

**Well Abandonment Completion Report  
North Starlite Road, Northwoods Subdivision  
Mayflower Pipeline Incident Response, Mayflower, Arkansas  
December 29, 2015**

This Well Abandonment Completion Report (report) summarizes the groundwater monitoring well abandonment activities completed by ExxonMobil Environmental Services Company (EMES) on behalf of ExxonMobil Pipeline Company (EMPCo), at properties located within the Northwoods Subdivision in Mayflower, Arkansas (Figure 1). Specifically, these properties include 24, 32, 36, 40 and 44 North Starlite Road, including well TW-44-03 located on the east side of 44 North Starlite property (Figure 2). As described in the Well Abandonment Plan (ARCADIS 2015), a total of 14 groundwater monitoring wells were installed in April 2013 as part of the Mayflower Pipeline Incident Response activities. Of these 14 groundwater monitoring wells, a total of 13 wells, installed on properties 24, 32, 36, and 44 North Starlite Road, were abandoned between December 7 and 9, 2015.

Well abandonment activities were completed by a state licensed driller (McCray Drilling, LLC) in accordance with the Arkansas' *Monitoring Well Construction, Geotechnical Boreholes, And Plug & Abandonment Policy* (Policy; Arkansas Department of Environmental Quality [ADEQ] 2015). These activities were completed under the oversight of an Arkansas Professional Geologist. Consistent with Section 4 of the Policy, well abandonment activities included manual removal of concrete well pad and pipe, wherever possible, followed by overdrilling. Initial removal of well pipe facilitated the removal of the casing, screen, and subsurface completion materials.

Following removal of well material, a cement-bentonite grout mixture was placed from the bottom to the top by pressure grouting with a positive displacement method (i.e., tremie grout where the grout was pumped from the bottom of the borehole upward). Grout was added until the borehole was filled to an approximately 6 inches below ground surface. Grouting activities at each well were completed on December 9, 2015. All materials generated during well abandonment activities (e.g., concrete, metal entry covers) were properly disposed of in accordance with all Laws and Regulations. Well abandonment logs for these 13 groundwater monitoring wells were provided to the Arkansas Water Well Construction Commission documenting that the wells installed were abandoned (Attachment A). Photographs documenting well abandonment activities are included in Attachment B.

The ground surface disturbed due to well abandonment activities was restored by placing an approximately 6-inch layer of topsoil to fill the remaining portion of the borehole. The area was then seeded by B&A Property Maintenance on December 9, 2015.

A groundwater monitoring well (TW-40-01) located on a private property at 40 North Starlite Road was not abandoned due to ongoing access agreement coordination with the property owner. This groundwater monitoring well will be abandoned by EMES when an access agreement is executed with the property owner. EMES will notify the ADEQ upon completion of the well abandonment activities at this property.

**Well Abandonment Completion Report  
North Starlite Road, Northwoods Subdivision  
Mayflower Pipeline Incident Response, Mayflower, Arkansas  
December 29, 2015**

**References**

- ADEQ. 2015. Monitoring Well Construction, Geotechnical Boreholes, And Plug & Abandonment Policy. Arkansas Department of Pollution Control and Ecology, Hazardous Waste Division. Policy # HWD-002. Accessed October 19, 2015. <http://www2.adeg.state.ar.us/hazwaste/>
- ARCADIS. 2015. Well Abandonment Plan, North Starlite Road, Northwoods Subdivision. Mayflower Pipeline Incident Response, Mayflower, Arkansas. October 29.

**Figures**

- 1 Site Location Map
- 2 Monitoring Well Location Map

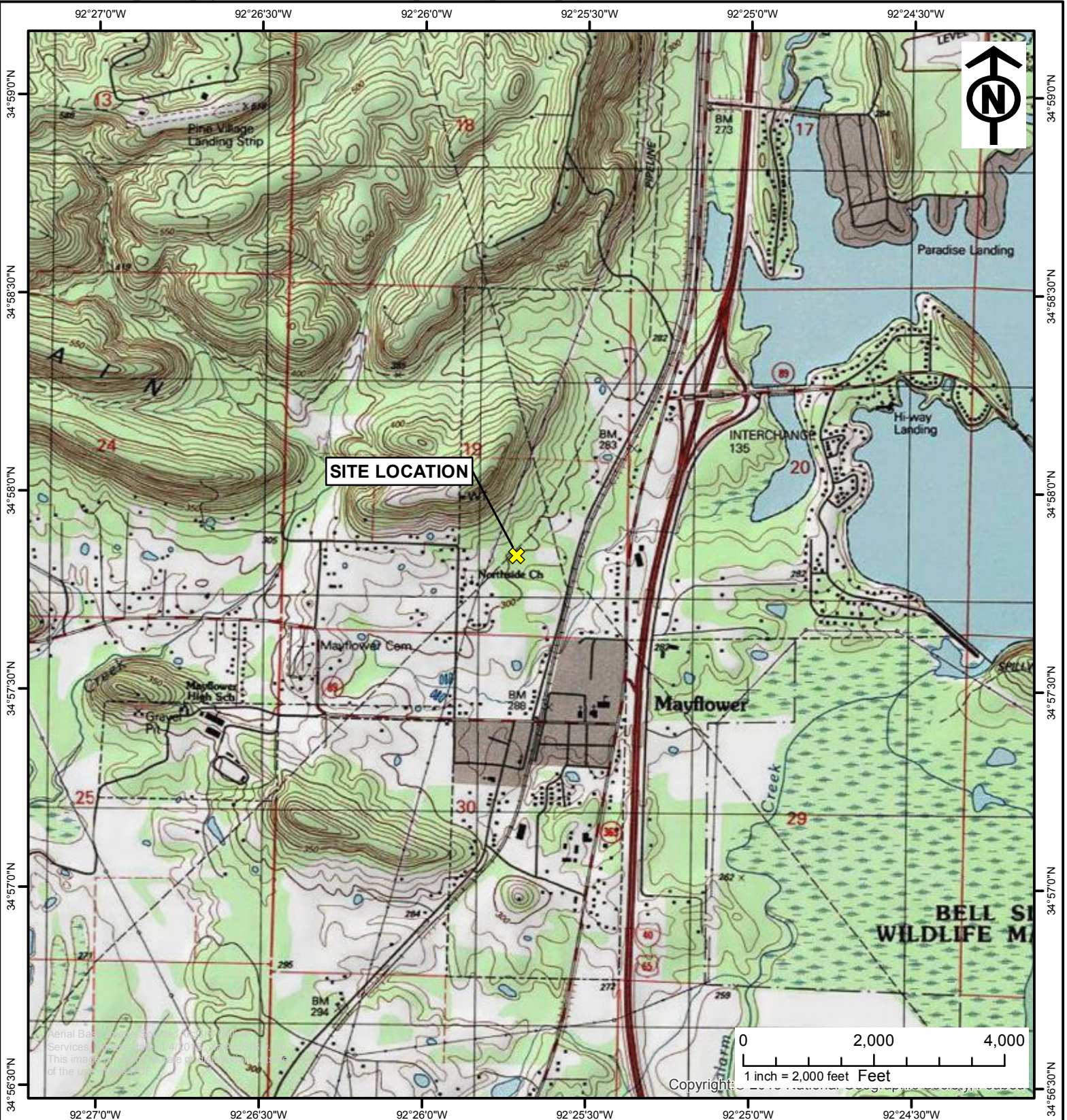
**Attachments**

- A Well Abandonment Logs
- B Photolog

# FIGURES







**LEGEND**

 Source Point

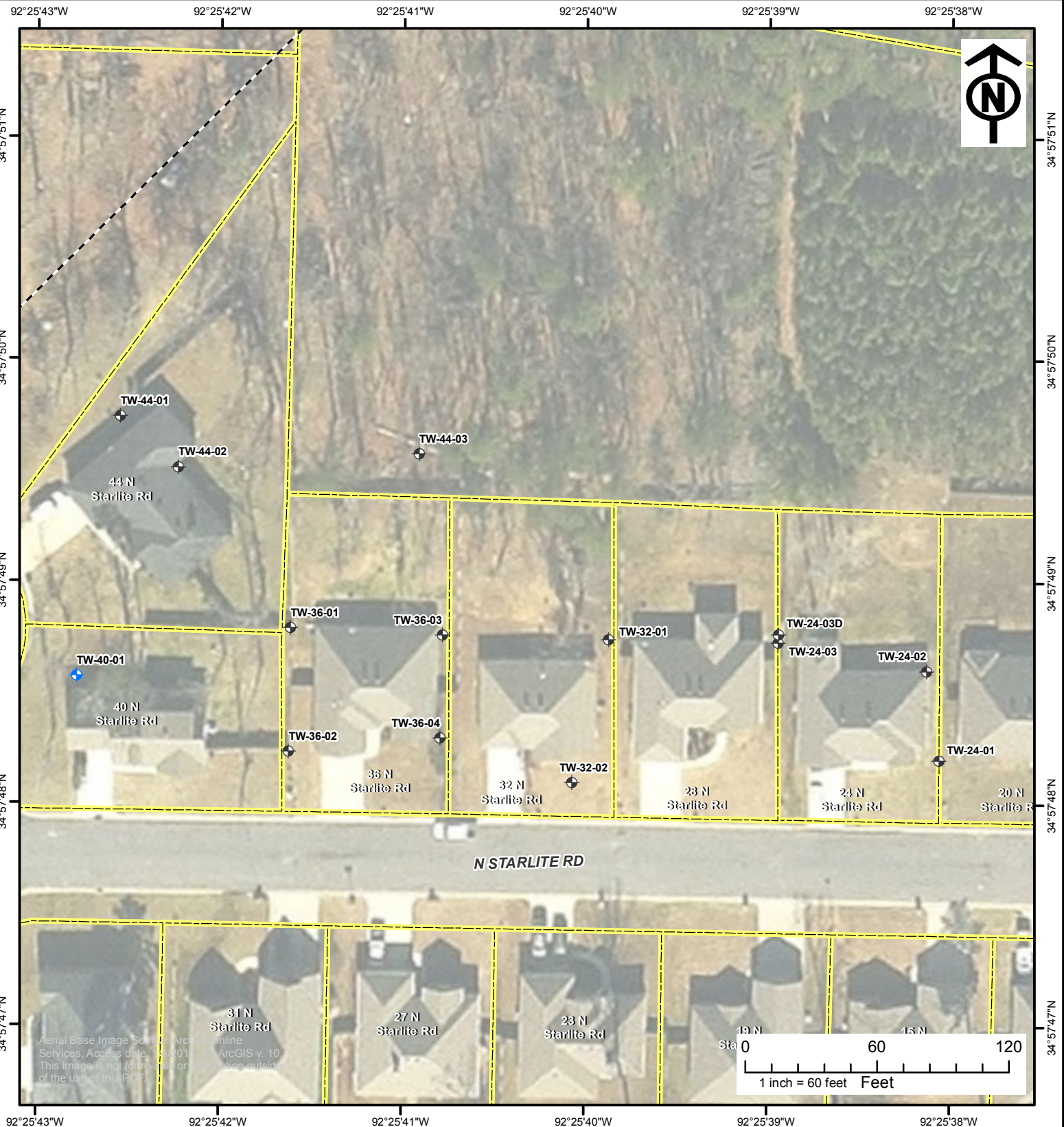
**EXXONMOBIL ENVIRONMENTAL SERVICES  
WELL ABANDONMENT COMPLETION REPORT  
N. STARLITE ROAD, MAYFLOWER, ARKANSAS**

**SITE LOCATION MAP**



**FIGURE  
1**





**LEGEND**

- ◆ Existing Groundwater Monitoring Well
- ◆ Abandoned Groundwater Monitoring Well
- - - Pipeline
- Parcel Boundary

**EXXONMOBIL ENVIRONMENTAL SERVICES  
 WELL ABANDONMENT COMPLETION REPORT  
 N. STARLITE ROAD, MAYFLOWER, ARKANSAS**

**MONITORING WELL  
 LOCATION MAP**

# ATTACHMENTS



# ATTACHMENT A

Well Abandonment Logs





# Arkansas Water Well Construction Commission



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Mike Beebe  
Governor

## Arkansas Water Well Abandonment Form

Contactor/Owner: McCray Drilling Registration #: 1193  
David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation Diagram: Sketch a diagram showing depths of well, formations, casing (if present), grouting materials &

1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963388° Longitude: -92.42724°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7' Diameter: 3/4 inch  
\_\_\_\_\_ inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>% Bentonite</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

TW - 24 - 01  
MW - 13  
See Attached MAP

7. Explain Method of Emplacement of Material:

Removed cover, and well material over pushed hole & trmie grouted hole with neat cement & Bentonite grout.





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David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation Diagram: Sketch a diagram showing depths of well, formations, casing (if present), grouting materials &

1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.9635° Longitude: -92.427259°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7' Diameter: 3/4 inch

\_\_\_\_\_ inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>9%</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

7. Explain Method of Emplacement of Material:

Removed cover, and well material over pushed hole & trmie grouted hole with neat cement & Bentonite grout.

TW-24-02  
MW-12  
See Attached Map



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## Arkansas Water Well Abandonment Form

Contactor/Owner: McCray Drilling Registration #: 1193

David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation Diagram: Sketch a diagram showing depths of well, formations, casing (if present), grouting materials &

1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963535° Longitude: -92.427485°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7 Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7 Diameter: 3/4 inch

\_\_\_\_\_ inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>9%</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

7. Explain Method of Emplacement of Material:

Removed cover, and well material over pushed hole & trmie grouted hole with neat cement & Bentonite grout.

TW-24-03  
MW-10  
See Attached  
MAP



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Contact/Owner: McCray Drilling Registration #: 1193  
David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation Diagram: Sketch a diagram showing depths of well, formations, casing (if present), grouting materials &

1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963545° Longitude: -92.427484°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 19' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 19' Diameter: 3/4 inch

\_\_\_\_\_ inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>19</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>9%</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

7. Explain Method of Emplacement of Material:

Removed cover, and well material over pushed hole & trmie grouted hole with neat cement & Bentonite grout.

TW-24-03D  
MW-11  
See Attached Map



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## Arkansas Water Well Abandonment Form

Contactor/Owner: McCray Drilling Registration #: 1193

David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation  
Diagram: Sketch a  
diagram showing depths  
of well, formations, casing  
(if present), grouting  
materials &

1. Well Location: (Show sketch of location on back of this form)  
placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963538° Longitude: -92.427742°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7' Diameter: 3/4 inch

- - inch

6. Sealing Material  
and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>9%</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

Bentonite

TW-32-01  
MW-9  
See Attached  
MAP

7. Explain Method of Emplacement of Material:

Removed cover, and well material over  
pushed hole & trmie grouted hole with  
neat cement & Bentonite grout.





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## Arkansas Water Well Abandonment Form

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David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation  
Diagram: Sketch a  
diagram showing depths  
of well, formations, casing  
(if present), grouting  
materials &

1. Well Location: (Show sketch of location on back of this form)  
placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.96336° Longitude: -92.427798°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7 Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7 Diameter: 3/4 inch

\_\_\_\_\_ inch

6. Sealing Material  
and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>%</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

Bentonite

TW-32-02  
MW-14  
See Attached  
Map

7. Explain Method of Emplacement of Material:

Removed cover, and well material over  
pushed hole & trmie grouted hole with  
neat cement & Bentonite grout.



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## Arkansas Water Well Abandonment Form

Contactor/Owner: McCray Drilling Registration #: 1193

David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation  
Diagram: Sketch a  
diagram showing depths  
of well, formations, casing  
(if present), grouting  
materials &

1. Well Location: (Show sketch of location on back of this form)  
placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963415° Longitude: -92.427998°

2. Owner and Address: Exxon Mobile Pipeline CO.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 18 Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 18 Diameter: 3/4 inch

\_\_\_\_\_ inch

6. Sealing Material  
and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>18</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>%</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

Bentonite

TW-36-01  
MW-5  
See Attached  
MAP

7. Explain Method of Emplacement of Material:

Removed cover, and well material over  
pushed hole & trmie grouted hole with  
neat cement & Bentonite grout.



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## Arkansas Water Well Abandonment Form

Contactor/Owner: McCray Drilling Registration #: 1193  
David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation Diagram: Sketch a diagram showing depths of well, formations, casing (if present), grouting materials &

1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963398° Longitude: -92.428228°

2. Owner and Address: Exxon Mobile Pipeline Co.  
800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7' Diameter: 3/4 inch  
\_\_\_\_\_ inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7'</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

*90% Bentonite*

7. Explain Method of Emplacement of Material:

Removed cover, and well material over pushed hole & trmie grouted hole with neat cement & Bentonite grout.

TW-36-02  
MW-6  
See Attached Map



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## Arkansas Water Well Abandonment Form

Contactor/Owner: McCray Drilling Registration #: 1193  
David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation  
Diagram: Sketch a  
diagram showing depths  
of well, formations, casing  
(if present), grouting  
materials &

1. Well Location: (Show sketch of location on back of this form)  
placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963544 Longitude: 92.427995

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-5774  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 22' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 22' Diameter: 3/4 inch  
\_\_\_\_\_ inch

6. Sealing Material  
and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>22</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>% Bentonite</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

TW-36-03  
MW-7  
See Attached  
Map

7. Explain Method of Emplacement of Material:

Removed cover, and well material over  
pushed hole & trmie grouted hole with  
neat cement & Bentonite grout.





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David McCray

Date: 12/09/2015 (MM/DD/YYYY)

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1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963415° Longitude: -92.427998

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 22' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 22' Diameter: 3/4 inch

\_\_\_\_\_ inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>22</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>9%</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

TW-36-04  
MW-8  
  
See Attached Map

7. Explain Method of Emplacement of Material:

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David McCray

Date: 12/09/2015 (MM/DD/YYYY)

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1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963816° Longitude: -92.428484°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 18 Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 18 Diameter: 3/4 inch

- - inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>18</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>90</u> Yards of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

Bentonite

7. Explain Method of Emplacement of Material:

Removed cover, and well material over pushed hole & trmie grouted hole with neat cement & Bentonite grout.

TW-44-01  
MW-4

See Attached  
MAP



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David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation  
Diagram: Sketch a  
diagram showing depths  
of well, formations, casing  
(if present), grouting  
materials &

1. Well Location: (Show sketch of location on back of this form)  
placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.963753° Longitude: -92.428397°

2. Owner and Address: Exxon Mobile Pipeline Co.

800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7' Diameter: 3/4 inch

\_\_\_\_\_ inch

6. Sealing Material  
and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>90</u> % of Sand: Bentonite	_____	_____	<u>6</u>	From _____ ft; To _____ ft

TW-44-02  
MW-2  
See Attached  
MAP

7. Explain Method of Emplacement of Material:

Removed cover, and well material over  
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neat cement & Bentonite grout.



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Contactor/Owner: McCray Drilling Registration #: 1193  
David McCray

Date: 12/09/2015 (MM/DD/YYYY)

\* Well & Formation Diagram: Sketch a diagram showing depths of well, formations, casing (if present), grouting materials &

1. Well Location: (Show sketch of location on back of this form) placement, etc.

County: Faulkner

Township Range Section (if available)

\_\_\_\_\_ 1/4 \_\_\_\_\_ 1/4

Latitude: 34.96377° Longitude: 92.428032°

2. Owner and Address: Exxon Mobile Pipeline Co.  
800 Bell Street, PL-EMB-577L  
Houston, TX. 77002

3. Use of Well: Monitoring

4. Depth of Well: 7' Diameter of Well: 3/4 inch

5. Amount of Casing Removed: 7' Diameter: 3/4 inch  
\_\_\_\_\_ inch

6. Sealing Material and Placement:

	Neat Cement	Sand Cement	Other	Placement
Bags (94 lb):	_____	_____	<u>1</u>	From <u>0</u> ft; To <u>7</u> ft
Gals of Water:	_____	_____	<u>6</u>	From _____ ft; To _____ ft
<u>90</u> % Bentonite of Sand:	_____	_____	<u>6</u>	From _____ ft; To _____ ft

7. Explain Method of Emplacement of Material:

Removed cover, and well material over pushed hole & trmie grouted hole with neat cement & Bentonite grout.

TW-44-03  
MW-3  
See Attached  
MAP



# ATTACHMENT B

Photolog





**Well ID:** TW-44-01  
**Date:** 12/07/2015  
**Description:** Removal of concrete well pad.



**Well ID:** TW-24-01  
**Date:** 12/07/2015  
**Description:** Removal of concrete well pad and well pipe.



**Well ID:** TW-36-03  
**Date:** 12/08/2015  
**Description:** Overdrilling activities.

EXXONMOBIL ENVIRONMENTAL SERVICES  
WELL ABANDONMENT COMPLETION REPORT  
N. STARLITE ROAD, MAYFLOWER, ARKANSAS

**WELL ABANDONMENT**



FIGURE  
B-1





**Well ID:** TW-36-03  
**Date:** 12/09/2015  
**Description:** Grouting activities.



**Well ID:** TW-24-02  
**Date:** 12/09/2015  
**Description:** Grouted well location.



**Well ID:** TW-44-03  
**Date:** 12/09/2015  
**Description:** Grading activities at a former well location.

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**WELL GROUTING AND SURFACE GRADING**



FIGURE  
B-2