

BW - _____ 31 _____

**SOLUTION
CAVERN
CHARACTERIZATION**

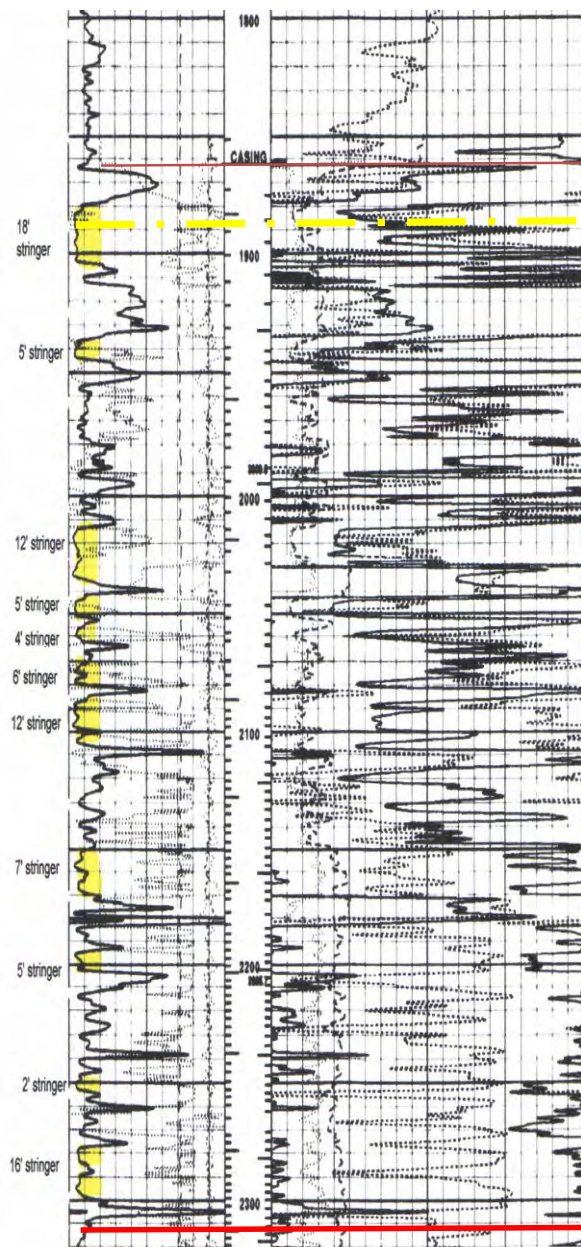
Schubert 7 Well No1

Jul-19

API 30-025-36781

J SEC7 T19S R39E

LAT: 32.6738815 LONG:-103.0835953



PPG 9.97 brine

PPG 8.34 fresh

SG 1.1951

2006 to July 2019 Total Brine bbl. 3,952,352

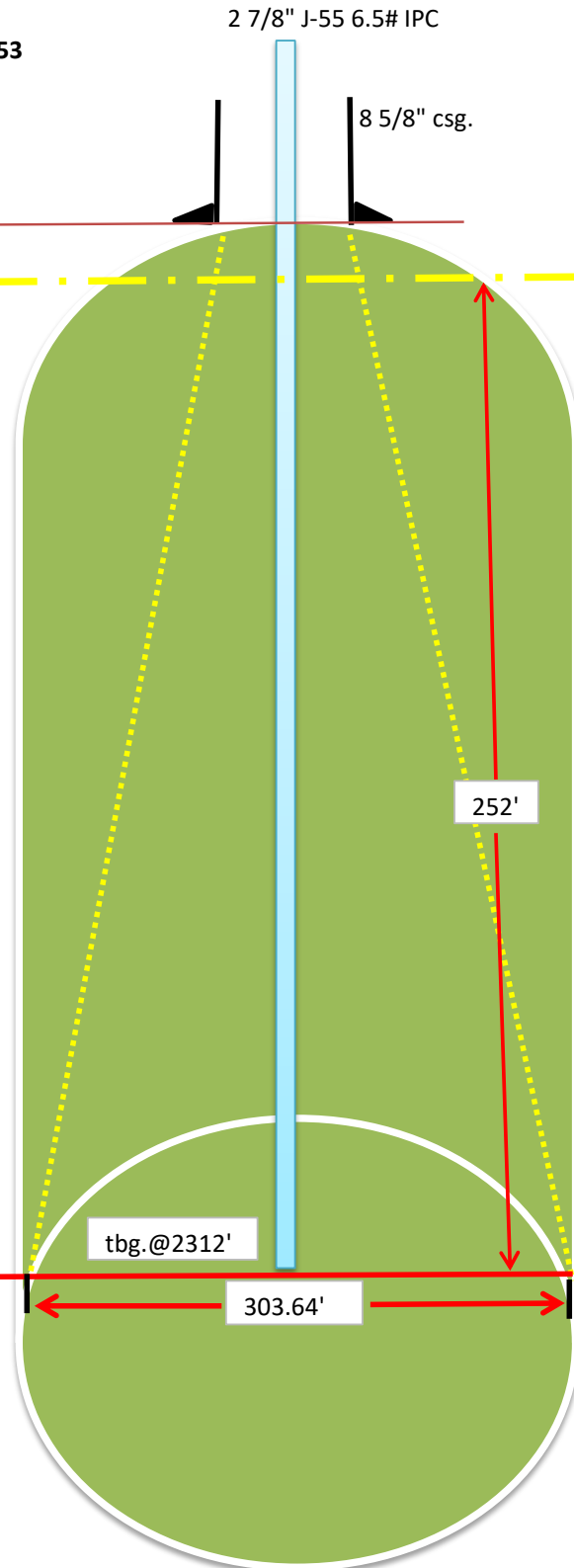
122.136 LBS / BBL = 482,724,464 LBS HALITE

$(482,724,464 \text{ LBS}) / (80 \text{ BLS per ft}^3) = 6,034,056 \text{ ft}^3$

$$V = \pi R^2 h / 3$$

$$V = (3.14159 * 151.82^2) * (252') / 3$$

$$V = 6,034,291 \text{ ft}^3$$



Est. height is 252'

Est. cavern floor diameter is 303.64'

$303.64 / 1865 = 0.163$ factor value

Schubert 7 Well No1

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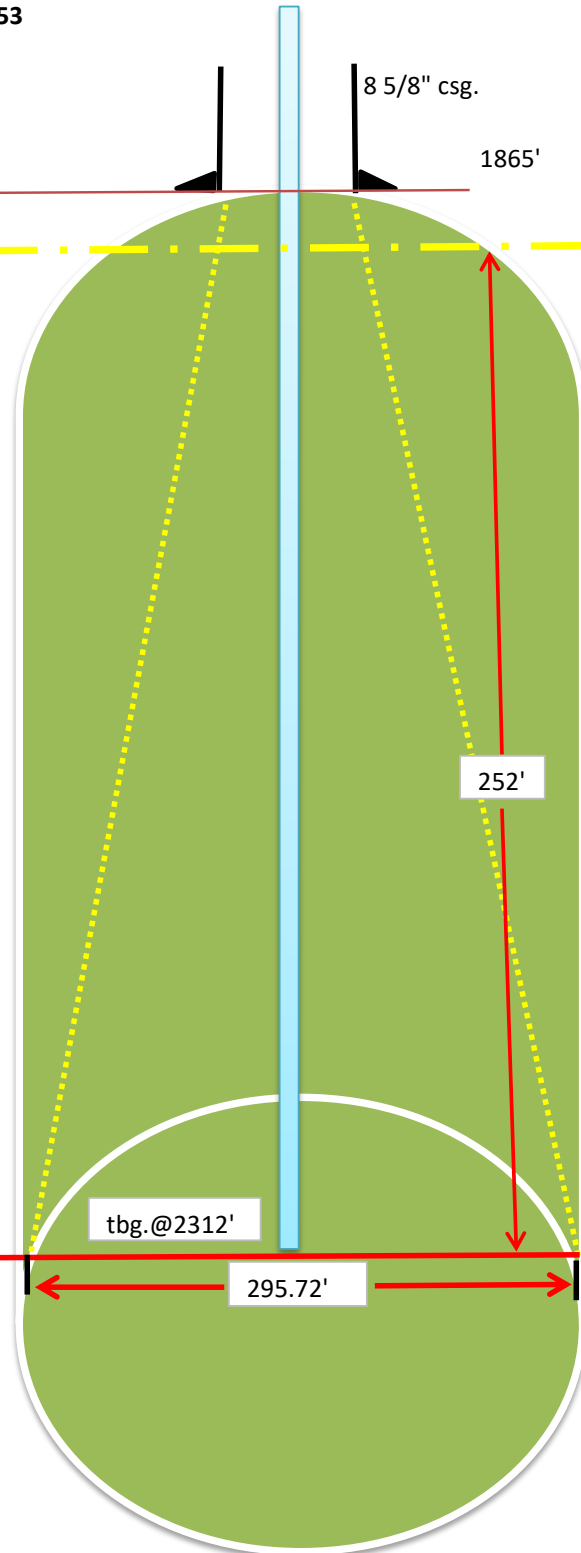
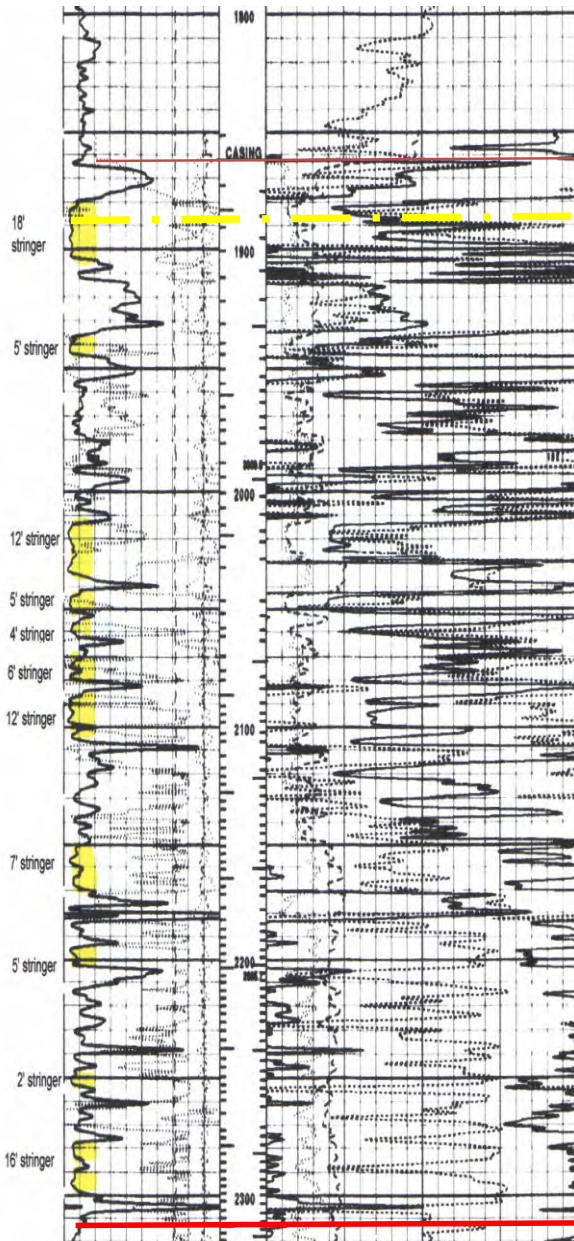
J SEC7 T19S R39E

LAT: 32.6738815 LONG:-103.0835953

2 7/8" J-55 6.5# IPC

8 5/8" csg.

1865'



PPG 9.97 brine

PPG 8.34 fresh

SG 1.1951

2006 to 2018 Total Brine bbl. 3,779,164

122.136 LBS / BBL = 461,571,974.304 LBS HALITE

(461,571,974 LBS) / (80 LBS per ft³) = 5,769,650 ft³

$$V = \frac{\pi R^2 h}{3}$$

$$V = (3.14159 * 147.86^2) * (252') / 3$$

$$V = 5,769,394 \text{ ft}^3$$

Est. height is 252'

Est. cavern floor diameter is 295.72'

$$295.72' / 1865' = 0.159 \text{ factor}$$

Schubert 7 Well No1

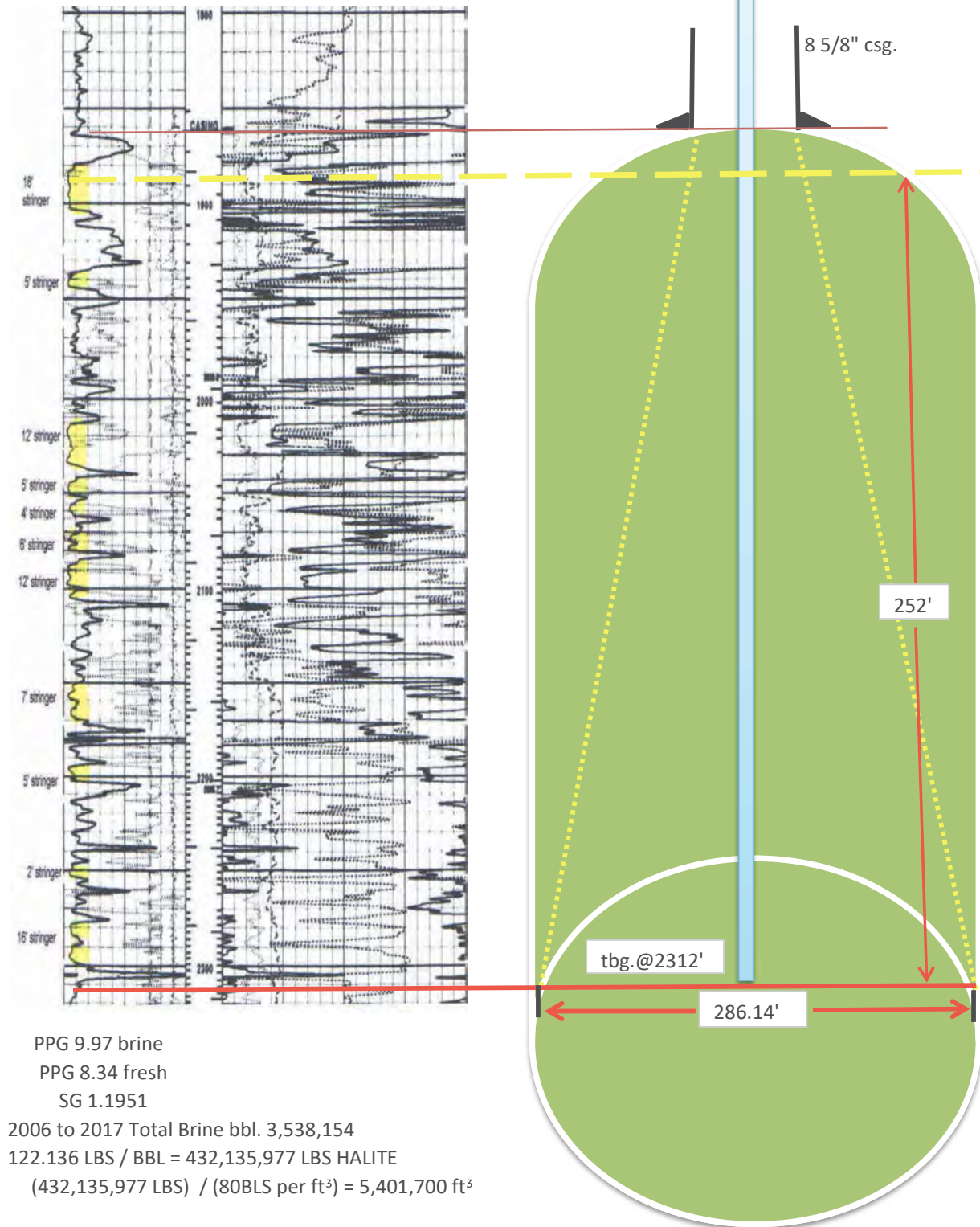
API 30-025-36781

J SEC7 T19S R39E

LAT: 32.6738815 LONG:-103.0835953

2 7/8" J-55 6.5# IPC

8 5/8" csg.



PPG 9.97 brine

PPG 8.34 fresh

SG 1.1951

2006 to 2017 Total Brine bbl. 3,538,154

122.136 LBS / BBL = 432,135,977 LBS HALITE

(432,135,977 LBS) / (80BLS per ft³) = 5,401,700 ft³

$$V = \pi R^2 h / 3$$

$$V = (3.14159 * 143.07^2) * (252') / 3$$

$$V = 5,401,648.6 \text{ ft}^3$$

Est. height is 252'

Est. cavern floor diameter is 286.14'