

AP - 011

# STAGE 1 & 2 REPORTS

DATE:

May 2, 2005

**Price, Wayne**

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120938

**From:** Price, Wayne  
**Sent:** Thursday, May 19, 2005 1:44 PM  
**To:** Cal Wrangham (E-mail); Mark Larson (E-mail)  
**Cc:** Sheeley, Paul; Johnson, Larry  
**Subject:** Dynegy Bertha Barber Tank Battery N/2 SW/4 Sec 5-TS 20S-R37E Ref AP-11

The OCD is in receipt of the monitor well closure report and hereby approves your closure request with no further action required at this time.

Please be advised that NMOCD approval of this plan does not relieve (Dynegy) of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve (Dynegy) of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Sincerely:

Wayne Price  
New Mexico Oil Conservation Division  
1220 S. Saint Francis Drive  
Santa Fe, NM 87505  
505-476-3487  
fax: 505-476-3462  
E-mail: WPRICE@state.nm.us

*Larson and Associates, Inc.*  
*507 N. Marienfeld, Suite 202*  
*Midland, Texas 79702*  
*office - (432) 687-0901*  
*mobile - (432) 556-8665*

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May 2, 2005

Mr. Wayne Price  
New Mexico Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

**Re: Completion Report, Dynegy Midstream Services, L.P., Pipeline Segment  
Near Bertha Barber Tank Battery, N/2, SW/4, Section 5, Township 20 South,  
Range 37 East, Lea County, New Mexico**

Dear Mr. Price:

Please find enclosed a copy of the above-referenced report. The report is submitted on behalf of Dynegy Midstream Services, L. P., and presents the results of monitoring well plugging and abandonment conducted by Larson and Associates, Inc. Please call Cal Wrangham at (432) 688-0542 or myself at (432) 687-0901 if you have questions.

Sincerely,  
*Larson and Associates, Inc.*

*Cindy K. Crain*

Cindy K. Crain, PG

cc: Mr. Cal Wrangham – Dynegy  
Mr. James Lingnau - Dynegy  
Mr. Chris Williams – NMOCD District 1

AP 11

May 2, 2005

Mr. Wayne Price  
New Mexico Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico

**Re: Completion Report, Dynegy Midstream Services, L.P., Pipeline Segment  
Near Bertha Barber Tank Battery, N/2, SW/4, Section 5, Township 20 South,  
Range 37 East, Lea County, New Mexico**

Dear Mr. Price:

Dynegy Midstream Services, L.P. (Dynegy) has retained Larson and Associates, Inc. (LA) to investigate a potential release of natural gas liquids (NGL) from a segment of pipeline owned by Dynegy, and located northwest of the former Bertha Barber Tank Battery (Site) operated by Marathon Oil Company (MOC). MOC notified the New Mexico Oil Conservation Division (NMOCD) that phase-separated hydrocarbons (PSH) resembling NGL was present in a monitoring well located near Dynegy's pipeline. On May 23, 2000, the NMOCD requested Dynegy to submit information related to pipeline leaks, spills, repairs and remediation actions it had for the site. On June 9, 2000, Dynegy submitted the requested documentation, and indicated that there was no evidence of hydrocarbon impacts along the pipeline right-of-way. Dynegy noted that field personnel had identified and repaired a leak along a section of steel line approximately ¼-mile west-northwest of the Site. Dynegy representatives met with the NMOCD in May 2003, and committed to submitting a work plan to investigate its pipeline for a potential release that could have attributed to the impact. The work plan was submitted to the NMOCD on June 27, 2003, and was approved on September 10, 2003. A Subsurface Investigation Report, dated February 12, 2004, provided details of the installation of two (2) monitoring wells (MW-17 and MW-18), and groundwater monitoring results of those wells. Figure 1 presents a Site location and topographic map. Figure 2 presents a detailed Site drawing.

Analytical results from groundwater monitoring activities reported concentrations of toluene, ethylbenzene and xylene in groundwater from wells MW-17 and MW-18 below the New Mexico Water Quality Control Commission (NMWQCC) standards. The concentration of benzene in well MW-17 was below the NMWQCC standard of 0.01 milligrams per liter (mg/L). The concentration of benzene in well MW-18 (0.012 mg/L) exceeded the NMWQCC standard by 0.002 mg/L. Phase separated hydrocarbons (PSH) were not detected in either well, MW-17 or MW-18.

Mr. Wayne Price  
Page 2  
May 2, 2005

Dynegy concluded that the data obtained from the subsurface soil investigation, did not provide any indication that PSH found in MOC's well MW-10 originated from the leak of the Dynegy pipeline, and believed they had no further obligation at the Site. A request for approval to plug and abandon the two (2) monitoring wells was submitted to the NMOCD on April 11, 2005. Approval was granted by the NMOCD to plug and abandon monitoring wells MW-17 and MW-18 on April 13, 2005.

**Current Activities**

On April 20, 2005, monitoring wells MW-17 and MW-18 were plugged according to New Mexico State Engineer (NMSE) guidelines. The above grade cover, concrete pad, well box and surrounding steel railing was removed. The well casing was removed to a depth of approximately three (3) feet below grade, and the remaining borehole was grouted from bottom to top with a bentonite/cement grout consisting of one (1) to three (3) percent bentonite powder. Appendix A provides the plugging reports for monitoring wells MW-17 and MW-18.

Dynegy requests that a No Further Action status be granted pertaining to the Pipeline Segment near Bertha Barber Tank Battery, N/2, SW/4, Section 5, Township 20 South, Range 37 East, Lea County, New Mexico.

Please call Mr. Cal Wrangham at (432) 688-0542 or myself at (432) 687-0901 if you have questions. We may also be reached by email at [cal.wrangham@dynegy.com](mailto:cal.wrangham@dynegy.com) or [cindy@laenvironmental.com](mailto:cindy@laenvironmental.com).

Sincerely,  
*Larson & Associates, Inc.*

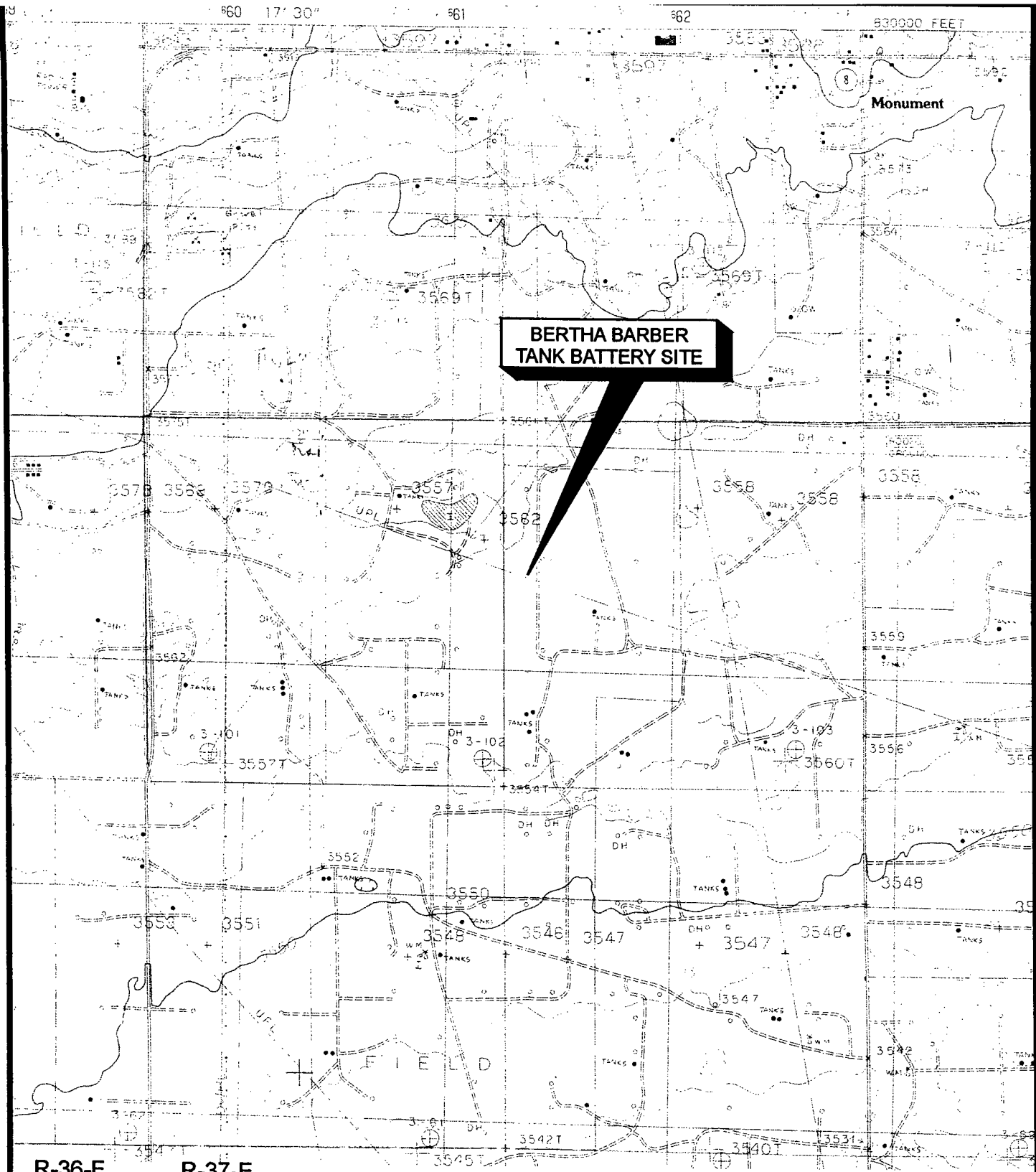


Cindy K. Crain, CPG

Encl.

cc: Cal Wrangham  
James Lingnau  
Chris Williams – NMOCD District I

## FIGURES



R-36-E R-37-E

TAKEN FROM U.S.G.S.  
MONUMENT SOUTH, N. MEX. 1985  
7.5' QUADRANGLES

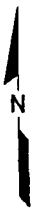
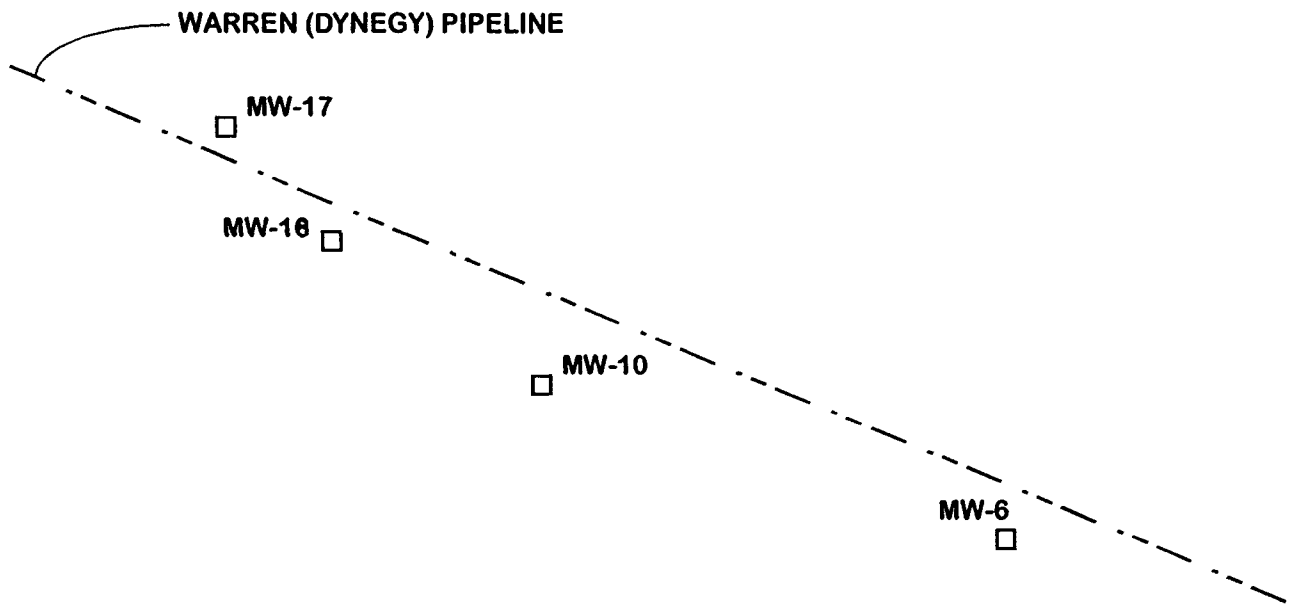


SCALE: 1"=2000'

DATE:  
8/21/03  
NAME:  
FILE:  
0-0100-21

FIGURE #1	
LEA COUNTY, NEW MEXICO	
DYNEGY MIDSTREAM SERVICES, L.P.	
BERTHA BARBER TANK BATTERY SITE	
N/2, SW/4, SECTION 5, T-20-S, R-37-E	
TOPOGRAPHIC MAP	
Larson & Associates, Inc. Environmental Consultants	





**LEGEND**

MW-10

□ MONITORING WELL LOCATION

DATE:  
1/22/04

NAME:

FILE:

<b>FIGURE #2</b>	
LEA COUNTY, NEW MEXICO	
<b>DYNEGY MIDSTREAM SERVICES, L.P.</b>	
BERTHA BARBER TANK BATTERY SITE	
SECTION 5, T-20-S, R-37-E	
<b>SITE DRAWING</b>	
<p><b>Larson &amp; Associates, Inc.</b> Environmental Consultants</p>	

**APPENDIX A**

**NEW MEXICO STATE ENGINEER OFFICE**

**MONITORING WELL PLUGGING REPORTS**

Larson  
Revised June 1972STATE ENGINEER OFFICE  
WELL RECORD

## Section 1. GENERAL INFORMATION

(A) Owner of well Dynegy Midstream Services, L.P. Owner's Well No. MM 17  
 Street or Post Office Address P.O. Box 1000  
 City and State Eunice New Mexico 88231

Well was drilled under Permit No. \_\_\_\_\_ and is located in the:  
Barber Bertha \_\_\_\_\_ % of Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ N.M.P.M.

b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_

c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
 Subdivision, recorded in Lea County.

d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
 the \_\_\_\_\_ Grant.

(B) Drilling Contractor Scarborough Drilling, Inc. License No. WD1188

Address P.O. Box 305 Lamesa, Texas 79331

Drilling Began 12/16/2003 Completed 12/16/2003 Type tools air Size of hole 2 in.

Elevation of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 40 ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 33.8 ft.

## Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

## Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
<u>2</u>	<u>sch 40 pvc</u>	<u>+2</u>	<u>20</u>			<u>.020</u>	<u>20</u>	<u>40</u>

## Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
<u>0</u>	<u>15</u>	<u>2</u>	<u>sand</u>		<u>poured</u>
<u>15</u>	<u>18</u>	<u>2</u>	<u>bentonite</u>		<u>poured</u>
<u>18</u>	<u>40</u>	<u>2</u>	<u>sand</u>		<u>poured</u>

## Section 5. PLUGGING RECORD

Plugging Contractor Scarborough Drilling, Inc.

Address P.O. Box 305 Lamesa, Texas 79331

Plugging Method poured

Date Well Plugged 4-20-05

Plugging approved by: \_\_\_\_\_

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
<u>1</u>	<u>0</u>	<u>40</u>	<u>2 bags</u>
<u>2</u>			<u>cement</u>
<u>3</u>			<u>&amp; bentonite</u>
<u>4</u>			

## FOR USE OF STATE ENGINEER ONLY

Date Received

Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

FDE No. \_\_\_\_\_ Use \_\_\_\_\_ Location No. \_\_\_\_\_

Revised June 1972

## STATE ENGINEER OFFICE

## WELL RECORD

## Section 1. GENERAL INFORMATION

Owner of well Dynegy Midstream Services, L.P.Owner's Well No. MW 18Street or Post Office Address P.O. Box 1909City and State Alamogordo New Mexico 88231

Well was drilled under Permit No. \_\_\_\_\_ and is located in the:

Barber Bertha

\_\_\_\_\_ % \_\_\_\_\_ % \_\_\_\_\_ % of Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ N.M.P.M.

b. Tract No. \_\_\_\_\_ of Map No. \_\_\_\_\_ of the \_\_\_\_\_

c. Lot No. \_\_\_\_\_ of Block No. \_\_\_\_\_ of the \_\_\_\_\_  
Subdivision, recorded in \_\_\_\_\_ Lea \_\_\_\_\_ County.d. X= \_\_\_\_\_ feet, Y= \_\_\_\_\_ feet, N.M. Coordinate System \_\_\_\_\_ Zone in  
the \_\_\_\_\_ Grant.B) Drilling Contractor Scarborough Drilling, Inc. License No. WD1188Address P.O. Box 305 Lamesa, Texas 79331Drilling Began 12/1/2003 Completed 12/1/2003 Type tools air Size of hole 2 in.Location of land surface or \_\_\_\_\_ at well is \_\_\_\_\_ ft. Total depth of well 42 ft.Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 35.6 ft.

## Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

## Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
2	sch 40 pvc		+2	22		.020	22	42

## Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				
	17	2	cement		poured
17	20	2	bentonite		poured
20	42	2	sand		poured

## Section 5. PLUGGING RECORD

Contractor Scarborough Drilling, Inc.Address P.O. Box 305 Lamesa, Tx 79331Plugging Method pouredWell Plugged 4-20-05

Approved by: \_\_\_\_\_

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0	42	3 bags
2			cement &
3			bentonite
4			

## FOR USE OF STATE ENGINEER ONLY

Received \_\_\_\_\_ Quad \_\_\_\_\_ FWL \_\_\_\_\_ FSL \_\_\_\_\_

No. \_\_\_\_\_ Use \_\_\_\_\_ Location No. \_\_\_\_\_