

Controlling the Flowing San Andres

“Why ???”

**“Because it is
the right thing
to do”**

**IWDA P3 Tactical Marketing Group
A Non-Profit 501(c)(3)**

Imperial Water Development Association & Charlton Resources

Presented to: Texas Desal Association 2018

September 2018

Long-term problem... the hazards of sink holes in Imperial, TX.

We have a PROBLEM

Flowing and improperly plugged San Andres wells are creating sink holes and we don't know where the next one will form.



Community Call to Action
“Implement a Successful
Solution”

We created a solution!

**P3 Partnering of
Imperial Water Development Association(IWDA)
With
Charlton Resources Corporation(CRC)
Forming the
IWDA P3 Tactical Marketing Group
A Non-Profit 501(c)(3)**

**CONTROLLING THE SAN ANDRES IN
IMPERIAL**

**The right
thing to
do.**

IWDA P3 Tactical Marketing Group

A Non-Profit 501(c)(3)

1. *Development*

2. **Private** company funds initial water well, gathering and water distribution system while the,
3. **Association** provides marketing and community improvements and a non-profit 501(c)(3) designation.

Investment

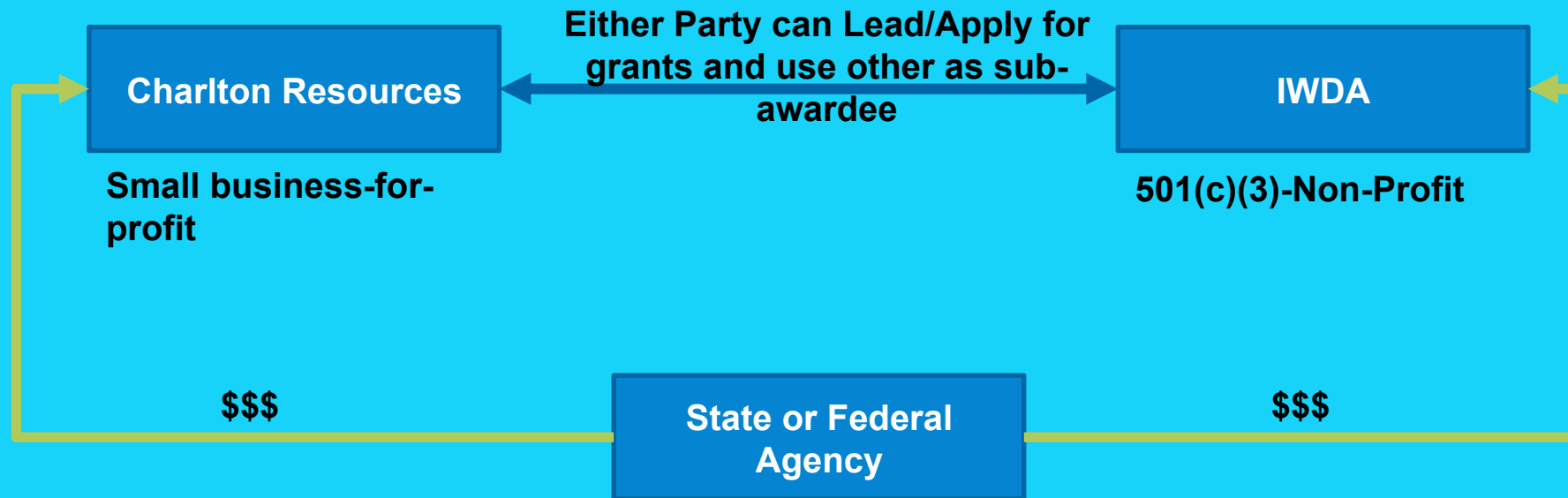
- ***Tax deductible donations to:***
 1. ***The artesian well plugging/control program***
 2. ***The Imperial Library program***
 3. ***City of Imperial Emergency Response program***
 4. ***The wetlands program***

- ***Association Members Investment***
 1. ***Members who own producing artesian water wells have a supply agreement with royalties***
 2. ***Members with land whose property is involved in water handling will have contracts with royalties***

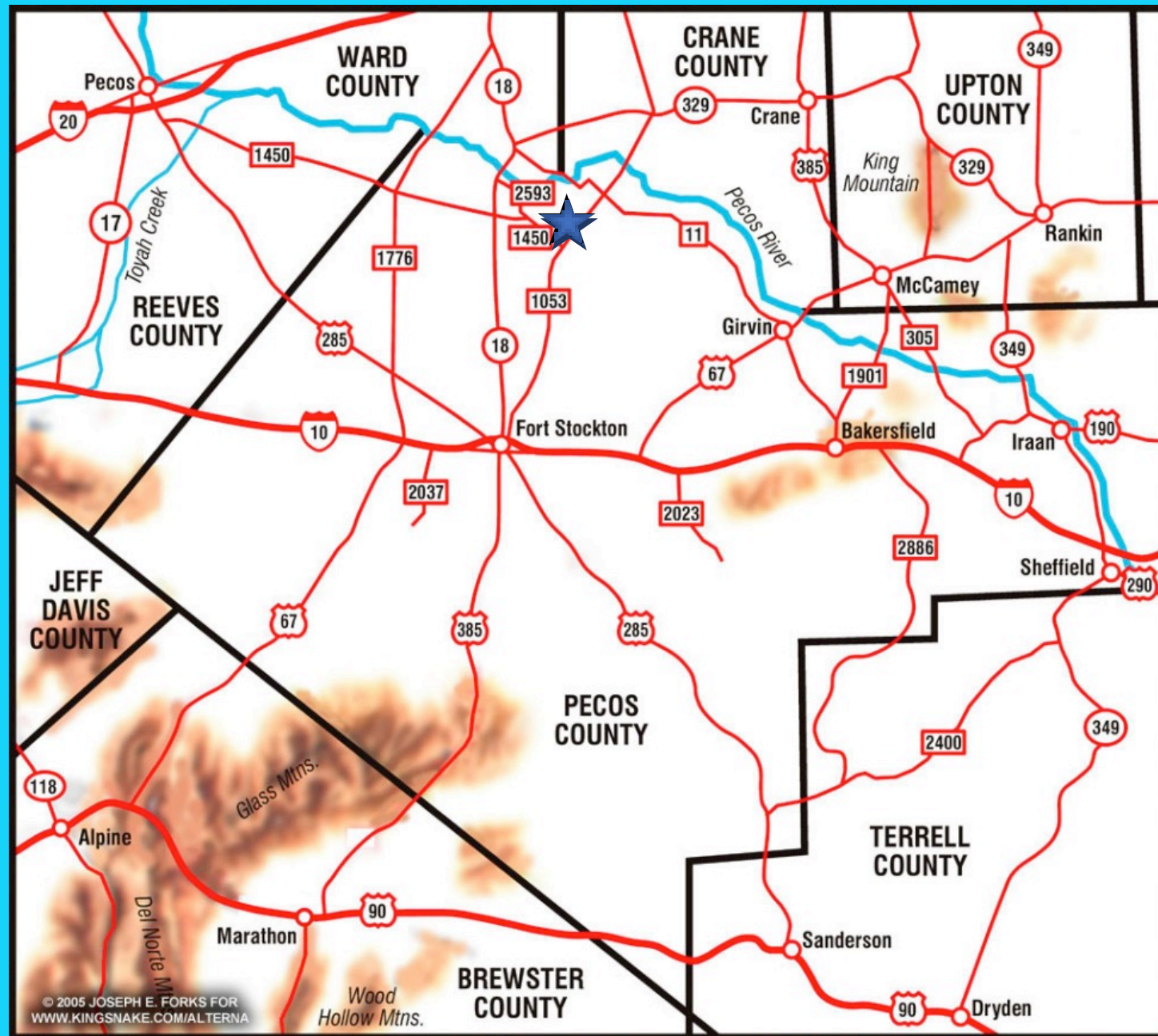
- ***Charlton Resources Investment***
 1. ***Water handling infrastructure***
 2. ***Pipeline construction and pond construction***
 3. ***Water Operations and Management***

Applying for Grants-State & Federal

Funding



Some funding sources require a lead applicant be a for-profit or a non-profit organization. Organization Structure allows either party to apply for grants



Navigating the Regulatory Framework



Straub Corporation
Geoscience

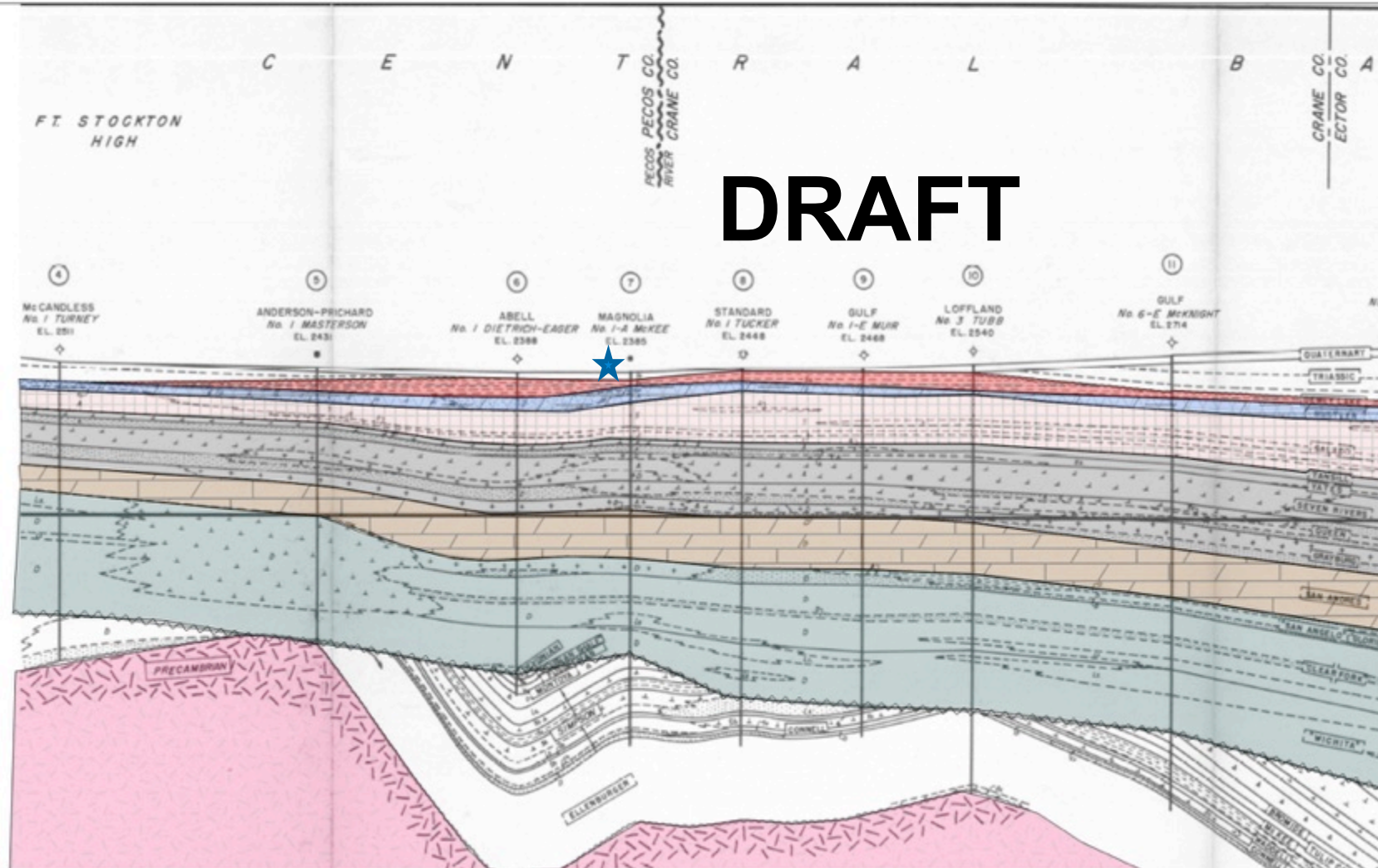
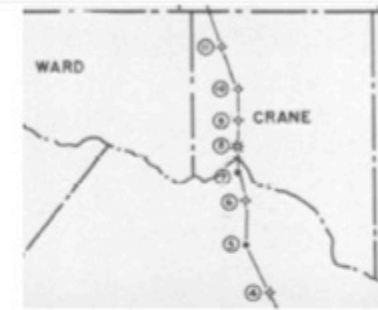
NORTH-SOUTH CROSS SECTION
THROUGH
PERMIAN BASIN OF WEST TEXAS
PREPARED BY STRATIGRAPHIC PROBLEMS COMMITTEE
OF WEST TEXAS GEOLOGICAL SOCIETY

APRIL 1951

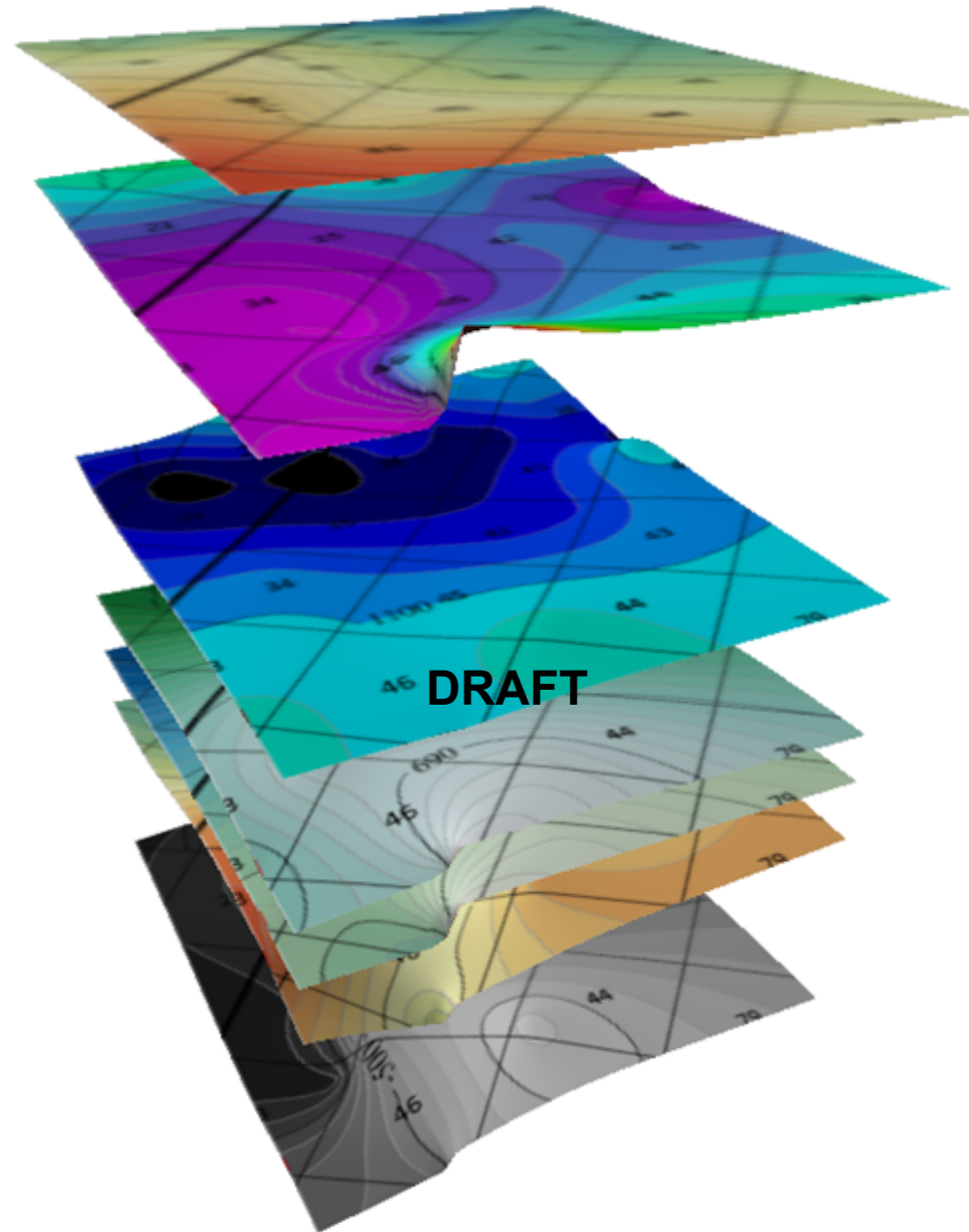
W.B. SCOBEE, CHAIRMAN

W. BRADLEY
N. T. BRASHER
R. M. HUFFINGTON
E. R. LLOYD
L. McINNAN

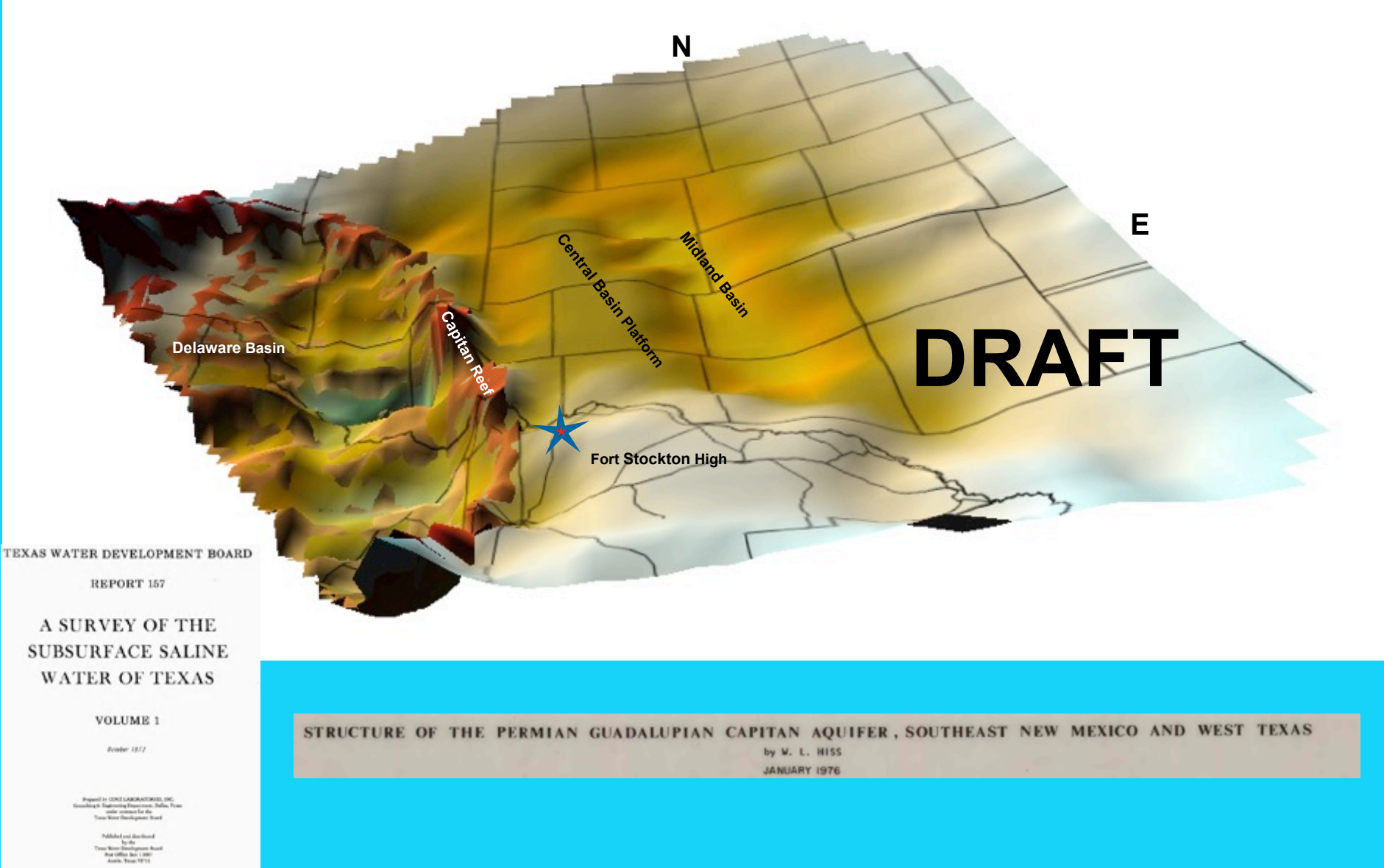
W. A. WALDSCHMIDT
H. L. WILLIAMS
W. L. WOOLLEY
W. T. WYNN
A. YOUNG



Preliminary Draft Geologic Framework



San Andres Formation

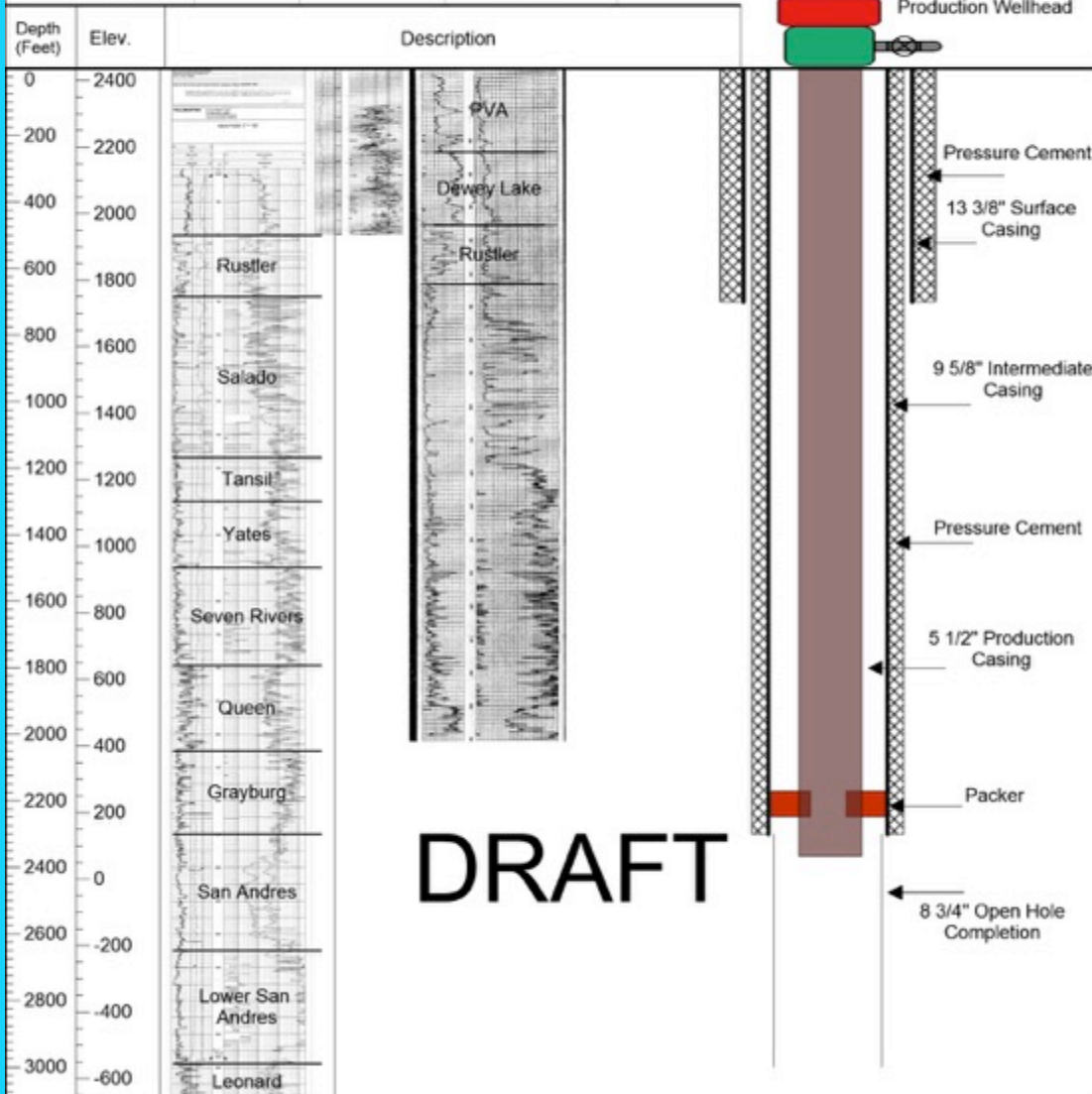
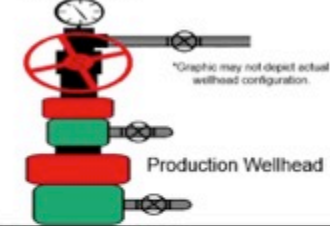




Straub Corporation
Stanton, Texas

Project		API Well ID	Owner Well ID	Latitude	Longitude
Charlton Resources		H2	H2		
Location		County			
Imperial, Texas					
Prepared By					
Raymond L. Straub Jr., P.G.					
Drilling Method		Total Depth			
		3000			
Drilled Date		Surface Elevation			
		2435			

Well Diagram



DRAFT

Preliminary Well Diagram

**Prudent
control
the right
way.**



RIG SPECIFICATION AND INVENTORY

RIG TYPE:

CSD-750

DRAW WORKS:

Rig Technologies 750hp 400B Draw works, powered by a Cat C-18 engine

MAST & SUBSTRUCTURE:

CSD 72-foot mast rated for 500,000 lbs

13' kb Substructure mounted on a four-axle trailer

8 String - 1 1/8" Drilling line

POWERED PUMPS:

2 Gardner Denver PZ-10 triplex pump powered by Cat C-32. 6.5 liners

MUD SYSTEM:

1 Steel pits with two shale shakers, 615 bbl. volume

1 5" X 6" Reserve Pump

TOP HEAD DRIVE & POWER UNIT:

Venture Tech XK-250 Ton top head drive, powered by a Cat C-18 engine

GENERATOR:

2 Detroit Series 60, 370-kw light plants

WATER TANK:

2 500-bbl. Freshwater tanks

WELL CONTROL EQUIPMENT:

1 13 5/8 x 5000 psi double ram BOP

1 11 x 3000 psi double ram BOP

1 11 x 3000 psi annular

1 4 x 2 x 5000 psi choke manifold

1 Marco Air/Elec. Accumulator, 120 gallons

PIPE AND DRILL COLLARS:

18 6 1/2-in. drill collars range II, with 4 1/2-XH connections.

4 8-in. drill collars range II, with 6 5/8-reg. connections

210 6,500 ft. of 4 1/2-inch drill pipe, 16.60#, grade X95, range II, with 4 1/2 XH connections.

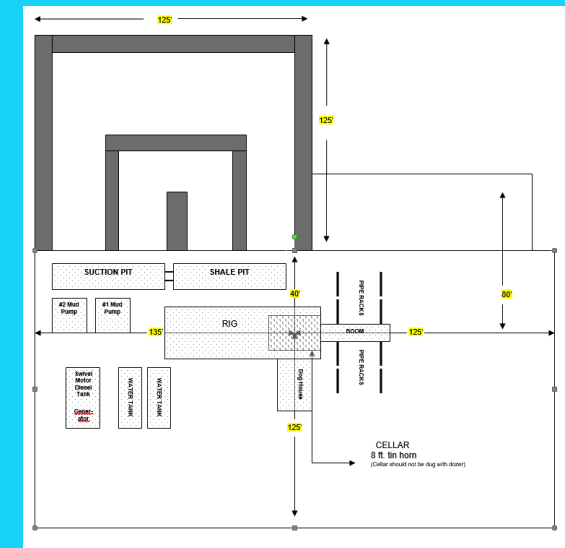
8 Sets of pipe racks

2 Pipe baskets

2 vertical racks

HANDLING TOOLS & AUXILIARY EQUIPMENT:

- CSD-Pipe Handling Boom
- CSD-Iron Roughneck
- Crown Protection System
- Pason Auto Driller (rental)
- Pason EDR (rental)
- 7* Eastman
- Camp transformer
- Bunk house for Rig Manager
- Bunk house for crews
- 5900-gal fuel tank



**Prudent
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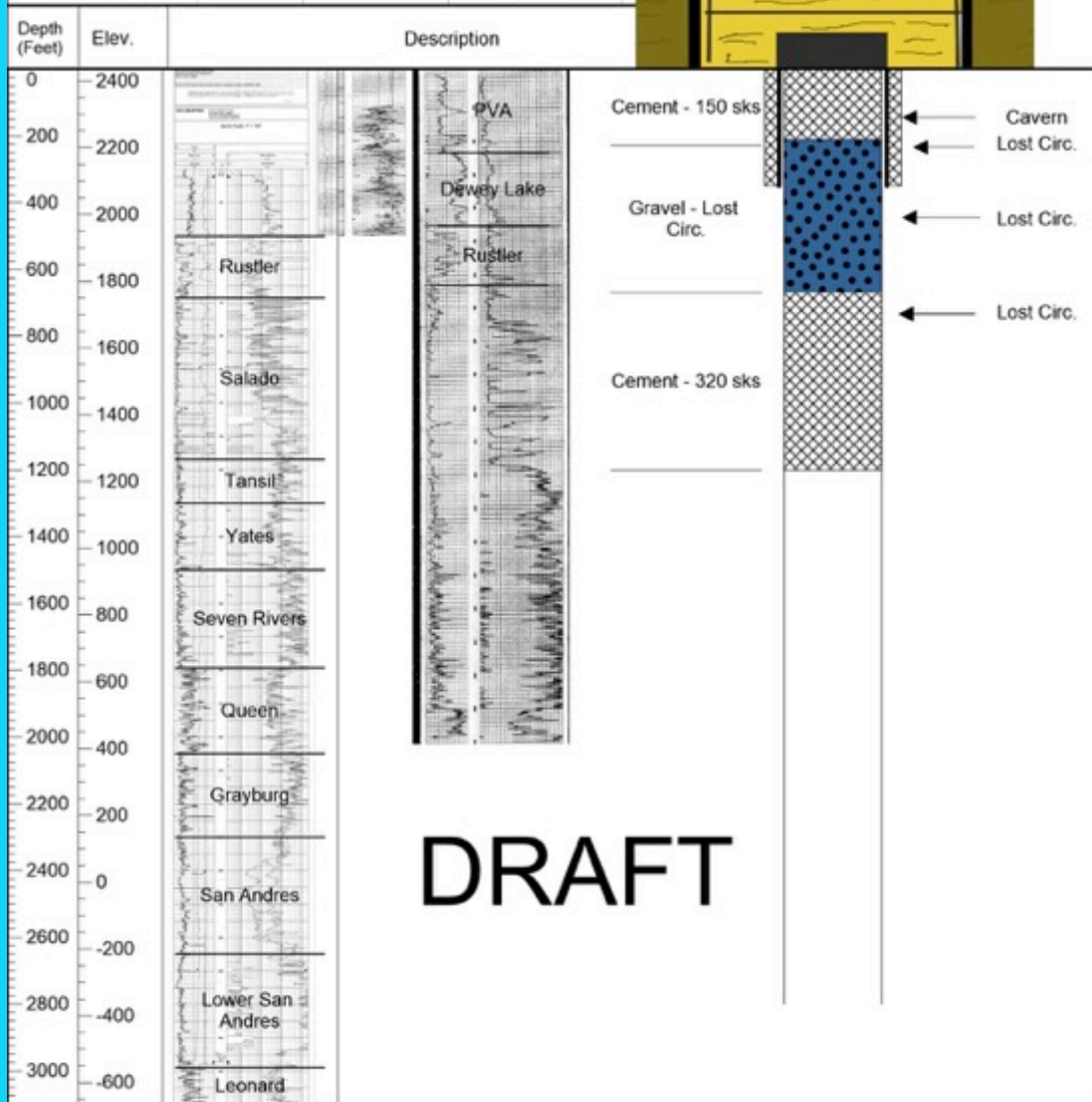
Straub Corporation
Stanton, Texas

Project	
Holiday #2	
Location	County
Imperial, Texas	
Prepared By	
Drilling Method	Total Depth
	3100
Drilled Date	Plugged Date
	Surface Elevation
	2435

API Well ID	Owner Well ID	Latitude	Longitude
H2	H2	31.211389	-102.752222

Well Diagram

*Graphic may not depict actual wellhead configuration.



**Prudent
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The timeline to save Imperial...

April 2017



June 2017



Oct 2017



Dec 2017



Feb 2018



Mar 2018



Apr 2018



May 2018



-Initial visit to West Texas to look at artesian wells in the Imperial area

-Education about the area and Negotiations for Partnering with existing permit holder

-Negotiations with partner fail due to extreme money demands and no water development plan..."we were told to go find our own water opportunity"

-Found local group of water advocates and located property for sale with an artesian water well

-The Imperial Water Development Association (IWDA) is formed

-Technical Presentation of IWDA Controlling the Flowing San Andres project to Groundwater Conservation District Board

-Submitted Water Production Permit for 967 acre-feet per year to Groundwater Conservation District Board and permit was contested by another permit holder

-Groundwater Conservation District holds Hearing which granted standing to contesting party and we requested a SOAH hearing

Jun 2018



Jul 2018



Aug 2018



Sept 2018



Oct 2018



To be cont.

-No action by District

-No action by District

-District finally sets Preliminary SOAH Hearing for Sept., 2018

-Preliminary SOAH Hearing for Motions

-SOAH Permit Hearing

Thank you for your time.

**Please consider donating to and
supporting the IWDA today!**

We look forward to giving you the next installment!



**The right thing to do.
The right way to do it.**