

**STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION**

**APPLICATION OF MATADOR
PRODUCTION COMPANY FOR
COMPULSORY POOLING, LEA
COUNTY, NEW MEXICO**

CASE NO. 22500

NOTICE OF SUPPLEMENTAL EXHIBITS

Matador Production Company provides notice that it is supplementing the evidentiary record in this case by submitting the attached geology affidavit and exhibits as Exhibits F through F-3.

Respectfully submitted,

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CERTIFICATE OF SERVICE

I hereby certify that on April 5, 2022, I served a copy of the foregoing document to the following counsel of record via Electronic Mail to:

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**BEFORE THE OIL CONSERVATION DIVISION
EXAMINER HEARING APRIL 7, 2022**

CASE No. 22500

MONIKA 14-17-S-37E #1 WELL

LEA COUNTY, NEW MEXICO



**STATE OF NEW MEXICO
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES
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**APPLICATION OF MATADOR PRODUCTION
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LEA COUNTY, NEW MEXICO.**

CASE NO. 22500

AFFIDAVIT OF ANDREW PARKER

Andrew Parker, of lawful age and being first duly sworn, declares as follows:

1. My name is Andrew Parker. I work for MRC Energy Company, an affiliate of Matador Production Company (“Matador”), as a Vice President of Geology.
2. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology. My credentials as a petroleum geologist have been accepted by the Division and made a matter of record.
3. I am familiar with the application filed by Matador in this case, and I have conducted a geologic study of the lands in the subject area.
4. **Matador Exhibit F-1** is a locator map identifying the location of the proposed spacing unit within Section 14, Township 17 South, Range 37 East, Lea County, New Mexico. A red box identifies the general area where the spacing unit, which is depicted by a yellow rectangle, is located.
5. **Matador Exhibit F-2** is a subsea structure map that I prepared off the top of the Strawn formation. The contour interval is 50 feet. The proposed spacing unit is depicted as a yellow box with a black outline. The proposed bottom-hole location for the Monika 14-17S-37E #001 well is identified with a red dot. The structure map shows the Strawn formation is relatively flat across the area of the spacing unit but on a regional scale gently dips to the east. The structure

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appears consistent across the spacing unit. I do not observe any faulting, pinchouts, or other geologic impediments to drilling in this acreage or at the proposed location.

6. **Matador Exhibit F-3** is a structural cross-section that I prepared displaying open-hole logs run over the Strawn formation from the four representative wells denoted from A to A'. For each well in the cross-section, the following logs are included: gamma ray, resistivity, and porosity. The top and bottom of the targeted Strawn formation are marked and depicted with a black line running across the cross-section. The proposed target interval is labeled and marked from the top to the base of the Strawn formation as depicted in the representation of the Monika 14-17S-37E #001 well in the middle of the cross-section. At the time the well is completed, Matador may choose to selectively complete only a portion of this vertical interval.

7. Matador has identified a discrete reservoir in the spacing unit that it expects will be prospective. The take points for Monika 14-17S-37E #001 well are located where Matador believes it can most effectively and efficiently drain the reservoir it has identified within this spacing unit. In my opinion, the proposed location is necessary to prevent waste and protect correlative rights.

8. In my opinion, the proposed vertical well is the most efficient way to develop this acreage, to prevent the drilling of unnecessary wells, and to result in the greatest ultimate recovery.

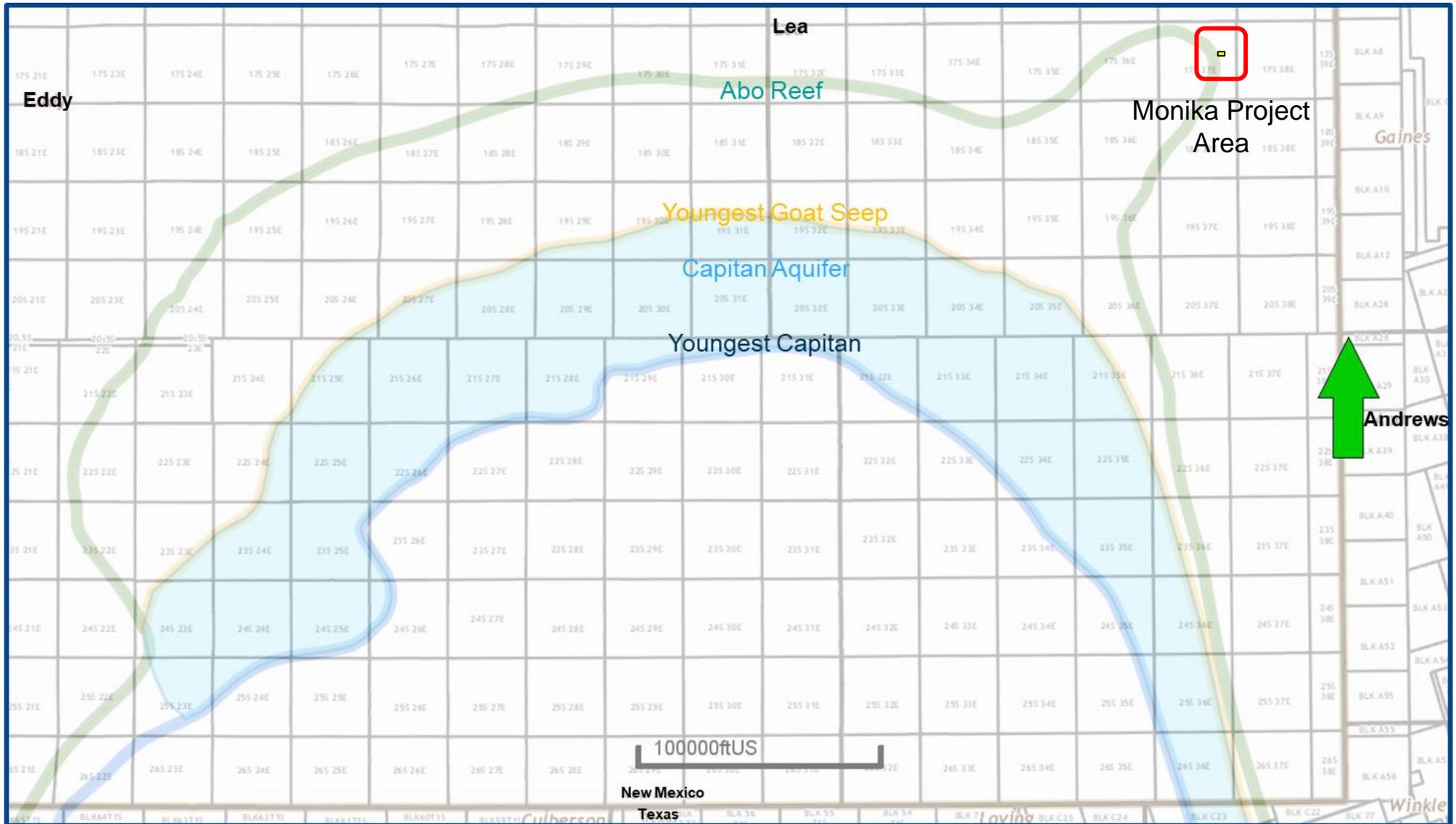
9. Approving Matador's application will be in the best interest of conservation, the prevention of waste, and protection of correlative rights.

10. **Matador Exhibits F-1 through F-3** were either prepared by me or compiled under my direction and supervision.

FURTHER AFFIANT SAYETH NOT.

Locator Map

Exhibit F-1



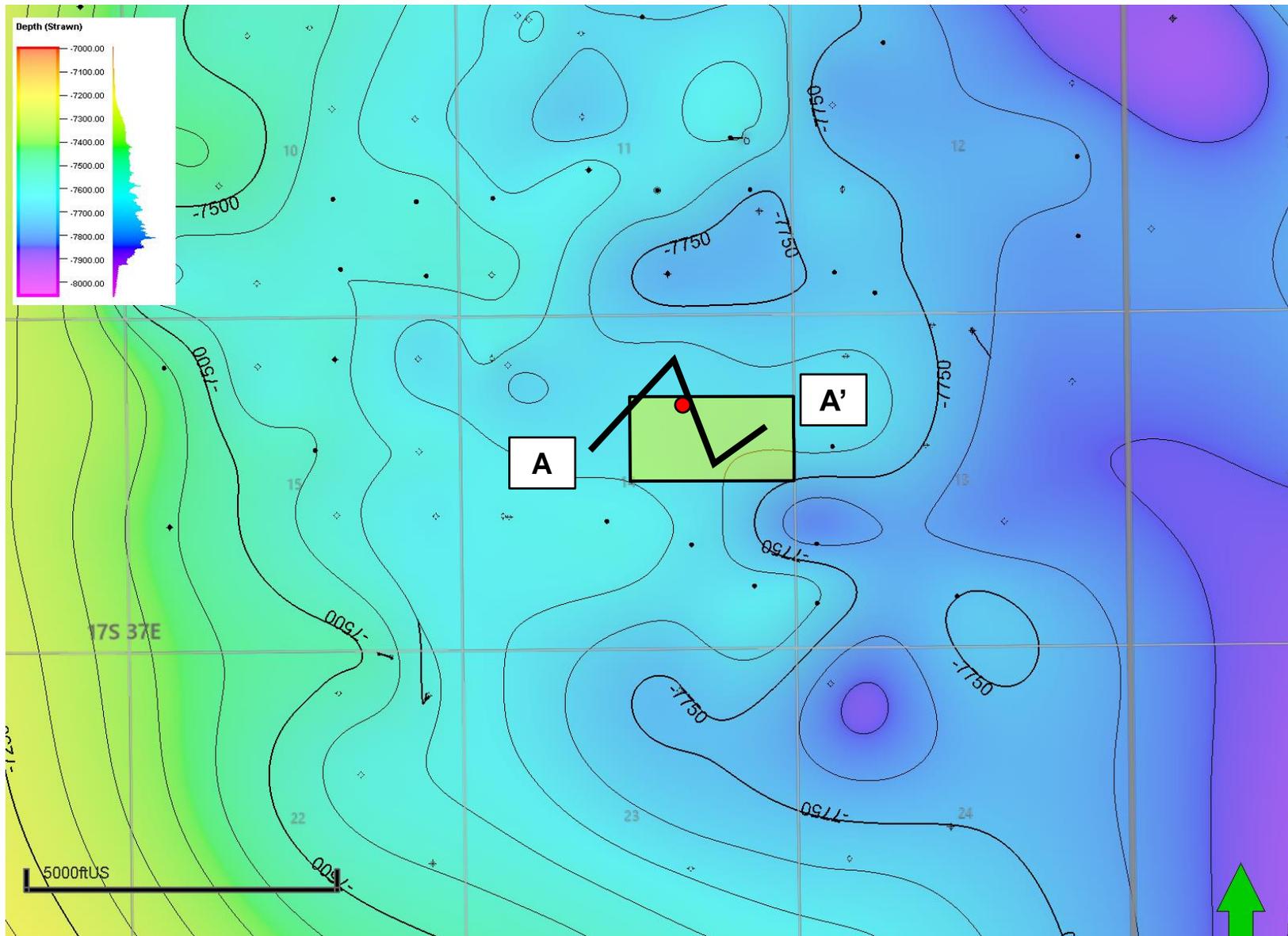
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F-1

Humble City; Strawn (Pool Code 33490) Structure Map (Top Strawn Subsea) A – A' Reference Line

Exhibit F-2



Map Legend

Monika #001



Project Areas

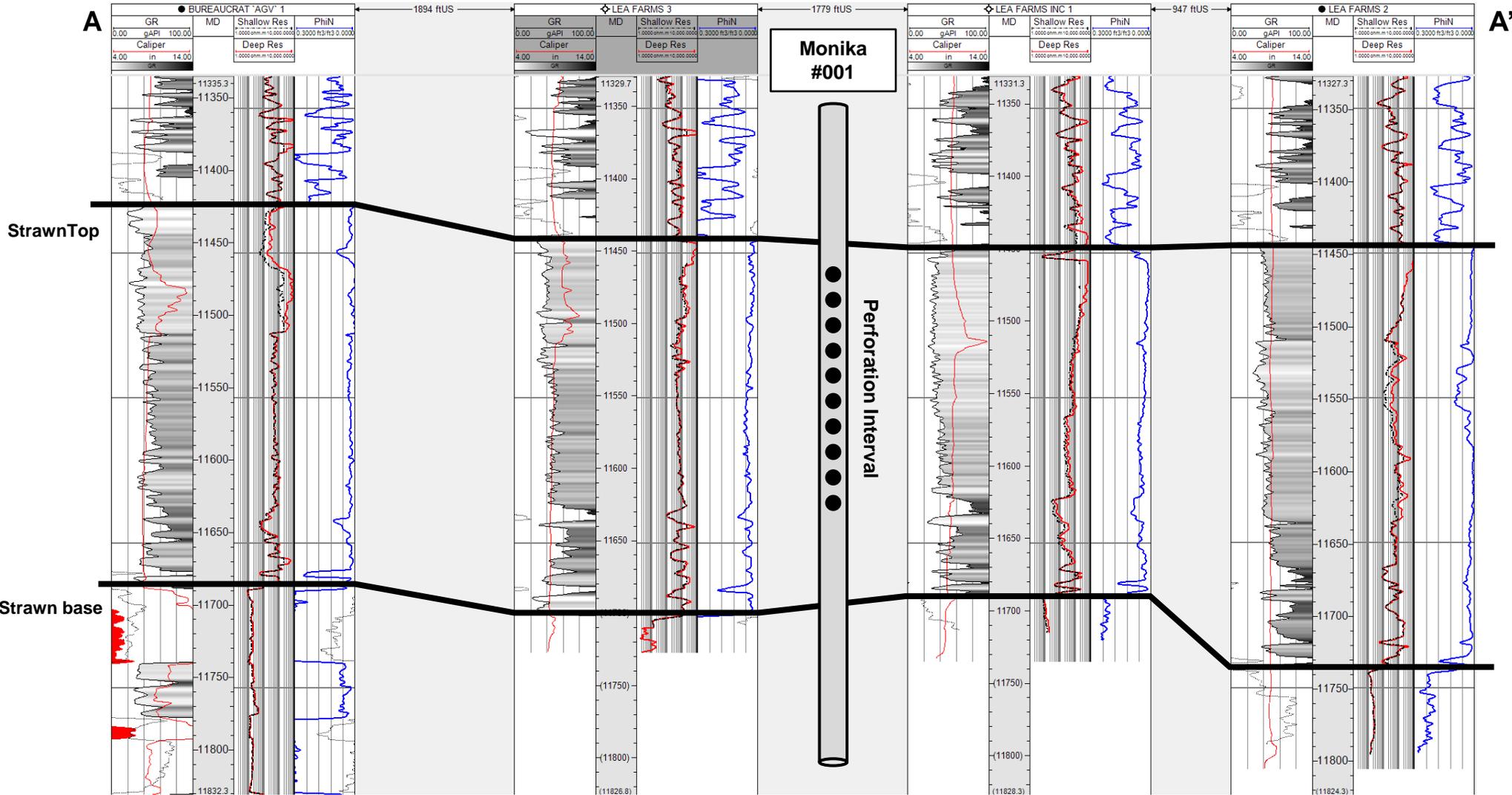


C. I. = 50'

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Humble City; Strawn (Pool Code 33490) Structural Cross-Section A – A'

Exhibit F-3



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