

**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383**

TYPE I PERMIT APPLICATION

**PART II
EXISTING CONDITIONS AND
CHARACTER OF THE FACILITY AND SURROUNDING AREA**

Prepared for

130 ENVIRONMENTAL PARK, LLC

Technically Complete October 28, 2014

Revised March 2015



Biggs & Mathews, Inc.
Firm Registration No. F-834

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL

1700 Robert Road, Suite 100 ♦ Mansfield, Texas 76063 ♦ 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-256

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

And

BIGGS & MATHEWS, INC.

2500 Brook Avenue ♦ Wichita Falls, Texas 76301 ♦ 940-766-0156

TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-834



Biggs & Mathews, Inc.
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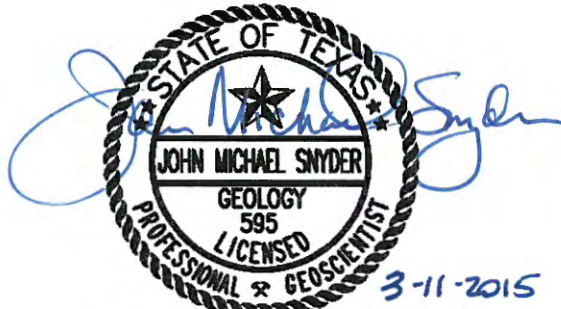
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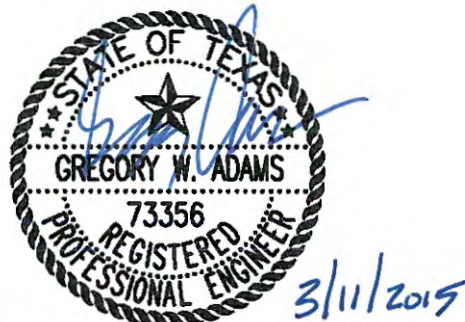
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For Sections 8. 1, 10.1, 10.2, 10.3, 10.4, 10.5, 11.1, 11.2, 12.1, 12.2.



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For Section 10.6.

No solid waste disposal shall occur within 25 feet of the center line of any utility line or pipeline easement, but no closer than the easement, unless otherwise authorized by the executive director. All pipeline and utility easements shall be clearly marked with posts that extend at least six feet above ground level, spaced at intervals no greater than 300 feet. There are no pipeline, utility, or other easements that will affect solid waste unloading, storage, disposal or processing operations: refer to Appendix IIA, Drawing IIA.12 – Facility Site Plan.

The buffer zone distances between the facility boundary and landfill footprint exceeds the minimum distance of 125 feet. Buffer zone distances vary along the facility boundary. The buffer distances from the facility boundary to the landfill footprint are shown on Drawing IIA.12 – Facility Site Plan.

The buffer zone distance for waste storage or processing operational activities exceeds the minimum distance of 125 feet. Buffer zone distances vary to each storage or processing facility. The buffer distances from the facility boundary to these facilities are shown on Drawing IIA.12 – Facility Site Plan.

Refer to Appendix IIK – Location Restriction Certifications for the certification statement that 130 Environmental Park meets the requirements of §330.543.

1.2 Site Specific Conditions

A detailed discussion of site-specific conditions that potentially require special design considerations as set forth in §330.61(a), including impact on surrounding area, transportation, geology, soils, groundwater, surface water, abandoned oil and water wells, floodplains, wetlands, endangered or threatened species, and Texas Historical Commission review is included in Sections 8 through 15 of Part II. As documented, there are no existing site-specific conditions that require special design considerations or possible mitigation of conditions.

8 IMPACT ON SURROUNDING AREA

30 TAC §330.61(h)

Consistent with §330.61(h), a land use analysis of the area surrounding the facility was conducted by John Worrall Consulting LLC. Refer to Appendix IIB – Land Use Analysis for a detailed land use analysis and discussion regarding impacts of the facility. The land use analysis addresses zoning within two miles of the facility, character of surrounding land uses within one mile of the facility, growth trends within five miles of the facility, proximity to residences and other uses within one mile of the facility.

8.1 Wells Within 500 Feet

Consistent with §330.61(h)(5), a description of known wells within 500 feet of the facility has been prepared. A water well search was conducted to identify known water wells within a 500-foot radius of the proposed facility boundary.

The water well search included a review of the interactive map and well records available on the Texas Water Development Board (TWDB) website www.twdb.state.tx.us in the Water Information Integration and Dissemination (WIID) ArcIMS mapping application. The Texas Commission on Environmental Quality (TCEQ) website www.tceq.state.tx.us and the Plum Creek Conservation District website www.pccd.org were also reviewed for water well records. The U.S. Geological Society database (URL: maps.waterdata.usgs.gov/mapper/) was checked for groundwater sites on which it collects data that might be in the vicinity but no additional wells were found. The TCEQ Water Utility Database (www.tceq.state.tx.us/permitting/-water_supply/ud-/iwud.html) was also consulted to determine if there were any public water utility wells in the area.

An attempt was also made to locate wells visible from nearby roads and streets and confirm water well locations. Within the 500-foot radius, no obvious water well production equipment, such as well houses, pump handles, windmills, or pressure tanks were identified from the street. However, any residence in this area may have a water well associated with it, especially where no public water supply is available.

An oil and gas well search of state records was conducted in June 2013 to identify any oil and gas wells on the site and within 500 feet of the facility boundary. The search included a review of records and maps on file at the Texas Railroad Commission (www.rrc.state.tx.us). Consistent with §330.61(h)(5) three dry holes have been drilled within 500 feet of the facility boundary. Of those, one is within the facility boundary but outside the footprint; the RRC plugging records for this dry hole are included in Attachment E, Appendix E4, pages E4-6 through E4-10. There are no producing oil or gas wells located within 500 feet of the facility boundary, as shown on Drawing IIA.5 – Locations of Oil and Gas Wells. If any abandoned crude oil or natural gas wells or other wells associated with mineral recovery are located during facility development they will be handled as described in Section 12.2 – Oil & Gas wells of this narrative.

12 ABANDONED OIL AND WATER WELLS

30 TAC §330.61(I)

12.1 Water Wells

As described in Section 8.1 of this narrative, there are no known existing or abandoned water wells within the facility boundary of the 130 Environmental Park.

Should any unknown abandoned water wells be identified within the facility boundary, 130 Environmental Park, LLC will provide written notification to the TCEQ executive director of their location. Within 30 days prior to construction, a written certification will be submitted that all such found wells have been capped, plugged, and closed in accordance with all applicable rules and regulations of the commission or any other regulatory agency requiring notification.

12.2 Oil and Gas Wells

There is one plugged dry hole location within the facility boundary but outside the proposed waste footprint (see Drawing IIA.5).

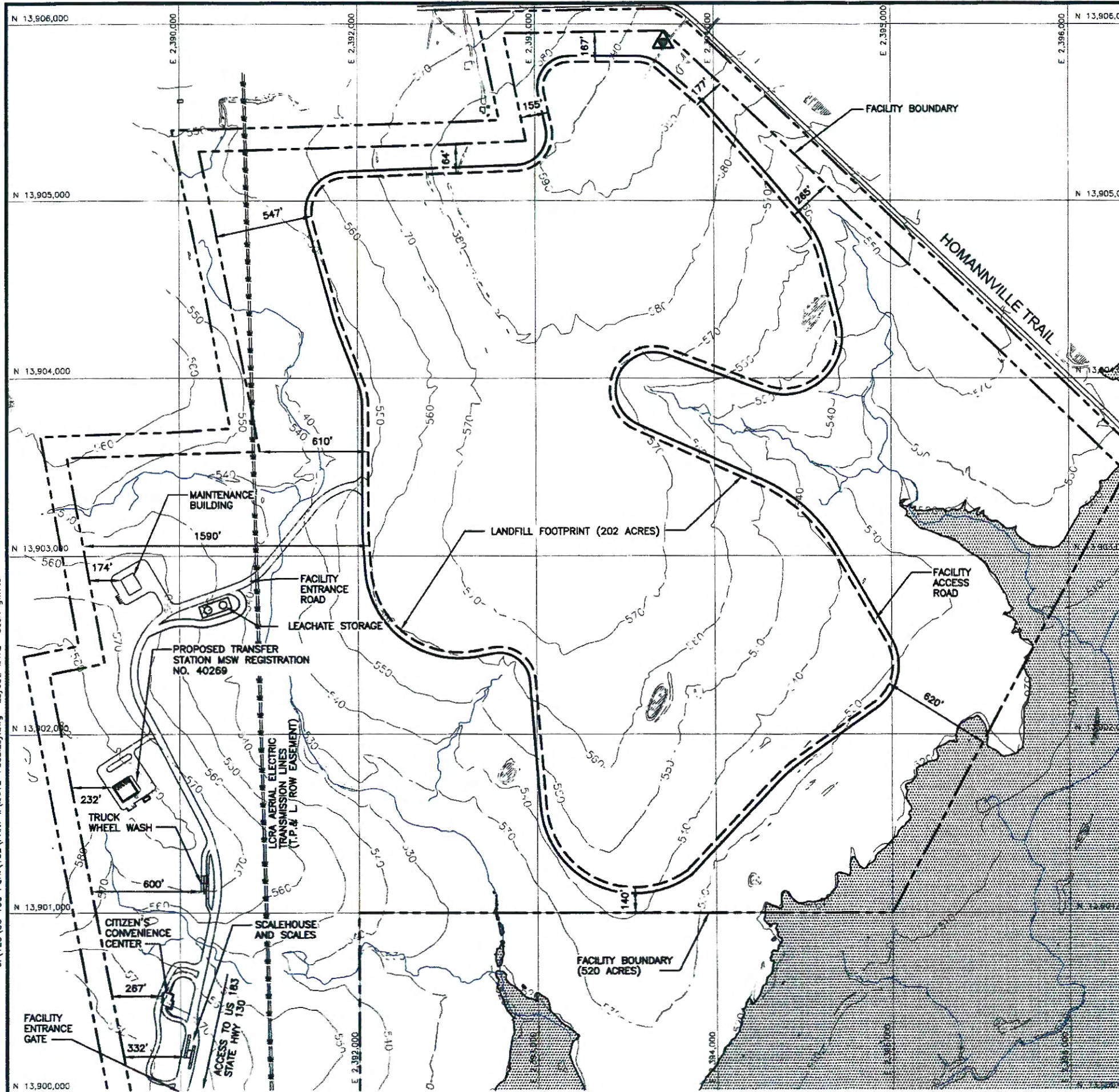
If any abandoned crude oil or natural gas wells or other wells associated with mineral recovery are located within the permit boundary during site development, the site operator will provide the executive director of the TCEQ with written certification that all such wells have been properly capped, plugged, and closed in accordance with all applicable rules and regulations of the Railroad Commission of Texas. A copy of the well plugging report to be submitted to the appropriate state agency will also be submitted to the executive director of the TCEQ within 30 days after the well has been plugged. In accordance with 30 TAC §330.61(I)(2), any producing crude oil or natural gas well that does not affect or hamper landfill operations may be installed or remain in its current state if identified in the permit for the landfill or identified in a written notification to the executive director.

130 ENVIRONMENTAL PARK

**APPENDIX IIA
MAPS AND DRAWINGS**

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- LEGEND**
- PROPERTY BOUNDARY
 - FACILITY BOUNDARY
 - LANDFILL FOOTPRINT
 - ▲ SITE BENCHMARK
 - 510 EXISTING 10' CONTOUR
 - N 6753000 STATE PLANE GRID
 - STREAM CENTERLINE
 - ▨ P.C.C.D. INUNDATION AREA



- NOTES:**
- CONTOURS AND ELEVATIONS PROVIDED BY DALLAS AERIAL SERVICE FROM AERIAL PHOTOGRAPHY FLOWN MAY 13, 2013. HORIZONTAL DATUM IS TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE (NAD 83). ELEVATIONS ARE RELATIVE TO NAVD88 - GEOID 12A.
 - PROPERTY BOUNDARY, FACILITY BOUNDARY, T.P. & L. EASEMENT LOCATION, AND PERMANENT BENCHMARK PROVIDED BY HODDE & HODDE LAND SURVEYING, INC.
 - PERMANENT BENCHMARK INFORMATION:
 COORDINATES (NAD 83): N 13905896.44
 E 2393722.33
 LATITUDE: N 29°58'43.75"
 LONGITUDE: W 97°39'24.76"
 ELEVATION: 592.37 FT-MSL
 - ACCESS CONTROL WILL BE PROVIDED BY FENCE ALONG FACILITY BOUNDARY. SITE ENTRANCE WILL BE GATED.
 - BUFFER DISTANCES VARY ALONG FACILITY BOUNDARY AS SHOWN. MINIMUM BUFFER DISTANCE IS 140 FEET.
 - THERE ARE NO DRAINAGE, PIPELINE, OR UTILITY EASEMENTS THAT WILL AFFECT SOIL WASTE UNLOADING, STORAGE, PROCESSING, OR DISPOSAL.
 - REFER TO DRAWING IIA.13 FOR CONSTRUCTION AND FILLING SEQUENCE.
 - REFER TO DRAWING IIA.14 FOR GROUNDWATER AND LANDFILL GAS MONITORING LOCATIONS.
 - INUNDATION AREA PER P.C.C.D. (PLUM CREEK CONSERVATION DISTRICT) EASEMENT BASED ON P.C.C.D. GIS MAPPING AUGUST, 2014.



ISSUED FOR PERMITTING PURPOSES ONLY

REVISIONS					TYPE FIRM NO. F-256		TYPE FIRM NO. 50222		DRAWING	
REV	DATE	DESCRIPTION	DRN BY	DES BY	CHK BY	APP BY	CHK.	KDM	DSN.	KDM
1	10/28/14	TECHNICAL COMPLETE	GLW	KDM	KDM	KDM	DWN.	GLW	DATE :	8/13
									SCALE :	GRAPHIC
									DWG :	IIA.12-FacSite.dwg

FACILITY SITE PLAN

130 ENVIRONMENTAL PARK, LLC
130 ENVIRONMENTAL PARK
TYPE I PERMIT APPLICATION

BIGGS & MATHEWS
 ENVIRONMENTAL
 CONSULTING ENGINEERS
 MANSFIELD • WICHITA FALLS
 817-563-1144

IIA.12

**130 ENVIRONMENTAL PARK
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VOLUME 4 OF 5

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130 ENVIRONMENTAL PARK, LLC

Technically Complete October 28, 2014

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[Handwritten signature]
3/11/15

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL

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**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
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TYPE I PERMIT APPLICATION

VOLUME 4 OF 5

CONTENTS

PART III FACILITY INVESTIGATION AND DESIGN

Attachment E – Geology Report

Attachment F – Groundwater Sampling and Analysis Plan



Biggs & Mathews, Inc.
Firm Registration No. F-834

K.D. Maroney
3/11/15

**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383**

TYPE I PERMIT APPLICATION

PART III – FACILITY INVESTIGATION AND DESIGN

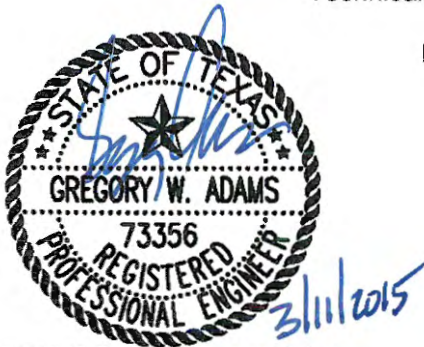
**ATTACHMENT E
GEOLOGY REPORT**

Prepared for

130 ENVIRONMENTAL PARK, LLC

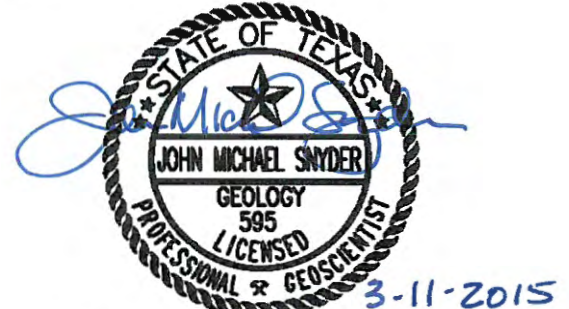
Technically Complete October 28, 2014

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Biggs & Mathews Environmental, Inc.
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Sections 2.3, 5.1, and 5.2



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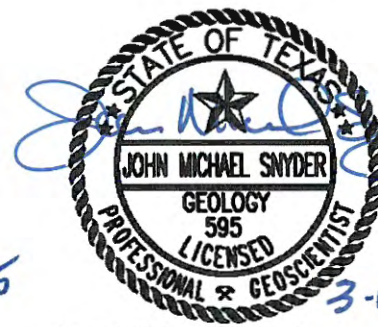
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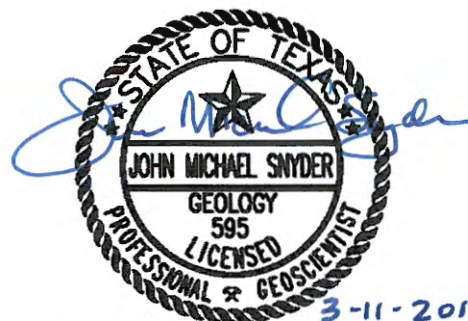
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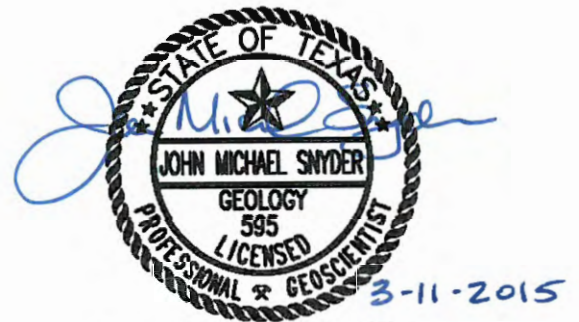
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APPENDIX E4

FAULT AND SEISMIC DATA

Seismic Impact Zone Map
Locations of Oil and Gas Wells
RRC Records for Dry Hole

E4-1
E4-2
E4-3 through E4-10



Biggs & Mathews Environmental, Inc.
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Technically Complete October 28, 2014

26528

AFFIDAVIT ON FILE TO ABANDON WELL

RECEIVED

JUN 9 1964

STATE OF TEXAS

COUNTY OF Caldwell

SS

CS-053033

I, J.A. Hanger, being of lawful age and having

full knowledge of the facts hereinbelow set out, do state:

That I am an employee of Halliburton Company, of Duncan, Oklahoma, employed as a "Cementer", and as such employee am engaged in the operation of the Halliburton Company's equipment employed in the cementing of wells being drilled for oil and/or gas;

That on the 6th day of June, 1964, I operated the aforesaid cementing equipment under the direction, supervision and control of M.M. Kinley in the pumping of cement into said (customer) Well Number 1 situated on the Moore Lease in Caldwell County, Texas, which, according to the customer was for the purpose of plugging and abandoning said well;

That according to the information furnished me by the customer, his agent or representative, a cement plug was placed in said well from

300 depth to the 250 depth
112 depth to the 90 depth
depth to the _____ depth

AFFIANT:

J.A. Hanger
Halliburton Company employee

STATE OF TEXAS

COUNTY OF Caldwell

SS

BEFORE ME, the undersigned authority, on this day personally appeared J.A. Hanger, known to me to be the person whose name is subscribed to this statement; who, after being duly sworn upon oath states: That to the best of his knowledge and belief the facts as recited above are true and correct.

Given under my hand and seal this 6th day of June, 1964.

(Notary Seal)

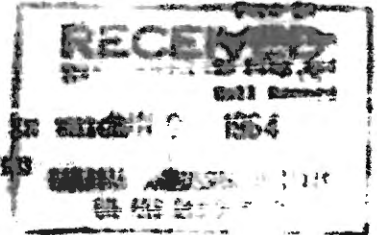
NOTARY PUBLIC
J.A. HANGER

J.A. Hanger, in my presence
Caldwell County, Texas

21528

Form No. 1
 1-1-10-10

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION



FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN WHICH WELL IS LOCATED FIVE FULL DAYS PRIOR TO PLUGGING

Company M.M. Kinley Address Box 990 Lockhart, Texas
 Sec. No. _____ Block No. _____ Survey Irma Jackson County Caldwell
 Well No. 1 Name of Lease W.D. Moore Jr No. of Acres 9.3 Elev. _____
 Name of Field in which well is located Wildcat
 Located 8 Miles N.E. Direction from Lockhart, Texas (Nearest P. O. or Town)
 Form 1, "Notice of Intention to Drill," was filed in name of M.M. Kinley
 Drilling Commenced 5-31 19 64 Drilling Completed 6-6 19 64
 Has this well ever produced Oil? Dry or Gas? Dry
 Character of Well (Oil, Gas or Dry) Dry Total Depth 1760
 Date you wish to Plug 6-6 19 64
 Name of Party Plugging Well Halliburton Cementing Address Gallego, Texas
 Correspondence regarding this well should be sent to: Name J.E. Edwards
 Address P.O. Box 990, Lockhart, Texas
 Initial Production of Gas: Volume (MCF) _____ 24 hrs. Pressure _____ lbs. per square inch
 Initial Production of Oil: Barrels None (Dry Hole)

Give notice before Plugging to all available Lease Owners, as required by Rule (10).

When Plugging completed, file final Plugging Report, duly signed and sworn to. All necessary forms will be furnished by the Deputy Supervisor of district in which well is located.

NOTE: If no log available, so state and give all information that can be obtained to as total depth, character of formation, producing formation, water sands, and as near as possible date well was drilled.

General Remarks: No showing of Oil, Gas, or Water, All formation dry.

WELL NUMBER
 100

JUN 11 1964

FILE FOR RECORDATION AND AFFIDAVIT ON REVERSE SIDE
 1000000

26528

RECEIVED

RAILROAD COMMISSION OF TEXAS

JUN 9 1964

Please Refer to
File No. _____

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

FILE IN DUPLICATE WITH DEPUTY SUPERVISOR OF DISTRICT IN CHARGE

Company M.M. Kinley Address P.O. Box 500, Jackman, Texas

Sec. No. _____ Block No. _____ Survey Lease Jackson County Goldwell

Well No. 1 Name of Lease W.D. Moore, Jr No. of Acres 9.3

Name of Field in which well is located Wildcat Date well was plugged 6-6 19 64

Form 1 (Notice of Intention to Drill) Was Filed in Name of M.M. Kinley

Character of Well at the time of completion: Oil Dry bbls; Gas Dry Cu. Ft.; Yes
(Initial Production) (Initial Production)

Amount well producing when plugged: Oil None bbls; Gas None Cu. Ft.; Water None bbls.

Was this well ever produced oil or gas? No

Total Depth 1760 feet. Top of each producing sand Dry feet.

Was the well filled with mud-laden fluid, according to regulations of the Railroad Commission? Yes

Pumped

How was mud applied? _____

Were plugs used? _____ If so, show all shoulders left for casing, depth of each, and size of casing, size and kind of plugs used, and depth plugged. Also amount of cement and rock. Yes

Hole was cemented from 3' up in surface casing to 112' cemented from 250' to 300' in open hole by Halliburton Cementing Company

SIZE PIPE	PUT IN WELL		PULLED OUT		LEFT IN WELL		PACKERS AND GRIPS
	Pl.	In.	Pl.	In.	Pl.	In.	
<u>1 5/8"</u>	<u>93</u>				<u>93</u>		<u>None</u>

Show depth found and thickness of all water, oil and gas formations Dry hole

Have all abandoned wells on this lease been plugged according to Commission rules? _____

Manner of confining all oil, gas or water to strata: _____

The names of adjacent lease, royalty and landowners with their addresses in each instance as follows: _____

Wildcat location. Drilled as dry hole. Verbal permission was given by Railroad Commission to plug as dry hole.

Was notice given before plugging to all available adjacent lease owners as required by Rule 10? _____

I, E.F. Edwards, being first duly sworn on oath, state that I have knowledge of the facts and the matter herein set forth and that the same are true and correct.

Subscribed and sworn to before me this 6th day of June 19 64
E.F. Edwards Title Owner

Subscribed and sworn to before me this 6th day of June 19 64

666111 NRC

Thane Butler
Notary Public Goldwell County, Texas

Correspondence regarding this well should be addressed to:

care E.F. Edwards Address P.O. Box 500, Jackman, Texas

~~CONFIDENTIAL~~ ~~ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED~~ ~~DATE 10-10-2001 BY 60322 UCBAW~~ ~~EXCEPT WHERE SHOWN OTHERWISE~~

Method of shutting off water. **Dry Hole** Is water completely shut off?
Amount of water with oil per cent.

I, **R. F. Edwards**
being first duly sworn on oath state that I have knowledge of the facts and matter herein set forth and that the same are true
and correct.

Notary Public
County, Texas

26528

Instructions to Drill
Operator - Page One

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

Form 1
Rev. 4/62

STATE WHETHER THIS IS AN APPLICATION TO DRILL, DRIFT OR PLUG BACK DRILL
SHALL BE FILED IN DUPLICATE (ON TRIPLICATE IF RULE 59) WITH THE OIL AND GAS DIVISION OF THE RAILROAD COMMISSION OF TEXAS. DATA FURNISHED ON THIS FORM AND ANY ATTACHMENT HEREON MUST BE CLEARLY LEGIBLE.
ANY ILLEGIBLE FORM WILL BE RETURNED WITHOUT CONSIDERATION ACTION.
(Black Ink or Black Typewriter Ribbon Preferred)

READ CAREFULLY AND
COMPLY FULLY

ELS

It is to be noted that it may be ascertained whether or not the proposed location covered by this notice conforms to the applicable drilling regulations set down by the Railroad Commission, Texas, as two important footages that must be shown; that is, THE NEAREST DISTANCE OF PROPOSED LOCATION FROM LEASE OR PROPERTY LINE AND DISTANCE OF PROPOSED LOCATION FROM THE NEAREST WELL ON THE SAME LEASE. Do not begin drilling operations on any location prior to filing Form 1 and until permit granted by the Commission has been received and waiting clause period has terminated.

For the purpose of this determination draw on the back side hereof a neat, accurate sketch, made to scale, to this lease, block, or lot locating thereon the proposed site for this location with reference to the two nearest lease lines. Also show the nearest wells on all sides of this lease and the distance from the proposed location to these wells. In addition to the foregoing, unit boundary designations must be shown for each producing well on the lease and that the proposed unit boundaries for the location herein applied for showing the acreage to be assigned this well. Give names and addresses of adjoining lease or property owners, and designate all property by lease and company name. You may attach a blue print showing this information if you so desire.

DO NOT CONFUSE SURVEY LINES WITH LEASE LINES. IF THE SECTION OR BLOCK WHERE YOU DESIRE TO LOCATE, BLOCK, OR LOT OUT OF YOUR LEASE, DESIGNATE SAME AS BEING ONLY THAT PART OF THE LEASE.

Show the size of the tract will permit, on scale of one inch equalling 1000 feet; if less than 2 acres on scale of one inch equalling 100 feet. DESIGNATE SCALE TO WHICH PLAT OR SECTION IS DRAWN. ALSO DESIGNATE DIRECTION OF THE SECTION OR PLAT.

FILL IN BELOW IN THE SPACES RESERVED FOR THIS PURPOSE THE FOOTAGES ASKED FOR.

Nearest distance from proposed location to property or lease line 200' feet.

Distance from proposed location to nearest drilling, completed, or applied for well on same lease 0 feet.

IF THE LOCATION WHERE THE WELL IS TO BE LOCATED PRESENTLY OCCUPIED BY ANOTHER WELL IN ANY RESPECT, FOR WHATEVER PURPOSE, IS REQUESTED? NO

COMMISSIONER
03400007

NOTICE: Before sending in this form be sure that you have completed all data to be drilled.

ORAS 50708 AND 5080 4-7-62

Date May 28, 19 64

Name of company or operator
Name M. H. Kintner
Address Box 990
City Lockhart, Texas

Description of farm or lease:
Name of Lease U. S. Neetz, Jr.
Number of Acres 400.943 Well No. 1
Number of wells on lease None
Elevation (ft. above sea level) Section No. Block No.
Survey James Jackson

Name of landowner Clark Edwards
To be Located in Wildcat Field
(If Wildcat state above, also state name and location from nearest Survey Line.) Section 10, T10N, R10E, S10E
Lockhart County
1 Section 11 E direction from
Lockhart, Texas nearest post office or town.

Rotary or Cable Tools Rotary
Date work will start drilling When Permitted
Depth to which you propose to drill 1500 feet.
Date work will start deepening

IF LEASE PURCHASED WITH ONE OR MORE WELLS OWNED, PARTIALLY OWNED OR

Yours

RECEIVED
SAN ANTONIO, TEXAS
MAY 28 1964
OIL AND GAS DIVISION

OK
Dr

THIS DOCUMENT IS CLASSIFIED AS SECRET BY THE NATIONAL ARCHIVES
ON 08-10-2010 BY SP-6 [REDACTED] FOR THE NATIONAL ARCHIVES

SECRET

WEST

EAST

NO SIGNATURES OR INITIALS TO BE PLACED IN ANY SPACE WHICH DOES
NOT HAVE A PREVIOUSLY PRINTED OR WRITTEN NAME TO GOVERN ALL FORMS
HEREIN. THESE SIGNATURES MUST BE IN INK AND MUST BE MADE BY THE
PERSONS WHOSE NAMES ARE PRINTED HEREON. IT WILL BE NECESSARY TO SIGNIFY BEFORE OF THESE
PERSONS. THESE NAMES, TO SIGNIFY THE DEGREE TO WHICH
THESE NAMES MUST BE PRINTED.

State of TEXAS

SOUTH

I, E. E. Edwards, being first duly sworn, state that I have knowledge of the facts and
contents hereof and that the same are true and correct.

Witness my hand and seal this 12th day of February, 1960.

Subscribed and sworn to before me this 12th day of February, 1960.

My Comm. Expires 12th day of February, 1960.
Notary Public [REDACTED] County, Texas

RECORDED
BY ASST. CLERK
MAY 29 1944
T. J. [illegible]

ISAAC JACKSON SURVEY

W.D. MOORE JR.

943 ACRE LEASE

CALDWELL COUNTY TEXAS

WEST LINE OF ISAAC JACKSON SURVEY

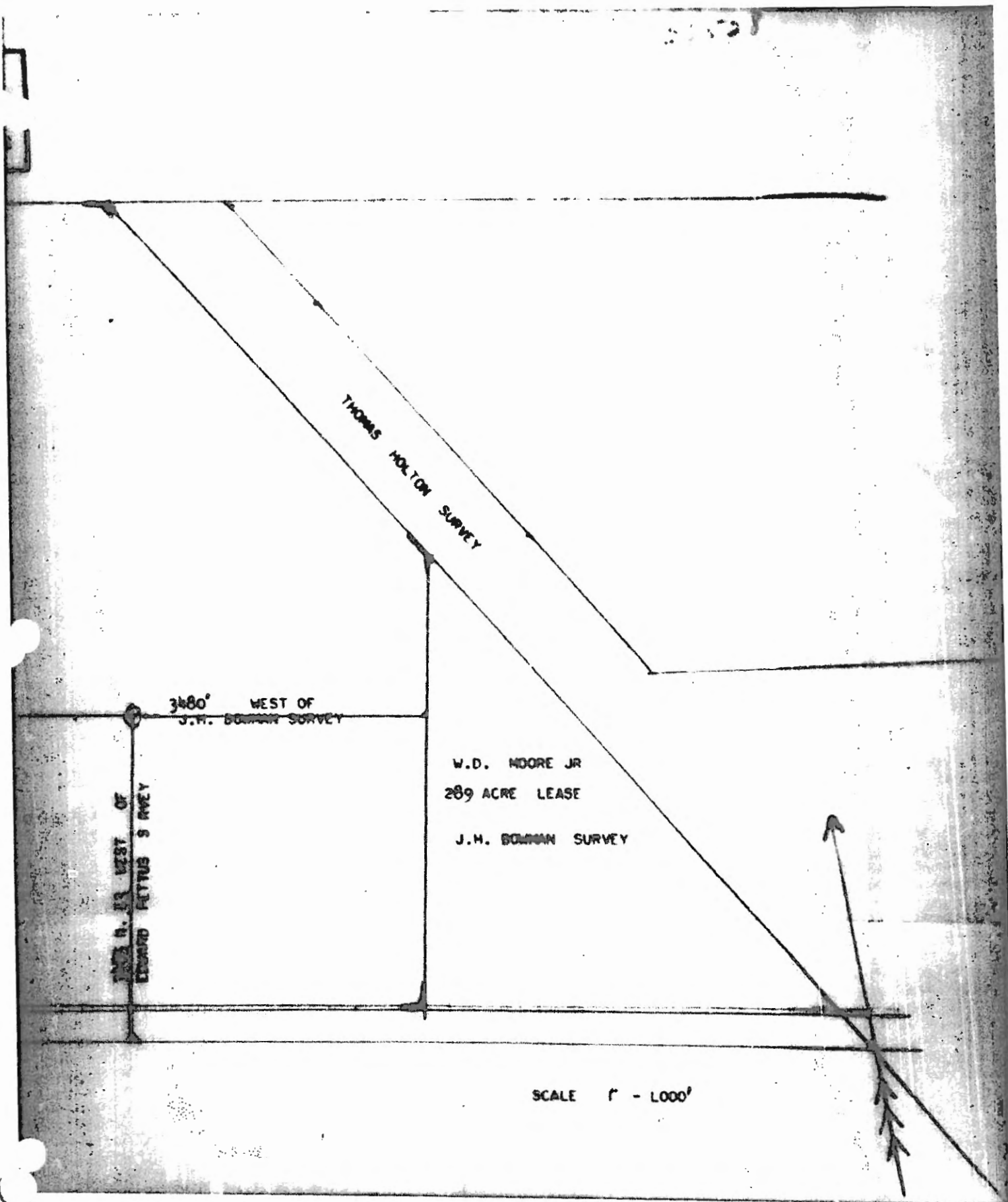
#83

U. S. HIGHWAY

7450' 11" EAST OF U.S. HIGHWAY #83

FARM ROAD 1485'

EDWARD PETTUS SURVEY



**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383**

TYPE I PERMIT APPLICATION

VOLUME 5 OF 5

Prepared for

130 ENVIRONMENTAL PARK, LLC

Technically Complete October 28, 2014

Revised March 2015



Biggs & Mathews, Inc.
Firm Registration No. F-834

Prepared by

BIGGS & MATHEWS ENVIRONMENTAL

1700 Robert Road, Suite 100 ♦ Mansfield, Texas 76063 ♦ 817-563-1144

TEXAS BOARD OF PROFESSIONAL ENGINEERS
FIRM REGISTRATION NO. F-256

TEXAS BOARD OF PROFESSIONAL GEOSCIENTISTS
FIRM REGISTRATION NO. 50222

And

BIGGS & MATHEWS, INC.

2500 Brook Avenue ♦ Wichita Falls, Texas 76301 ♦ 940-766-0156

TEXAS BOARD OF PROFESSIONAL ENGINEERS
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**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383**

TYPE I PERMIT APPLICATION

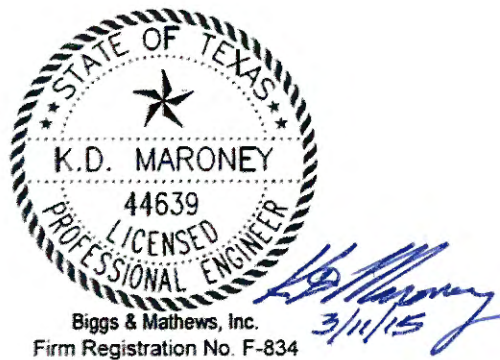
VOLUME 5 OF 5

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PART IV SITE OPERATING PLAN



**130 ENVIRONMENTAL PARK
CALDWELL COUNTY, TEXAS
TCEQ PERMIT APPLICATION NO. MSW 2383**

TYPE I PERMIT APPLICATION

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Biggs & Mathews, Inc.
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Biggs & Mathews, Inc.
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APPENDIX IVB – REGULATED ASBESTOS-CONTAINING MATERIAL PLAN

APPENDIX IVC – SPECIES PROTECTION PLAN

- Windblown waste and litter along the entrance road, the gatehouse area, within the permit boundary, and that has accumulated along the permit boundary will be collected once a day during facility operations and delivered to the active working face.
- Windblown waste or litter may occasionally escape the facility control measures and cross the permit boundary onto adjacent property. The facility will contact the adjacent property owners to seek permission for litter pick-up.
- Screening barriers such as temporary berms, trees, and visual screening berms may also serve as additional wind breaks.

8.6 Easements and Buffer Zones

8.6.1 Easements

In accordance with §330.141(a) and §330.543(a), solid waste unloading, storage, disposal, or processing operations will not occur within any easement, buffer zone, or right-of-way that crosses the site. No solid waste disposal will occur within 25 feet of the centerline of any utility line or pipeline easement, unless otherwise authorized by the TCEQ. All easements will be clearly marked as specified in Section 8.7 of this SOP. Pipelines and utility easements will be marked with posts extending a minimum of six feet above ground surface at intervals that do not exceed 300 feet. These easements are shown in Part I, Appendix IA, Drawing IA.6; and Appendix IC, Drawing IC.1.

8.6.2 Buffer Zones

The buffer zone is defined as the area between the permit boundary and the limit of waste disposal activities and solid waste processing activities, unless otherwise authorized. In accordance with §330.543(a), no solid waste unloading, storage, disposal, or processing operations will occur within any easement, buffer zone, or right-of-way that crosses the facility, including the 125-foot buffer zone of the landfill. The buffer zones will provide for safe passage of fire-fighting and other emergency vehicles. Landfill buffer zones are a minimum distance of 125 feet for waste disposal operations. These buffer zones are shown on Part II, Appendix IIA, Drawing IIA.12 and Drawing IIA.14. Buffer zones for all solid waste processing activities will be a minimum of 125 feet. All buffer zones will be clearly marked as specified in Section 8.7 of this SOP.

8.7 Landfill Markers and Benchmark

Landfill markers will be installed to clearly mark significant features as described in §330.143(b). The markers will be posts (or other TCEQ approved material) and will extend at least six feet above the ground surface. The markers will not be obscured by vegetation and will be placed in sufficient numbers to clearly show the required boundaries. Markers that are removed or destroyed will be replaced within 15 days of their removal or destruction or 15 days following completion of construction activities within the affected area. Landfill markers will be inspected monthly and will be maintained and repaired or replaced within 15 days of discovering a marker does not

8.15 Landfill Gas Control

The control and monitoring of landfill gas for 130 Environmental Park will be in accordance with the Landfill Gas Management Plan (LFGMP) included in Part III, Attachment G. The LFGMP was developed in accordance with §330.371. The LFGMP provides for inclusion of applicable documentation, including monitoring records for landfill gas monitoring probes, in the site operating record, and for submittal to the executive director. Gas monitoring records will be maintained in the site operating record.

8.16 Oil, Gas, and Water Wells

Should any unknown abandoned water, crude oil, or natural gas wells, or other well associated with mineral recovery, be discovered within the permit boundary, 130 Environmental Park will provide written notification to the TCEQ executive director as described below. Plugging and abandonment of any well within the waste footprint will be completed as depicted in the plugged well completion detail provided in Part III, Attachment D3 – Construction Design Details, Drawing D3.2 – Liner Details.

8.16.1 Water Wells

A copy of the well plugging report for any water well found during facility development will be submitted to the appropriate state agency and to the executive director within 30 days after the well is discovered. A permit modification will be submitted to the executive director if revisions to the liner installation plan are required as the result of well abandonment.

8.16.2 Oil and Gas Wells

There is one plugged dry hole location (see Part II, Appendix IIA, Drawing IIA.5) within the 130 Environmental Park permit boundary but outside the proposed waste footprint.

If any abandoned crude oil or natural gas wells or other wells associated with mineral recovery are located during site development, the operator will provide the executive director of the TCEQ with written notification of the well's location within 30 days after its discovery. Within 30 days after plugging of any such well, the facility operator shall provide the executive director with written certification that such wells have been properly capped, plugged, and closed in accordance with all applicable rules and regulations of the Railroad Commission of Texas. A copy of the well plugging report to be submitted to the appropriate state agency will also be submitted to the executive director of the TCEQ within 30 days after the well has been plugged. Any producing crude oil or natural gas well that does not affect or hamper landfill operations may be operated within the site if identified in the permit for the landfill or in a written notification to the executive director.