



13202 West 98th Street Lenexa, Kansas 66215

October 29, 2001

BE&K/Terranext Project Number 17102179

Mr. Scott O'Neal  
Kansas Department of Health and Environment  
Bureau of Environmental Remediation  
1000 SW Jackson, Suite 410  
Topeka, Kansas 66612-1367

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**Re: Results of Soil Boring/Additional Well Installation/Limited SVE Test  
Cairo Coop: Penalosa, Kansas  
KDHE Project Code: A2 048 40074**

**RECEIVED**  
OCT 30 2001  
BUREAU OF  
ENVIRONMENTAL REMEDIATION

Dear Mr. O'Neal:

BE&K/Terranext is pleased to provide the Kansas Department of Health and Environment (KDHE) with documentation of additional site investigation activities at the above referenced site. BE&K/Terranext installed an additional Soil Vapor Extraction (SVE) well, 4 soil borings, and conducted a limited SVE test as requested in a KDHE letter dated July 30, 2001. All work was done in accordance with the BE&K/Terranext workplan dated August 10, 2001.

**Well Installation Activities**

BE&K/Terranext arrived onsite on September 11, 2001 to install one additional shallow SVE well and 4 soil borings (SB-18 through SB-21). BE&K/Terranext subcontracted Max's Enterprises, Inc., Fort Scott, Kansas to install the four soil borings and one SVE well (SV-2). Each soil boring was installed to a depth of 20 feet below ground surface (bgs) to screen for petroleum impacts to unsaturated soil. Figure 1, Attachment I displays the existing wells and soil boring locations. Each soil boring was continuously sampled and field screened with a photoionization detector (PID) for volatile organic compounds (VOCs). Table 1, Attachment II displays the field screening results for each existing and newly installed soil boring. Lithologic logs containing qualitative observations and field screening results for each soil boring are included as Attachment III.

The shallow SVE well designated as SV-2 was installed to a depth of 19 feet bgs using hollow stem auger drilling techniques. Figure 2, Attachment I displays the existing and newly installed well locations at the site. The SVE well was constructed of 4 inch diameter schedule 40 PVC with 10 feet of 0.010 slot screen. The well was completed flush to the surface with a water tight well vault and lockable well plug. Table 1, Attachment II displays the field screening results for SV-2 boring. The lithologic log and well construction diagram for SVE well SV-2 are included as Attachment III.

The newly installed SV-2 was not surveyed since the well was not completed in ground water. In addition, soil and ground water samples were not collected as indicated in the BE&K/Terranext workplan approved by KDHE.

Thursday  
1710Z179

CRE

0700 to 0725 - Mob to site from Kingman  
0725 - Began opening wells for SVE/AS  
Pilot testing.

Cloudy with a good chance for rain  
See SVE/Air Sparge forms for NRES

1520 - Scott O'Neal off site  
1715 - off site - Mob to KC  
2150 - At office.

*Chris Kosta*

Carino Coop, Penola, KS

9/11/01 1710Z179

21  
CRE

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1  
[unclear] THE OFFICE [unclear]

in the Manager showed me where  
the water line is located. All gas  
is propane.

1710 - Max's on site. They had 3  
flat tires on the way here  
One is on the back axle of  
the rig + still needs repaired

1713 - Tailorcut safety meeting  
Set up on B-1 at 13' South  
+ 15' west of MW-01

1818 B-2 is located at  
7' S + 10' East of MW-01  
Setting up.

Done completing B-2 as SU-2  
10' screen  
9' riser

TD = 20 well TD = 19'

Sand from 19 to 7' - 5 bags - 50 lbs ea  
Began drilling B-3  
Completed B-3. Bent. Chips to 2 bags  
Active sand to

2004 - Began Drilling B-4 17' W of East  
of B-2 well

Penabso - Cairo COOP  
1710 2179 CRE

22  
9/11/01

2025 13-4 finished 20' bgs

Plugged it w/ Bentonite

2042 - At 13-5 located 10' W + 11' N of MW-02

2110 - (9:10 pm) at 20' bgs.

Max began final decon, SU-2 completion etc. Max's drill rig still has a blown out tire on the left, inside, rear tire side. The surviving tire is almost flat and we asked a farmer to help us.

He went to his farm/got an air compressor and filled up the tire. I drove

to Kingman at 10:30 pm to reserve a room & paid for their room (last one in town), because Max's is very low on cash & don't carry other forms of currency (except 1 company credit card.) The drill rig needs repaired before going further.

1145 - in Super 8 motel - East Wichita.

Chris Eaton

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9/12/01 1710 2179 CRE

0745-0800 - finished/cast rights notes

0800 - checking out of Motel

17102219/1/12 CRE

9/29/01

0715 - Mobite site from Pratt  
1700226 Miles on Van at Pratt

0815 - ON SITE

0848 - I checked in / signed in, opened several ob wells, installed a well tag

on SU-1

0849 Calibrating PID

100ppm gas reads 98ppm

filled a redlar bag with fresh air  
- read 38 on PID, disassembled + cleaned hand pump.

fresh air reads 18 ppm

re-sampled air = 34 ppm

I can't clean the pump any better than I did, so consider 34 ppm the detection limit for this test

1015 - Shot off system began securing site, checked out

1030 - OFF SITE

1215 - at 11:00pm

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