

District I  
P O Box 1990, Hobbs, NM

District II  
Drawer DD, Artesia, NM 88221

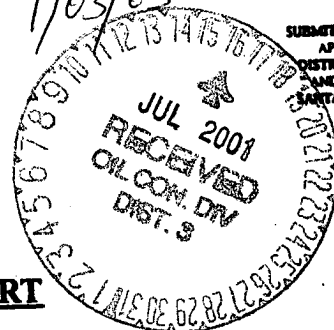
District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street  
Santa Fe, New Mexico 87505

Closed 01/30/03  
1/03/03



PIT REMEDIATION AND CLOSURE REPORT

30-045-08102

Operator: PNM Gas Services ( WFS ) Telephone: 324-3764  
Address: 603 W. Elm Street Farmington, NM 87401  
Facility or Well Name: Albright #4 Drip  
Location: Unit: B Sec. 22 T. 29 N R. 10 W County San Juan  
Pit Type: Separator    Dehydrator    Other Drip  
Land Type: BLM X State    Fee    Other   

Pit Location: Pit dimensions: length 15' width 15' depth 3'

(Attach diagram) Reference: wellhead X other   

Footage from reference: 270'

Direction from reference: 20° Degrees    East North X  
of X West South   

Depth to Ground Water:

(Vertical distance from contaminant 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)

20

Wellhead Protection Area:

(Less than 200 feet from a private domestic water source, or: less than 1,000 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 1,000 feet (10 points)  
Greater than 1,000 feet (0 points)

0

RANKING SCORE (TOTAL POINTS):

20

Date Remediation Started:

6-17-99

Date Completed:

6-23-99

Remediation Method:

Excavation

X

Approx. Cubic Yard

5300

(Check all appropriate sections)

Landfarmed

Amount Landfarmed (cubic yds)

Other

Tierce Environmental

Remediation Location:

Onsite

Offsite

Tierce Environmental

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated pit 90' x 106' x 15'

Ground Water Encountered:

No

Yes

X

Depth

15'

Final Pit Closure Sampling:

Sample Location

middle of pit

(if multiple samples, attach sample result and diagram of sample locations and depths)

Sample depth

15'

Sample date

6/18/99

Sample time

0700

Sample Results

Benzene (ppm)

Total BTEX (ppm)

Field headspace (ppm)

TPH

Method

Vertical Extent (ft)

Risk Assessment form attached

Yes

No

Ground Water Sample:

Yes

No

(If yes, attach sample results)

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

DATE

6/23/99

SIGNATURE

D. Bearden

PRINTED NAME  
AND TITLE

Denver Bearden  
Administrator III

Approved Olson  
1/3/03



Environmental Services  
187 County Road 4980  
Bloomfield, NM 87413  
505-632-4409 Phone  
505-632-4405 Fax

July 2, 2001



Mr. Bill Olson  
Hydrogeologist  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

RE: ALBRIGHT #4 DRIP PIT REMEDIATION AND CLOSURE REPORT

Dear Mr. Olson:

Enclosed please find information on remediation and closure activities associated with the unlined surface impoundment located at the Albright #4 Drip site. Public Service Company of New Mexico (PNM) formerly owned the site and initiated closure activities on June 17, 1999. The site later became an asset of Williams upon purchase of Gas Company of New Mexico (GCNM) from PNM. Upon expiration of PNM's retained environmental liabilities associated with the site, Williams agreed to complete necessary closure work. As such, the enclosed documentation reflects activities of both PNM and Williams.

#### Site History

Excavation of petroleum hydrocarbon impacted soil beneath the unlined surface impoundment began on June 17, 1999. A total of 2,040 cubic yards of contaminated soil were removed and disposed of at an approved off-site waste management facility. The excavation was reportedly terminated at a depth of 15-feet, where ground water was encountered. A sample of the ground water collected from the pit contained benzene and total xylene at concentrations in excess of Water Quality Control Commission (WQCC) standards. A letter notifying the Oil Conservation Division (OCD) of ground water contamination at the site was submitted on July 20, 1999.

To evaluate the magnitude and extent of ground water contamination, four monitoring wells were installed on July 27-28, 1999. An additional well was added to the network on April 12, 2000. Quarterly ground water samples were collected from the wells through May of 2001.

#### Site Hydrogeology

The Albright # 4 Drip is located in Unit F, Section 22, Township 29N, Range 10W of San Juan County, New Mexico (Figure 1). Approximately 100 feet southwest of the site is the Wright Canyon Arroyo, which flows south approximately 1 mile to the San Juan River. The site is underlain by approximately 15-feet of unconsolidated material consisting primarily of light brown, fine to coarse sand and silty sand. Below 15-feet an unknown thickness of gray, moderately to well indurated sandstone with appreciable clay content exists.

Groundwater in the unconsolidated sediments is unconfined and water level elevations vary seasonally. Depths to ground water range from approximately 8 to 15-feet below ground level. A hydrograph for the entire monitoring period is included as Figure 2. Ground water flows to the south consistent with the regional hydraulic gradient toward the San Juan River. A potentiometric surface map is included as Figure 3. Hydraulic conductivities of the sediments are likely on the order of  $10^{-3}$  to  $10^{-1}$  cm/sec.

#### Monitoring Results

Concentrations of benzene, toluene, ethylbenzene and xylene (BTEX) were analyzed in water samples collected quarterly from August 1999 through May 2001. Of the five wells in the monitoring network, only well MW-2, located in the former source area, contained concentrations in excess of WQCC standards. Table 1 summarizes the analytical results from monitoring the wells.

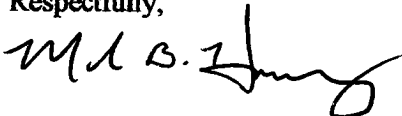
Natural attenuation processes active at the site resulted in a steady decrease in BTEX over the two-year monitoring period. The initial concentration of total BTEX in well MW-2 was 1030 ug/L. Less than one-year later, in June 2000, the total BTEX concentration was reduced to 43.6 ug/L. For the last four consecutive quarters of monitoring the concentrations of the BTEX compounds have remained below the WQCC standards.

#### Summary

The unlined surface impoundment at the Albright #4 Drip was addressed consistent with OCD Order 7940-C and with the guidelines pertaining to the remediation of unlined surface impoundments. The work included the removal of hydrocarbon impacted soils and an evaluation of groundwater impacted by the historical operation of the impoundment. A network of ground water monitoring wells was installed and ground water analyses showed that a small BTEX plume existed in the vicinity of the former pit location. Natural attenuation of the BTEX compounds resulted in contaminant degradation to concentrations less than WQCC MCLs. The monitoring results show that WQCC standards for BTEX in ground water have been met for four consecutive quarterly monitoring periods.

Based on current site conditions, Williams requests approval for closure of the Albright #4 Drip site. Following receipt of your closure approval we will plug and abandon the monitoring wells in accordance with applicable regulations. Williams appreciates your time in reviewing this site closure request. If you have any questions or require any additional information, please contact me at 505-632-4409 or Jim Struhs, Project Hydrogeologist at 505-632-4457.

Respectfully,

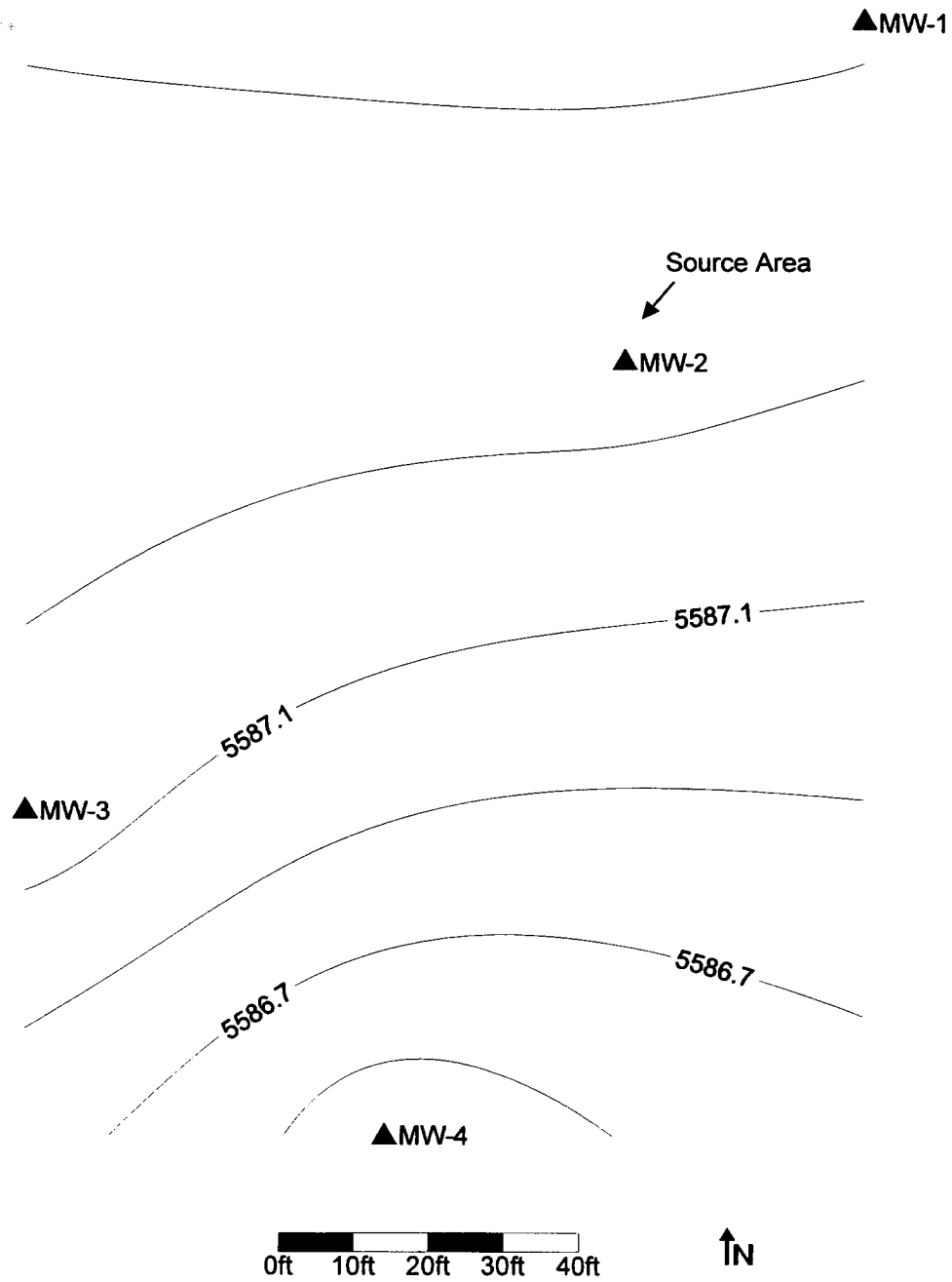


Mark B. Harvey  
Project Coordinator

enclosures

C: Denny Foust, OCD AZTEC DISTRICT OFFICE  
Bill Liess, BLM FARMINGTON DISTRICT OFFICE

Figure 3. Potentiometric Surface Map  
Albright #4 Drip  
(August 5, 1999)



**Table 1. Summary of Groundwater Analytical Data  
Albright #4 Drip**

Well ID	Sample ID	Sample Date	Free Product		Analytes (values in ug/L)			
			Present Yes/No	Thickness (ft.)	benzene	toluene	ethylbenzene	total xylenes
MW-1	9908051320	5-Aug-99	N		<0.5	<0.5	<0.5	<1.5
	9912061257	6-Dec-99	N		<0.5	1	<0.5	<1.5
	0003051332	5-Mar-00	N		<0.5	<0.5	<0.5	<1.5
	0006071157	7-Jun-00	N		<0.5	<0.5	<0.5	<1.5
	NS	28-Sep-00	N					
	NS	7-Dec-00	N					
	ALB4-UG-MW1	15-Mar-01	N		<1	<1	<1	<1
	ALB4-UG-MW1	4-May-01	N		<1	<1	<1	<1
MW-2	9908051400	5-Aug-99	N		230	8	52	740
	9912061322	6-Dec-99	N		170	3	39	68
	0003051355	5-Mar-00	N		26	<0.5	23	65
	0006071212	7-Jun-00	N		10.0	<0.5	9.3	23.8
	ALB4-SA-MW2	28-Sep-00	N		6.1	26.2	8.3	17.6
	ALB4-SA-MW2	7-Dec-00	N		4.16	1.56	5.94	2.24
	ALB4-SA-MW2	15-Mar-01	N		3.29	21.70	3.47	8.90
	ALB4-SA-MW2	4-May-01	N		<1	17.00	1.57	5.50
MW-3	9908051430	5-Aug-99	N		<0.5	<0.5	<0.5	<1.5
	9912061340	6-Dec-99	N		<0.5	1	<0.5	<1.5
	0003051410	5-Mar-00	N		<0.5	<0.5	<0.5	<1.5
	0006071226	7-Jun-00	N		<0.5	<0.5	<0.5	<1.5
	NS	28-Sep-00	N					
	NS	7-Dec-00	N					
	ALB4-DG-MW3	15-Mar-01	N		<1	<1	<1	<1
	ALB4-DG-MW3	4-May-01	N		<1	<1	<1	<1
MW-4	9908051520	5-Aug-99	N		<0.5	<0.5	<0.5	<1.5
	9912061353	6-Dec-99	N		<0.5	0.8	<0.5	<1.5
	0003051426	5-Mar-00	N		<0.5	<0.5	1	<1.5
	0006071237	7-Jun-00	N		<0.5	<0.5	1	<1.5
	NS	28-Sep-00	N					
	NS	7-Dec-00	N					
	ALB4-DG-MW4	15-Mar-01	N		<1	<1	<1	<1
	ALB4-DG-MW4	4-May-01	N		1.27	5.08	<1	4.63
MW-5	0006071248	7-Jun-00	N		<0.5	1.5	0.8	<1.5
	ALB4-DG-MW5	28-Sep-00	N		<1.0	13.8	2.33	3.54
	ALB4-DG-MW5	7-Dec-00	N		1.27	<1	<1	2.01
	ALB4-DG-MW5	15-Mar-01	N		<1	19.4	5.28	3.58
	ALB4-DG-MW5	4-May-01	N		<1	29.1	3.92	3.92

NS=Not Sampled

Date 6-17-99		Name Gary Cook			
Well Name Albright #4 Drip	Operator WFS	S 22	T 29 N	R 10 W	UI F
Pit Dimensions at Start 15x15x3		Excavation Dimensions at End 90x106x15			
Excavated Cu. Yds. 5300	Overburden Cu. Yds. 3260		Spoil Cu. Yds. 2040		

PIT PID READINGS		
Feet	Center	Soil Type
5'	687	Blk/Gry Sand
10'	540	Gry Sand
15'		Water
20'		
25'		

hauled  
1700 yds  
back 11' back  
from T. turn  
MC

Composite Sample # (Walls): <del>990617</del>		
Composite Sample # (Bottom): <del>990617</del> 990618 0740 H2D		
Location	Depth	PID Reading
North Wall		
South Wall		
East Wall		
West Wall		
Pit Bottom		

Land Farm Location: Albright #4
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**Field Notes:** At 15' depth have clean sand & water. started seeping into pit. Notified Murren about water location. Contacted Tom McMullen (WFS) requested switch on location to blowdown drip line. Will need to dig south of line. 1030 hrs WFS switch (Dink) have to make dig. Contacted El Paso to mark their line on right of way. Called BR Jose Chavez to mark their line on right of way.

Land owner - R. 154.501. No water well, on city H2O