink sandy sand damp light odor							
	20'	1254	0	0	0.00	0	0	136.0	5YR-8/3 pink sandy sand damp light odor	<0.050	<0.050	<0.050	<0.150		<10.0	<10.0
	25'	105	0	0	0.00	0	0	71.0	5YR-8/3 pink sandy sand dry no odor							
	30'	114	0	0	0.00	0	0	25.3	5YR-8/3 pink sandy sand dry no odor	<0.050	<0.050	<0.050	<0.150		<10.0	<10.0
B6 (N32.94692 W103.44856)	5'	149	10.8	27.5	2.55	0.02	102	15.6	5YR-8/1 white lightly rocky sandy sand dry no odor							
	10'	158	0	0	0.00	0	0	19.6	5YR-8/1 white lightly rocky sandy sand dry no odor							
B7 (N32.94688 W103.44846)	5'	219	10.3	27.7	2.69	0.02	108	13.7	5YR-8/2 pinkish white sandy sand dry no odor							
	10'	227	0	0	0.00	0	0	11.6	5YR-8/2 pinkish white sandy sand dry no odor						<10.0	<10.0



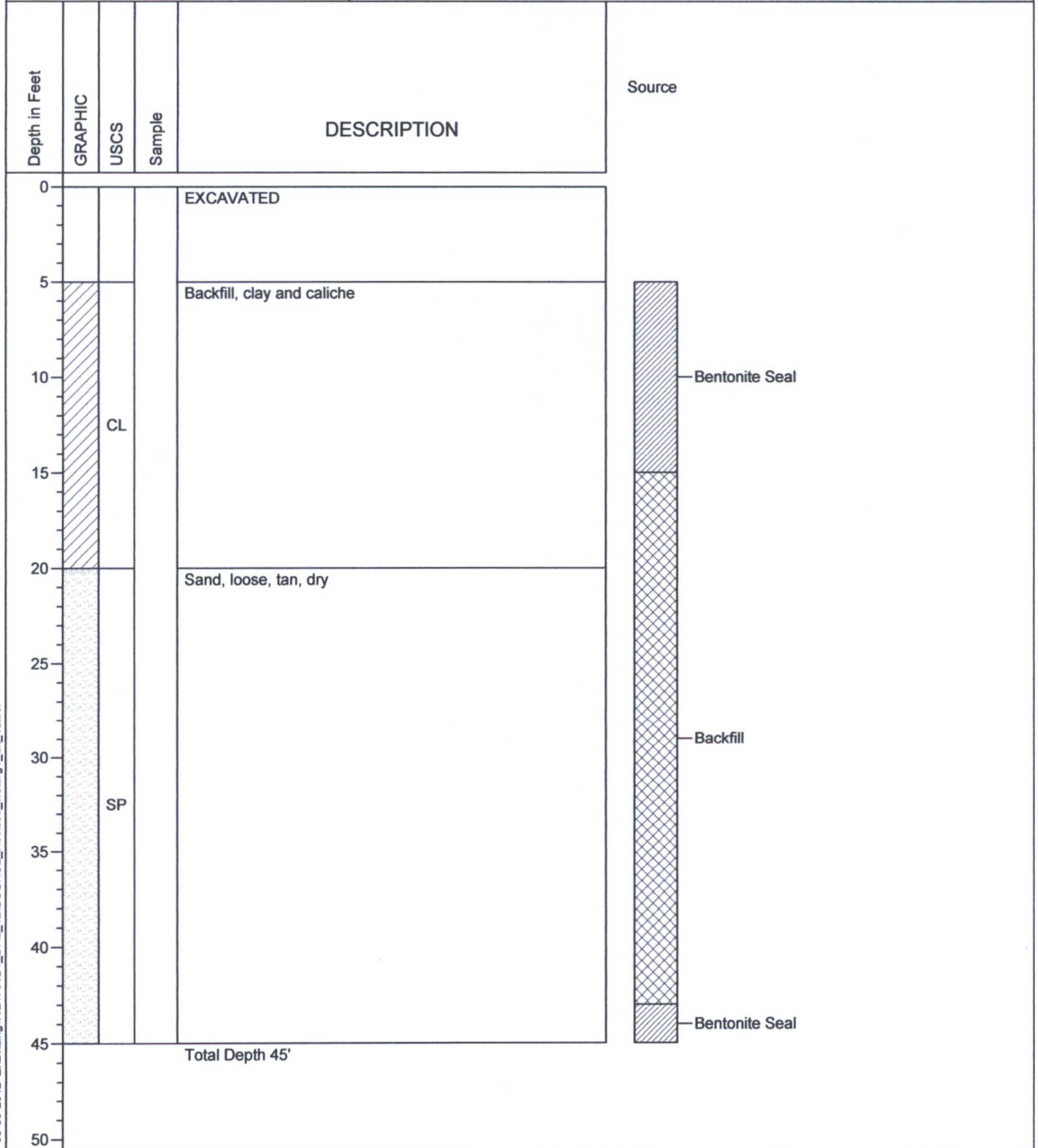
Log of Boring: Targa Field 1 20" Leak SOURCE - Revised

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°94690, 103°44845
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates





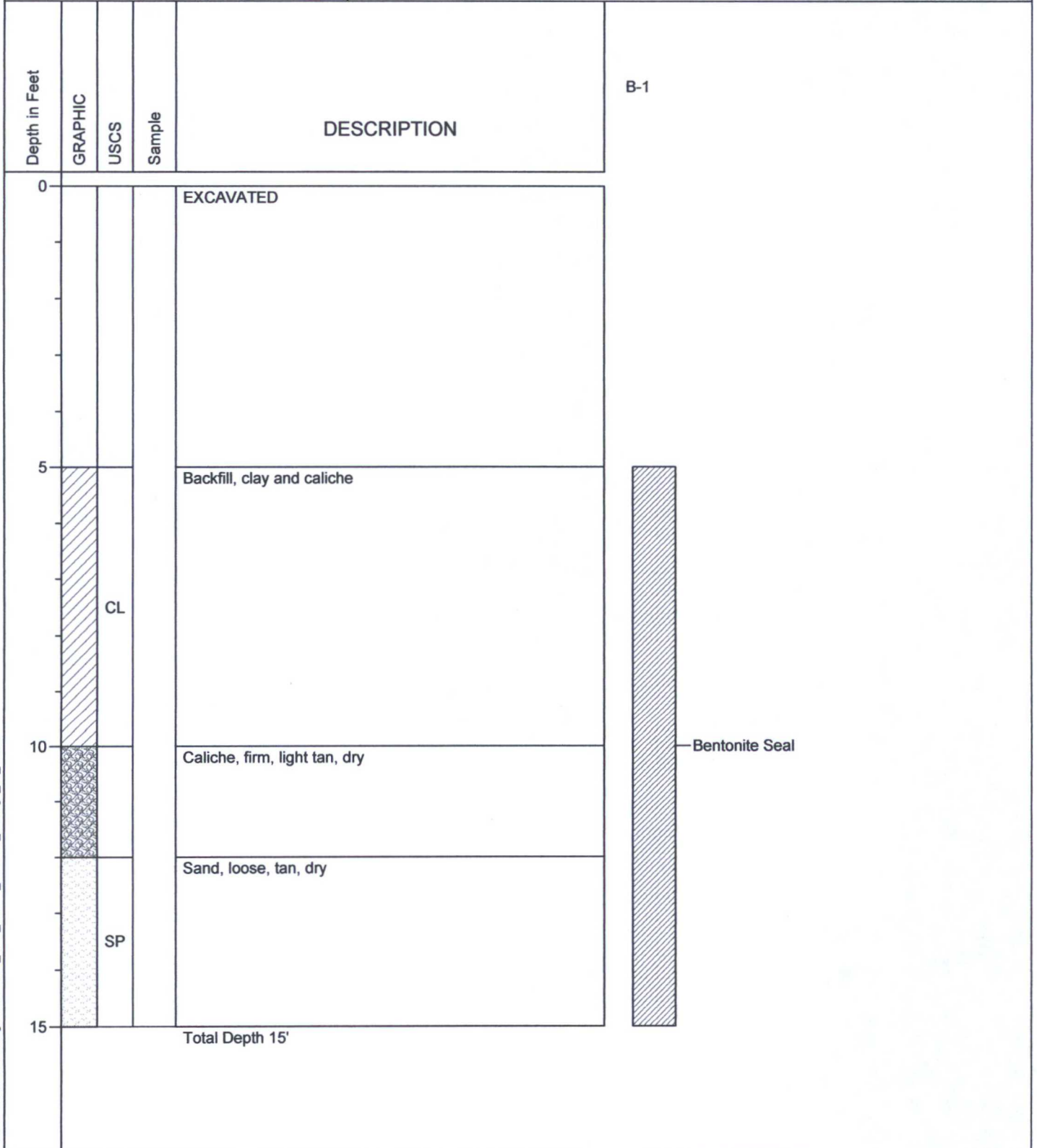
Log of Boring: Targa Field 1 20" Leak B-1 - Revised

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°946915, 103°44846
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates





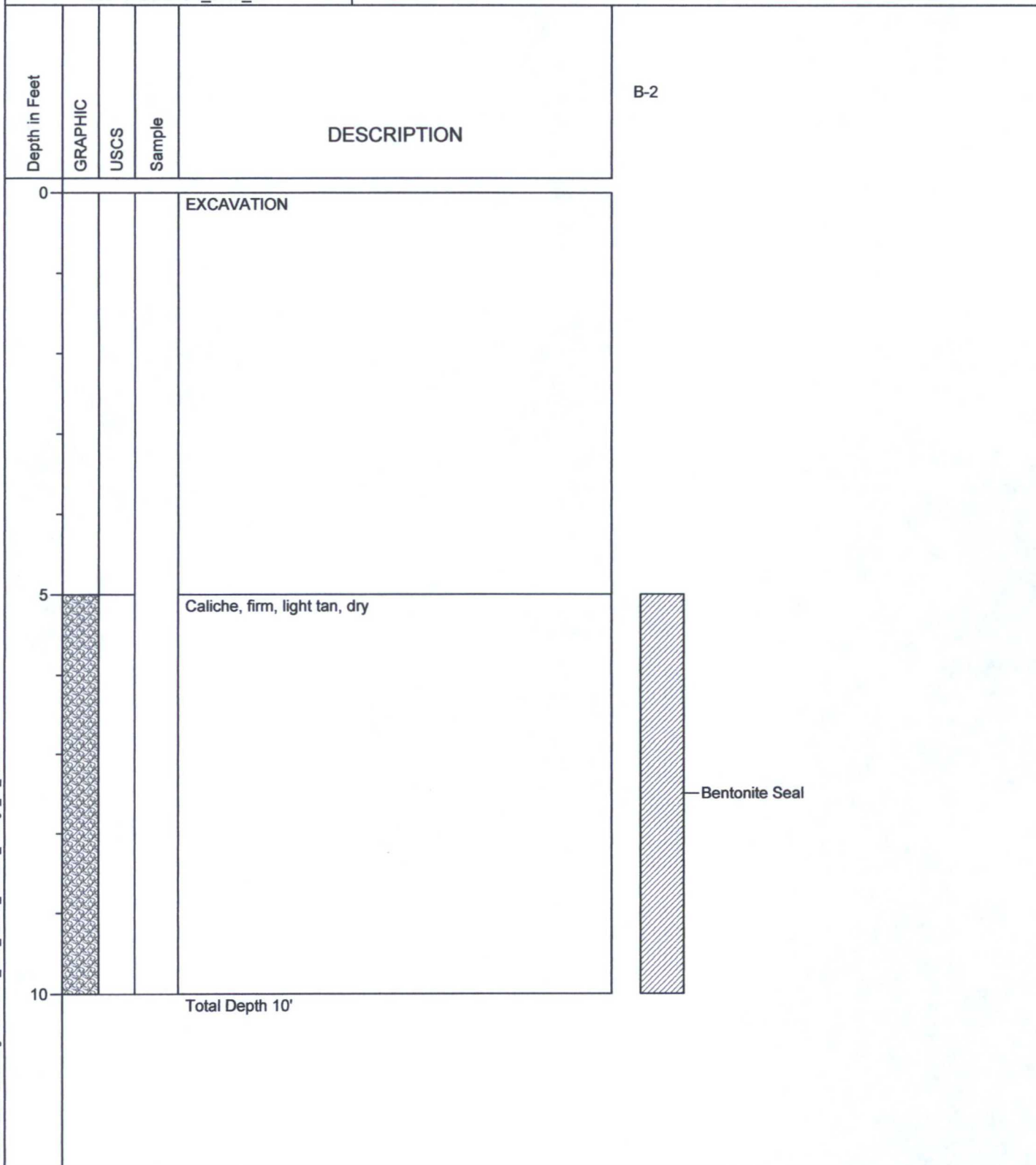
Log of Boring: Targa Field 1 20" Leak B-2 - Revised

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°94693, 103°44846
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates



Log of Boring: Targa Field 1 20" Leak B-3 - Revision

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°94693, 103°44839
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates

Depth in Feet	GRAPHIC	USCS	Sample	DESCRIPTION
0				EXCAVATION
		CL		Backfill, clay and caliche
5				Caliche, firm, light tan, dry
10				
15				
				Total Depth 12'

Bentonite Seal



Log of Boring: Targa Field 1 20" Leak B-4 - Revision

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°94693, 103°44842
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates

Depth in Feet	GRAPHIC	USCS	Sample	DESCRIPTION
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B-4

0				EXCAVATION
5				Sand, loose, tan, dry
10		SP		
15				

Total Depth 15'



Bentonite Seal



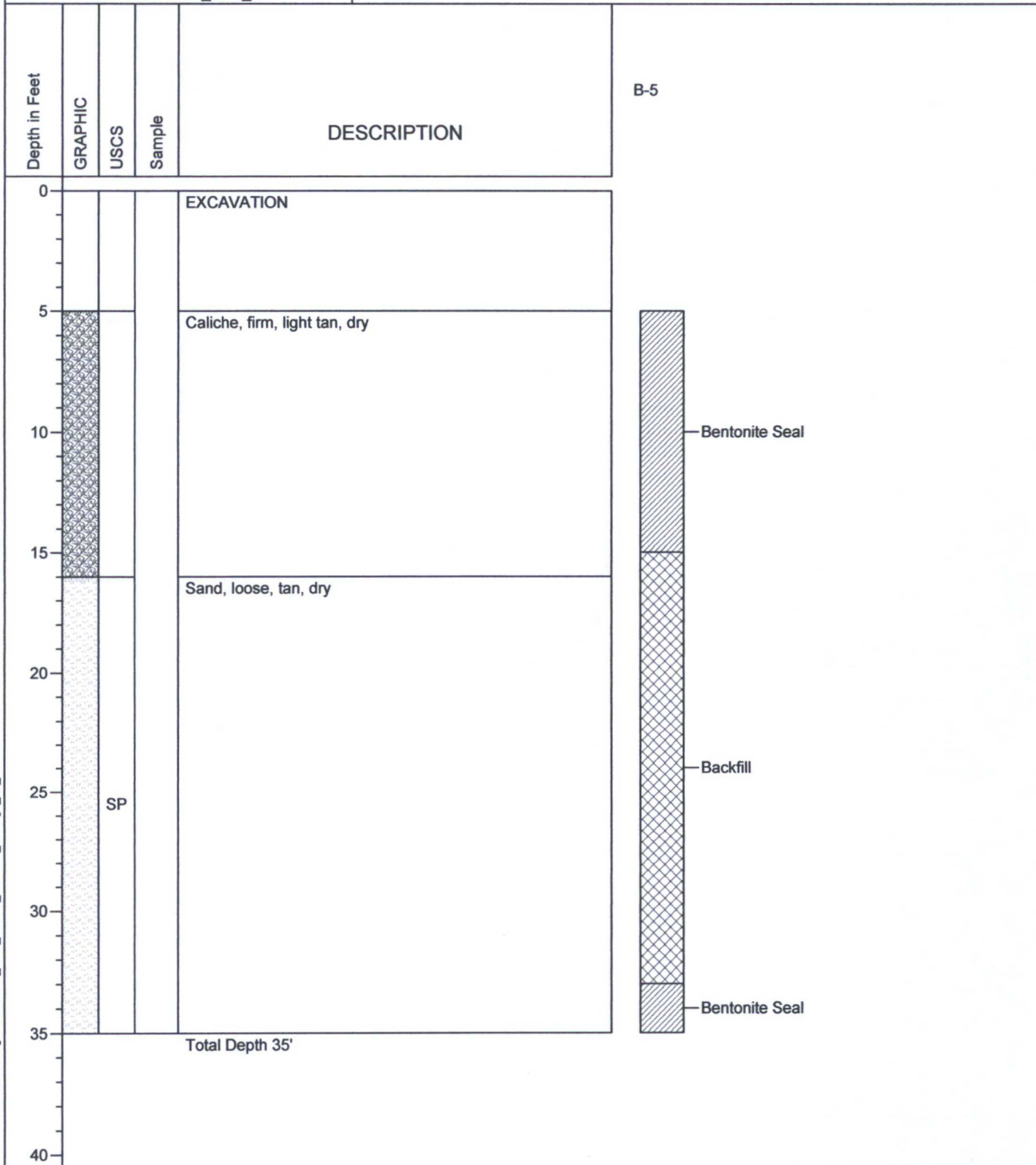
Log of Boring: Targa Field 1 20" Leak B-5 - Revised

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°94696, 103°44848
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates





Log of Boring: Targa Field 1 20" Leak B-6 - Revised

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°94691, 103°44855
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates

Depth in Feet	GRAPHIC	USCS	Sample	DESCRIPTION	B-6
0				Caliche, firm, light tan, dry	
5					
10					
				Total Depth 10'	
					Bentonite Seal



Log of Boring: Targa Field 1 20" Leak B-7 - Revised

EARTH TECHNOLOGIES of NEW MEXICO
904 W. Humble
Hobbs, NM 88240

Contact: Roy Rascon

Job: WETARG1_DRL_12

Drilling Date : 04/09/2012
Site Location : Lovington, NM (Targa Field 1)
Boring Location : 32°94688, 103°44848
Auger Type : 3¼ Hollow Stem
Logged By : Mort Bates

Depth in Feet	GRAPHIC	USCS	Sample	DESCRIPTION	B-6
0				Caliche, firm, light tan, dry	
5					
10					
				Total Depth 10'	

Bentonite Seal

Earth Technologies of New Mexico Inc.

(A Whole Environmental Inc. Company)

ETNM PR- 3

**Remediation and Site Restoration Protocol
Targa Midstream Services LLC
Field #1 Leak
1RP-2786**

1.0 Purpose

This protocol is to provide a detailed outline of the steps to be employed in the remediation of a gas & hydrocarbon release impact area near Lovington, NM in Lea County, New Mexico.

2.0 Scope

This protocol is site specific for the above project.

3.0 Preliminary

Prior to any field operations, Earth Technologies of New Mexico (ETNM / WEE Inc.) shall conduct the following activities:

3.1 Client Review

3.1.1 ETNM / WEE Inc. shall meet with appointed personnel within Targa Midstream Services LLC to review this protocol and make any requested modifications or alterations.

3.1.2 Changes to this protocol will be documented and submitted for final review by Targa Midstream Services LLC prior to the initiation of actual fieldwork.

3.1.3 Upon client approval, this protocol and supporting documentation will be submitted to the Hobbs district office of the NMOCD for approval.

4.0 Safety

4.1 Prior to work on the site, ETNM / WEE Inc. shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate Targa Midstream Services LLC personnel, sub-contractors and exchange phone numbers.

4.2 A tailgate safety meeting shall be held and documented each day. All sub-contractors must attend and sign the daily log-in sheet.

4.3 Anyone allowed on to location will be wearing standard PPE, and Fire Retardant Clothing or Coveralls. Each vehicle must be equipped with two way communication capabilities.

5.0 Remediation Procedure

5.1 The area impacted by the gas and hydrocarbon leak will be excavated to depth of 10' below ground surface within the boundaries of the bore #2, 4, 5 & 7. The approximate dimension of the excavation will be 20'L x 20'W. The bottom of the excavation will be sampled using a 5pt composite, along with a 5pt composite of each wall. Samples will be sent to Cardinal Labs in Hobbs, NM for confirmation in accordance to NMOCD sampling procedure. Photos of the sampling event will be taken. Upon confirmation of Lab results a Geo-Synthetic liner will be placed at the bottom of the excavation.

6.0 Site Restoration Procedure

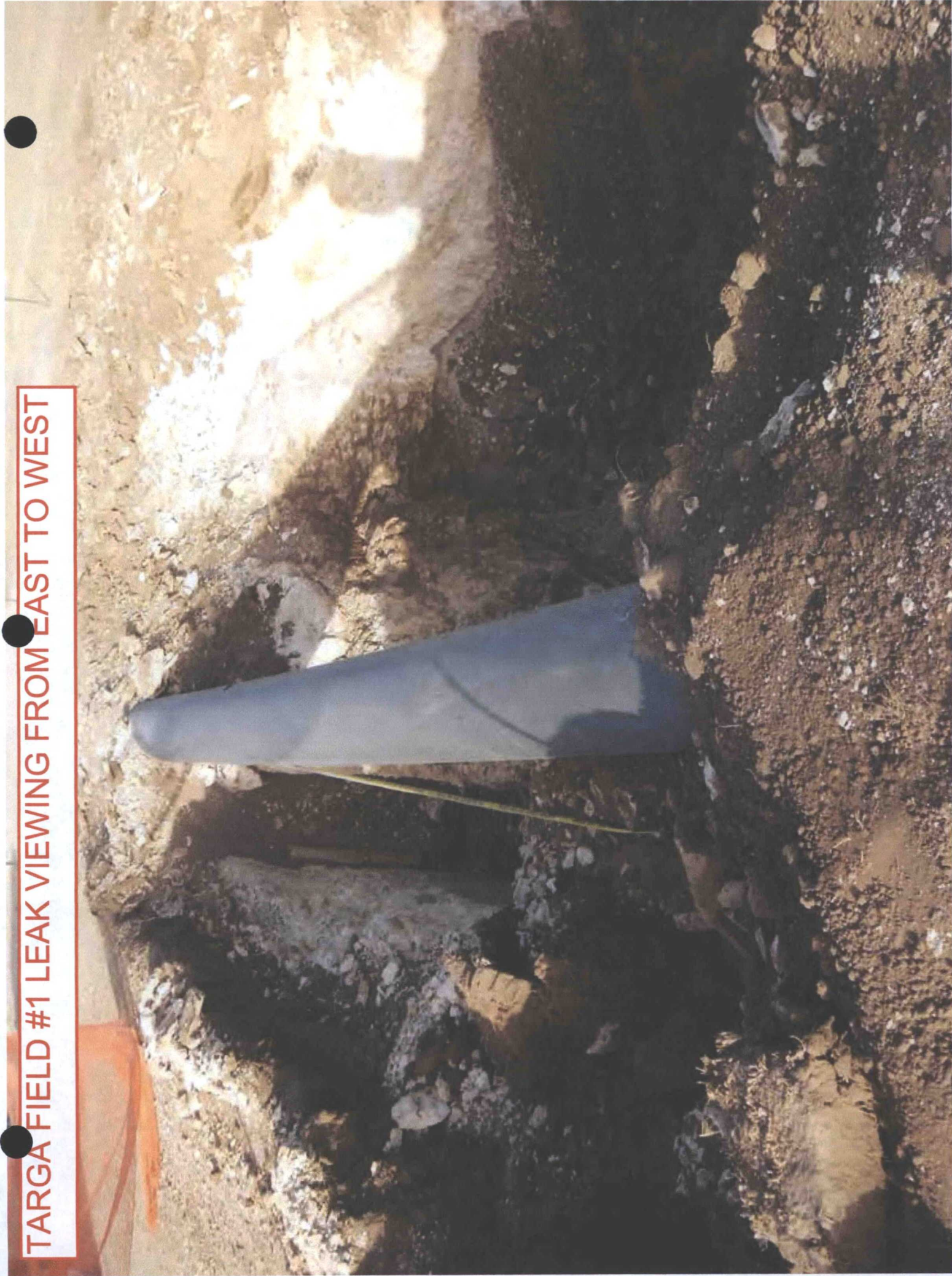
6.1 The site will backfilled and compacted with fresh caliche, topsoil and re-contoured to match the surrounding elevation. The site will be reseeded using an approved seed mixture by the land owner.

7.0 Closure Report

At the conclusion of the project, Whole Earth shall prepare a closure report which contains the following minimum information:

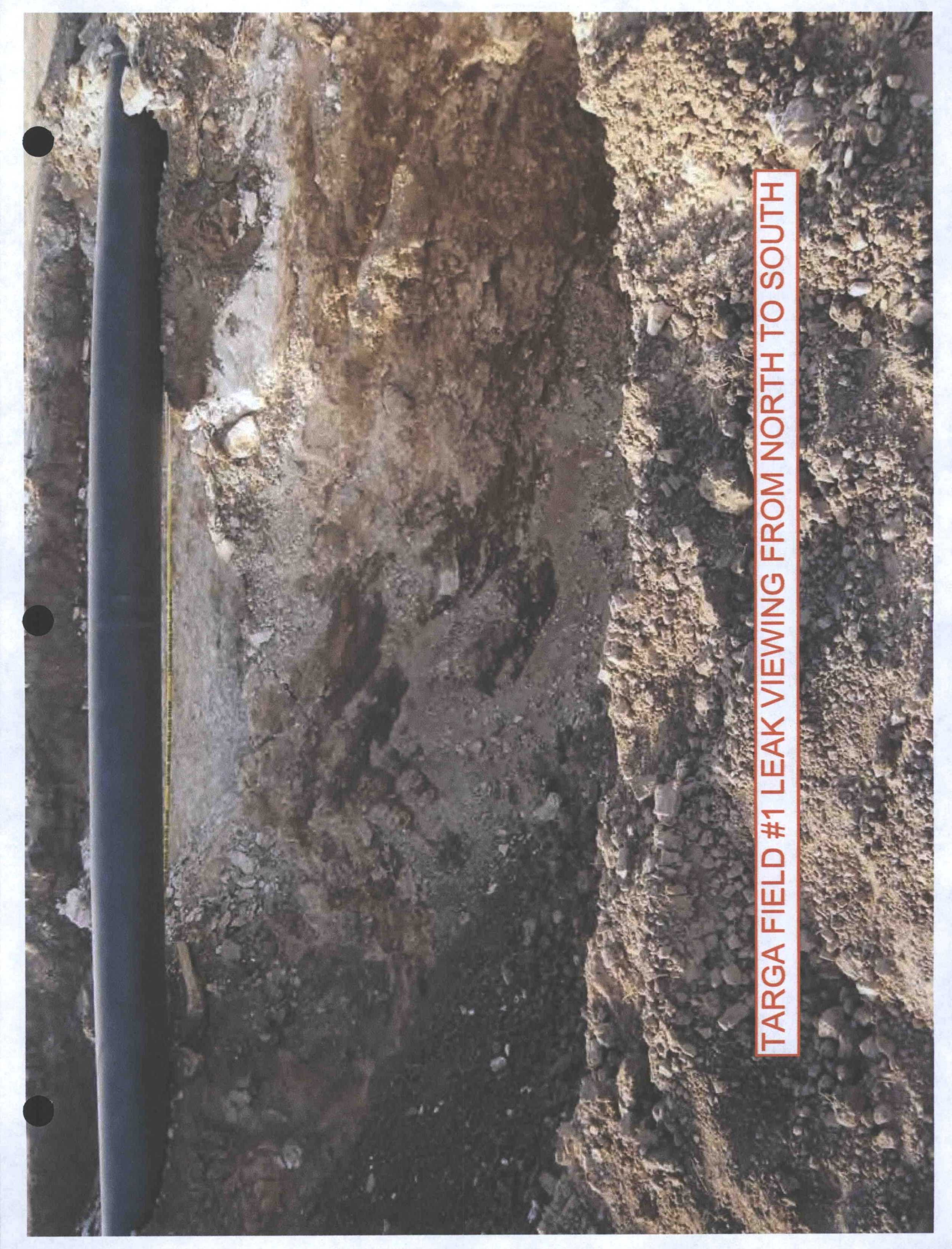
- Photographs of the location prior to remediation
- Photographs of all excavations at the point of maximum soil removal
- Photographs of the location at time of final closure
- Lab results
- Field CL- titration & PID results
- Disposal record of all manifest ticket numbers, volume amount of load, and date of disposal
- Copies of this protocol and all testing procedures

TARGA FIELD #1 LEAK VIEWING FROM EAST TO WEST

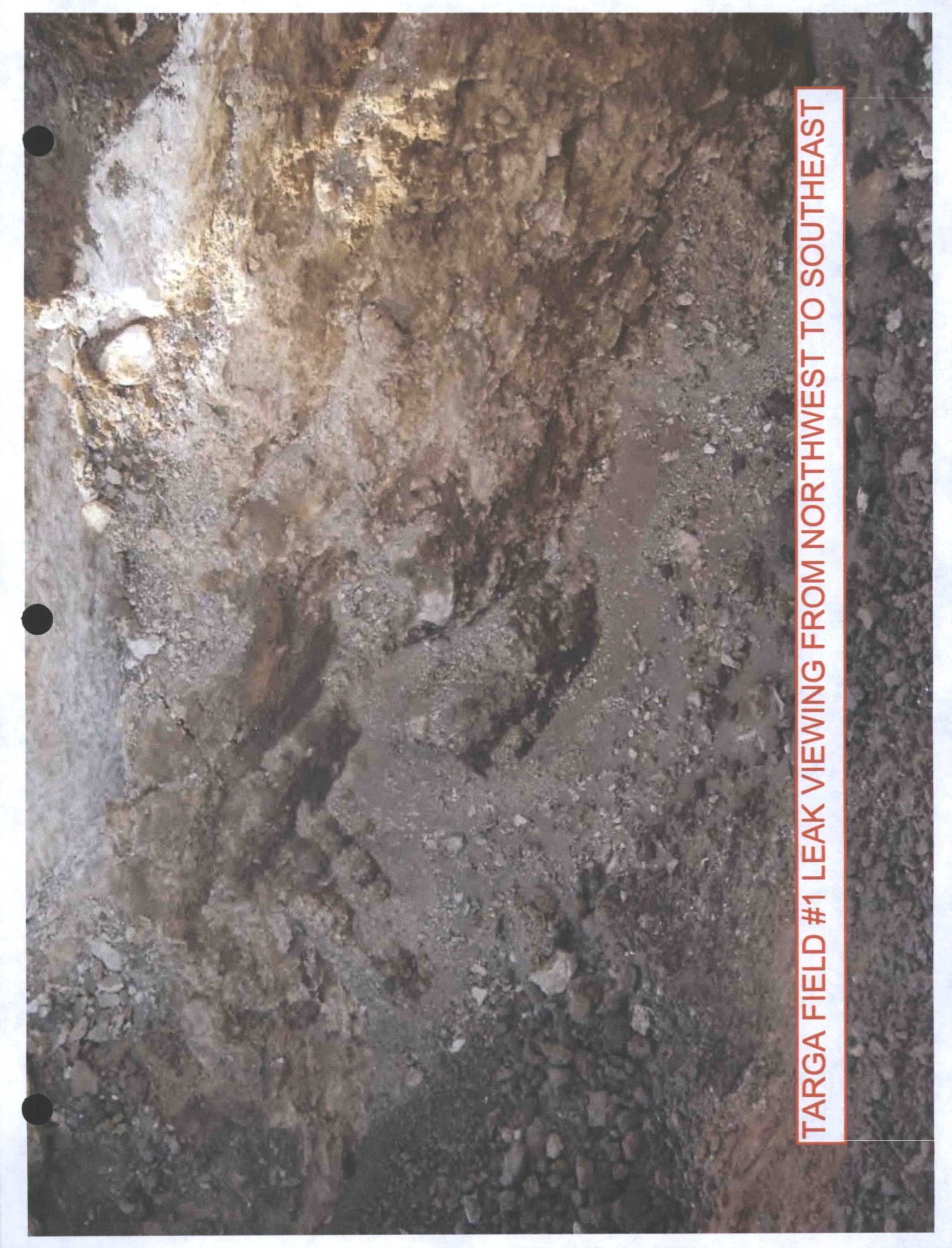


TARGA FIELD #1 LEAK VIEWING FROM NORTHEAST TO SOUTHWEST



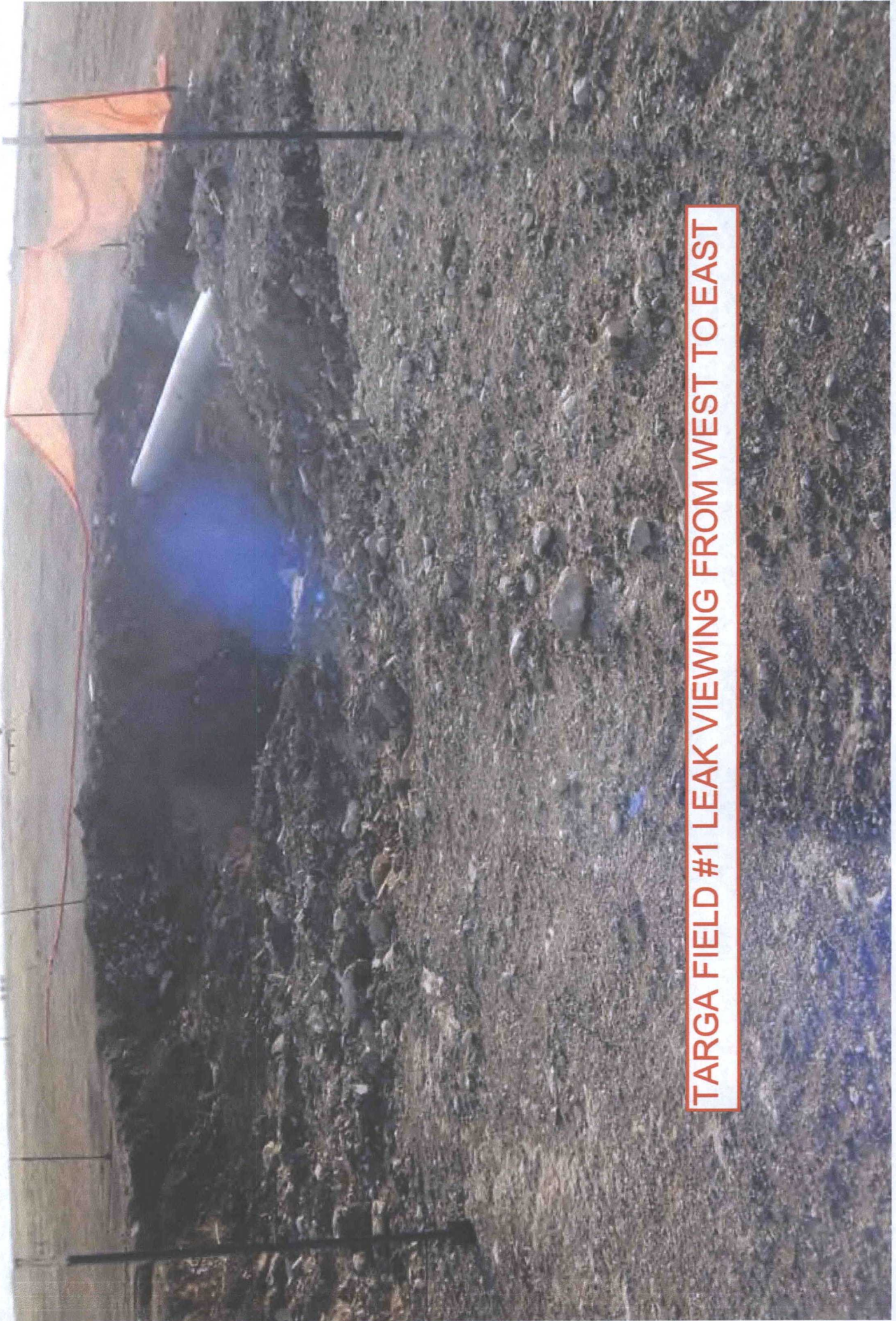
A photograph of a trench wall showing various soil layers. On the left, a black pipe runs vertically. The soil is composed of dark topsoil, a lighter brown silty layer, and a bottom layer of gravel. A red-bordered text box is on the right side.

TARGA FIELD #1 LEAK VIEWING FROM NORTH TO SOUTH



TARGA FIELD #1 LEAK VIEWING FROM NORTHWEST TO SOUTHEAST

TARGA FIELD #1 LEAK VIEWING FROM WEST TO EAST



view of excavation prior to leveling an building ramps
east to west north side of p/i



03/12/2012

track hoe digging out ramps and using material to level
interior of excavation viewing from north to south



03/12/2012

viewing excavation leveled, access ramps built, fence around
excavation northeast to southwest

03/12/2012





04/08/2012



04/08/2012



04/08/2012



04/09/2012

Source

B1

B4

B2

B3

B5

B6

B7

1RP-2786
TARGA
Field #1 Leak
UL/V Sec. 3 - T16S - R35E
BORE LOCATIONS:
Source to B1 - 18'
Source to B2 - 8'
Source to B3 - 23'
Source to B4 - 15'
Source to B5 - 10'
Source to B6 - 30'
Source to B7 - 8'

