District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE
(Revised 3/9/94

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR

SEP 08 1995

NO C-134

PIT REMEDIATION AND CLOSURE REPORT

Operator: BHP PETROLEUM (AMERICAS) INC. **Telephone:** (505)327-1639

Address: P.O. BOX 977 FARMINGTON, NEW MEXICO 87499

Facility Or: Well Name: G.C.U. #259 SWD

Location: Unit or Qtr/Qtr Sec SE/SE Sec 14 T28N R12W County SAN JUAN

Pit Type: Separator ___ Dehydrator ___ Other EMERGENCY OVERFLOW

Land Type: BLM ___, State ___, Fee ___, Other FEDERAL

Pit Location: (Attach diagram)
Pit dimensions: length 36', width 45', depth 8'
Reference: wellhead ___, other WATER STORAGE TANKS
Footage from reference: 32'
Direction from reference: ___ Degrees ___ East North ___ of X West South ___

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources)	Yes (20 points) No (0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)	0
	RANKING SCORE (TOTAL POINTS):	0

RECEIVED
AUG 28 1995
OIL CON. DIV.
DIST. 3

Date Remediation Started: JANUARY 31, 1995 **Date Completed:** JANUARY 31, 1995

Remediation Method: (Check all appropriate sections)
Excavation X Approx. cubic yards 480
Landfarmed ___ Insitu Bioremediation ___
Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility)
Onsite X Offsite _____

General Description Of Remedial Action: BACK FILLED PIT WITH CLEAN SOIL.

Ground Water Encountered: No X Yes ___ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location PIT NORTH WALL, SOUTH WALL, WEST WALL EAST WALL AND THE CENTER OF PIT.

Sample depth _____

Sample date 10-10-94 Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) _____

TPH _____

Ground Water Sample: Yes ___ No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE

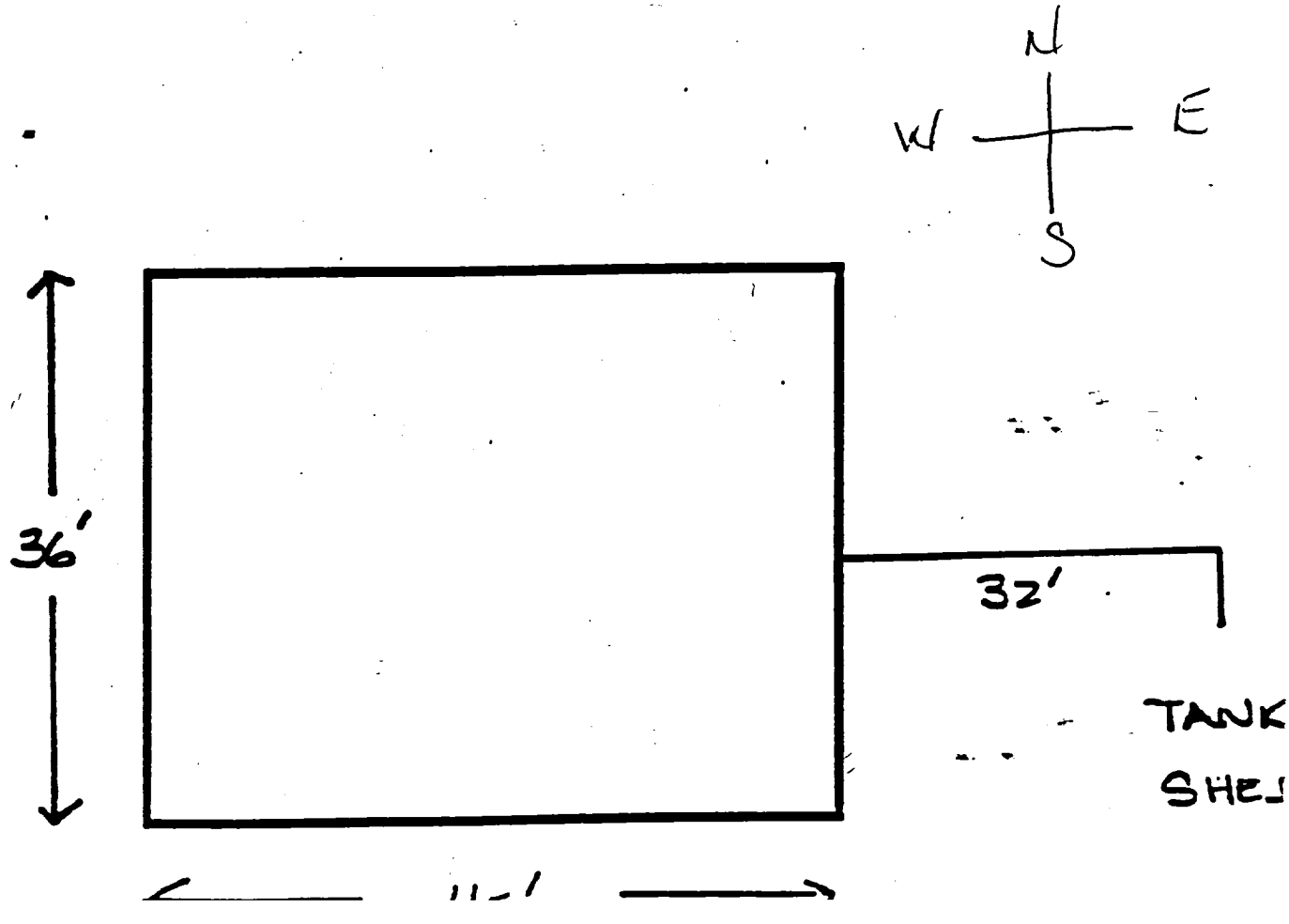
SIGNATURE _____ PRINTED NAME AND TITLE J.C.HARRIS PRODUCTION SUPT.

BHP Petroleum

Pit Closure Report

Gallegos Canyon Unit
Well #259

SF - 078905
740 FSL 810 FEL
SEC 14 - T28N - R12W



GCU # 259

Contractors List

Holgate Oilfeild Service
201 Fredrick Av.
Aztec New Mexico
87410

ENALYTICA

ENVIRONMENTAL LABORATORY

October 28, 1994

J. C. Harris
BHP Petroleum
PO Box 977
Farmington, NM 87499

Dear J. C.:

Enclosed are the results for the assessments of GCU 306, 307, 328, and 259. Analyses for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and Total Petroleum Hydrocarbons were performed on 5 samples from each pit. Samples were pulled from the center of each pit and at center points along each side. With the exception of GCU 328, all samples were pulled from a minimum depth of 3 feet. Sandstone was encountered at the GCU 328 at a depth of 12 to 18 inches.

Analysis was performed on the samples according to EPA Method 602, using a Hewlett-Packard 5890 gas chromatograph equipped with an OI Analytical purge and trap (model 4560) and a photoionization detector. Levels of BTEX present are indicated on the report sheets.

TPH analysis was performed according to EPA Method 418.1 following the freon extraction of the samples (EPA Method 3550 - Sonication Extraction). The instrument used for the analysis was a BUCK TPH analyzer. Levels of TPH present in the samples are indicated on the report sheets.

Closure is recommended for GCU 259.

A small amount of contamination was found at GCU 307. It was suspected that plant and other organic material was interfering with the TPH results, but confirmation runs of the two samples indicate that this not likely the case. High TPH hits also corresponded to regions of visible staining. Depth and extent of contamination needs to be determined.

Contamination was high at two points within GCU 328. One such point was close to the drip pipe that had been draining into the pit. Because of the sandstone layer, it expected that the extent of the contamination is probably low, and the pit can be remediated quickly and inexpensively. Options would include bioremediation in place or on site, removal and disposal of contaminated soil (as the amount of soil is expected to be small), or if the quantity of contaminated soil is sufficiently small, dilution with clean backfill to give an overall reading of 100 ppm.

GCU 306 was contaminated below the surface with heavy, black hydrocarbon. GC analysis indicates that the hydrocarbon range is mid to heavy (> C10). An exact ranking score needs to be determined, but is estimated to be 20. Bioremediation is suggested for GCU 306 because of the nature of the contamination. Companies that I have worked with are EPC (contact: Catherine Block), Applied Bioscience (contact: Bob Durbin), and Plant Maintenance and Supply (contact: Gene Gosnell).

Sincerely,

Denise A. Bohemier
Lab Director

Client: BHP Petroleum

Pit Closure Report

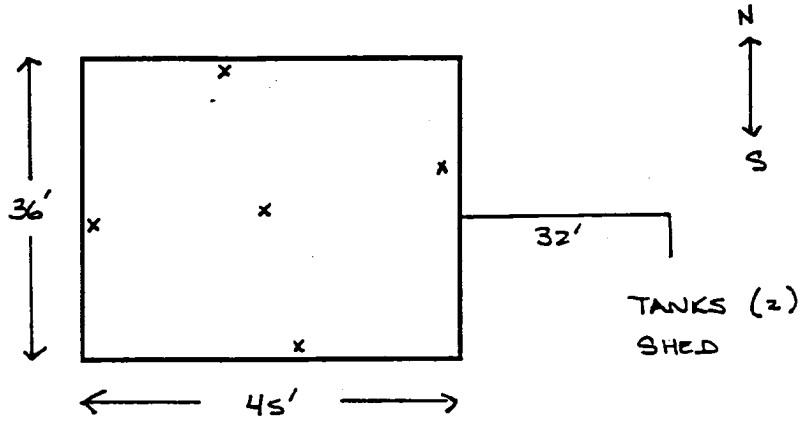
Site: Gallegos Canyon Unit
Well #259

Lease: SF - 078905
740 FSL 810 FEL
SEC 14 - T28N - R12W

Ranking Score: 0 - 9

Benzene	**< 10**
BTEX	**< 50**
TPH	**< 5000**

Diagram:



Appearance: Sandy; appeared clean. No odor

Laboratory Results:

Sample Location	Benzene (ppm) (EPA 8020)	Total BTEX (ppm) (EPA 8020)	TPH (ppm) (EPA 418.1)
North Wall	< 10	< 50	< 25
East Wall	< 10	< 50	< 25
West Wall	< 10	< 50	< 25
South Wall	< 10	< 50	< 25
Center	< 10	< 50	< 25

Closure recommended.

ANALYTICA
ENVIRONMENTAL LABORATORY

TOTAL PETROLEUM HYDROCARBONS

EPA Method 418.1

BHP Petroleum

Project ID:	GCU 259	Report Date:	10/28/94
Sample Matrix:	Soil	Date Sampled:	10/10/94
Preservative:	Cool	Date Received:	10/10/94
Condition:	Intact	Date Extracted:	10/19/94
		Date Analyzed:	10/19/94

Sample ID	Lab ID	Concentration (mg/kg)	Detection Limit (mg/kg)
South Wall	0194	ND	24.5
North Wall	0195	ND	25.0
East Wall	0196	ND	24.9
West Wall	0197	ND	25.4
Center	0198	ND	24.7

ND- Analyte not detected at the stated detection limit.

Reference: Method 3550 - Sonication Extraction; Test Methods for Evaluating Solid Waste, SW-846, United States Environmental Protection Agency, September, 1986; Method 418.1 - Petroleum Hydrocarbons, Total Recoverable; Chemical Analysis of Water and Waste, United States Environmental Protection Agency, 1978.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

VOLATILE AROMATIC HYDROCARBONS

BHP Petroleum

Project ID:	GCU 259	Report Date:	10/25/94
Sample ID:	North Wall	Date Sampled:	10/10/94
Lab ID:	0195	Date Received:	10/10/94
Sample Matrix:	Soil	Date Extracted:	10/14/94
Preservative:	Cool	Date Analyzed:	10/18/94
Condition:	Intact		

Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	9.71
Toluene	ND	9.71
Ethylbenzene	ND	9.71
m,p-Xylenes	ND	19.4
o-Xylene	ND	9.71

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	103	81 -117%
Bromofluorobenzene	108	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

VOLATILE AROMATIC HYDROCARBONS

BHP Petroleum

Project ID:	GCU 259	Report Date:	10/25/94
Sample ID:	East Wall	Date Sampled:	10/10/94
Lab ID:	0196	Date Received:	10/10/94
Sample Matrix:	Soil	Date Extracted:	10/14/94
Preservative:	Cool	Date Analyzed:	10/18/94
Condition:	Intact		

Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	9.42
Toluene	ND	9.42
Ethylbenzene	ND	9.42
m,p-Xylenes	ND	18.8
o-Xylene	ND	9.42

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	103	81 -117%
Bromofluorobenzene	107	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020; Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

VOLATILE AROMATIC HYDROCARBONS

BHP Petroleum

Project ID:	GCU 259	Report Date:	10/25/94
Sample ID:	West Wall	Date Sampled:	10/10/94
Lab ID:	0197	Date Received:	10/10/94
Sample Matrix:	Soil	Date Extracted:	10/14/94
Preservative:	Cool	Date Analyzed:	10/18/94
Condition:	Intact		

Target Analyte	Concentration (ug/kg)	Detection Limit (ug/kg)
Benzene	ND	8.40
Toluene	ND	8.40
Ethylbenzene	ND	8.40
m,p-Xylenes	ND	16.8
o-Xylene	ND	8.40

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	102	81 -117%
Bromofluorobenzene	106	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review

ANALYTICA
ENVIRONMENTAL LABORATORY

VOLATILE AROMATIC HYDROCARBONS

BHP Petroleum

Project ID:	GCU 259	Report Date:	10/25/94
Sample ID:	Center	Date Sampled:	10/10/94
Lab ID:	0198	Date Received:	10/10/94
Sample Matrix:	Soil	Date Extracted:	10/14/94
Preservative:	Cool	Date Analyzed:	10/18/94
Condition:	Intact		

Target Analyte	Concentration (ug/Kg)	Detection Limit (ug/Kg)
Benzene	ND	9.42
Toluene	ND	9.42
Ethylbenzene	ND	9.42
m,p-Xylenes	ND	18.8
o-Xylene	ND	9.42

ND - Analyte not detected at the stated detection limit.

Quality Control:

Surrogate	Percent Recovery	Acceptance Limits
Trifluorotoluene	102	81 -117%
Bromofluorobenzene	103	74 -121%

Reference: Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics; Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review