AP - 002

STAGE 1 & 2 WORKPLANS

DATE:

April 1998

GRIMES BATTERY and TASKER ROAD STAGE 1 ABATEMENT WORK PLAN ADDENDUM

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Environmental Bureau
Oil Conservation Division

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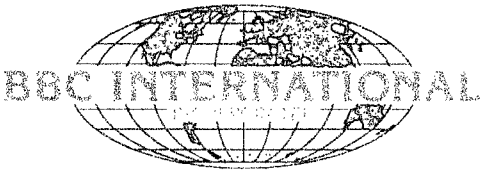
Shell Exploration and Production Technology Company
Houston, Texas

Prepared by



1324 W. Marland Blvd.
Hobbs, New Mexico 88240

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1.0 STAGE 1 ABATEMENT WORK PLAN ADDENDUM

The following Stage 1 Abatement Work plan Addendum is based on the results of the assessment activities performed to date, the activities addressed in the Stage 1 Abatement Work plan of April 24, 1998, and the forwardness of Shell Exploration and Production Technology Company to voluntarily conduct a complete survey of the surrounding undeveloped properties to the two sites under study. A survey to determine the property boundaries of the undeveloped land owned by Los Quatro, Inc. will be conducted along with a study of aerial photographs, oil and gas production well maps, and a complete walk over of the site.

There are primarily four tracts of land undeveloped in the Westgate Addition (Figure 1). The Grimes Battery and Tasker Road sites are located within Tracts 1 and 2. Additional small parcels of land to be investigated are located at the southeast corner of Tasker Drive and the north end of Cobb Drive.

1.1 TRACT 1 (TASKER ROAD SITE)

Two boreholes will be installed in addition to the ones already proposed in the Stage 1 Abatement Work plan (4/24/98). Proposed borehole locations are shown in Figure 1. The boreholes will be placed to identify if contaminant concentrations are present. The soils will be sampled to a depth of 10 feet, with samples taken at 5 foot intervals. Soil samples will be screened in the field for volatile organic compounds (VOC's) using a photoionization detector (PID), and will be inspected for the presence of staining or odor. In the event that staining or odor is encountered at the 10 foot depth, drilling and sampling will continue until no PID readings, staining, and odor are observed. The sample exhibiting the highest PID reading and the sample collected from the bottom of the borehole will be submitted for laboratory analysis for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX). In the event that PID readings do not coincide with visual observation of staining, one representative composite sample of stained material will be collected and submitted for analysis.

1.2 TRACT 2 (GRIMES BATTERY SITE)

Two boreholes will be installed in addition to the ones already proposed in the Stage 1 Abatement Work plan (4/24/98). Proposed borehole locations are shown in Figure 1. The boreholes will be placed to identify if contaminant concentrations are present. The soils will be sampled to a depth of 10 feet, with samples taken at 5 foot intervals. Soil samples will be screened in the field for volatile organic compounds (VOC's) using a photoionization detector (PID), and will be inspected for the presence of staining or odor. In the event that staining or odor is encountered at the 10 foot depth, drilling and sampling will continue until no PID readings, staining, and odor are observed. The sample exhibiting the highest PID reading and the sample collected from the bottom of the borehole will be submitted for laboratory analysis for total petroleum hydrocarbons

(TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX). In the event that PID readings do not coincide with visual observation of staining, one representative composite sample of stained material will be collected and submitted for analysis.

1.3 TRACT 3

Six boreholes will be installed. Proposed borehole locations are shown in Figure 1. The boreholes will be placed to identify if contaminant concentrations are present. The soils will be sampled to a depth of 10 feet, with samples taken at 5 foot intervals. Soil samples will be screened in the field for volatile organic compounds (VOC's) using a photoionization detector (PID), and will be inspected for the presence of staining or odor. In the event that staining or odor is encountered at the 10 foot depth, drilling and sampling will continue until no PID readings, staining, and odor are observed. The sample exhibiting the highest PID reading and the sample collected from the bottom of the borehole will be submitted for laboratory analysis for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX). In the event that PID readings do not coincide with visual observation of staining, one representative composite sample of stained material will be collected and submitted for analysis.

1.4 TRACT 4

Four boreholes will be installed. Proposed borehole locations are shown in Figure 1. The boreholes will be placed to identify if contaminant concentrations are present. The soils will be sampled to a depth of 10 feet, with samples taken at 5 foot intervals. Soil samples will be screened in the field for volatile organic compounds (VOC's) using a photoionization detector (PID), and will be inspected for the presence of staining or odor. In the event that staining or odor is encountered at the 10 foot depth, drilling and sampling will continue until no PID readings, staining, and odor are observed. The sample exhibiting the highest PID reading and the sample collected from the bottom of the borehole will be submitted for laboratory analysis for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX). In the event that PID readings do not coincide with visual observation of staining, one representative composite sample of stained material will be collected and submitted for analysis.

1.5 ADDITIONAL BOREHOLES

Two additional boreholes will be installed at the northern end of Cobb Drive on both the east and west sides on empty lots and one borehole on the empty lot at the southeast corner of Tasker Drive. Proposed borehole locations are shown in Figure 1. The boreholes will be placed to identify if contaminant concentrations are present. The soils will be sampled to a depth of 10 feet, with samples taken at 5 foot intervals. Soil samples will be screened in the field for volatile organic compounds (VOC's) using a photoionization detector (PID), and will be inspected for the presence of staining or odor. In the event that staining or odor is encountered at the 10 foot depth, drilling and sampling will continue until no PID readings, staining, and odor are observed.

The sample exhibiting the highest PID reading and the sample collected from the bottom of the borehole will be submitted for laboratory analysis for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX). In the event that PID readings do not coincide with visual observation of staining, one representative composite sample of stained material will be collected and submitted for analysis.

2.0 QUALITY ASSURANCE

All sampling and analysis will be performed consistent with the standards of EPA protocols.

3.0 SCHEDULE

Field activities will be scheduled following written approval of the Stage 1 Abatement Work Plan by the NMOCD. Field activities will be initiated immediately, subject to the availability of a qualified and experienced driller. It is anticipated that field activities will require a minimum of 10 work days. In order to minimize the noise disturbance to area residents, field activities will be scheduled Monday through Friday, 8:00 am - 5:00 pm. The results of the Stage 1 Abatement Work Plan and recommendations for remediation of the tracts, if necessary, will be submitted within 60 days of the completion of field activities. This will allow sufficient time for laboratory analysis, evaluation of the data, and remedial design.

4.0 REFERENCES

Grimes Battery and Tasker Road Stage 1 Abatement Work Plan; Philip Services Corporation; April 1998

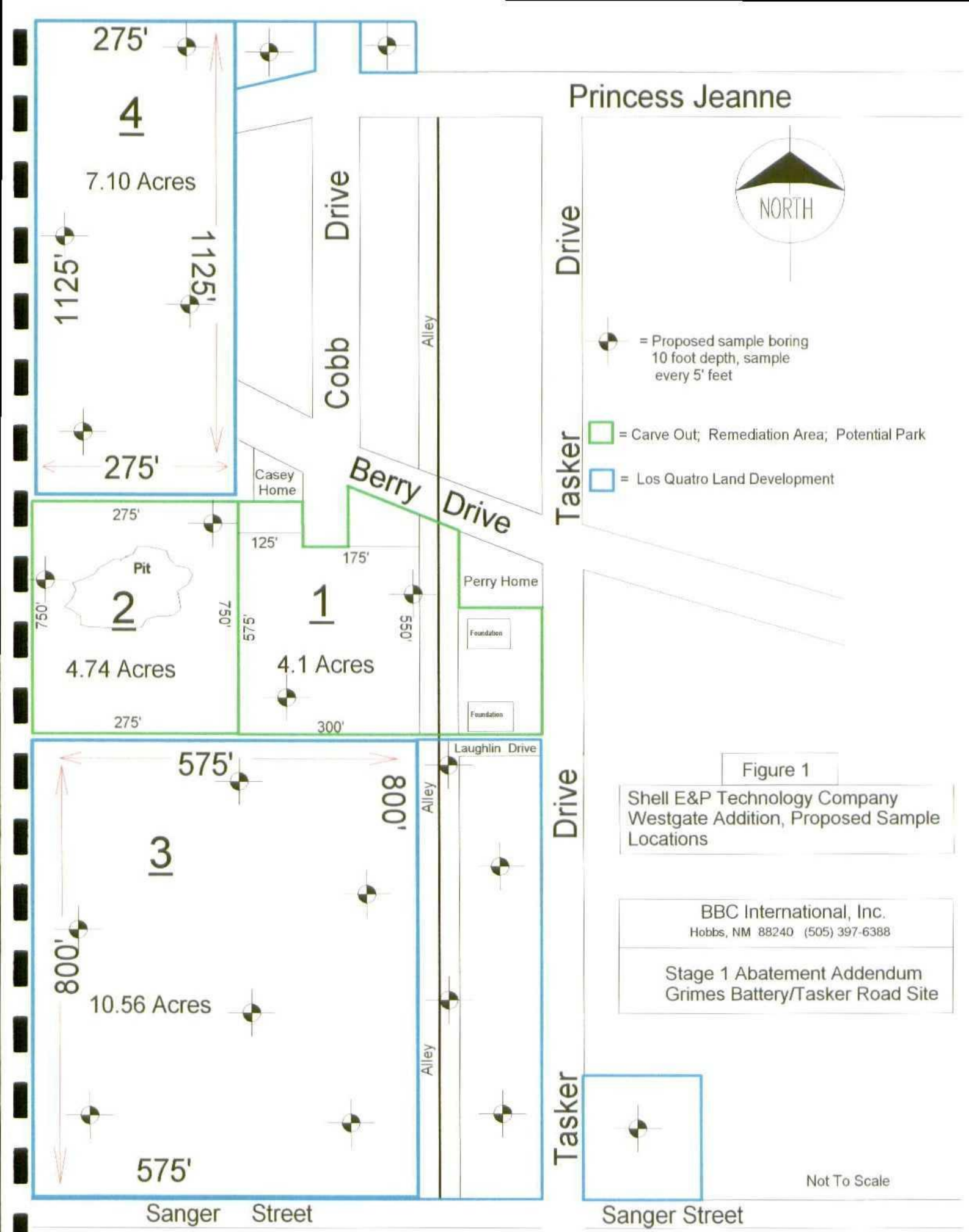

Figure 1

Shell E&P Technology Company
Westgate Addition, Proposed Sample Locations

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Stage 1 Abatement Addendum
Grimes Battery/Tasker Road Site