

Kanter Real Estate, LLC Application for Drilling Permit for Kanter 23-1 Well

Submitted to: Florida Department of Environmental Protection



Prepared by:
The Carol Group, Inc.



Century Oil, Inc. (Pollister)



Clementi Environmental Consulting, LLC



CLEMENTI ENVIRONMENTAL CONSULTING, LLC

For: Kanter Corporation of Florida, Inc.

2601 South Bayshore Drive, Suite 14
Miami, Florida 33133

July 2, 2015

Contents

1.0	Introduction	1
2.0	Confidentiality.....	1
3.0	Operator.....	1
4.0	Agent/Consultants	1
5.0	Well Information.....	1
5.1	Well name	1
5.2	Primary geological objective	2
5.3	Surface location.....	2
5.4	Location plat.....	2
6.0	Environmental.....	2
6.1	Stormwater	2
6.2	Water supply	2
6.3	Wetlands and wildlife	2
6.4	Site environmental management	2
6.5	Hydrogen sulfide contingency plan.....	3
6.6	Gathering lines and pipeline	3
6.7	Housing and personnel	3
7.0	Bottom Hole Location	3
8.0	Drilling Rig and Equipment.....	3
9.0	Drilling Operations	3
10.0	Proposed Drilling Program	3
10.1	Casing and cementing program	3
10.2	Well control equipment.....	3
10.3	Drilling fluids program	4
11.0	Financial Security	4

Exhibits

Exhibit A: FDEP Permit Application (Form 3)	A-1
Exhibit B: Easement.....	B-1
Exhibit C: Authorization to Conduct Business in Florida.....	C-1
Exhibit D: FDEP Organization Report Form (Form 1)	D-1
Exhibit E: Property Deed	E-1
Exhibit F: Agent Authorization Letter	F-1
Exhibit G: Well Location Plat.....	G-1
Exhibit H: Sketch of the Pad.....	H-1
Exhibit I: Aerial Photograph with Pad Layout	I-1
Exhibit J: Hydrogen Sulfide Gas Contingency Plan.....	J-1
Exhibit K: Drilling Rig Information.....	K-1
Exhibit L: Well Drilling Procedures.....	L-1
Exhibit M: Proposed Casing and Cementing Program	M-1
Exhibit N: Proposed Wellbore Schematic	N-1
Exhibit O: Well Control Program.....	O-1
Exhibit P: Drilling Fluids Program.....	P-1

1.0 Introduction

Kanter Real Estate, LLC (“**Kanter**”) submits this Application for Permit to Drill (“**Application**”) for the proposed well known as Kanter 23-1 (“**Well**”) to the Florida Department of Environmental Protection (“**FDEP**”) in accordance with Chapter 62C-26.003, F.A.C. A signed FDEP permit application (Form 3) is attached as **Exhibit A**. The contents of this Application, including the attached Exhibits, include elements required under Chapter 62C-26.003, F.A.C.

Kanter owns in fee simple approximately 20,000 acres in Water Conservation Area 3 (“**WCA 3**”) in Broward County, FL. In 1950 an easement was granted to the Central and Southern Flood Control District for the purposes of construction, maintenance and operation of any project in the interest of flood control, reclamation, conservation and allied purposes. Kanter retained the right of ingress and egress to and from the property in order to exercise its reserved rights to develop, extract, and remove oil, gas, and minerals in accordance with sound engineering principles. Kanter, based on geologic information, proposes to construct an oil well for the purposes of exploring oil reserves on 5 acres of the 20,000-acre parcel. A copy of the easement attached **Exhibit A**

2.0 Confidentiality

Kanter requests that information its submits (or that its agents submit) regarding the Well be held confidential, including but not limited to information pertaining to drilling reports, test results, well logging information, production reports, and any geologic interpretations relative to the Well.

3.0 Operator

The operator and permit applicant for the Well is Kanter, whose address is:

Kanter Real Estate, LLC.
2601 South Bayshore Dr., Suite 1450
Miami, FL 33133

Attached as **Exhibit C** is a copy of Kanter’s authorization to conduct business in Florida. FDEP’s Organization Report Form (Form 1) is attached as **Exhibit D**.

Kanter is the owner of the property on which the Well is located. A copy of the deed to the property is attached as **Exhibit E**.

4.0 Agent/Consultants

Kanter has authorized The Carol Group, Inc. to act as agent on its behalf, as shown in the letter attached as **Exhibit F**.

5.0 Well Information

5.1 Well name

The Well name is Kanter 23-1.

5.2 Primary geological objective

The primary geological objective is the Upper Sunniland Formation. Kanter proposes that pilot hole depth be 11,800 feet MD (11,800 feet TVD), which will allow assessment the formation.

5.3 Surface location

The drilling site is located on unimproved lands within WCA 3. The site is located in Section 23, Township 51 South, Range 38 East, Broward County, Florida, as depicted in **Exhibit G**. A sketch of the pad layout and an aerial photograph with the layout of the pad are provided as **Exhibits H and I**, respectively.

5.4 Location plat

The Well location plat, prepared by The Carol Group, Inc., is attached as **Exhibit G**.

6.0 Environmental

6.1 Stormwater

A three-foot earth berm will surround the 5-acre operating area in order to contain all water on the site. Design and calculations contained in ERP permit application.

6.2 Water supply

Kanter will submit an industrial water use permit application for groundwater withdrawals necessitated by the drilling operations.

6.3 Wetlands and wildlife

The Well pad is located within Water Conservation Area 3B, directly adjacent to the L-67A levee. Levees located off U.S. Highway 27 (State Road 25) and U.S. Highway 41 (State Road 90) will provide access to the Well pad within WCA 3. Access to the drilling site will not impact any wetlands or surface waters. The Well pad construction will impact wetlands and will be addressed in the ERP application.

The Well location, in particular the drilling site, will impact 6.83 acres of wetlands. The Well location also contains habitat for federal and state listed wildlife species. Kanter will submit an ERP permit application to address all environmental impacts. These impacts will be similar to the wetland impacts associated with the DECOMP (WCA 3 Decomartmentalization and Sheetflow Enhancement Project) pilot project, which is on the same L-67A levee.

6.4 Site environmental management

The drilling location will have secondary containment areas around the rig substructure and the generator (including its fuel tanks). These containment areas will be covered by a high-density polyethylene liner system that will collect rainwater, oils, grease, and other fluids and direct them to a sump. A containment berm surrounding the fuel tanks will retain 1.5 times the tanks' stored volume.

6.5 Hydrogen sulfide contingency plan

Attached as **Exhibit J** is Kanter's hydrogen sulfide gas contingency plan, which was prepared by Safety First. This contingency plan will go into effect at 10,500 feet, which is more than 1,000 feet higher than the top of the expected hazardous hydrogen sulfide zone.

6.6 Gathering lines and pipeline

The Well is an exploratory well. There are no plans for gathering lines or pipeline at this time.

6.7 Housing and personnel

Most of the drilling personnel will be housed off-site. Some of the drilling personnel will be housed in temporary quarters located in the Well pad area. There will be an office trailer with living quarters for the drilling supervisor and rig manager and temporary trailers for other personnel.

7.0 Bottom Hole Location

The proposed bottom hole location is 920 feet FSL and 920 feet FWL at Latitude 25°57'53.615" North and Longitude 80°32'42.193" West in Section 23, Township 51 South, Range 38 East, Broward County, Florida, as depicted in **Exhibit F**.

8.0 Drilling Rig and Equipment

A Drawworks OIME SL-5 drilling rig or equivalent will be used. The exact model used will depend upon availability. Detailed information regarding the Drawworks OIME SL-5 drilling rig is attached as **Exhibit K**.

9.0 Drilling Operations

Drilling operations will consist of drilling and testing and will take place 24 hours a day for approximately 60 to 80 days. A crew of 12 to 18 persons will work on site during this time, and they will be housed as described in Section 6.7. Electricity will be provided by diesel generator sets. All wastewater will be contained in storage tanks and removed from the site by a waste contractor, and a bottled water contractor will supply drinking water. Sanitary waste will be collected in holding tanks and removed by a local contractor. Water for drilling will be supplied by on-site wells located at the northeast and southeast corners of the pad.

10.0 Proposed Drilling Program

The drilling procedures were developed for the Well by Century Oil, Inc. and are attached as **Exhibit L**. Key portions of the plan are summarized in Sections 10.1 and 10.2.

10.1 Casing and cementing program

The proposed casing and cementing program, prepared by Haliburton, is attached as **Exhibit M**, and the proposed wellbore schematic which was developed by Century Oil, Inc. is attached as **Exhibit N**.

10.2 Well control equipment

The well control program was developed by Century Oil, Inc. and is attached as **Exhibit O**. Rig equipment will be provided as follows:

Hole Size	Size/Pressure	Bottom-to-Top Arrangement	Low/High Test Pressures Rams/Annular
26"	N/A	N/A	N/A
17"	21 ¾" 2M	P/S/B/A	250-3,500/250-2,000
12 1/4"	21 ¾" 2M	P/S/B/A	250-3,500/250-2,000
8 ½"	11" 5M	P/B/A	250-3,500/250-2,000

Key: A = annular B = blind ram P = pipe ram S = drilling spool

10.3 Drilling fluids program

The Drilling Fluids Program was prepared by DuBar Drilling Fluids, LLC. This is the program that will be utilized for this well. It is attached as **Exhibit P**.

11.0 Financial Security

Kanter will provide a performance bond for a single well (Form 2A) as security for the Well, in accordance with Chapter 62C-26.002, F.A.C. prior to permit issuance.

Exhibit A: FDEP Permit Application (Form 3)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR PERMIT TO DRILL

Form 3
Rule 62C-25.008, -25.006,
-25.003 and -25.001

For information and fees regarding drilling permits for oil and gas related wells, refer to Chapter 62C-26, Florida Administrative Code. File this form with the Chief, Florida Geological Survey, 903 West Tennessee Street, Tallahassee, Florida 32304-7700 (phone numbers 850/487-2219 and 488-4191; fax 850/488-8086).

Kanter Real Estate LLC

(Company's Name and Address)

2601 South Bayshore Drive, Suite 1450

Miami, FL 33131

Phone Number: _____ Fax Number: _____

Well Name and Number:

Kanter Sunniland 23-1

Ground Elevation: 11.9 NAVD Acres Assigned to Well: 160 Latitude: N25°59'55' Longitude: N80°31'07V

SHL: 920 FT FNL 920 FT FWL Sec. 23 T. 51S R. 38E

BHL: 920 FT FNL 920 FT FWL Sec. 23 T. 51S R. 38E

Field/Area: Wildcat County: Broward

Distance to nearest drilling unit boundary: 920 FT Proposed Depth: 11,800 FT

Do you have all of the mineral interest in the drilling unit under lease or title? If not, attach lease map showing ownership of all mineral acreage within the drilling unit and list the names and addresses of all nonconsenting mineral owners. (See section 377.2411 and .247, Florida Statutes.)

(Please answer YES or NO) Is the structure intended for the drilling or production of this well located (See section 377.24, F. S.)

- a) in a municipality? NO
- b) in tidal waters within 3 miles of a municipality? NO
- c) on an improved beach? NO
- d) on any submerged land within a bay, estuary, or offshore waters? NO
- e) within one mile seaward of the coastline of the state? NO
- f) within one mile seaward of the boundary of a local, state or federal park or an aquatic or wildlife preserve? NO
- g) On the surface of a freshwater lake, river or stream? NO
- h) within one mile inland from the shoreline of the Gulf of Mexico, the Atlantic Ocean or any bay or estuary? NO
- i) within one mile of any freshwater lake, river or stream? NO

If the answer to **a**, **b**, or **c** is YES, attach copies of local governing authorities' permits. If the answer to **h** or **i** is YES, attach a contingency plan specifying safeguards being implemented to prevent accidents and/or blowouts and to protect the natural resources of such bodies of water and shore areas in the event of an accident or blowout.

The security for this well is _____ (attached or on file) with the Florida Geological Survey (see Rule 62C-26.002) and bears Serial Number _____.

Company's Statement

State: Florida

County: Miami-Dade

I, John E. Kanter, am _____ the President
(Name) (Title)

of Kanter Real Estate LLC and attest to all information contained herein to be true and correct.
(Organization)

Signature: 

Date: July 2, 2015

File Number: _____ Action: _____ Date: _____ A.P. I. Number: _____
(Approved, Denied)

Exhibit B: Easement

Rec'd 6/17/02 SFWMD
SFWMD Easement
20000 AC

DB 711/282

10-110 July, A.D., 1950, by and between DALLAS INVESTMENT CO., a Florida corporation existing under the laws of the State of Florida, having its principal place of business in the County of Dade and State of Florida, and lawfully authorized to transact business in the State of Florida; VICTOR J. TATHAM and EARONIA A. TATHAM, his wife, parties of the first part, and CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT, a body corporate created by the Acts of the Florida Legislature of 1949, with its principal office in West Palm Beach, Palm Beach County, Florida, party of the second part; W I T N E S S E T H:

76, 76.01

That for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt of which is hereby acknowledged and confessed, party of the first part does hereby bargain, sell, grant and convey to the CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT, party of the second part, its successors or assigns, only such right, privilege, use and easement in and to the lands hereinafter described for any and all purposes necessary to the construction, maintenance and operation of any project in the interest of flood control, reclamation, conservation and allied purposes now or that may hereafter be conducted by the grantee herein, its successors or assigns, including the right to permanently or intermittently flood all or any part of the area covered hereby as a result of the said construction, maintenance, or operation, in carrying out the purposes and intents of the statutes of the State of Florida, relating to CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT, presently existing or that may be enacted in the future pertaining thereto. Any part or the whole thereof of the right, privilege, use and easement herein granted may be assigned for the public purposes contemplated herein by the grantee at its own option and sound discretion without approval of the grantor herein.

Such right, privilege, use and easement is given in and to the following described lands, situate, lying and being in the County of Broward and State of Florida, to-wit:

- All West of Canal less FEC R/w Section 2, Township 50-South, Range 37-East;
- All less FEC R/w Section 3, Township 50-South, Range 37-East;
- All Section 4, Township 50-South, Range 37-East;
- All Section 5, Township 50-South, Range 37-East;
- All Section 9, Township 50-South, Range 37-East;
- All Section 10, Township 50-South, Range 37-East;
- All West of Canal less FEC R/w Section 11, Township 50-South, Range 37-East;
- All West of Canal less FEC R/w Section 12, Township 50-South, Range 37-East;
- All West of Canal less FEC R/w Section 13, Township 50-South, Range 37-East;
- All Section 14, Township 50-South, Range 37-East;
- All Section 15, Township 50-South, Range 37-East;
- All Section 23, Township 50-South, Range 37-East;
- All Section 24, Township 50-South, Range 37-East;
- All Section 25, Township 50-South, Range 37-East;
- All Section 36, Township 50-South, Range 37-East;
- All Section 13, East of Canal, Township 50-South, Range 37-East;
- All Section 1, Township 50-South, Range 38-East;
- All Section 3, Township 50-South, Range 38-East;
- All West of Miami Canal Section 19, Township 50-South, Range 38-East;
- All East of Miami Canal Section 19, Township 50-South, Range 38-East;
- All Section 27, Township 50-South, Range 38-East;
- All Section 28, Township 50-South, Range 38-East;

WCA3
#27

711 2283

N $\frac{1}{2}$ Section 29, Township 50-South, Range 38-East;
N $\frac{1}{2}$ Section 30, West of Canal, less FEC R/w,
Township 50-South, Range 38-East;
V $\frac{1}{2}$ Section 30, East of Canal, less FEC R/w
Township 50-South, Range 38-East;
S $\frac{1}{2}$ Section 7, Township 51-South, Range 38-East;
S $\frac{1}{2}$ Section 8, Township 51-South, Range 38-East;
S $\frac{1}{2}$ Section 9, Township 51-South, Range 38-East;
S $\frac{1}{2}$ Section 10, Township 51-South, Range 38-East;
S $\frac{1}{2}$ Less FEC R/w Section 11, Township 51-South,
Range 38-East;
S $\frac{1}{2}$ Less FEC R/w Section 13, Township 51-South,
Range 38-East;
All Less FEC R/w Section 14, Township 51-South,
Range 38-East;
All Section 15, Township 51-South, Range 38-East;
All Section 16, Township 51-South, Range 38-East;
All Section 17, Township 51-South, Range 38-East;
All Section 18, Township 51-South, Range 38-East;
All Section 19, Township 51-South, Range 38-East;
All Section 20, Township 51-South, Range 38-East;
All Section 21, Township 51-South, Range 38-East;
All Section 22, Township 51-South, Range 38-East;
All Section 23, Township 51-South, Range 38-East;
All Less FEC R/w Section 24, Township 51-South,
Range 38-East;
N $\frac{1}{2}$ Section 25, Township 51-South, Range 38-East;
N $\frac{1}{2}$ Section 26, Township 51-South, Range 38-East;
N $\frac{1}{2}$ Section 27, Township 51-South, Range 38-East;
N $\frac{1}{2}$ Section 28, Township 51-South, Range 38-East;
N $\frac{1}{2}$ Section 29, Township 51-South, Range 38-East;
N $\frac{1}{2}$ Less FEC R/w Section 30, Township 51-South,
Range 38-East;
All Section 12, Township 48-South, Range 40-East;
All Section 24, Township 48-South, Range 40-East.

It is specifically understood and agreed that the foregoing grant of the uses, rights and privileges aforesaid shall in no wise prohibit or interfere with the right of the party of the first part, its successors, assigns or lessees, to:

(a) Lease or conduct operations on the premises herein described, for the exploration or drilling for, or the developing, producing, storing or removing of oil, gas or other minerals in or under the aforesaid premises;

(b) Make such further use as will not conflict with the purposes for which this grant is given.

To exercise these rights, the grantor, its successors, assigns or lessees, and agents and employees shall have such right of ingress and egress to and from the property hereinbefore set forth, as may be necessary. It being further specifically understood and agreed that the rights retained under the provisions of this paragraph shall be exercised by the grantor, its successors, assigns or lessees, subject to any reasonable rules and regulations which the Governing Board of the CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT may prescribe for the efficient maintenance and operation of a public project in the interest of flood control, reclamation, conservation and allied purposes, but which shall permit the reserved rights to be exercised so that oil, gas and minerals may be developed, extracted and removed from the District in accordance with sound engineering principles.

The District hereby assumes the responsibility for 1950 taxes and years subsequent thereto, as referred to in Section 5, Chapter 25213, Laws of Florida, Acts of 1949, so long as said land in which the easement is granted remains within the Conser-

LEN 711 284

vation Areas of the Flood Control District as determined by Engineers in charge of said project.

This easement granted and conveyed to the CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT, shall be for the public purposes of the said District as contemplated herein and as set forth in the statutes of the State of Florida, and is subject to the condition, that in the event any or all of the lands hereinbefore described are not within the area finally determined by the Engineers in charge of said project to be required for Conservation Area purposes, then and in that event any or all of such lands not within the required area shall automatically and immediately revert to the Grantor herein and the Grantee, its successors or assigns, shall upon demand of the Grantor, its successors, heirs or assigns, execute the proper and necessary instrument to reconvey said land.

IN TESTIMONY WHEREOF, the parties hereto have caused these presents to be executed by their duly authorized officers and its corporate seal to be affixed, attested by its Secretary and the said individual parties have hereunto set their hands and seals the day and year above written.

ATTEST:

DALLAS INVESTMENT CO.

Emma Sondermose
Secretary

By _____
President

Signed, sealed and delivered in the presence of us:

Heaven Lawrence
Doris Paulson

As to Party of the First Part

(Seal)

(Seal)

ATTEST:

CENTRAL AND SOUTHERN FLORIDA FLOOD CONTROL DISTRICT

[Signature]
Secretary

By [Signature]
Chairman, Governing Board

Signed, sealed and delivered in the presence of us:

[Signature]
[Signature]

As to Party of the Second Part

STATE OF FLORIDA)
COUNTY OF DADE)

I HEREBY CERTIFY that on this 5th day of July A.D., 1950, before me personally appeared Victor J. Tatnam and Emma Sondermose, President and Secretary respectively of DALLAS INVESTMENT CO., a corporation organized and existing under the laws of the State of Florida, known to me to be the persons who executed the foregoing instrument, and severally acknowledged the execution thereof to be their free act and deed as such officers, for the uses and purposes therein mentioned; and that they affixed thereto the official seal of the said corporation, and that the instrument is the act and deed of the corporation.

IN WITNESS WHEREOF, I have set my hand and official seal at Miami, said County and State the day and year last aforesaid.

Heaven Lawrence (Seal)
Notary Public State of Florida
at Largo

My commission expires: _____

Notary Public, State of Florida at Largo.
My commission expires March 21, 1952.
Bonded by American Surety Co. of N. Y.

225

STATE OF FLORIDA)
COUNTY OF DADE)

REC 711 2025

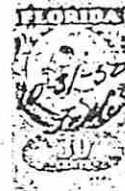
I HEREBY CERTIFY that on this 5th day of July
A.D., 1950 before me personally appeared VICTOR J. TATHAM and
EARNE A. TATHAM, his wife, to me well known to be the persons
described in and who executed the foregoing instrument, and
acknowledged before me that they executed the same freely and
voluntarily for the purposes therein expressed.

IN WITNESS WHEREOF, I have hereunto set my hand and
official seal at Miami, said County and State the day and year
last aforesaid.

Henry Lawrence (Seal)
Notary Public State of Florida
at Large

My commission expires:

Notary Public, State of Florida at Large.
My commission expires March 21, 1952.
Bonded by American Surety Co. of N. Y.



STATE OF FLORIDA
COUNTY OF BROWARD

This instrument filed for record 2
at Law 192 and recorded in book 711
at Law on page 289 RECORDED VERIFIED

TSO CABOT, Clerk of the Circuit Court

Madeline Parkhurst
D. 9

Exhibit C: Authorization to Conduct Business in Florida



Detail by Entity Name

Foreign Limited Liability Company

KANTER REAL ESTATE LLC

Filing Information

Document Number M15000005143
FEI/EIN Number 310550418
Date Filed 07/01/2015
State OH
Status ACTIVE

Principal Address

2601 S BAYSHORE DR
STE 1450
MIAMI, FL 33133

Mailing Address

2601 S BAYSHORE DR
STE 1450
MIAMI, FL 33133

Registered Agent Name & Address

NRAI SERVICES, INC.
1200 SOUTH PINE ISLAND ROAD
PLANTATION, FL 33324

Authorized Person(s) Detail

Name & Address

Title MGR

KANTER INVESTMENTS, LTD
2601 S BAYSHORE DR - STE 1450
MIAMI, FL 33133

Annual Reports

No Annual Reports Filed

Document Images

[07/01/2015 -- Foreign Limited](#)

[View image in PDF format](#)

Exhibit D: FDEP Organization Report Form (Form 1)

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
ORGANIZATION REPORT

Form 1
Rule 62C-25.008

All persons exploring for, storing, transporting, reclaiming, treating, or processing crude oil or natural gas shall file this record with the Chief, Florida Geological Survey, 903 West Tennessee Street, Tallahassee, Florida 32304-7700 (phone numbers 850/487-2219 and 488-4191; fax 850/488-8086).

1. Organization: Kanter Real Estate LLC
(Name and Address)
2601 South Bayshore Drive, Suite 1450
Miami, FL 33133
Phone Number: _____ Fax Number: _____

2. Type of Organization: Real Estate LLC
(Corporation, Joint Association, Firm, Partnership, Individual, etc.)

3. Purpose of Organization: Real Estate Ownership

4. If Corporation, State and Date of Incorporation: Ohio April 22, 2015
Name and Address of Florida Registered Agent: NRAI SVCS 1200 S. Pine Island Rd Plantation FL 33324
Date Registered with Secretary of State: 7/1/15

5. Officers, Owners, Directors and Trustees Information (Attach additional sheets as needed):

Name	Title	Address	Phone Number
John E. Kanter	President/Genl Partner	2601 S. Bayshore Drive, Ste 1450 Miami, FL 33133	

6. Is this a reorganization? YES If so, previous name: Kanter Corporation

=====
Organization's Statement

State: Florida

County: Miami-Dade

I, John E. Kanter (Name), am the President/General Partner (Title)

of Kanter Real Estate LLC (Organization) and attest that all information contained herein is true and correct.

Signature: 

Date: July 1, 2015

Exhibit E: Property Deed

67- 54399

OFF REC. 3440 PAGE 545

This Indenture

150.00
165.00
OVER

Made this Thirty-first day of MAY, A. D. 1967,

Between ALLSTATE DREDGE CO.

a corporation existing under the laws of the State of Florida having its principal place of business in the County of Dade and State of Florida party of the first part, and

AIRO JET INDUSTRIAL CITY, INC., a Florida corporation 1040 S.W. 27th Ave - Miami, Fla.

of the County of Dade and State of Florida part of the second part,

Witnesseth, That the said party of the first part, for and in consideration of the sum of Ten dollars and other valuable considerations ~~to it~~, to it in hand paid, the receipt whereof is hereby acknowledged, has granted, bargained, sold, aliened, remised, released, conveyed and confirmed, and by these presents doth grant, bargain, sell, alien, remise, release, convey and confirm unto the said party of the second part, and its successors ~~herein~~ and assigns forever, all that certain parcel of land lying and being in the County of BROWARD and State of Florida, more particularly described as follows:

All West of Canal less FEC R/w Sec. 2, Twp. 50-S, Rge 37-E; All, less FEC R/w Sec. 3, Twp. 50-S, Rge 37-E; All Sec. 4, 5, 9 and 10, Twp. 50-S, Rge 37-E; All West of Canal less F.EC R/w Sec. 11, Twp. 50-S, Rge 37-E; All West of Canal, less FEC R/w Sec. 12, Twp. 50-S, Rge 37-E; All West of Canal less FEC R/w Sec. 13, Twp. 50-S, Rge 37-E; All of Sec. 14, 15, 23, 24, 25 and 36 Twp. 50-S, Rge 37-E; All of Sec. 13 East of Canal, Twp. 50-S, Rge 37-E; All West of Canal Sec. 19, Twp. 50-S, Rge 38-E; All East of Canal Sec. 19, Twp. 50-S, Rge 38-E; North 1/2 Sec. 28 and 29, Twp. 50-S, Rge 38-E; North 1/2 Sec. 30, East of Canal, less FEC R/w Twp. 50-S, Rge 38-E; North 1/2 Sec. 30 West of Canal less FEC R/w Twp. 50-S, Rge 38-E; South 1/2 Sec. 7, 8, 9 and 10, Twp. 51-S, Rge 38-E; South 1/2 Sec. 11, less FEC R/w Twp. 51-S, Rge 38-E; All of Sec. 14, less FEC R/w Twp. 51-S, Rge 38-E; All of Sec. 15, 16, 17, 18, 19, 20, 21, 22 and 23 Twp. 51-S, Rge 38-E; North 1/2 Sec. 26, 27, 28 and 29, Twp. 51-S, Rge 38-E; and the North 1/2 Sec. 30, less FEC R/w Twp. 51-S, Rge 38-E, comprising of approximately 20,000 Acres, more or less.

This deed is given subject to a mortgage.

Subject to an easement granted Central & Southern Florida Flood Control District, recorded in Book 711, page 282, ALSO subject to a lease recorded in Book 3001, page 415 of the public records of BROWARD COUNTY, Florida.

IT IS UNDERSTOOD AND AGREED THAT THOMAS L. TATHAM RETAINS AN INTEREST IN THE ABOVE DESCRIBED PROPERTY AND THAT NO CONVEYANCE OR ENCUMBRANCE PLACED ON THE PROPERTY DESCRIBED HEREIN, SHALL BE EFFECTIVE WITHOUT THE JOINER OF THOMAS L. TATHAM, SECTY OF AIRO JET INDUSTRIAL CITY, INC., OR C.S. DEED IS FORTHCOMING FROM THOMAS L. TATHAM UPON PAYMENT OF A SUM CERTAIN. Together with all the tenements, hereditaments and appurtenances, with every privilege, right, title, interest and estate, reversion, remainder and easement thereto belonging or in anywise appertaining:

To Have and to Hold the same in fee simple forever.

And the said party of the first part doth covenant with the said party of the second part that it is lawfully seized of the said premises; that they are free of all incumbrances, and that it has good right and lawful authority to sell the same, and the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

In Witness Whereof, the said party of the first part has caused these presents to be signed in its name by its President, and its corporate seal to be affixed, attested by its the day and year above written.

(Corporate Seal)

Attest: Emma Field Secretary

ALLSTATE DREDGE CO.

By Thomas L. Tatham President.

Signed, Sealed and Delivered in Our Presence:

Minerva Keagy
Jan Martinez

THOMAS L. TATHAM
1040 S.W. 27th Ave
Miami, Florida 33135

67 JUN 12 AM 10:10

524

State of Florida,

REC. 3440 PAGE 546

County of D A D E

I HEREBY CERTIFY, That on this 31st day of May A. D. 19 67, before me personally appeared Thomas L. Tatham and Emma Field President and Secretary respectively of ALLSTATE DREDGE CO., a corporation under the laws of the State of Florida, to me known to be the persons described in and who executed the foregoing conveyance to

AIRO JET INDUSTRIAL CITY, INC., a Florida corporation

and severally acknowledged the execution thereof to be their free act and deed as such officers, for the uses and purposes therein mentioned; and that they affixed thereto the official seal of said corporation, and the said instrument is the act and deed of said corporation.

WITNESS my signature and official seal at Miami in the County of Dade and State of Florida, the day and year last aforesaid.

John Martinez
Notary Public

My Commission Expires

NOTARY PUBLIC, STATE OF FLORIDA at LARGE
MY COMMISSION EXPIRES APR. 3, 1970
DONDED THROUGH FRED W. GIBTELICORST

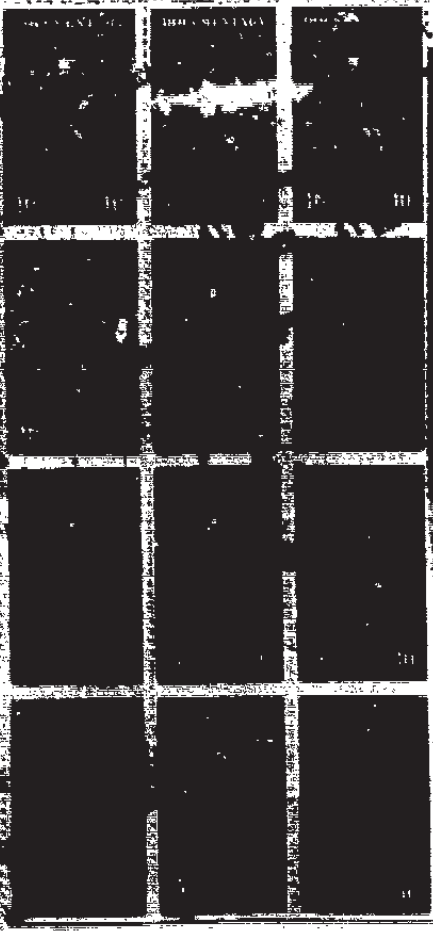
RECORDED IN OFFICIAL RECORDS BOOK OF BROWARD COUNTY, FLORIDA
JACK WHEELER
CLERK OF CIRCUIT COURT



BROWARD COUNTY STATE OF FLORIDA DOCUMENTARY STAMP TAX 5400
FLORIDA STAMP TAX 9900
FLORIDA STAMP TAX 9900
FLORIDA STAMP TAX 9900
FLORIDA STAMP TAX 9900

On this _____ day of _____ A. D. 19 _____ at _____ o'clock _____ m., this instrument was filed for record, and being duly acknowledged and proven, I have recorded the same on pages _____ of Book _____ in the public records of said County. In Witness Whereof, I have hereunto set my hand and affixed the seal of the Circuit Court of the Judicial Circuit of said State, in and for said County.

STATE OF FLORIDA,
County of _____



Notary Seal
FROM COMPLETION

D. O. Clerk.

70- 99185

Quit Claim Deed

THIS INDENTURE Made this 3rd day of July, A.D., 1970
 BETWEEN, Thomas L. Tatham Individually, and as Administrator
 CTA of the Estate of Victor J. Tatham, Deceased, and as Executor
 of the Estate of Earmia A. Tatham, Deceased, and Bernice Tatham
 wife of Thomas L. Tatham, of the County of Dade and State of
 Florida, parties of the first part, and AIRO-JET INDUSTRIAL CITY,
 INC., a Florida corporation, of the County of Dade and State of
 Florida, party of the second part.
c/o P.O. Box 3131, Miami, Florida,

WITNESSETH, that the said parties of the first part, for and
 in consideration of the sum of Ten dollars and other valuable
 considerations in hand paid by the said party of the second part,
 the receipt of which is hereby acknowledged, have remised, re-
 leased and quit-claimed, and by these presents do remise, release
 and quitclaim unto the said party of the second part, and do
 remise, release and quitclaim unto the said party of the second
 part, and its successors and assigns forever, all of the right,
 title, interest, claim and demand which the said parties of the
 first part have in and to the following described lot, piece
 or parcel of land, situate lying and being in the County of
 BROWARD, State of Florida, to-wit:

- Rge 37-E; All West of Canal less FEC R/w Sec. 2, Twp. 50-S
- Rge 37-E; All, less FEC R/W Sec. 3, Twp. 50-S; Rge. 37-E;
All of Sections 4, 5, 9 and 10, Twp. 50-S; Rge 37-E;
All West of Canal, less FEC R/w Sec. 11, Twp. 50-S,
- Rge 37-E; All West of Canal, less FEC R/w Sec. 12, Twp. 50-S,
- Rge 37-E; All West of canal, less FEC R/w Sec. 13, Twp. 50-S,
- Rge 37-E; All of Sections 14, 15, 23, 24, 25 and 36, Twp. 50-S
- Rge 37-E All of Section 13, East of canal, Twp. 50-S, Rge 37-E.
- All West of canal, Section 19, Twp 50-S, Rge 38-E;
All East of canal, Section 19, Twp. 50-S, Rge 38-E;
North 1/2 Sections 28 and 29, Twp. 50-S, Rge 38-E;
North 1/2 Section 30, East of canal, less FEC
R/w, Twp. 50-S, Rge. 38-E;
North 1/2 Section 30, West of canal, less FEC
R/w, Twp. 50-S; Rge 38-E;
South 1/2 Sections 7, 8, 9 and 10, Twp. 51-S, Rge 38-E;
South 1/2 Section 11, less FEC R/w Twp. 51-S, Rge 38-E;
All of Section 14, less FEC R/w, Twp. 51-S, Rge 38-E
All of Sections 15, 16, 17, 18, 19, 20, 21, 22 and 23
Twp. 51-S, Rge. 38-E;
North 1/2 Sections 26, 27, 28 and 29, Twp. 51-S, Rge
38-E and the
North 1/2 Section 30, less FEC R/w Twp. 51-S, Rge 38-
E, comprising 20,000 acres, more or less.

TO HAVE and TO HOLD the same, together with all

American Title Ins. Co.
P.O. Box 3131
Miami, Fla. 33101

28446
 P. 8
 P. 9
 P. 10

70-AUG-12 AM 10:59
 REC 4277 and 130

STATE OF FLORIDA
 DOCUMENTARY STAMP TAX
 CONTROLLER
 AUG 12 1970
 00.30

BROWARD COUNTY
 3442

DOCUMENTARY SUR TAX
 00.55

FLORIDA
 AUG 12 1970
 10625

262111

Law Offices
 THOMAS L. TATHAM
 1840 S.W. 27th Avenue
 MIAMI, FLORIDA

and singular the appurtenances thereunto belonging or in anywise appertaining, and all the estate, right, title, interest and claim whatsoever of the said parties of the first part, either in law or equity, to the only proper use, benefit and behoof of the said party of the second part.

IN WITNESS WHEREOF, the said parties of the first part have hereunto set their hands and seals the day and year first above written.

Signed, sealed and delivered
in the presence of:

Ernest Field

Juan Martignago

Thomas L. Tatham (SEAL)

Thomas L. Tatham, Individually and as Administrator CTA of the Estate of Victor J. Tatham, Deceased and as Executrix of the Estate of Earmia A. Tatham, Deceased.

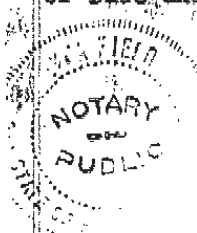
Bernice Tatham (SEAL)
Bernice Tatham

STATE OF FLORIDA
COUNTY OF DADE

I hereby certify That on this 3rd day of July, A.D., 1970, personally appeared before me, an officer duly authorized to administer oaths and take acknowledgments,

THOMAS L. TATHAM, Individually, and as Administrator CTA of the Estate of Victor J. Tatham, Deceased, and as Executrix of the Estate of Earmia A. Tatham, Deceased, and joined by BERNICE TATHAM, his wife, to me well known to be the person described in and who executed the foregoing instrument and they acknowledged before me that they executed the same freely and voluntarily for the purposes therein expressed.

WITNESS my hand and official seal at Miami, County of Dade, and State of Florida on the day and year above written.



Ernest Field
Notary Public

My commission expires:

NOTARY PUBLIC, STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES NOV. 27, 1973
BONDED THRU ERN W. DISTENFELD

RECORDED IN OFFICIAL RECORDS BOOK
OF BROWARD COUNTY, FLORIDA
JACK WHEELER
CLERK OF CIRCUIT COURT

REC 4277 PAGE 031

Low Offices
THOMAS L. TATHAM
1040 S.W. 27th Avenue
MIAMI, FLORIDA

75- 75751

Warranty Deed

This Indenture, Made, this 16th day of April, A. D. 1975

BETWEEN AIRO-JET INDUSTRIAL CITY, INC.

, a corporation
existing under the laws of the State of Florida, having its principal place of
business in the County of Dade and State of Florida

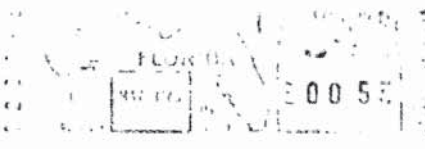
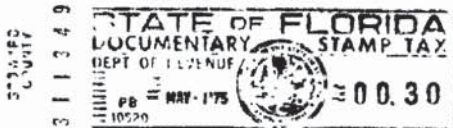
and lawfully authorized to transact business in the State of Florida, party of the first part, and
KANter CORPORATION OF FLORIDA,
whose address is: 4700 Biscayne Boulevard, Miami, Florida,
a corporation existing under the laws of the State of Florida, having its
principal place of business in the County of Dade and State of Florida,
and lawfully authorized to transact business in the State of Florida, party of the second part,

WITNESSETH: That the said party of the first part, for and in consideration of the sum of
TEN (\$10.00) and other good and valuable consideration----- Dollars
to it in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged,
has granted, bargained and sold to the said party of the second part, its successors and assigns forever,
the following described land situate, lying and being in the County of Broward
and State of Florida, to-wit:

The East one-half (1/2) of Section 23, and the
South 211 acres of the East 1/2 of Section 14,
in Township 51 South, Range 38 East, Broward
County, Florida.

SUBJECT TO:

1. Taxes for the year 1975 and subsequent years; and
2. Easements, restrictions, and dedication of record.



And the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

This Instrument prepared by:
Address

→
 THE STATE OF FLORIDA
 DEPARTMENT OF REVENUE
 TALLAHASSEE, FLA.
 370000

75 MAY 1 PM 2:28

OFF REC: 6189 PAGE 30

be

In Witness Whereof, the said party of the first part has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, attested by its Secretary, the day and year above written.

AIRO-JET INDUSTRIAL CITY, INC.

Attest: John S. Durkin
Secretary.

By [Signature]
President.

Signed, sealed and delivered in the presence of us:

Margaret J. Karnes
[Signature]

State of ~~Florida~~, OHIO

County of ~~DADE~~ HAMILTON

I Hereby Certify, that on this 16th day of April

A. D. 1975, before me personally appeared R. E. Wildermuth

and John S. Durkin

President and Secretary respectively of

AIRO-JET INDUSTRIAL CITY, INC.

a corporation under the laws of

the State of Florida

, to me known to be the persons who signed the foregoing instrument as such officers and severally acknowledged the execution thereof to be their free act and deed as such officers for the uses and purposes therein mentioned and that they affixed thereto the official seal of said corporation, and that the said instrument is the act and deed of said corporation.

Witness my hand and official seal at Cincinnati,

in the County of Hamilton

and State of ~~FLORIDA~~ Ohio

the day and year last aforesaid.

RECORDED IN THE OFFICIAL RECORDS BOOK
OF BROWARD COUNTY, FLORIDA
R. R. KAUTH
COUNTY ADMINISTRATOR

Margaret J. Karnes (Seal)
NOTARY PUBLIC, State of
~~FLORIDA~~ Ohio MARGARET J. KARNES
Notary Public, Hamilton County, Ohio
My Commission Expires Nov. 20, 1978

RAMCO FORM 391
Warranty Deed
(FROM CORPORATION TO CORPORATION)
FROM
TO
Date
ABSTRACT OF DESCRIPTION

OFF. REC. 6189 PAGE 31

WARRANTY DEED FROM CORPORATION

75-141159 Warranty Deed

This Indenture, Made this 28th day of July, A.D. 1975

Between AIRO-JET INDUSTRIES, INC., a corporation existing under the laws of the State of Florida, having its principal place of business in the County of Dade and State of Florida and lawfully authorized to transact business in the State of Florida, party of the first part, and

KANTER CORPORATION OF FLORIDA 4700 Biscayne Boulevard Miami, Florida, 33137 of the County of Dade and State of Florida

party of the second part Witnesseth:

That the said party of the first part, for and in consideration of the sum of TEN (\$10.00) Dollars,

to it in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged has granted, bargained and sold to the said party of the second part, its heirs and assigns forever, the following described land situate, lying and being in the County of Broward and State of Florida, to-wit:

- South one-half (1/2) of Section 11, less FEC R/W, Township 51 South, Range 38 East; East one-half (1/2) of Section 14, less FEC R/W Township 51 South, Range 38 East, and The North 186.99 acres of the West one-half (W 1/2) of Section 14, less FEC R/W, Township 51 South, Range 38 East, all located in Broward County, Florida

SUBJECT TO: (1) Taxes for the year 1975 and subsequent years; (2) Easements, restrictions and dedications of record.

And the said party of the first part do hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever

In Witness Whereof, the said party of the first part has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, attested by its secretary, the day and year above written.

(Corporate Seal) Attest: Fred H. Adler Secretary

AIRO-JET INDUSTRIES, INC.

Signed, sealed and delivered in presence of us:

Margaret J. Karnes John W. Adams

R. E. Wildermuth (Seal) Fred H. Adler (Seal) R. E. WILDERMUTH, President FRED H. ADLER, Secretary

State of OHIO County of HAMILTON

I Hereby Certify that on this 28th day of A.D. 1975, before me personally appeared R. E. WILDERMUTH and FRED H. ADLER, President and Secretary respectively of AIRO-JET INDUSTRIES, INC., a corporation under the laws of the State of Florida to me known to be the persons who signed the foregoing instrument as such officers and severally acknowledged the execution thereof to be their free act and deed as such officers for the uses and purposes therein mentioned and that they affixed thereto the official seal of said corporation, and that the said instrument is the act and deed of said corporation.

Witness my signature and official seal at Cincinnati, Ohio in the County of Hamilton and State of Ohio the day and year last aforesaid.

My commission expires Nov. 20, 1978. LEVINE, BELMAN & ROBINSON, P.A. 3501 Biscayne Boulevard Miami, Florida 33137 573-5900

Margaret J. Karnes MARGARET J. KARNES Notary Public, Hamilton County, Ohio My Commission Expires Nov. 20, 1978 OHIO

73 AUG 6 PM 3:31

REF 6293 PAGE 928



301/51

76 108262

CORRECTIVE
Warranty Deed

This Adventure, Made, this 21st day of **May** . A. D. 1976 .

BETWEEN AIRO-JET INDUSTRIAL CITY, INC.,

a corporation

existing under the laws of the State of **Florida** , having its principal place of

business in the County of **Dade** and State of **Florida** .

and lawfully authorized to transact business in the State of Florida, party of the first part, and

KANTER CORPORATION OF FLORIDA, 4700 Biscayne Blvd., Miami,

Florida 33137 a corporation existing under the laws of the State of **Florida** , having its

principal place of business in the County of **Dade** and State of **Florida** .

and lawfully authorized to transact business in the State of Florida, party of the second part.

WITNESSETH That the said party of the first part, for and in consideration of the sum of **Ten Dollars & other good and valuable considerations** Dollars

to it in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged,

has granted, bargained and sold to the said party of the second part, its successors and assigns forever,

the following described land situate, lying and being in the County of **Broward**

and State of Florida, to-wit:

South one-half (1/2) of Section 11, less FEC R/W, Township 51 South, Range 38 East;

East one-half (1/2) of Section 14, less FEC R/W, Township 51 South, Range 38 East, and

The North 186.99 acres of the West one-half (W 1/2) of Section 14, less FEC R/W, Township 51 South, Range 38 East, all located in Broward County, Florida.

SUBJECT TO: (1) Taxes for the year 1975 and subsequent years;
(2) Easements, restrictions and dedications of record.

This Corrective Deed has been executed and delivered to correct a scrivener's error in that certain Warranty Deed dated July 28, 1975, in favor of the Kanter Corporation of Florida, recorded under Clerk's File No. 75-141159, at Official Records Book 6293, page 928, of the Public Records of Broward County, Florida.

76 JUN 10 PM 2:48

LAW OFFICES
LEVINE, RECTOR & REED, P.A.
3501 BISCAYNE BOULEVARD
MIAMI, FLORIDA 33137

STATE OF FLORIDA
DOCUMENTARY STAMP TAX
DEPT. OF REVENUE
12332
00.30

FLORIDA
SUR TAX
00.50

REC-6616 PAGE 522

And the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

This instrument prepared by: **Richard Ian Brickman**
Address **3501 Biscayne Blvd., Miami, Fla. 33137**

In Witness Whereof, the said party of the first part has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, attested by its Secretary, the day and year above written.

Attest: Fred H. Adler Secretary, By R. E. Wildermuth President, AIRO-JET INDUSTRIAL CITY, INC.

Signed, sealed and delivered in the presence of us

State of Florida, OHIO

County of HAMILTON

I Hereby Certify, that on this 1st day of June A D. 19 76, before me personally appeared R. E. Wildermuth and Fred H. Adler, President and Secretary respectively of Airo-Jet Industrial City, Inc., a corporation under the laws of the State of Florida, to me known to be the persons who signed the foregoing instrument as such officers and expressly acknowledged the execution thereof to be their free act and deed as such officers for the uses and purposes therein mentioned and that they affixed thereto the official seal of said corporation, and that the said instrument is the act and deed of said corporation.

Witness my hand and official seal at Cincinnati in the County of Hamilton and State of Ohio the day and year last aforesaid.

Harmon T. Karnes
HARMON T. KARNES
Notary Public, State of Ohio
My Comm. expires Dec. 29, 1978



WARRANTY DEED
FROM CORPORATION TO CORPORATION
FROM
TO
Bated
ABSTRACT OF DESCRIPTION
RANCO FORM 357

REC- 6616 PAGE 523

30
55

76-128308 **Warranty Deed**

This Indenture, made this 14th day of June 4 D 1976

BETWEEN

AIRO-JET INDUSTRIAL CITY, INC.

a corporation

existing under the laws of the State of Florida, having its principal place of
business in the County of Dade and State of Florida

and lawfully authorized to transact business in the State of Florida, party of the first part, and

KANTER CORPORATION OF FLORIDA, 4700 Biscayne Blvd., Miami

a corporation existing under the laws of the State of Florida, having its

principal place of business in the County of Dade and State of Florida

and lawfully authorized to transact business in the State of Florida, party of the second part.

WITNESSETH: That the said party of the first part, for and in consideration of the sum of

Ten Dollars & other good and valuable considerations ~~follow-~~

to it in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged,

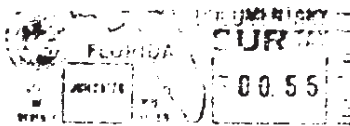
has granted, bargained and sold to the said party of the second part, its successors and assigns forever,

the following described land situate, lying and being in the County of Broward

and State of Florida, to-wit:

West one-half (1/2) of Section 23, Township 51-South,
Range 33 East, and

East one-half (1/2) of Section 22, Township 51-South,
Range 38 East; located in Broward County, Florida.



76 JUN 29 AM 10:20

OFF REC 6036 PAGE 401

2
5

And the said party of the first part does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

This instrument prepared by: **Richard E. Beckson** ✓
Address 3501 Biscayne Blvd., Miami, Fla. 33137

In Witness Whereof, the said party of the first part has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, attested by its Secretary, the day and year above written

AIRO-JET INDUSTRIAL CITY, INC.

Attest: Fred H. Adler
Fred H. Adler Secretary

By: R. E. Wildermuth
R. E. Wildermuth President

Signed, sealed and delivered in the presence of us
Margaret J. Haumbach
Juditha M. ...

State of ~~FLORIDA~~ OHIO

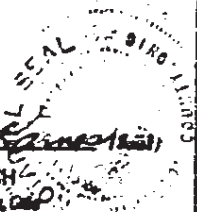
County of HAMILTON

I Herby Certify, that on this 14th day of June A. D. 1976, before me personally appeared R. E. Wildermuth and Fred H. Adler President and Secretary respectively of Airo-Jet Industrial City, Inc. a corporation under the laws of the State of Florida

to me known to be the persons who signed the foregoing instrument as such officers and severally acknowledged the execution thereof to be their free act and deed as such officers for the uses and purposes therein mentioned and that they affixed thereto the official seal of said corporation, and that the said instrument is the act and deed of said corporation

Witness my hand and official seal at Cincinnati, in the County of Hamilton, and State of Ohio this day and year last aforesaid.

Margaret J. Haumbach
MARY J. HAUMBACH
Notary Public, Hamilton County, Ohio
My Commission Expires March 12, 1978



Warranty Deed
FROM CORPORATION TO CORPORATION
FROM
TO
Abstract of Description

OTL REC 6638 PAGE 450

Warranty Deed

78-292124

This Indenture, Made, this 30 day of October, A. D. 19 78.

BETWEEN AIRO-JET INDUSTRIAL CITY, INC.

a corporation

existing under the laws of the State of Florida, having its principal place of
at 1132 West Kemper Road, Cincinnati, Ohio, 45240
business in the County of and State of

and lawfully authorized to transact business in the State of Florida, party of the first part, and
THE KANTER CORPORATION OF FLORIDA

a corporation existing under the laws of the State of Florida, having its
at 1132 West Kemper Road, Cincinnati, Ohio, 45240
principal place of business in the County of and State of

and lawfully authorized to transact business in the State of Florida, party of the second part,

WITNESSETH: That the said party of the first part, for and in consideration of the sum of
TEN AND NO/100-----Dollars

to it in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged,
has granted, bargained and sold to the said party of the second part, its successors and assigns forever,
the following described land situate, lying and being in the County of Broward

and State of Florida, to-wit:

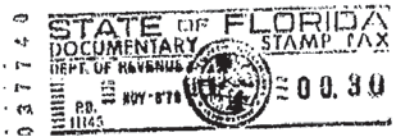
All of Section 15, Township 51 South, Range 38 East, Broward County,
Florida,

AND

All of the acreage that has heretofore not been conveyed in Section 14,
Township 51 South, Range 38 East (approximately 129.10 acres) the in-
tent being that all of said Section 14, Township 51 South, Range 38
East is hereby and heretofore being conveyed by the grantor herein to
the named grantee.

Subject to:

Easements, conditions, restrictions, limitations, reservations, if
any, of record.



And the said party of the first part does hereby fully warrant the title to said land, and will defend the
same against the lawful claims of all persons whomsoever.

This Instrument prepared by:
MILLCENT PELLE, ESQ.
LEVINE, RECKSON & REED, P.A.
3501 Biscayne Boulevard
Miami, Florida 33137
573-5500

RETURN TO:

78 NOV 3 PM 2:22

REC 7861 NOV 4 1978

In Witness Whereof, the said party of the first part has caused these presents to be signed in its name by its proper officers, and its corporate seal to be affixed, attested by its Secretary, the day and year above written.

Attest: Fred H. Adler
Secretary.

AIRO-JET INDUSTRIAL CITY, INC.
By R. E. Wildermuth
R. E. Wildermuth, President.

Signed, sealed and delivered in the presence of us:
Juanita Murdoch

State of ~~Florida~~
County of HAMILTON

I Hereby Certify, that on this 27th day of October A. D. 1978, before me personally appeared R. E. WILDERMUTH and Fred H. Adler, President and Secretary respectively of AIRO-JET INDUSTRIAL CITY, INC., a corporation under the laws of the State of Florida, to me known to be the persons who signed the foregoing instrument as such officers and severally acknowledged the execution thereof to be their free act and deed as such officers for the uses and purposes therein mentioned and that they affixed thereto the official seal of said corporation, and that the said instrument is the act and deed of said corporation.

Witness my hand and official seal at Cincinnati in the County of Hamilton and State of Ohio the day and year last aforesaid.

JUANITA MURDOCH
Notary Public, State of Ohio
My Comm. Exp. Expires Feb. 8, 1982

Juanita Murdoch (Seal)
Notary Public, State of Ohio



RAMCO FORM 351
Warrantly Book
FROM CORPORATION TO CORPORATION
FROM
TO
ABSTRACT OF DESCRIPTION
Filed

RECORDED IN THE OFFICIAL RECORDS BOOK
OF BROWARD COUNTY, FLORIDA
R. R. KAUTH
COUNTY ADMINISTRATOR

SEE 7861 PAGE 50

82- 35876

This instrument was prepared by:
RICHARD E. RECKSON, ESQ.
LEVINE, RECKSON, REED & GEIGER, P.A.
Attorneys at Law
3501 Brickyard Boulevard
MIAMI, FLORIDA 33137

Warranty Deed

(STATUTORY FORM--SECTION 689.02 F.S.)

This Indenture, Made this 8th day of February 1982 Between
KANTER CORPORATION OF FLORIDA, INC., a Florida corporation,
of the County of Dade State of Florida grantor* and
GEORGE ZUCKMAN

whose post office address is 2780 N.E. 183 Street, North Miami Beach, FL 33160

of the County of Dade State of Florida grantee*

Witnesseth, That said grantor for and in consideration of the sum of TEN AND NO/100 (\$10.00)-----

Dollars,
and other good and valuable considerations to said grantor in hand paid by said grantee the receipt whereof is hereby
acknowledged has granted bargained and sold to the said grantee and grantee's heirs and assigns forever, the following
described land situate lying and being in Broward County Florida to wit

720.00
has been paid
in Broward County for Documentary
Stamp Tax according to law.
Notary Public

The East 1/2 of Section 23, Township
51 South, Range 38 East, lying and
being in Broward County, Florida.

SUBJECT TO:

1. Taxes for the year 1982 and subsequent years.
2. Zoning and governmental ordinances, if any.
3. Conditions, restrictions, limitations and easements of record, if any.
4. That certain mortgage in favor of Kanter Corporation of Florida, Inc., recorded February 3, 1982, in Official Records Book 10012, at Page 854, of the Public Records of Broward County, Florida.

and said grantor does hereby fully warrant the title to said land and will defend the same against the lawful claims of all persons whomsoever

* "Grantor" and "grantee" are used for singular or plural as context requires

In Witness Whereof, Grantor has hereunto set grantor's hand and seal the day and year first above written
Signed, sealed and delivered in our presence

KANTER CORPORATION OF FLORIDA, INC. (Seal)

BY: J. H. Kanter President (Seal)

Attest: Joyce Winston Assistant Secretary (Seal)

(CORPORATE SEAL)

STATE OF Florida
COUNTY OF Dade

I HEREBY CERTIFY that on this day before me, an officer duly qualified to take acknowledgments, personally appeared
J. H. KANTER and JOYCE WINSTON, President and Secretary, respectively, of
KANTER CORPORATION OF FLORIDA, INC., a Florida corporation
to me known to be the persons described in and who executed the foregoing instrument and acknowledged before me that
they executed the same

WITNESS my hand and official seal in the County and State last aforesaid this 8th day of February
19 82.

My commission expires

NOTARY PUBLIC STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES SEPT. 29 1982
BONDED THRU GENERAL INS. UNDERWRITERS

GRAHAM W. WATT
Notary Public

FEB 10 8 53 AM '82

REC 10025 ME 697

4.00
8

Know all men by these presents:

THAT THE KANTER CORPORATION OF FLORIDA, a Florida corporation
of Dade County, Florida
in consideration of One Dollar (\$1.00) and other valuable consideration
to it in hand paid by THE KANTER CORPORATION, an Ohio corporation,
whose address is 4700 Ashwood Drive-Suite 400, Cincinnati, Ohio 45241,
does hereby GRANT, BARGAIN, SELL and CONVEY
to the said The Kanter Corporation,
its successors ~~XXXXXX~~

and assigns forever, the following described REAL ESTATE,⁽¹⁾

Situated in the County of Broward, State of Florida, and being further described as:

All, west of Canal less F.E.C. R/W Section 9, Township 50 South, Range 37 East, containing 537.00 acres of land.

All, less F.E.C. R/W Section 3, Township 50 South, Range 37 East, containing 638.75 acres of land.

All of Sections 4, 5, 9 and 10, Township 50 South, Range 37 East, containing 2,560 acres of land.

All west of Canal less F.E.C. R/W Section 11, Township 50 South, Range 37 East, containing 618.00 acres of land.

All of Sections 14, 15, 16, 21, 22 and 23 Township 51 South, Range 38 East, containing 3,832.19 acres of land.

South 1/2 Section 11, less F.E.C. R/W Township 51 South, Range 38 East, containing 314.95 acres of land.

South 1/2 Section 10, Township 51 South, Range 38 East, containing 320.00 acres of land.

North 1/2 Sections 26, 27 and 28 Township 51 South, Range 38 East, containing 960 acres of land.

Northeast quarter of Section 29; the east 1/2 of the northwest quarter and the southwest quarter of the northwest quarter of Section 29, all in Township 51 South, Range 38 East, containing 290 acres of land.

EXCEPTING THEREFROM:

The north 1/2 of Sections 26 and 27, Township 51 South, Range 38 East, containing 640 acres of land. *

Subject to restrictions, reservations, agreements, and easements of record, if any, and zoning restrictions, legal highways, and such taxes and assessments as the grantees are to pay, as provided herein.

* The North 294.25 acres of Section 9, Township 50 South, Range 37 East.

East 1/2 Section 23, Township 51 South, Range 38 East, containing 320 acres of land. The north 25 acres of the west 1/2 of the northwest 1/4 of Section 5, Township 50 South, Range 37 East.

and all the ESTATE, RIGHT, TITLE and INTEREST of the said grantor in and to said premises; TO HAVE AND TO HOLD the same, with all the privileges and appurtenances thereunto belonging, to said grantee, its successors and assigns forever. And the said

The Kanter Corporation of Florida,
for itself, its successors, and assigns **does hereby COVENANT and WARRANT** that the title so conveyed is CLEAR, FREE and UNINCUMBERED, and that it will DEFEND the same against all lawful claims of all persons whomsoever, excepting taxes and assessments due and payable ~~to~~ ~~XXXXXX~~ which the grantee(s) herein assume(s) and agree(s) to pay.

(1) Include reference to volume and page of next preceding recorded instrument through which grantor claims title. (R.C. § 319.29)

Witness: Blank, Kama

DEC 10 1983

REC 10747 PG 257

IN WITNESS WHEREOF, the said The Kanter Corporation of Florida, grantor, has caused its corporate name to be hereunto subscribed by Fred H. Adler, its Treasurer, its Vice-President, and R. E. Wildermuth, Directors, this 1st day of March, in the year A.D. nineteen hundred and eighty three (1983).

Signed and acknowledged in presence of us:

Juanita D. ...
J. ...

THE KANTER CORPORATION OF FLORIDA

Fred H. Adler
 Fred H. Adler, Vice-President

R. E. Wildermuth
 R. E. Wildermuth, Treasurer

THE STATE OF OHIO COUNTY OF HAMILTON

BE IT REMEMBERED, That on this 1st day of March, in the year of our Lord, one thousand nine hundred and eighty-three (1983), before me, the subscriber, a Notary Public in and for said County and State, personally appeared Fred H. Adler, Vice-President, and R. E. Wildermuth, Treasurer, of the Kanter Corporation of Florida, the corporation,

whose name is subscribed to and which executed the foregoing instrument, and for themselves and as such officers respectively, and for and on behalf of said corporation, acknowledged the signing and execution of said instrument; and acknowledged that they executed, said instrument, by authority of the Board of Directors, and on behalf, of said corporation; and that the signing and execution of said instrument is their free and voluntary act and deed, their free act and deed as such officers; and that the foregoing instrument is their free and voluntary act and deed of said corporation, for the use and purposes in said instrument mentioned.

This instrument prepared by Fred H. Adler (ja)

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and official seal on the day and year last aforesaid.

RECORDED IN THE OFFICIAL RECORDS BOOK OF BROWARD COUNTY, FLORIDA
F. T. JOHNSON
 COUNTY ADMINISTRATOR

Notary Public, State of Florida
 My Comm. expires 11/11/1987

Warranted True

From THE KANTER CORPORATION OF FLORIDA To THE KANTER CORPORATION

Transferred 19

County Auditor.

STATE OF COUNTY, 19

Presented for record on the day

of 1983 at

Clinton, M.

Recorded 19

in Dated Book No.

Page

County Recorder.

REC 10747FG 258

96-265671 T#001
06-03-96 09:18AM

Prepared by and
Return to:

\$ 0.70
DOCU. STAMPS-DEED

Robert Pondolfi, Esq.
Simon, Schindler & Sandberg
2650 Biscayne Boulevard
Miami, Florida 33137-4590
Without Opinion of Title

RECD. BROWARD CTY
B. JACK OSTERHOLT
COUNTY ADMIN.

WARRANTY DEED

THIS WARRANTY DEED made this 27th day of October, 1994 between GEORGE ZUCKMAN and ETHEL ZUCKMAN, husband and wife, who reside at 2780 N. E. 183 Street, North Miami Beach, Florida 33160 in the County of Dade, grantor*, to KANTER CORPORATION OF FLORIDA, INC. a Florida Corporation, and whose post office address is 3550 Biscayne Boulevard, Suite 504, Miami, Florida 33137 State of Florida, Grantee*,

*"Grantor" and "Grantees" are used for singular or plural, as the context requires.

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN and NO/100 DOLLARS (\$10.00) and OTHER GOOD AND VALUABLE consideration, to said Grantor in hand paid by said Grantees, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantees, and Grantees' heirs and assigns forever, the following described land, situate, lying and being in Broward County, Florida, to wit:

The East 1/2 of Section 23, Township 51 South, Range 38 East, lying and being in Broward County, Florida.

Folio Number:

Street Address:

SUBJECT TO: conditions, restrictions, reservations, limitations and easements of record, if any and applicable zoning ordinances, taxes for the year 1994 and subsequent years.

AND Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

John E. Kanter
WITNESS
John E. Kanter
(Print Name)

George Zuckman
GEORGE ZUCKMAN

Donna Hill Ferguson
WITNESS
Donna Hill Ferguson
(Print Name)

Ethel S. Zuckman
ETHEL ZUCKMAN

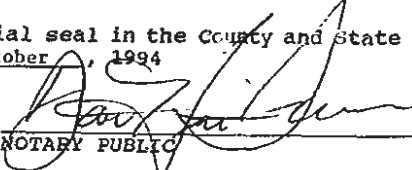
BR 24951 PG 0956

102164

STATE OF FLORIDA)
) ss:
COUNTY OF DADE)

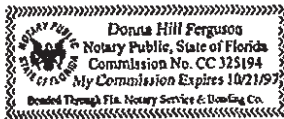
I HEREBY CERTIFY that in this day, before me, an officer duly authorized to administer oaths and take acknowledgements, personally appeared GEORGE ZUCKMAN and ETHEL ZUCKMAN, husband and wife, to me known to be the persons described in and who executed the foregoing instrument, who acknowledged before me that they executed same, that they are personally known to me and that an oath was taken.

Witness my hand and official seal in the County and State last aforesaid this 27th day of October, 1994


NOTARY PUBLIC

Donna Hill Ferguson
Print name

My Commission Expires:



RECORDED IN THE OFFICIAL RECORDS BOOK
OF BROWARD COUNTY, FLORIDA
COUNTY ADMINISTRATOR

BK 24951 PG 0957

robert\zuckman.wd

96-354727 T#001
07-22-96 12:01PM

WARRANTY DEED

THIS WARRANTY DEED made this 1st day of July, 1996 between Kanter Corporation of Florida, whose address is 3550 Biscayne Blvd., Suite 504, Miami, Florida 33137 in the county of Dade, grantor*, to Kanter Corporation, Inc. an Ohio Corporation, and whose address is 4700 Ashwood Drive, Suite 400, Cincinnati, Ohio 45241 State of Ohio, Grantee*,

* "Grantor" and "Grantees" are used for singular or plural, as the context requires

WITNESSETH: That the Grantor, for and in consideration of the sum of TEN and NO/100 DOLLARS (\$10.00) and OTHER GOOD AND VALUABLE consideration, to said Grantor in hand paid by said Grantees, the receipt whereof is hereby acknowledged, have granted, bargained and sold to the said Grantees, and Grantees' assigns forever, the following described land, situate, lying and being in Broward County, Florida, to wit:

The East 1/2 of Section 23, Township 51 South,
Range 38 East, lying and being in Broward County, Florida.

\$ 0.70
DOCU. STAMPS-DEED
RECD. BROWARD CTY
B. JACK OSTERHOLT
COUNTY ADMIN.

Folio Number:

Street Address:

SUBJECT TO: conditions, restriction, reservations, limitation sand easements of record, if any and applicable zoning ordinances, taxes for the year 1996 and subsequent years.

AND Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the said Grantor has signed and sealed these presents the day and year first above written.

Signed, sealed and delivered in our presence:

Kathryn S. Donovan
WITNESS

KATHRYN S. DONOVAN
(Print Name)

Amy Gullerua-Miller
WITNESS

Amy Gullerua-Miller
(Print Name)

KANTER CORPORATION OF FLORIDA, INC.

BY: R. E. Wildermuth
R. E. Wildermuth, President

Kanter Corp 3550 Biscayne Blvd. #504 Miami FL 33137

BK 25163PG0919

2

STATE OF OHIO)
)ss:
COUNTY OF HAMILTON)

I HEREBY CERTIFY that in this day, before me, an officer duly authorized to administer oaths and take acknowledgments, personally appeared, R. E. Wildermuth, to me known to be the person described in and who executed the foregoing instrument, who acknowledged before me that he executed same, that he is personally known to me and that an oath was taken.

Witness my hand and official seal in the County and State last aforesaid this 2nd day of July, 1996



AMY GULLEMAN-MILLER
Notary Public, State of Ohio
My Commission Expires Feb. 12, 1998

Amy Gulleman-Miller
NOTARY PUBLIC
Amy Gulleman-Miller
Print Name

My Commission Expires: February 12, 1998

This instrument was prepared
by R. E. Wildermuth

RECORDED IN THE OFFICIAL RECORDS BOOK
OF BROWARD COUNTY, FLORIDA
COUNTY ADMINISTRATOR

BK 25163P60920

Exhibit F: Agent Authorization Letter

Kanter Real Estate LLC
2601 South Bayshore Drive
Suite 1450
Miami, FL 33131

Re: Kanter 23-1

To: DEP/SFWMD

Fr: The Kanter Real Estate LLC

Re: Kanter 23-1

Date : June 30, 2015

The Carol Group, Inc. is authorized by Kanter Real Estate LLC to represent The Kanter Corporation of Florida in matters concerning all permitting with FDEP and SFWMD concerning the project Kanter 23-1.

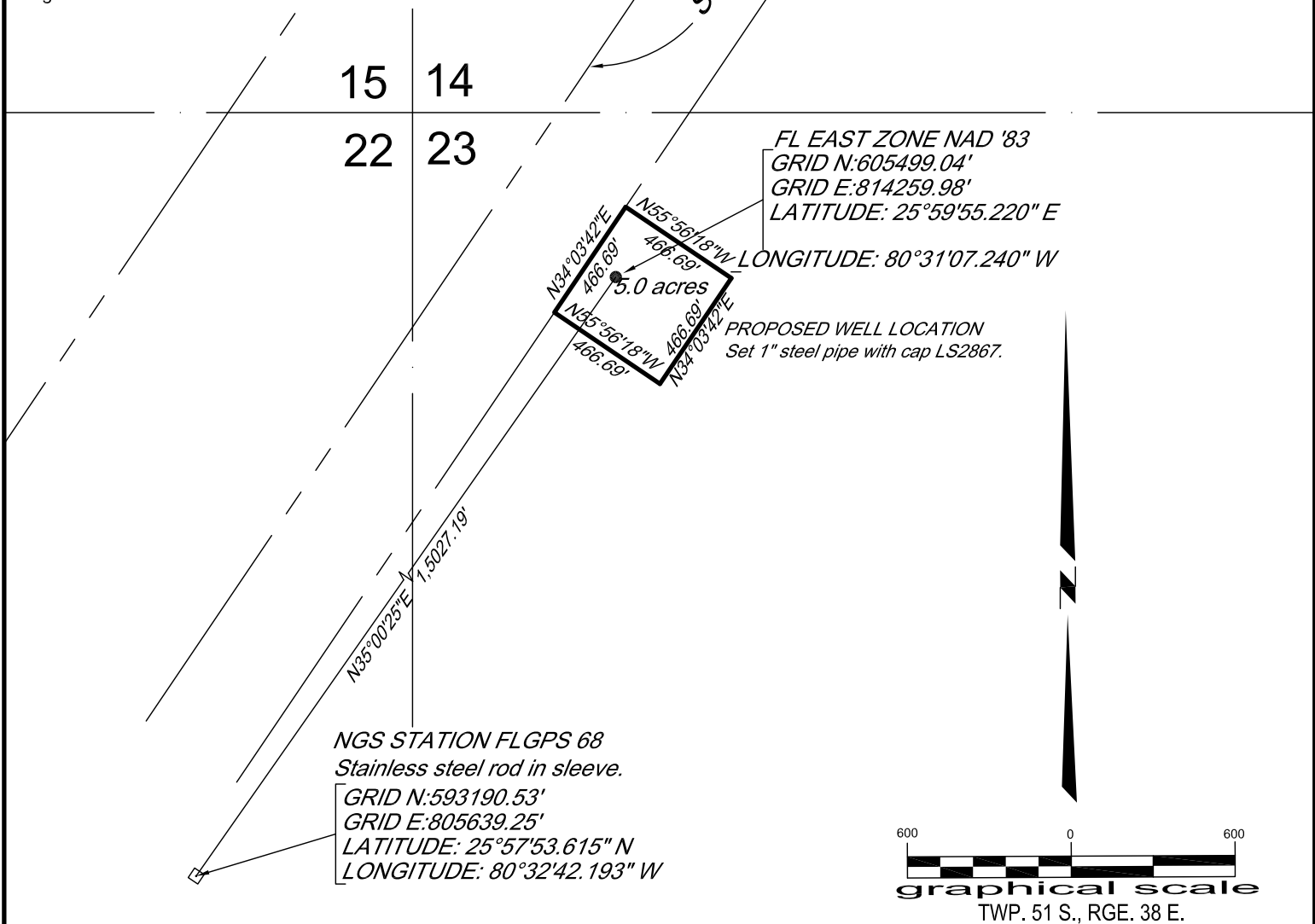
Thank you,


John E. Kanter
President

Exhibit G: Well Location Plat

NOTES:

- [1] This special purpose survey is to describe and stake out the location for a proposed well in the unsurveyed portion of the Everglades estimated to be within Section 23, Township 51 South, Range 38 East, Broward County, Florida.
- [2] No search of the public records has been made by this office as to the vested ownership of this property. A search of the Broward County Property Appraiser's website does not cover this land as indicating the taxable owner.
- [3] This property was never surveyed by neither the Government Land Office nor the State of Florida. Sections lines shown hereon were scaled from the SFWMD L-67A R/W map and are not to be considered as correct without a sectional survey.
- [4] The bearings and distances shown hereon are grid Florida State Plane Coordinate System, East Zone, North American Datum of 1983 with the 2011 adjustment and based on the line from National Geodetic Survey monument designated as FLGPS 68 PID no. AC4655 having a coordinate value of 593,190.53 feet north and 805,639.25 feet east as published in their data sheet retrieved August 12, 2014 to the set 1" steel pipe for the proposed well location as being N35°00'25"E.



By: *Howard*
 For the firm: Orvell Howard, LS 2867
 THE CAROL GROUP INC., LB 8003
 208 Dal Hall Boulevard
 Lake Placid, FL 33852

Date: 08-20-2014
 Unless it bears the signature and the original raised seal of a Florida licensed surveyor and mapper this drawing, sketch, plat or map is for informational purposes only and is not valid.
 Copyright © 2014 by THE CAROL GROUP, INC.

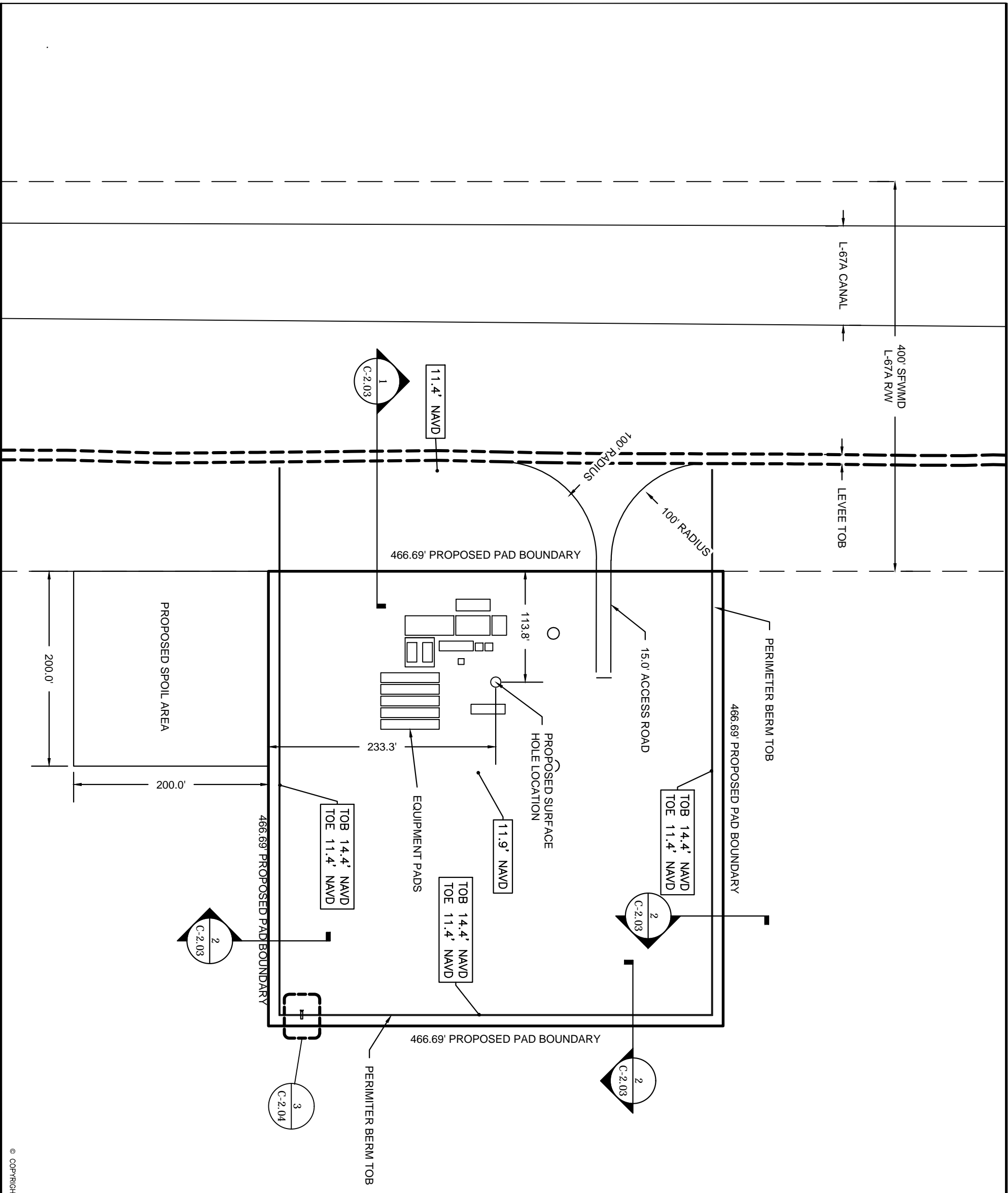
SPECIAL PURPOSE SURVEY
KANTER PROPOSED WELL LOCATION

THE CAROL GROUP, INC

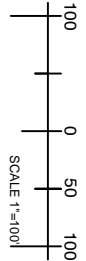
Professional Engineers and Surveyors

208 Dal Hall Boulevard Lake Placid, FL 33852

Exhibit H: Sketch of the Pad



Received by Florida Department of Environmental Protection on 7/8/15



© COPYRIGHT THE CAROL GROUP, INC. 2014 ALL RIGHTS RESERVED

C-2.02 SHEET	DATE 10-13-2014	CHECKED BY WRR	DESIGNED BY JRB	TOC PROJECT KA2014.03	THE CAROL GROUP, INC <i>Professional Engineers and Surveyors</i> 208 Dal Hall Boulevard Lake Placid, FL 33852	REVISIONS
	MASTER SITE/GRADING PLAN KANTER 23-1 Broward County, Florida					

Exhibit I: Aerial Photograph with Pad Layout



Received by Florida Department of Environmental Protection on 7/8/15



PROPOSED FLUCCS CODE:
743 - SPOIL AREAS
EXISTING FLUCCS CODE:
6411 - FRESHWATER MARSH
- SAWGRASS

PROPOSED FLUCCS CODE:
1641 - OIL AND GAS FIELDS - CRUDE OIL
EXISTING FLUCCS CODE:
6411 - FRESHWATER MARSH - SAWGRASS

VEGETATIVE COMMUNITY TYPE:
GLADES MARSH (G3/S3)

FLUCCS CODE 6411
FRESHWATER MARSH - SAWGRASS

SFMWD L-82A RM
400'

EXISTING LEVEE
ACCESS ROAD

PROPOSED SURFACE
HOLE LOCATION

PROPOSED PAD
BOUNDARY

SHEET C-2.01	CHECKED BY: JRB DATE: 10-13-2014	TOC PROJECT: KA2014.03	THE CAROL GROUP, INC <i>Professional Engineers and Surveyors</i> 208 Dal Hall Boulevard Lake Placid, FL 33852	REVISIONS
	AERIAL / FLUCCS MAP KANTER 23-1 Broward County, Florida			

Exhibit J: Hydrogen Sulfide Gas Contingency Plan



H2S CONTINGENCY PLAN

Well Name: Kanter 23-1

**Location: Sec.23 T51S R38E
Broward County, Florida**

Field: Wildcat

H2S Contingency Plan

Date: January 8, 2015

Location: Sec. 23 T51S R38E Broward County, Florida
920' FNL, 920' FWL

Purpose:

The purpose of this plan is to provide protection for The Kanter Corporation personnel, its contractors, subcontractors, and the general public, whenever a potentially dangerous situation may exist from Hydrogen Sulfide (H2S) during the drilling or production operation.

Policy:

When H2S is encountered, if Safety First is not on location to determine H2S concentrations, all activities will cease until the proper safety equipment can be obtained to resume work. Until the equipment arrives. All personnel will be required to move to a safe distance upwind of the release.

Employee Training:

Every *employee* who works in an area where H2S is present or has the potential to be present shall receive H2S training prior to entering the site. This training will be confirmed by the employee presenting a certificate of completion in a certified Hydrogen Sulfide training class. In addition, The Kanter Corporation will ensure that every contractor and subcontractor's employees are adequately trained in H2S training.

Site Access:

Access to the well site during drilling and completion operations shall be limited to authorized personnel only. Variances from this policy may not be made without prior written approval by The Kanter Corporation.

H2S Contingency Plan

Briefing Area:

A briefing area shall be established prior to work has commenced. At a time of emergency, employees on site are to report to this area, and stay until released by the in charge person of the site. It should be located at the entrance to the location on the access road, if upwind of the well. A secondary site should also be selected if the winds are unfavorable for the primary site. Flags and/or streamers shall be used to monitor wind direction, and the briefing areas can be changed if conditions warrant such a change to avoid hazardous situations.

A safety meeting should be held prior to each shift. These safety meetings will consist of identifying the briefing areas and evacuation routes for the site.

A concentration of 10 ppm in the area shall be a sufficient H2S concentration to expand the briefing area.

Emergency Equipment:

At a minimum, the following equipment will be required at all well sites that have the potential for H2S concentrations:

- ◇ One (1) 4 head H2S detector system with sufficient numbers of alarms
- ◇ H2S warning signs on location and at the entrance of the lease road.
- ◇ Four (4) SCBA (Self Contained Breathing Apparatus) with 30 minute tanks
- ◇ Two (2) Wind Socks or Flags
- ◇ Two Safe Briefing Area Signs
- ◇ Five, 5 minute Escape Packs
- ◇ One (1) Sensidyne Pump with H2S tubes
- ◇ One (1) Flare Gun Kit with Flares

NOTE: Automatic monitors with four (4) heads and a range of 1-99 ppm should be set to go off at 10 ppm and placed in the following locations.

H2S Contingency Plan

- #1 Near Driller's location on the rig floor
- #2 Under the rig floor near the Bell Nipple
- #3 In the area of the shale shaker
- #4 At the end of the mud mixing pits.

Preparing for and Responding to H2S Conditions

All personnel onsite will be trained over H2S characteristics and hazards, emergency procedures, and be familiar with and able to use respiratory protection.

If there is evidence of H2S concentrations of 15 ppm or higher, the on-site supervisor or his designated back-up will ensure the following steps are taken:

1. All essential operational personnel don supplied air.
2. All nonessential personnel ordered off location
3. Essential operational personnel report to their blowout positions and tool pusher is on floor.
4. Driller picks up off bottom.
5. Safety First representative called to location and determines source of H₂S with portable detector.
6. If H₂S concentration is below 100 ppm:
 - Determine action steps to best control release (circulate bottoms up, increase pH and zinc oxide concentration in drilling fluid, increase mud weight, go to flare)
 - Monitor well closely for flow
 - Sustained H₂S concentrations of 15 ppm or higher constitute a "Tier 1 emergency"
 - Supplied air may be removed when H₂S concentrations are below 15 ppm

H2S Contingency Plan

If H₂S is above 100 ppm:

- Flare gas to separator
- Continue to monitor and treat pH and zinc oxide concentrations in drilling fluid.
- Monitor well closely for flow and raise mud weight as appropriate. If flow and H₂S is encountered while drilling the A2 or A1 Carbonate zone, continue to flare and circulate while waiting on bulk hematite.
- Continue to monitor H₂S on rig and on location perimeter
- Sustained H₂S concentrations of 100 ppm on location constitutes a “Tier 2 Emergency”
-
- Work in areas exceeding 500 ppm H₂S must be planned and approved by the onsite supervisor. If concentrations cannot be controlled, remove all personnel to an up wind area. Continue monitoring the immediate area.
- Monitor the perimeter of the site. If sustained concentrations of 15 ppm or higher are detected downwind of the location perimeter, this constitutes a “Tier 2 Emergency”. Insure immediate area is free of Hunters or Hikers and contact local Sheriff’s office for assistance as necessary.

Topo. Map

H2S Contingency Plan

A residence map of the area shall contain herein showing all private dwellings, public buildings and other areas that public personnel might be expected. The map shall also list whether they residence are full time or seasonal. The map shall have a legend that identifies a method of communicating with the residence in the event of an emergency. A copy of this contingency plan must also be made available to them if they so wish. Attempts should be made to contact all residence adjacent to the location prior to the drilling process taking place.

Landowner

Phone #

Status

There are no known Residences or improvements within a 1 mile radius.

Safety Introduction

H2S Contingency Plan

H2S Safety Introduction:

It is intended that these voluntary recommended practices provide guidelines that will promote and maintain public safety and safe and healthy working conditions for employees engaged in the oil and gas production operations and gas processing plant operations involving Hydrogen Sulfide.

Significant amounts of produced liquid and gaseous hydrocarbons contain hydrogen sulfide in sufficient concentrations to present a potential hazard to personnel and equipment. To successfully produce, gather, treat and transport these hydrocarbons requires that the people manning the operation be trained and equipped to safely perform their duties.

Hydrogen Sulfide is an extremely toxic gas. In fact it is almost as toxic as hydrogen cyanide. In oilfield operations, a wide range of hydrogen sulfide concentrations may be found. The effects of these concentrations also range widely from a disagreeable odor or eye irritation at low concentrations to a serious illness or even death at higher concentrations. Personnel working in areas where they may be exposed to hydrogen sulfide should be trained to recognize and understand its hazards and to protect themselves from its harmful effects.

H2S PHYSICAL & CHEMICAL CHARACTERISTICS

Some of the significant physical and chemical characteristics of hydrogen sulfide are:

1. Extreme toxicity (almost as poisonous as hydrogen cyanide)
2. Heavier than air (specific gravity of 1.189)
3. Colorless
4. Has odor of rotten eggs in low concentration, at high concentrations it is odorless.
5. Burns with a blue flame and produces SO₂ (sulfur dioxide) which can cause eye and lung irritation.
6. Forms an explosive mixture with the air at concentrations between 4.3% and 46% by volume of air.
7. Soluble in water and oil but becomes less soluble as the fluid temperature increases.

H2S Contingency Plan

Concentrations In Air

Percent By Volume	Parts Per Million By Volume	Grains Per 100 standard Cubic Feet	Milligrams Per Cubic Meter	Physiological Effects
0.000013	0.13	0.008	0.18	Obvious and unpleasant odor generally Perceptible at 0.13 ppm and quite noticeable at 4.6ppm. As the concentration increase, the sense of small fatigues and the gas can no longer be detected by odor.
0.002	10	1.26	28.83	Acceptable ceiling concentration permitted by MIOSHA
0.01	100	6.30	144.14	MIOSHA acceptable ceiling
0.02	200	12.59	288.06	Kills sense of smell rapidly. Burns eyes and throat.
0.05	500	31.49	720.49	Dizziness, loss of sense reasoning and balance. Breathing problems in a few minutes. Victim needs prompt artificial artificial resuscitation.
0.07	700	44.08	1008.55	Unconscious quickly. Breathing will stop and death will result if victim's are not rescued promptly. Artificial resuscitation is needed.
0.10+	1000+	62.98+	1440.98+	Unconscious at once. Permanent brain damage or death may result unless rescued promptly and given artificial

H2S Contingency Plan

H2S RADIUS OF EXPOSURE

It is important to determine the concentration of hydrogen sulfide potentially present at the well bore and to calculate the radius of exposure of the gas. The **radius of exposure** is the distance from the potential leak or release of gas required for the hydrogen sulfide concentration in the air to dilute below certain designated levels (normally 100ppm).

There are three levels of compliance (I,II,III), which are applicable to the length of the radius of exposure and the presence of “public areas” within the radius of exposure. As the radius of exposure increases and/or the potential for public exposure grows, the operator’s responsibilities and the number of requirements also increase. Each level of compliance builds upon the previous one and mandates additional requirements on the part of the operator.

Level I

The first level of compliance applies to all operators of facilities having hydrogen sulfide concentrations of 100ppm within a radius of exposure of 50 feet. In other words, the concentration of hydrogen sulfide will fall below the 100ppm less than 50 feet of the source of the release. Operators with facilities in this category must train employees in hydrogen sulfide safety. Contract personnel are prohibited from working at these facilities unless they are properly trained in hydrogen sulfide safety.

@ 100ppm radius of exposure less than 50 feet

- Complete H2S concentration test
- Provide training on H2S Safety
- District office notification
- Have warning signs in place

Level II

The second level of compliance affects facilities where the 100ppm exposure radius is greater than 50 feet, but less than 3,000 feet, and contains no “public areas”. In addition to the requirements of the first level of compliance, operators must post warning signs on access roads and lock unattended surface facilities equipment and use locked fences or gates to deny access to the public located within one-half mile of the facility.

H2S Contingency Plan

@ 100ppm Radius of Exposure 50 feet or greater but less than 3000 feet and contains no public area:

- H2S concentration test
- Provide training on H2S Safety
- District office notification
- Safety Materials
- Warning signs and markers
- Provide security
- Monitors on location
- Wind Indicators (Wind socks)
- Protective breathing equipment should be available

Level III

The third level of compliance applies to operations involving hydrogen sulfide when: (a) the 100ppm radius of exposure exceeds 50 feet and includes any part of a “public area” except a public road; (b) the 500ppm radius of exposure exceeds 50 feet and includes any part of a public road; or (c) the 100ppm radius of exposure exceeds 3000 feet. A public area is a dwelling, place of business, church, school, hospital, school bus stop, government building, a public road, all or any portion of a park, city, town village, or similar area that may be populated.

@ 100ppm radius of exposure is 50 feet or greater and includes a public area and 500ppm R.O.E. is greater than 50 feet and includes a public road. Also if 100ppm R.O.E. exceeds 3,000 feet.

- H2S concentration test
- Training in H2S safety is required
- District office notification
- Safety materials on location or in the area
- Warning signs and markers
- Security provided
- Contingency plan required
- Monitors
- Wind indicators
- Protective breathing equipment
- Choke manifold
- Flare stacks

H2S Contingency Plan

In addition to complying with all the requirements listed above, operators falling within this category of compliance must install safety devices to establish procedures designed to prevent undetected continuing escape of hydrogen sulfide. Intentional releases must be flared.

Operators must prepare a contingency plan, which provides an organized plan of action for alerting and protecting the public within the area of exposure prior to an intentional release, or following an accidental release of potentially hazardous volume of hydrogen sulfide. Notification must be given 12 hours in advance of an intentional release or immediately in the case of an accidental release.

CALCULATION FORMULA

- (1) For all operations subject to this section, the radius of exposure shall be determined, except in the case of storage tanks, by the following Pasquill-Gifford equations.

For determining the location of the 100ppm radius of exposure:

- A. $x = [(1.589)(\text{mole fraction H}_2\text{S (Q)})] \text{ to the power of } (.6258)$.
- B. For determining the location of the 500ppm radius of exposure: $x = [(0.4546)(\text{mole fraction H}_2\text{S (Q)})] \text{ to the power of } 9.6258$. Where x = radius of exposure in feet; Q = maximum volume determined to be available for escape in cubic feet per day; H_2S = mole fraction of hydrogen sulfide in the gaseous mixture available for escape.

WARNING & MARKERS

- (a) For aboveground and fixed surface facilities, the operator shall post, where permitted, clearly visible warning signs on access roads or public streets if permitted by law, or roads, which provide direct access to facilities, located within the area of exposure.
- (b) In populated areas such as cases of town sites and cities where the use of signs is not considered to be acceptable, then an alternative warning plan may be used to alert the public of the potential hazard.

H2S Contingency Plan

- (c) For buried lines, a marker sign shall be installed at public road crossings.
- (d) Marker signs shall be installed along the pipeline, when it is located within a public are or along a public road, at intervals frequent enough in the judgment of the operator so as to provide warning to avoid the accidental rupturing of the line by excavation.
- (e) The marker sign shall contain sufficient information to establish the ownership and existence of the line and shall indicate by the use of the words “Poison Gas” that a potential danger exists.
- (f) Signs should be of sufficient size to be readable at a reasonable distance from the facility.
- (g) New signs constructed shall use the language of “caution” and “Poison Gas” with a black and yellow color contrast.
- (h) Existing signs will be acceptable if they indicate the existence of a potential hazard.

FLARING OPERATIONS

After setting 9-5/8” casing, rig the flare system top the pit. Secure all lines by staking down or chaining to a fixed object. On the pit end of the line, shall a flare head of sufficient design to that it will remain burning while exposed to high-pressure gas. Use propane as the source gas for the flare. Manifold two or more propane (100#) bottles such that one can be changed out while the other is replaced. **CHECK PROPANE QUANTITIES DAILY!!** Ignite the flare once drilling operations resume below 9-5/8” casing point. As a back up ignitions source, have a flare pistol on site, should the main system fail. If a flare is lit, as soon as possible give notice to locate Fire Department.

H2S Contingency Plan

EMERGENCY CONTACT NUMBERS

Consultant

Ed Pollister

Phone

231-631-4721 (Cell)

239-695-2276 (Office/Home)

Drilling Superintendent

Ed Pollister

Phone

231-631-4721 (Cell)

239-695-2276 (Office/Home)

H2S Services

Safety First

Phone

231-258-8222

H2S Contingency Plan

County/State Emergency Phone Numbers

County Dispatch/Fire Dept/Sheriff/Ambulance Phone
Weston & Unincorporated
West Broward County **911**

Hospital
EMT determined

FDEP Oil & Gas Administrator Phone
Ed Garrett (Tallahassee) 850-245-8848 (Office)

FDEP Oil & Gas Coordinator Phone
Paul Attwood (Ft. Myers) 239-344 5721 (Office)
239-229-4293 (cell)

FDEP Field Environmental Specialist Phone
Pierre Bruno (Ft. Myers) 239-344-5611 (Office)
239-229-4291 (Cell)

FDEP Emergency Response Phone
Fort Myers 239-344-5600

Oil Spills Phone
Bureau of Disaster Preparedness 239-344-5689

Air Emissions Phone
South Florida 239-344-5651

Emergency Response Section Phone
Major spills only – Tallahassee 850-245-2010

H2S Contingency Plan

Federal Emergency Phone Numbers

National Response Center Chemical & Toxic Spills	Phone 800-424-8802
EPA Region IV – Atlanta	Phone 404-562-8700 800-424-8802
OSHA Regional Office –Atlanta	Phone 678-237-0400
OSHA Fort Lauderdale Area Office	Phone 954-424-0242

Exhibit K: Drilling Rig Information

PDC Rig #2 Equipment List

Drawworks: OIME SL-5 with two engine compound, powered by (2) 520HP Cat 3406 engines, WPT 4-24 water cooled aux. brake

Mast: Parco 131' 550,000# static hook load, 6 sheave crown block

Substructure: Parco 18.5' split level, 467,000# rotary load, 357,000# simultaneous set back

Doghouses: 10' by 40' skidded with electric panel, lockers, and knowledge box
8' by 40' skidded with tool room & wire line unit

Mud Pump's: #1 Ideco T1000, 1000HP Triplex, powered by Cat 398
#2 Weatherford MP9, 1000HP Triplex, powered by Cat 398

Mud System: 2 pit (940bbl) system with two 6x8 cent. Pumps with 75HP electric motors, 4 Brandt electric mixers, 12 cone de-silter, 2 cone de-sander, Swaco Mongoose shale shaker

Instrumentation: MD 500,000# wt. ind.– tong, torque – pump pressure gauges, Pason EDR

Rotary Equipment: Dreco 27 1/2" (run by catworks from torque tube)

Traveling Equipment: 250 ton Block-Hook, 250 ton Swivel, 5 ¼ hex Kelly

Electrical: (2) 350KW generators powered by series 60 Detroit Diesel engines, Mounted in 10' wide by 40' long house, with electric panel and 150KVA Transformer

BOP's / Well Control Equipment: 13 5/8" 10,000 # double SL type, 13 5/8 " 5000# Annular, Valvecon 120 gallon, 5 station accumulator – mounted in generator house, 4" 10,000# choke manifold, 4 ft X 19 ft gas separator, buster, and burner

Auxiliary Equipment: (2) Hydraulic winches, (1) 5 ton Air Tugger, air kelly spinner, air pipe spinner, Varco hydraulic catworks, hydraulic power unit with 50 HP electric motor, (4) air compressors (2) electric, (2) on compound

Drill String: 4 1/2" 16.6# G-105 drill pipe (10,000 ft), (18) 4 1/2" 42# HW drill pipe, (18) 6 1/4" drill collars , (7) 9" drill collars

Location Size: Optimum 350' X 350', Minimum 260' X 150'

Exhibit L: Well Drilling Procedures

**Permit # 1366
Kanter 23-1
Century Oil Co., Inc.
Drilling Procedure
Broward County, Florida**

DRILLING PROCEDURE

1. MIRU PDC Rig #3
2. Install 20" Diverter and 6" diverter lines. Function Test.
3. Spud with 17 ½" rock bit, 9" drill collars, 6" drill collars, and 5" HWDP. Drill down to 1800' while running both pumps @ 95 spm for a combined flow rate of 600 to 800 gpm. Weight on bit from 5k-25k at a rotary speed of 60-100 rpm.
4. At 1800' sweep hole and circulate clean. POOH to bit and trip back in to 1800'. Circulate & condition mud at POOH.
5. RU casing crew, tools & stabbing board. PU and run Float shoe, one joint of 13 3/8", 54.5# J55 BT&C of casing, Float Collar, and 13 3/8", 54.5# J55 BT&C casing down to 1800'. Note: centralize w/bow springs 6' above FS, and one per joint latched over the next three casing collars.
6. Circulate & condition mud for 1 ½ casing volumes. Mix & pump cement per recommendation. Pump LEAD cement until cement is seen at surface and immediately switch over to TAIL cement. Displace TAIL cement with fresh water. Note: When cement gets to surface divert cement to open top tank.
7. After displacement, Top Off annulus with 50sx. of TAIL cement. If cement falls or fails to circulate, notify FDEP in Fort Myers.
8. Make rough cut/final cut on conductor & casing. Weld on 13 3/8" SOW x 13 3/8" 3M C-22 wellhead. Test well head to 1000#.
9. NU BOP. Test annular preventer to 1000# (High)/200#(Low). Test all floor valves, IBOP, & mud lines back to mud pumps to 3000# (High)/250#(Low).
10. RIH w/ 12 ¼" bit and slick BHA to top of cement.
11. Pressure test casing to 1000#. Drill out float collar, cement, and float shoe.
12. Drill new hole from 1800' – 2100' with both pumps for a combined flowrate of 500-800 gpm. Vary bit weight from 5k-35k at a rotary speed of 80 rpm. POOH for button bit to drill Boulder Zone cap & Boulder Zone.
13. RIH w 12 ¼" button bit drill though Boulder Zone (2100'-3500') with lost returns. Take surveys every 500'.
14. POOH & LD 9" D.C.
15. RU casing crew with tools & stabbing board. RIH w/FS, 2 jts. 9 5/8" 47#, L-80 of casing, FC, & 9 5/8" 47#, L-80 casing down to 3800'.
16. RU cement crew, cement plug container, & iron. Circulate & condition mud for one casing volume. Mix & pump cement per recommendation. Reciprocate to casing 15' and displace cement with mud. Bump plug 500# over differential pressure. Bleed back to check floats. RD cementers.

- 17.** ND flowlines & turn buckles. RU stack lift. Break bolts @ wellhead & spacer spool. Pick up BOP's & set casing slips. Make rough cut on casing & remove spacer spool & DSA. Make final cut on casing & NU 13 5/8", 3M x 11", 5M, C-22 casing spool. Finish NU "B" section. Set BOP's & RD stack lift. NU BOP's.
- 18.** Test "B" section flange & pack off to 2000#. Test all rams, choke manifold, & related valves to 3000# (High)/250# (Low). Test annular preventer to 1000# (High)/250# (Low). Test all floor valves, IBOP, & mud lines back to mud pumps to 3000#(High)/250# (Low).
- 19.** RIH w/8 1/2" PDC bit, 6" DC;s, & 5" DP's down to top of cement. Test casing to 1500#. Drill out FC, cement, & FS. Drill 10' of new hole & circulate bottoms up until clean. Test casing shoe to 11.0# EMW.
- 20.** Drill down through Sunniland. Take surveys every 500'. Make frequent wiper trips every 30 hrs or however the hole dictates. Drill to 11,800' (TD) & POOH.
- 21.** RU Well Loggers & RIH and log well per Geologist recommendations.
- 22.** Upon evaluation, either run production casing and cement or P&A as per FDEP.
- 23.** RD & Move out.

Exhibit M: Proposed Casing and Cementing Program

HALLIBURTON

KANTER CORPORATION
19305 30TH AVE (M-66)
MARION, MI 49665
US

Kanter 23 1

BROWARD County, FL, US

Cement Services Cost Estimate

OPERATOR: POLLISTER DRILLING CORP

Proposal 176842-NC - Version 1.0

July 02, 2015

Prepared for:

Ed Pollister

Submitted by:

Jim Cerra

1384 Sandersville/Sharon Rd

Sandersville, MS - 39477

601-649-9290

HALLIBURTON

Contents

1	Foreword	3
2	Surface Casing.....	4
2.1	Job Information Surface Casing.....	4
2.2	Estimated Calculations Surface Casing	5
2.3	Job Volume Estimates Surface Casing	6
2.4	Volume Estimate Table Surface Casing	7
2.5	Cost Estimate	8
3	Intermediate Casing.....	10
3.1	Job Information Intermediate Casing.....	10
3.2	Estimated Calculations Intermediate Casing	11
3.3	Job Volume Estimates Intermediate Casing	12
3.4	Volume Estimate Table Intermediate Casing	13
3.5	Cost Estimate	14
4	Production Casing	16
4.1	Job Information Production Casing	16
4.2	Estimated Calculations Production Casing	17
4.3	Job Volume Estimates Production Casing	18
4.4	Volume Estimate Table Production Casing	19
4.5	Cost Estimate	20
5	Conditions	23

Halliburton appreciates the opportunity to present this cost estimate and looks forward to being of service to you.

1 Foreword

Enclosed is our cost estimate for cementing the casing strings in the referenced well. The information in this cost estimate includes well data, calculations, materials requirements, and cost estimates. This cost estimate is based on information from our field personnel and previous cementing services in the area.

The selection and use of non-Halliburton plugs and casing attachments often compromises the holistic approach and may jeopardize the overall objective for effective zonal isolation. Furthermore, Halliburton is not involved in the design, manufacture or use of plugs and casing attachments supplied by other manufacturers and assumes no liability for their installation and operation. For this reason we recommend Halliburton plugs and casing attachments be used when Halliburton performs any zonal isolation operation.

Halliburton Energy Services recognizes the importance of meeting society's needs for health, safety, and protection of the environment. It is our intention to proactively work with employees, customers, the public, governments, and others to use natural resources in an environmentally sound manner while protecting the health, safety, and environmental processes while supplying high quality products and services to our customers.

We appreciate the opportunity to present this cost estimate for your consideration and we look forward to being of service to you. Our Services for your well will be coordinated through the Service Center listed below. If you require any additional information or additional designs, please feel free to contact myself or our field representative listed below.

Service Center: Sandersville, MS - Kilgore, TX - Bossier City, LA
Caldwell, TX

Phone Number: 903-986-5096

Service Coordinators: David Sage
Johnny Mize
Kevin Shows
David Ives
Gary Robinson

2 Surface Casing

2.1 Job Information Surface Casing

Job Criticality Status: GREEN

Well Name: Kanter Sunnyland 23

Well #: 1

17-1/2" Open Hole

0 - 1800 ft (MD)

Inner Diameter

17.5 in

Excess Factor

100 %

13-3/8" Conductor Casing

0 - 1800 ft (MD)

Outer Diameter

13.375 in

Inner Diameter

12.615 in

Linear Weight

54.5 lbm/ft

Shoe Joint Length

40 ft

2.2 Estimated Calculations Surface Casing

Stage 1

CEMENT: (1640 ft fill)		
1640 ft * 0.6946 ft ³ /ft * 100 %	= 2278.41 ft ³	
Halliburton Light Standard	= 2278.41 ft ³	
	= 405.8 bbl	
Total Lead	= 1013.97 sack	
CEMENT: (160 ft fill)		
160 ft * 0.6946 ft ³ /ft * 100 %	= 222.28 ft ³	
Standard Cement	= 222.28 ft ³	
	= 39.6 bbl	
Shoe Joint Volume: (40 ft fill)		
40 ft * 0.868 ft ³ /ft	= 34.72 ft ³	
	= 6.2 bbl	
Tail plus shoe joint	= 257.15 ft ³	
	= 45.8 bbl	
Total Tail	= 199.96 sack	
Total Pipe Capacity:		
1800 ft * 0.868 ft ³ /ft	= 1562.34 ft ³	
	= 278.3 bbl	
Displacement Volume to Shoe Joint:		
Capacity of Pipe - Shoe Joint	= 278.3 bbl - 6.2 bbl	
	= 272.1 bbl	

2.3 Job Volume Estimates Surface Casing

Stage 1

Fluid 1: Lead Slurry

EXTENDACEM (TM) SYSTEM

4 % Bentonite

3 % Salt

Fluid Weight: 12 lbm/gal
Slurry Yield: 2.247 ft³/sack
Total Mixing Fluid: 12.8 Gal/sack
Top Of Fluid: 0 ft
Calculated Fill: 1640 ft
Liquid Volume: 405.8 bbl
Calculated sack: 1013.98 sack
Proposed sack: 1020 sack

Fluid 2: Tail Slurry

Standard Cement

94 lbm Standard Cement

Fluid Weight: 15 lbm/gal
Slurry Yield: 1.286 ft³/sack
Total Mixing Fluid: 6.04 Gal/sack
Top Of Fluid: 1640 ft
Calculated Fill: 160 ft
Liquid Volume: 45.8 bbl
Calculated sack: 199.85 sack
Proposed sack: 200 sack

Fluid 3: Water Spacer

Estimated Displacement

Fluid Density: 8.34 lbm/gal
Liquid Volume: 272.1 bbl

Fluid 4: Top Off Annulus

Standard Cement

94 lbm Standard Cement

2 % Calcium Chloride, Pellet

Fluid Weight: 15 lbm/gal
Slurry Yield: 1.317 ft³/sack
Total Mixing Fluid: 6.22 Gal/sack
Liquid Volume: 46.9 bbl
Calculated sack: 0 sack
Proposed sack: 200 sack

2.4 Volume Estimate Table Surface Casing

Calculations are used for volume estimation. Well conditions will dictate final cement job design.

Stage 1

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate	Downhole Volume
1	CEMENT	Halliburton Light Standard	12		1020 sack
2	CEMENT	Standard Cement	15		200 sack
3	SPACER	Estimated Displacement	8.34		272.1 bbl
4	CEMENT	Standard Top Out Cement	15		200 sack

NOTE: These slurries and spacers will require lab testing. The additives and concentrations are estimates based on field experience in the area and may need to be modified prior to the job. The proposed spacer is designed to be generally compatible with water base mud systems. Compatibility testing with field mud samples used may indicate changes in the additive package and the related costs.

2.5 Cost Estimate

Mtrl Nbr	Description	Qty	UOM	Unit Price	Gross Amt	Net Amount
7521	CMT SURFACE CASING BOM	1.00	JOB	0.00	0.00	0.00
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT Number of Units	1,600.00 1	MI	9.79	15,664.00	10,181.60
2	MILEAGE FOR CEMENTING CREW Number of Units	1,600.00 1	MI	5.76	9,216.00	5,990.40
16091	ZI - PUMPING CHARGE FEET/METERS (FT/M) DEPTH	1.00 FT 1800	EA	5,290.00	5,290.00	3,438.50
114	R/A DENSOMETER W/CHART RECORDER,/JOB,ZI NUMBER OF UNITS	1.00 1	JOB	1,285.00	1,285.00	835.25
101235693	PLUG,CMTG, TOP, 13 3/8, HWE, 11.79 MIN/12.72	1.00	EA	998.00	998.00	648.70
74038	ZI PLUG CONTAINER RENTAL-1ST DAY HR/DAY/WEEK/MTH/YEAR/JOB/RUN DAYS OR FRACTION (MIN1)	1.00 DAY 1	EA	1,322.00	1,322.00	859.30
90	ZI QUICK LATCH ATTACHMENT INCHES/MILLIMETERS (IN/MM) SIZE IN INCHES/MILLIMETER	1.00 IN 13.375	JOB	616.00	616.00	400.40
119534	SUCTION HOSE, 4"/FT W/HES, PER JOB ZI NUMBER OF JOBS	400.00 1	FT	4.40	1,760.00	1,144.00
14089	PUP TRAILER, NON-ACID MATLS, 0-8 HRS, ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS (MIN8)	1.00 H 8	EA	822.00	822.00	534.30
53	1" PIPE FOR CEMENTING TOP OUTSIDE NUMBER OF DAYS	100.00 1	EA	5.00	500.00	325.00
16115	FIELD STORAGE BIN ON SITE >8 HRS, DAY, ZI DAYS OR PARTIAL DAY (WHOLE NO.)	2.00 1	EA	1,344.00	2,688.00	1,747.20
11941	FIELD STORAGE BIN DEL & RETURN, ZI Number of Units	1,600.00 2	MI	9.79	31,328.00	20,363.20
10	FOOD AND LODGING, ZI NUMBER OF PERSONNEL ON JOB	4.00 4	DAY	653.00	10,448.00	6,791.20
452981	CMT, ExtendaCem (TM) system	1,020.00	SK	40.92	41,741.02	27,131.66
100003682	CHEM, BENTONITE (PER 100 LB) <i>Bentonite</i>	34.00	SK	60.21	2,047.14	1,330.64
100003652	CHEM, SALT, EVAP-OILFIELD-FINE, 50# BAG <i>Salt</i>	3,263.00	LB	0.57	1,859.91	1,208.94
100003684	CEM, CLASS A REGULAR/TYPE 1, BULK <i>Standard Cement</i>	200.00	SK	44.12	8,824.00	5,735.60
100003684	CEM, CLASS A REGULAR/TYPE 1, BULK <i>Standard Cement</i>	200.00	SK	44.12	8,824.00	5,735.60
101509387	CHEM, CALCIUM CHLORIDE-PELLET, 50 LB SK <i>Calcium Chloride, Pellet</i>	8.00	SK	180.30	1,442.40	937.56
3965	HANDLE&DUMP SVC CHRGR, CMT&ADDITIVES,ZI Unit of Measurement NUMBER OF EACH	1,614.00 EA 1	CF	5.49	8,860.86	5,759.56
76400	MILEAGE, CMT MTLs DEL/RET MIN NUMBER OF TONS	800.00 67.463	MI	3.35	180,800.84	117,520.55
101213353	Sand-Com White-100 Mesh, SSA-2, 50 lb sk	20.00	SK	75.00	1,500.00	975.00
7	ENVIRONMENTAL CHARGE,/JOB,ZI	1.00	JOB	134.00	134.00	87.10
372867	Cmt PSL - DOT Vehicle Charge, CMT	3.00	EA	241.00	723.00	469.95
	Total Gross Amount					338,694.17
	Total Item Discounts					118,542.96
	Total Net Amount	USD				220,151.21

Mtrl Nbr	Description	Qty	UOM	Unit Price	Gross Amt	Net Amount
Optional Charge						
16092	ADDITIONAL HOURS (PUMPING EQUIPMENT), ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS	1.00 H 1	EA	1,139.00	1,139.00	740.35
10	FOOD AND LODGING, ZI NUMBER OF PERSONNEL ON JOB	1.00 1	DAY	653.00	653.00	424.45
756221	CMT RNTL BULK TRUCK ONSITE 0-8 HRS	1.00	EA	1,568.00	1,568.00	1,019.20
802332	CMT STBY UNIT 1ST 8 HR CSG JOB	1.00	UN	10,000.00	10,000.00	6,500.00

Primary Plant: Sandersville, MS, USA
Secondary Plant: Sandersville, MS, USA

Price Book Ref: 29 - SOUTHEAST
Price Date: 6/30/2015

3 Intermediate Casing

3.1 Job Information Intermediate Casing

Job Criticality Status: GREEN

Well Name: Kanter Sunnyland 23

Well #: 1

13-3/8" Conductor Casing 0 - 1800 ft (MD)

Outer Diameter	13.375 in
Inner Diameter	12.615 in
Linear Weight	54.5 lbm/ft

12-1/4" Open Hole 1800 - 3800 ft (MD)

Inner Diameter	12.25 in
----------------	----------

9-5/8" Surface Casing 0 - 3800 ft (MD)

Outer Diameter	9.625 in
Inner Diameter	8.835 in
Linear Weight	40 lbm/ft
Shoe Joint Length	40 ft

3.2 Estimated Calculations Intermediate Casing

Stage 1

CEMENT: (668 ft fill)

$$\begin{aligned} 668 \text{ ft} * 0.3132 \text{ ft}^3/\text{ft} * 100 \% &= 418.2 \text{ ft}^3 \\ \text{Halliburton Light Standard} &= 418.2 \text{ ft}^3 \\ &= 74.5 \text{ bbl} \\ \text{Total Lead} &= 200.04 \text{ sack} \end{aligned}$$

CEMENT: (321 ft fill)

$$\begin{aligned} 321 \text{ ft} * 0.3132 \text{ ft}^3/\text{ft} * 100 \% &= 200.77 \text{ ft}^3 \\ \text{Premium Cement} &= 200.77 \text{ ft}^3 \\ &= 35.8 \text{ bbl} \end{aligned}$$

Shoe Joint Volume: (40 ft fill)

$$\begin{aligned} 40 \text{ ft} * 0.4257 \text{ ft}^3/\text{ft} &= 17.03 \text{ ft}^3 \\ &= 3 \text{ bbl} \end{aligned}$$

$$\begin{aligned} \text{Tail plus shoe joint} &= 217.85 \text{ ft}^3 \\ &= 38.8 \text{ bbl} \end{aligned}$$

$$\text{Total Tail} = 200.04 \text{ sack}$$

Total Pipe Capacity:

$$\begin{aligned} 1800 \text{ ft} * 0.4257 \text{ ft}^3/\text{ft} &= 766.33 \text{ ft}^3 \\ 2000 \text{ ft} * 0.4257 \text{ ft}^3/\text{ft} &= 851.47 \text{ ft}^3 \\ &= 288.1 \text{ bbl} \end{aligned}$$

Displacement Volume to Shoe Joint:

$$\begin{aligned} \text{Capacity of Pipe - Shoe Joint} &= 288.1 \text{ bbl} - 3 \text{ bbl} \\ &= 285.1 \text{ bbl} \end{aligned}$$

3.3 Job Volume Estimates Intermediate Casing

Stage 1

Fluid 1: Lead Slurry

EXTENDACEM (TM) SYSTEM

0.10 % HALAD-766

Fluid Weight: 12 lbm/gal
Slurry Yield: 2.091 ft³/sack
Total Mixing Fluid: 11.9 Gal/sack
Top Of Fluid: 2812 ft
Calculated Fill: 668 ft
Liquid Volume: 74.5 bbl
Calculated sack: 200 sack
Proposed sack: 200 sack

Fluid 2: Tail Slurry

Premium Cement

94 lbm Premium Cement

Fluid Weight: 16.2 lbm/gal
Slurry Yield: 1.089 ft³/sack
Total Mixing Fluid: 4.55 Gal/sack
Top Of Fluid: 3479 ft
Calculated Fill: 321 ft
Liquid Volume: 38.8 bbl
Calculated sack: 200 sack
Proposed sack: 200 sack

Fluid 3: Water Spacer

Estimated Displacement

Fluid Density: 8.34 lbm/gal
Liquid Volume: 285.1 bbl

3.4 Volume Estimate Table Intermediate Casing

Calculations are used for volume estimation. Well conditions will dictate final cement job design.

Stage 1

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate	Downhole Volume
1	CEMENT	Halliburton Light Standard	12		200 sack
2	CEMENT	Premium Cement	16.2		200 sack
3	SPACER	Estimated Displacement	8.34		285.1 bbl

NOTE: These slurries and spacers will require lab testing. The additives and concentrations are estimates based on field experience in the area and may need to be modified prior to the job. The proposed spacer is designed to be generally compatible with water base mud systems. Compatibility testing with field mud samples used may indicate changes in the additive package and the related costs.

3.5 Cost Estimate

Mtrl Nbr	Description	Qty	UOM	Unit Price	Gross Amt	Net Amount
7522	CMT INTERMEDIATE CASING BOM	1.00	JOB	0.00	0.00	0.00
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT Number of Units	1,600.00 1	MI	9.79	15,664.00	10,181.60
2	MILEAGE FOR CEMENTING CREW Number of Units	1,600.00 1	MI	5.76	9,216.00	5,990.40
16091	ZI - PUMPING CHARGE FEET/METERS (FT/M) DEPTH	1.00 FT 3800	EA	7,652.00	7,652.00	4,973.80
114	R/A DENSOMETER W/CHART RECORDER,/JOB,ZI NUMBER OF UNITS	1.00 1	JOB	1,285.00	1,285.00	835.25
101214575	PLUG,CMTG, TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1.00	EA	454.00	454.00	295.10
101214570	PLUG,CMTG,BOT,9 5/8,HWE,8.16 MIN/9.06 MA	1.00	EA	454.00	454.00	295.10
74038	ZI PLUG CONTAINER RENTAL-1ST DAY HR/DAY/WEEK/MTH/YEAR/JOB/RUN DAYS OR FRACTION (MIN1)	1.00 DAY 1	EA	1,322.00	1,322.00	859.30
90	ZI QUICK LATCH ATTACHMENT INCHES/MILLIMETERS (IN/MM) SIZE IN INCHES/MILLIMETER	1.00 IN 9.625	JOB	616.00	616.00	400.40
119534	SUCTION HOSE, 4"/FT W/HES,PER JOB ZI NUMBER OF JOBS	400.00 1	FT	4.40	1,760.00	1,144.00
14089	PUP TRAILER, NON-ACID MATLS, 0-8 HRS, ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS (MIN8)	1.00 H 8	EA	822.00	822.00	534.30
10	FOOD AND LODGING, ZI NUMBER OF PERSONNEL ON JOB	4.00 4	DAY	653.00	10,448.00	6,791.20
452981	CMT, ExtendaCem (TM) system	200.00	SK	40.86	8,172.71	5,312.26
101477695	CHEM, HALAD-766, 50 LB SACK <i>HALAD-766</i>	17.00	LB	35.32	600.44	390.29
100003687	CEM, CLASS H / PREMIUM, BULK <i>Premium Cement</i>	200.00	SK	55.95	11,190.00	7,273.50
3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI Unit of Measurement NUMBER OF EACH	417.00 EA 1	CF	5.49	2,289.33	1,488.06
76400	MILEAGE,CMT MTLs DEL/RET MIN NUMBER OF TONS	800.00 18.259	MI	3.35	48,934.12	31,807.18
101213353	Sand-Com White-100 Mesh, SSA-2, 50 lb sk	20.00	SK	75.00	1,500.00	975.00
7	ENVIRONMENTAL CHARGE,/JOB,ZI	1.00	JOB	134.00	134.00	87.10
372867	Cmt PSL - DOT Vehicle Charge, CMT	1.00	EA	241.00	241.00	156.65
	Total Gross Amount					122,754.60
	Total Item Discounts					42,964.11
	Total Net Amount		USD			79,790.49

Mtrl Nbr	Description	Qty	UOM	Unit Price	Gross Amt	Net Amount
Optional Charge						
16092	ADDITIONAL HOURS (PUMPING EQUIPMENT), ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS	1.00 H 1	EA	1,139.00	1,139.00	740.35
10	FOOD AND LODGING, ZI NUMBER OF PERSONNEL ON JOB	4.00 4	DAY	653.00	10,448.00	6,791.20
756221	CMT RNTL BULK TRUCK ONSITE 0-8 HRS	1.00	EA	1,568.00	1,568.00	1,019.20
802332	CMT STBY UNIT 1ST 8 HR CSG JOB	1.00	UN	10,000.00	10,000.00	6,500.00

Primary Plant: Sandersville, MS, USA
Secondary Plant: Sandersville, MS, USA

Price Book Ref: 29 - SOUTHEAST
Price Date: 6/30/2015

4 Production Casing

4.1 Job Information Production Casing

Job Criticality Status: GREEN

Well Name: Kanter Sunnyland 23

Well #: 1

9-5/8" Surface Casing 0 - 3800 ft (MD)

Outer Diameter	9.625 in
Inner Diameter	8.835 in
Linear Weight	40 lbm/ft

8-1/2" Open Hole 3800 - 11800 ft (MD)

Inner Diameter	8.5 in
----------------	--------

5-1/2" Production Casing 0 - 11800 ft (MD)

Outer Diameter	5.5 in
Inner Diameter	4.892 in
Linear Weight	17 lbm/ft
Shoe Joint Length	80 ft

4.2 Estimated Calculations Production Casing

Stage 1

SPACER: (490 ft fill)

$$490 \text{ ft} * 0.2291 \text{ ft}^3/\text{ft} * 0 \% = 112.29 \text{ ft}^3$$
$$\text{Total Spacer} = 112.29 \text{ ft}^3$$
$$= 20 \text{ bbl}$$

CEMENT: (1207 ft fill)

$$1207 \text{ ft} * 0.2291 \text{ ft}^3/\text{ft} * 0 \% = 276.6 \text{ ft}^3$$
$$\text{HTLD Cement} = 276.6 \text{ ft}^3$$
$$= 49.3 \text{ bbl}$$
$$\text{Total Lead} = 150.11 \text{ sack}$$

CEMENT: (2495 ft fill)

$$2495 \text{ ft} * 0.2291 \text{ ft}^3/\text{ft} * 0 \% = 571.56 \text{ ft}^3$$
$$\text{Premium Cement} = 571.56 \text{ ft}^3$$
$$= 101.8 \text{ bbl}$$

Shoe Joint Volume: (80 ft fill)

$$80 \text{ ft} * 0.1305 \text{ ft}^3/\text{ft} = 10.44 \text{ ft}^3$$
$$= 1.9 \text{ bbl}$$

Tail plus shoe joint

$$= 582.23 \text{ ft}^3$$
$$= 103.7 \text{ bbl}$$

Total Tail

$$= 400.16 \text{ sack}$$

Total Pipe Capacity:

$$8000 \text{ ft} * 0.1305 \text{ ft}^3/\text{ft} = 1044.22 \text{ ft}^3$$
$$3800 \text{ ft} * 0.1305 \text{ ft}^3/\text{ft} = 496 \text{ ft}^3$$
$$= 274.3 \text{ bbl}$$

Displacement Volume to Shoe Joint:

$$\text{Capacity of Pipe} - \text{Shoe Joint} = 274.3 \text{ bbl} - 1.9 \text{ bbl}$$
$$= 272.5 \text{ bbl}$$

4.3 Job Volume Estimates Production Casing

Stage 1

Fluid 1: Rheologically Enhanced Spacer

Mud Flush

990 gal/Mgal FRESH WATER

200 lbm/Mgal SAPP - 50 LB BAG

Fluid Density: 8.4 lbm/gal

Liquid Volume: 20 bbl

Fluid 2: Lead Slurry

THERMACEM (TM) SYSTEM

10 lbm SS-200

3 % Potassium Chloride

0.40 % HALAD-766

0.20 % HR-7

Fluid Weight: 12.8 lbm/gal

Slurry Yield: 1.844 ft³/sack

Total Mixing Fluid: 8.76 Gal/sack

Top Of Fluid: 8097 ft

Calculated Fill: 1207 ft

Liquid Volume: 49.3 bbl

Calculated sack: 150 sack

Proposed sack: 150 sack

Fluid 3: Tail Slurry

Premium Cement

94 lbm Premium Cement

35 % SS-200

3 % Potassium Chloride

0.70 % Halad(R)-322

0.10 % FWCA

0.15 % HR-7

Fluid Weight: 16.2 lbm/gal

Slurry Yield: 1.455 ft³/sack

Total Mixing Fluid: 5.65 Gal/sack

Top Of Fluid: 9305 ft

Calculated Fill: 2495 ft

Liquid Volume: 103.7 bbl

Calculated sack: 400 sack

Proposed sack: 400 sack

Fluid 4: Water Spacer

Estimated Displacement

Fluid Density: 8.34 lbm/gal

Liquid Volume: 272.5 bbl

4.4 Volume Estimate Table Production Casing

Calculations are used for volume estimation. Well conditions will dictate final cement job design.

Stage 1

Fluid #	Fluid Type	Fluid Name	Surface Density lbm/gal	Estimated Avg Rate	Downhole Volume
1	SPACER	Mud Flush	8.4		20 bbl
2	CEMENT	HTLD Cement	12.8		150 sack
3	CEMENT	Premium Cement	16.2		400 sack
4	SPACER	Estimated Displacement	8.34		272.5 bbl

NOTE: These slurries and spacers will require lab testing. The additives and concentrations are estimates based on field experience in the area and may need to be modified prior to the job. The proposed spacer is designed to be generally compatible with water base mud systems. Compatibility testing with field mud samples used may indicate changes in the additive package and the related costs.

4.5 Cost Estimate

Mtrl Nbr	Description	Qty	UOM	Unit Price	Gross Amt	Net Amount
7523	CMT PRODUCTION CASING BOM	1.00	JOB	0.00	0.00	0.00
1	ZI-MILEAGE FROM NEAREST HES BASE,/UNIT Number of Units	1,600.00 1	MI	9.79	15,664.00	10,181.60
2	MILEAGE FOR CEMENTING CREW Number of Units	1,600.00 1	MI	5.76	9,216.00	5,990.40
16091	ZI - PUMPING CHARGE FEET/METERS (FT/M) DEPTH	1.00 FT 11800	EA	22,898.00	22,898.00	14,883.70
114	R/A DENSOMETER W/CHART RECORDER,/JOB,ZI NUMBER OF UNITS	1.00 1	JOB	1,285.00	1,285.00	835.25
101237390	PLUG,CMTG, TOP,5 1/2,HWE,4.38 MIN/5.09 MA	1.00	EA	207.00	207.00	134.55
101237389	PLUG,CMTG,BOT,5 1/2,HWE,4.38 MIN/5.09 MA	1.00	EA	207.00	207.00	134.55
74038	ZI PLUG CONTAINER RENTAL-1ST DAY HR/DAY/WEEK/MTH/YEAR/JOB/RUN DAYS OR FRACTION (MIN1)	1.00 DAY 1	EA	1,322.00	1,322.00	859.30
90	ZI QUICK LATCH ATTACHMENT INCHES/MILLIMETERS (IN/MM) SIZE IN INCHES/MILLIMETER	1.00 IN 5.5	JOB	491.00	491.00	319.15
119534	SUCTION HOSE, 4"/FT W/HES,PER JOB ZI NUMBER OF JOBS	300.00 1	FT	4.40	1,320.00	858.00
14089	PUP TRAILER, NON-ACID MATLS, 0-8 HRS, ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS (MIN8)	1.00 H 8	EA	822.00	822.00	534.30
16115	FIELD STORAGE BIN ON SITE >8 HRS, DAY, ZI DAYS OR PARTIAL DAY (WHOLE NO.)	1.00 1	EA	1,344.00	1,344.00	873.60
11941	FIELD STORAGE BIN DEL & RETURN, ZI Number of Units	1,600.00 1	MI	9.79	15,664.00	10,181.60
10	FOOD AND LODGING, ZI NUMBER OF PERSONNEL ON JOB	4.00 4	DAY	653.00	10,448.00	6,791.20
13383	SBM MUD FLUSH, ZI	840.00	GAL	2.16	1,814.40	1,179.36
201425	SAPP - 50 LB BAG SAPP - 50 LB BAG	4.00	BAG	303.36	1,213.44	788.74
452975	CMT, ThermaCem (TM) system	150.00	SK	53.66	8,049.42	5,232.12
102240841	SAND, SS-200 - BULK SS-200	1,500.00	LB	0.63	945.00	614.25
100001585	CHEM, KCL POTASSIUM CHLORIDE, 50# <i>Potassium Chloride</i>	329.00	LB	2.27	746.83	485.44
101477695	CHEM, HALAD-766, 50 LB SACK <i>HALAD-766</i>	55.00	LB	35.32	1,942.60	1,262.69
100005055	CHEM, HR-7 Cement Retarder <i>HR-7</i>	28.00	LB	5.88	164.64	107.02
100003687	CEM, CLASS H / PREMIUM, BULK <i>Premium Cement</i>	400.00	SK	55.95	22,380.00	14,547.00
102240841	SAND, SS-200 - BULK SS-200	13,160.00	LB	0.63	8,290.80	5,389.02
100001585	CHEM, KCL POTASSIUM CHLORIDE, 50# <i>Potassium Chloride</i>	565.00	LB	2.27	1,282.55	833.66
100003646	CHEM, HALAD-322, 50 LB SACK <i>Halad(R)-322</i>	264.00	LB	21.14	5,580.96	3,627.62
100003714	CHEM, FWCA, 50 LB BAG <i>FWCA</i>	38.00	LB	65.29	2,481.02	1,612.66
100005055	CHEM, HR-7 Cement Retarder <i>HR-7</i>	57.00	LB	5.88	335.16	217.85

Mtrl Nbr	Description	Qty	UOM	Unit Price	Gross Amt	Net Amount
3965	HANDLE&DUMP SVC CHRG, CMT&ADDITIVES,ZI Unit of Measurement NUMBER OF EACH	859.00 EA 1	CF	5.49	4,715.91	3,065.34
76400	MILEAGE,CMT MTLs DEL/RET MIN NUMBER OF TONS	800.00 33.606	MI	3.35	90,064.08	58,541.65
101213353	Sand-Com White-100 Mesh, SSA-2, 50 lb sk	20.00	SK	75.00	1,500.00	975.00
7	ENVIRONMENTAL CHARGE,/JOB,ZI	1.00	JOB	134.00	134.00	87.10
372867	Cmt PSL - DOT Vehicle Charge, CMT	2.00	EA	241.00	482.00	313.30
	Total Gross Amount					233,010.81
	Total Item Discounts					81,553.79
	Total Net Amount	USD				151,457.02

Mtrl Nbr	Description	Qty	UOM	Unit Price	Gross Amt	Net Amount
Optional Charge						
16092	ADDITIONAL HOURS (PUMPING EQUIPMENT), ZI HR/DAY/WEEK/MTH/YEAR/JOB/RUN HOURS	1.00 H 1	EA	1,139.00	1,139.00	740.35
10	FOOD AND LODGING, ZI NUMBER OF PERSONNEL ON JOB	1.00 1	DAY	653.00	653.00	424.45
756221	CMT RNTL BULK TRUCK ONSITE 0-8 HRS	1.00	EA	1,568.00	1,568.00	1,019.20
802332	CMT STBY UNIT 1ST 8 HR CSG JOB	1.00	UN	10,000.00	10,000.00	6,500.00

Primary Plant: Sandersville, MS, USA
Secondary Plant: Sandersville, MS, USA

Price Book Ref: 29 - SOUTHEAST
Price Date: 6/30/2015

5 Conditions

The cost in this analysis is good for the materials and/or services outlined within and shall be valid for 30 days from the date of this proposal. In order to meet your needs under this proposal with a high quality of service and responsive timing, Halliburton will be allocating limited resources and committing valuable equipment and materials to your area of operations. Accordingly, the discounts reflected in this proposal are available only for materials and services awarded on a first-call basis. Alternate pricing may apply in the event that Halliburton is awarded work on any basis other than as a first-call provider.

The unit prices stated in the proposal are based on our current published prices. The projected equipment, personnel, and material needs are only estimates based on information about the work presently available to us. At the time the work is actually performed, conditions then existing may require an increase or decrease in the equipment, personnel, and/or material needs. Charges will be based upon unit prices in effect at the time the work is performed and the amount of equipment, personnel, and/or material actually utilized in the work. Taxes, if any, are not included. Applicable taxes, if any, will be added to the actual invoice.

It is understood and agreed between the parties that with the exception of the subject discounts, all services performed and equipment and materials sold are provided subject to Halliburton's General Terms and Conditions contained in our current price list, (which include LIMITATION OF LIABILITY and WARRANTY provisions), and pursuant to the applicable Halliburton Work Order Contract (whether or not executed by you), unless a Master Service and/or Sales Contract applicable to the services, equipment, or materials supplied exists between your company and Halliburton, in which case the negotiated Master Contract shall govern the relationship between the parties. A copy of the latest version of our General Terms and Conditions is available from your Halliburton representative or at: <http://www.halliburton.com/terms> for your convenient review, and we would appreciate receiving any questions you may have about them. Should your company be interested in negotiating a Master Contract with Halliburton, our Law Department would be pleased to work with you to finalize a mutually agreeable contract. In this connection, it is also understood and agreed that Customer will continue to execute Halliburton usual field work orders and/or tickets customarily required by Halliburton in connection with the furnishing of said services, equipment, and materials.

Any terms and conditions contained in purchase orders or other documents issued by the customer shall be of no effect except to confirm the type and quantity of services, equipment, and materials to be supplied to the customer.

If customer does not have an approved open account with Halliburton or a mutually executed written contract with Halliburton, which dictates payment terms different than those set forth in this clause, all sums due are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice.

Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

Exhibit N: Proposed Wellbore Schematic

WELL BORE SCHEMATIC

CENTURY OIL COMPANY INC.

Permit Number

1366

Well Name

Kanter Sunniland 23-1

Location

SHL: 920 Ft FNL, 920 FT FWL of Sec. 23 / T51S R38E

BHL: 920 FT FNL, 920 FT FWL of Sec. 23 / T51S R38E

Elevation

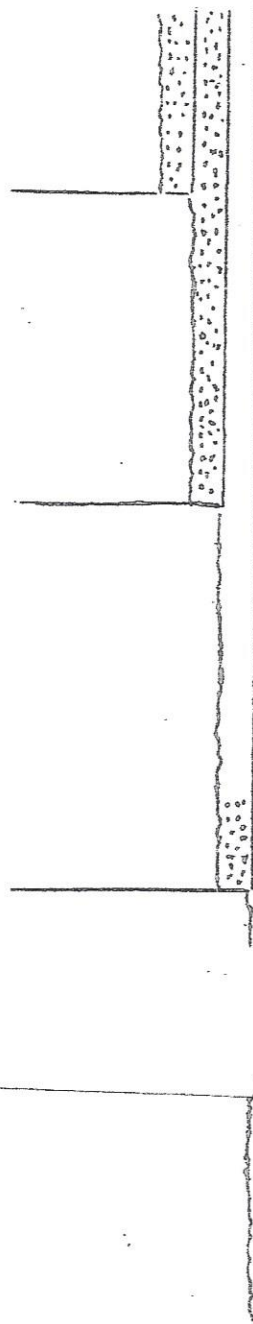
G.L. 11.9

D.F.

K.B.

Date Commenced

Date Completed



24" COND. DRIVEN TO 200'

13 3/8" - 54.5# J-55C&G @ 1800' KB

9 5/8" - 40# L-80ST&C @ 3800' KB

IF PRODUCTIVE, 7" OR 5 1/2" CSG WILL BE RUN TO APPROX. 11,800' MD & CMT W/700 SX. CLASS A CEMENT 29# L-80 WILL BE USED

8 1/2" HOLE - TD @ 11,800' MD

Exhibit O: Well Control Program

Well Control Practices

- 1) The primary goal is to limit the influx to the minimum possible gain which will minimize the pressures to the lowest possible value. At any kick indicator, the driller will immediately close the well in. Notification to the toolpusher and company representative will be made only after the well is secured.
- 2) The "Hard Shut-In" method will be used to close the well in.
- 3) Maintain a current "Kill Sheet" on the rig floor at all times and update daily and at each significant mud weight change.
- 4) Maintain a current BOP space-out drawing on the rig floor at all times.
- 5) A "Trip Sheet" will be recorded every trip detailing theoretical fill, actual fill, and cumulative fill. The company representative is to receive a copy of all trip sheets once completed.
- 6) Any drilling break, or reverse drilling break if drilling with a PDC bit, will be flow checked. Drilling will not resume until the company representative has been notified of the results and agrees to continue.
- 7) A flow check will be conducted at any time the pumps are stopped.
- 8) A "Flow Log" will be maintained for connections and whenever the pumps are stopped. The log will detail flow characteristics including amount of flow back each minute, time until flow ceases, and total flow back. If at any time the flow characteristics indicated a possible increase in flow, the well will be closed in.
- 9) The mud engineer and mud pit man will be instructed to keep the driller notified of any mud movement in pits, amount to be moved, where moved from - to, and when movement is completed. They will also be instructed to keep the driller notified of any mud pit additions along with a barrel per hour addition rate.
- 10) Materials for 1.0 ppg weight up of entire mud system in use will be maintained on the rig.
- 11) Company man should be on rig floor to witness the pulling of at least the first 10 stands of bottom.
- 12) Kick detection, pit drills and shut in drills will be run at least once a week for each tour.
- 13) Non ported floats to be used before BOP's are installed and ported floats after BOP installation.
- 14) The lowermost pipe rams are the master valve for sealing the well and will not be used for primary closure or stripping.
- 15) Use both choke and kill line to circulate during well kill unless conditions prohibit.

Kick Indicators

- 1) Well flows with pumps off.
- 2) Flow out increases while flow in remains the same.
- 3) Pit level increases.

Warning Signs of Kicks

- 1) Fill volume less than calculated on (rip. ___)
- 2) Pump pressure fluctuations.
- 3) Penetration rate increase and/or decrease with PDC bit.
- 4) Changes in drill string weight.

Shut-In Procedure While Drilling

- 1) At any warning sign of a kick, immediately stop the rotary and mud pumps.
- 2) Pick up to shut in position and close the annular preventer.
- 3) Record the tool joint position on the BOP space-out sheet.
- 4) Notify the toolpusher and company representative.
- 5) Open the choke line valves and record SIDPP and SICP in one minute intervals. When pressures have stabilized record the SIDPP, SICP and pit gain.

Shut-in Procedure While Tripping

- 1) At indication of abnormal fill volume, stop tripping the pipe and check for flow. If no flow is present, run in the hole to TD and circulate bottom up. If flow is present, close the well in and follow procedures to record pressures.
- 2) Immediately set slips under top tool joint. Install and make up a fully opened full opening safety valve. This is not an inside BOP.
- 3) Close the safety valve.
- 4) Close the annular preventer.
- 5) Notify the toolpusher and company representative.
- 6) Open the choke line valves and record SIDPP and SICP in one minute intervals. When pressures have stabilized record the SIDPP, SICP and pit gain.

Shut-in while Running Casing/Liner

- 1) While running casing the location of the shoe and hanger must be tracked.
- 2) Once the casing/liner shoe enters the BOP and until it is landed, the primary means of closing the well in will be the annular.
- 3) If the casing/liner hanger is in the BOP when the flow is detected, attempt to lower the hanger below the BOP. It is preferred if possible to have the hanger below the BOP and drill pipe across the stack at time of shut-in. If unable to lower the hanger below the BOP, pull the hanger above the BOP.
- 4) If drill pipe is across the rotary, immediately install and make up a fully opened full opening safety valve. This is not an inside BOP. If casing is across the rotary, immediately install the casing crossover with safety valve.
- 5) Close the safety valve.
- 6) Close the annular preventer.
- 7) Notify the toolpusher and company representative.
- 8) Open the choke line valves and record SIDPP, SICP and pit gain.
- 9) If casing hanger is not landed in the wellhead, prepare to land casing hanger by stripping through annular. If liner, prepare to position drill pipe for hang-off by stripping through annular.

Well Control Method

- 1) The driller's method will be implemented to establish circulation immediately once the SIDPP has stabilized.

Bringing Well On/Off Choke

- 1) If the kill operation is to be accomplished using only the choke line, the most accurate means of bringing the well on choke is monitoring the kill line pressure and holding the pressure constant at SICP by manipulating the choke until the pump is up the kill rate. The same process can be used if the kill operation requires stopping to bring the well off choke. The kill line pressure is held constant by manipulating the choke until the pump is stopped and choke closed.

BOP Stack - Trapped Gas

- 1) After kill weight mud has been circulated around and the well is dead, gas may be trapped in the BOP stack. Caution should be taken when opening the annular after the well has been successfully killed.

Equipment Considerations

The drilling rig stack is arranged as shown below in Figure 1.

Reciprocation of pipe during well control should be avoided if at all possible. BOP elements are built for a compromise range of operating temperatures.

Considerations

Emergency procedures specific to the rig and operation will be implemented before the operation commences. The procedures will include verification that the following equipment and station keeping systems are fully operational. If at any time the criteria are not met, the operation will be halted until such a time that the problem is corrected or an agreement is reached for continued operations. Once the conditions are met and the operation commences, all involved personnel will remain on an elevated state of alert.

- 1) Verification that all drilling equipment (i.e., drawworks, mud pumps, rotary) are fully operational with no faults.
- 2) Verification that the BOP and operating system is fully operational.
- 3) Verification that the cement unit is fully operational, if on location.
- 4) Communications between the office and driller have been tested and fully functional.
- 5) Warning signal indicators between the office and driller have been tested and fully functional.
- 6) A clear definition of "roles and responsibilities" for the procedure has been reviewed and understood by all involved personnel.

Underground Blowout

The possibility of an underground blowout (UGB) is not common. Small margins between the pore pressure and fracture gradient are the chief contributing agents. The particular circumstances that may surround an UGB are too varied to attempt a general solution in advance. Each case will be unique and require a unique solution. General considerations are:

- 1) Detection
 - a) Loss of drill pipe pressure with fluctuating casing pressure
 - b) Confirmation by temperature or noise logs
- 2) Evaluation, attempt to determine:
 - a) Rate
 - b) Kick fluids
 - c) Thief zone fracture pressure
- 3) Obligation
 - a) Stop the cross flow to prevent loss of reserves and a pressure barrier to future field development.
- 4) Techniques for remedy in order of preference
 - a) Dynamic kill
 - b) Bullhead from top and bottom
 - c) Plugging materials - Barite plug, cement, reactive plugs

5) Confirmation

- a) Confirm cross flow has ended by temperature or noise logs

Surface Blowout

Management of a surface blowout is more specific than the UGB and a detailed contingency plan is beyond the scope of this document. Some of the general considerations are:

- 1) One or more relief wells may be required.
- 2) The kill will require a complete rethink of pump power requirements.

Miscellaneous

- 1) Schlumberger has a digital noise tool (LTNT) in Lafayette, LA for use if needed.
- 2) Schlumberger has temperature tools, PBMS tools needed are 1-11/16" with temperature, CCL, gamma ray.
- 3) Consideration will be given to drilling with a single or a stand with a TIW valve below the single or stand in some situations as protection to ensure wireline entry in the event an underground blowout is encountered and/or a severe lost circulation problem is a distinct possibility. Those situations would include but not be limited to: drilling with severe losses or no returns for whatever reason, drilling in high pressure with no kick tolerance looking for a casing seat, having just killed a well and drilling ahead seeking a casing point, drilling with a well both taking fluid and giving fluid, or other critical situation that could lead to an underground blowout situation and/or expecting a possible severe lost circulation problem.

WELL CONTROL CONTINGENCY PLAN

Century Oil Company, Inc.

WELL CONTROL RESPONSE EQUIPMENT

Well Kick				
	What you need	Comments	When Ordered	When Available
Pumping equipment				
1	Rig pumps (2)	on site	n/a	24/7
2	Pump Truck	Baker or Halliburton	standby	24 hours
3				
4				
5				
6				
7				
8				
9				
10				
11				
Miscellaneous				
12	Forklift to handle mud	on site		24/7
13	Spare safety valve	on standby		24 hours
14				
15				
16				
17				
18				
19				

20				
21				
22				
Underground Blowout				
	What you need	Comments	When Ordered	When Available
All materials for well kick supply				
23	Pump Truck & Cement	Available within 24 hours		24 hours
24				
25				
Mud and materials				
26	LCM, weight material, salt gel	Have enough on site to raise mud weight 1 #/gal.	on site	24/7
27				
28				
29				
Miscellaneous				
30				
31				
32				

Exhibit P: Drilling Fluids Program

KANTER CORPORATION of FLORIDA
KANTER SUNNILAND 23-1

Drilling Fluids Proposal



Prepared for: ED POLLISTER

Prepared by: Jon McBride

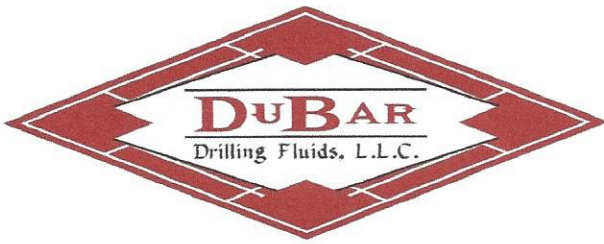
DuBar Drilling Fluids, L.L.C.

P.O. Box 1054

Cadillac, Michigan 49601

Tel: (231) 258-1264 • Fax: (231) 779-0270





P.O. Box 1054 Cadillac, Michigan 49601

24 hour answering service: (231) 258-1264

Email: DuBarLLC @ voyager.net

June 29, 2015

Attention:
Ed Pollister

Mr. Pollister,

Enclosed please find DuBar Drilling Fluids proposal for the KANTER SUNNILAND 23-1. The estimated mud and chemical expense for the referenced well is \$132,000 +- for material and product costs. The material delivery will be handled by the contractor. There is a full credit for any material returned in good order.

The primary concern in drilling this well is complete to partial losses while drilling the intermediat section. We do not recommend fighting these loses and spending extra money on mud, cement squeezes, poly blocks etc.... Because of the consolidation of the formations we see no reason to fear additional hole problems. We suggest staying on bottom drilling utilizing rig time. Pumping high viscous gel/lcm pills as needed for hole cleaning. The mixture of gel/lcm and cuttings should help control and minimize losses.

When displaced with brine at 9,000' and at desired formation points mix Poly Sal to reduce filtrate. Add 1-2 ppb Poly Sal for filtrate control. At T.D. we recommend wiper trips prior to running casing to insure good hole conditions.

If we can of any further assistance please feel free to contact me at the enclosed numbers or email address.

THANKS,

Jon McBride

Jon McBride
jdmcbride@dubardrillingfluids.com
DuBar Drilling Fluids,L.L.C.
cell 989-506-3358
24 hour 231-258-1264

**KANTER CORPORATION of FLORIDA
KANTER SUNNILAND 23-1**

Interval Summary: first string

0-1800'							
Drilling Fluid System		MI-GEL					
Key Products		MI GEL, MAX GEL, SODA ASH, PAPER					
Solids Control		SHAKER AND DESANDER					
Potential Problems		HOLE CLEANING, SEEPAGE OR FLUID LOSSES					
Interval Drilling Fluids Properties							
Depth Interval (ft)	Mud Weight (ppg)	Funnel Viscosity (sec/qt)	API Fluid Loss (ml/30 min)	pH			
1800'	8.6-9.6	40-80	25-40	10			

DRILL SURFACE WITH A FRESH WATER GEL SLURRY
 RUN WATER AND DESANDER TO CONTROL MUD WEIGHT AND SOLIDS
 MAINTAIN A 60 PLUS VISCOSITY FOR HOLE CLEANING. MIX PAPER OR C.S. HULLS FOR ANY SEEPAGE
 AT T.D. WE SUGGEST A WIPER TRIP PRIOR TO RUNNING CASING

DuBar Drilling Fluids, L.L.C.

P.O. Box 1054

Cadillac, Michigan 49601

Tel: (231) 258-1264 • Fax: (231) 779-0270



**KANTER CORPORATION of FLORIDA
KANTER SUNNILAND 23-1**

Interval Summary:

1800'-3800'							
Drilling Fluid System		FRESH WATER, GEL PILL SWEEPS					
Key Products		MI-GEL, PAPER, POLY PLUS, FLOXIT, SALT GEL					
Solids Control		FLOX-IT					
Potential Problems		SEVERE OR COMPLETE LOSSES FROM 2200'-3300'					
Interval Drilling Fluids Properties							
Depth Interval (ft)	Mud Weight (ppg)	Funnel Viscosity (sec/qt)	API Fluid Loss (ml/30 min)	pH			
1800'-3800'	8-Jan	27-30	N/C				

WOC DUMP AND CLEAN PITS; WHILE DRILLING PLUG CIRCULATE THE RESERVE, CONTINUE TO CIRCULATE RESERVE PIT, FLOC SOLIDS @ FLOWLINE WITH FLOX-IT, SWEEP HOLE AS NEEDED WITH MI-GEL PILLS FOR HOLE CLEANING.

MIX LCM PILLS IF NEEDED FOR ANY LOSSES

ANTICIPATE LOSSES FROM 2200'-3300', PUMP HIGH VISCOUS LCM/PILLS AS NEEDED, CONTINUE DRILLING ALLOWING CUTTINGS AND PILLS TO SLOW AND CONTROL LOSSES

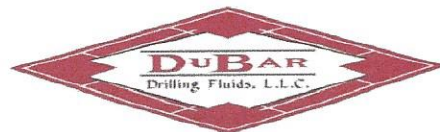
AT T.D. SWEEP HOLE 2-3 TIMES AND SPOT PILL ON BOTTOM FOR RUNNING CASING

DuBar Drilling Fluids, L.L.C.

P.O. Box 1054

Cadillac, Michigan 49601

Tel: (231) 258-1264 • Fax: (231) 779-0270



KANTER SUNNILAND 23-1

Interval Summary:

3800'-11,800'							
Drilling Fluid System		BRINE					
Key Products		SALT GEL, DUO VIS, FLOX-IT, POLY SAL (STARCH)					
Solids Control		FLOC					
Potential Problems		HOLE CLEANING					
Interval Drilling Fluids Properties							
Depth Interval (ft)	Mud Weight (ppg)	Funnel Viscosity (sec/qt)	API Fluid Loss (ml/30 min)	pH			
3800'-11,800'	9.8-10.2	28-32	20cc	10			

WOC: CLEAN WORKING PITS
 DRILL OUT WITH FRESH WATER, CIRCULATE RESERVE TANKS
 WHEN DRILLING ADD FLOC @ FLOWLINE TO CONTROL DRILLED SOLIDS
 AT 9000' DISPLACE FRESH WATER WITH BRACKISH/BRINE FLUID AT 9.8-10.2 PPG
 CONTINUE TO FLOC SYSTEM AT FLOWLINE AS NEEDED FOR SOLIDS CONTROL
 WHEN READY STOP FLOCCING SYSTEM AND ADD POLY SAL TO THE FLUID TO REDUCE FILTRATE TO 15-25 cc
 ADD 1-2 ppb POLY SAL FOR FILTRATE/WATER LOSS CONTROL.
 SWEEP HOLE AS NEED WITH HIGH VISCOUS SALT GEL OR DUO-VIS PILLS. AT T.D. SWEEP HOLE 2-3 TIMES PRIOR TO LOGGING RUNNING CASING ETC.....

DuBar Drilling Fluids, L.L.C.

P.O. Box 1054
 Cadillac, Michigan 49601
 Tel: (231) 258-1264 • Fax: (231) 779-0270



KANTER CORPORATION of FLORIDA
KANTER SUNNILAND 23-1

Estimated Mud Cost

<u>Product</u>	<u>Quantity</u>	<u>Cost/unit</u>	<u>Cost</u>
M-I GEL	350	\$ 23.82	\$ 8,337.00
MAX GEL	490	\$ 19.52	\$ 9,564.80
SALT GEL	250	\$ 22.85	\$ 5,712.50
SOADA ASH	10	\$ 49.75	\$ 497.50
COTTON SEED HULLS	120	\$ 62.90	\$ 7,548.00
PAPER	80	\$ 45.85	\$ 3,668.00
FED SEAL	100	\$ 52.35	\$ 5,235.00
FLOX-IT	8	\$ 595.00	\$ 4,760.00
POLY SAL	120	\$ 99.85	\$ 11,982.00
DUO VIS	40	\$ 356.50	\$ 14,260.00
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
SHRINK WRAPS	14	\$ 16.94	\$ 237.16
PALLETS	14	\$ 19.50	\$ 273.00

Material Sub Total: \$ 72,074.96

Engineering Services	22	days @	\$ 1,500.00	\$ 33,000.00
Engineering Services		days @		\$ -
Drayage				\$ 22,000.00
Van Rental		days @		\$ -
Michigan sales tax (6%)				\$ 4,324.50

Sub Total: \$ 131,399.46

Hematite Mud standby cost	(refunded if mud is used)			
Hematite Mud rental		bbls @	/bbl	\$ -
Hematite credit		bbls @	/bbl	\$ -
Sub-Total				\$ -
Michigan sales tax (6%)				\$ -

Total Hematite Mud cost: \$ -

Total Mud Cost: \$ 131,399.46

DuBar Drilling Fluids, L.L.C.

P.O. Box 1054

Cadillac, Michigan 49601

Tel: (231) 258-1264 • Fax: (231) 779-0270

