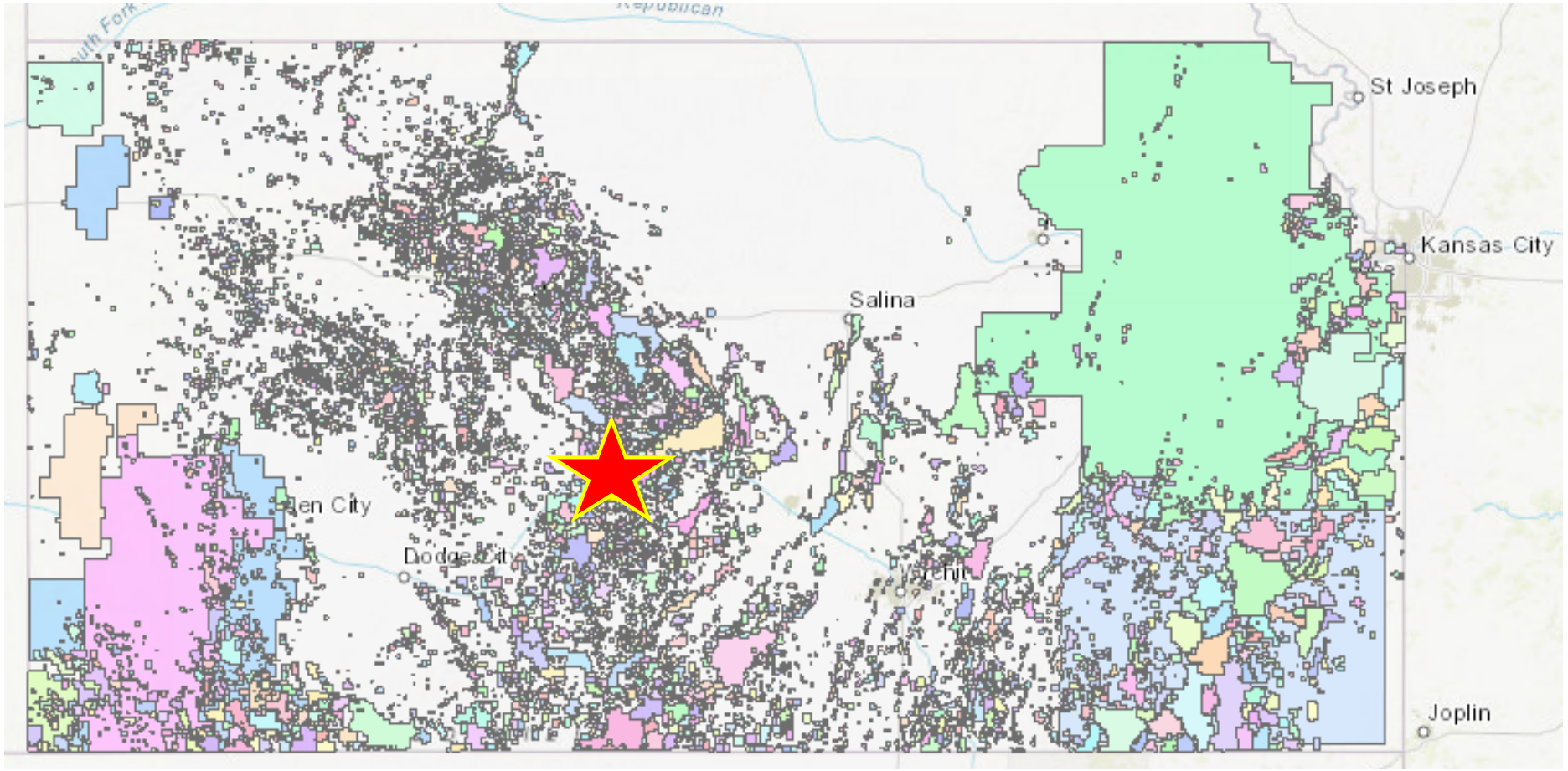
# Thompson Project




## Geologic Setting:

- Central Kansas Uplift
- Primary production from Arbuckle Dolomite
- Secondary Production from Simpson Sand

## Geographic Setting:

- Stafford County Kansas
- Stafford County Cumulative Oil Production exceeds 278 million barrels
- January 2019 Stafford County Oil Production is near 3,000 bopd
- Stafford County production in has exceeded 1 million barrels per year since 1995

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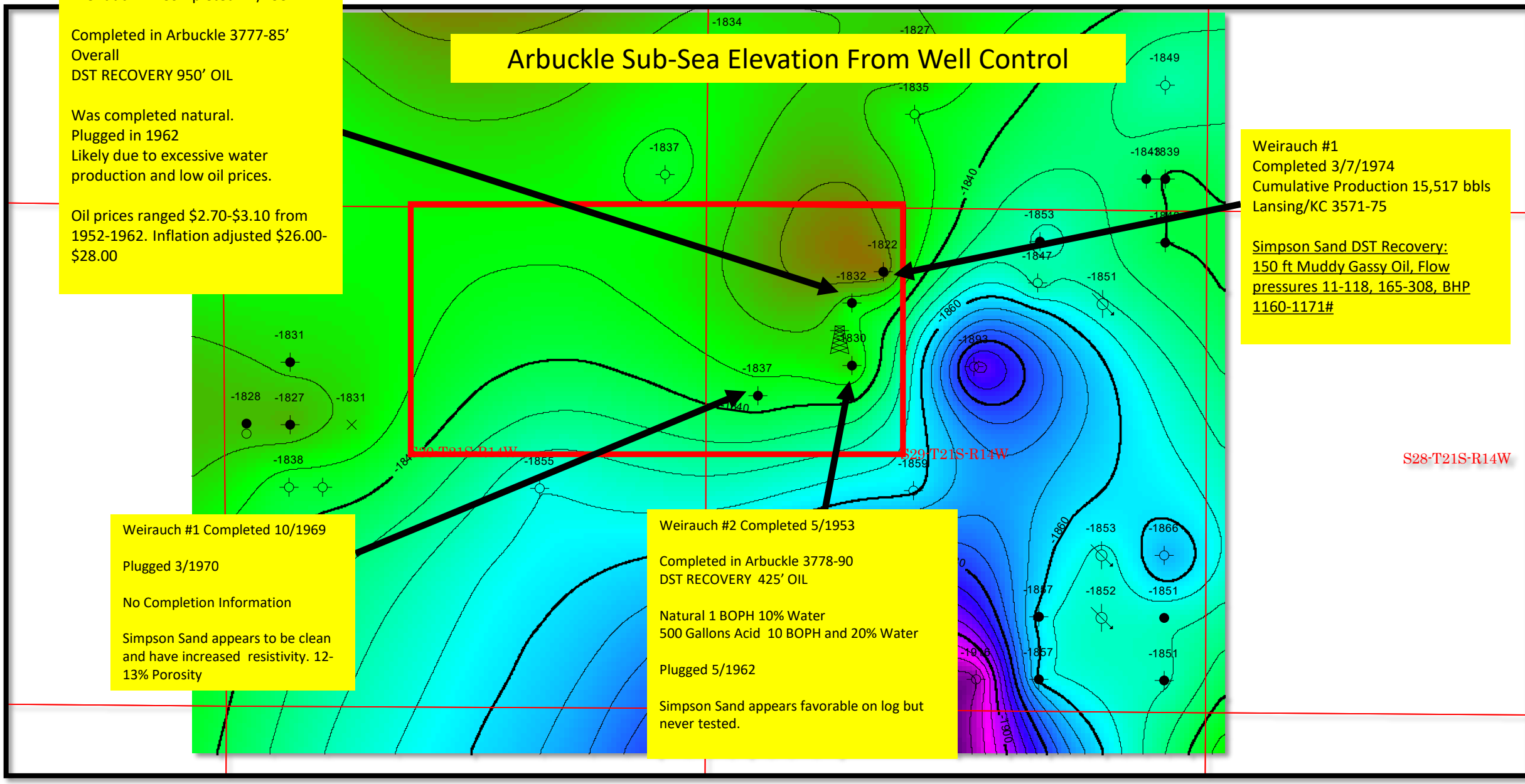
# Arbuckle Sub-Sea Elevation From Well Control




Weirauch #1 Completed 11/1952

Completed in Arbuckle 3777-85'
Overall
DST RECOVERY 950' OIL

Was completed natural.
Plugged in 1962
Likely due to excessive water production and low oil prices.

Oil prices ranged $2.70-$3.10 from 1952-1962. Inflation adjusted $26.00-$28.00

Weirauch #1
Completed 3/7/1974
Cumulative Production 15,517 bbls
Lansing/KC 3571-75

Simpson Sand DST Recovery:
150 ft Muddy Gassy Oil, Flow pressures 11-118, 165-308, BHP 1160-1171#

S28-T21S-R14W

Weirauch #1 Completed 10/1969

Plugged 3/1970

No Completion Information

Simpson Sand appears to be clean and have increased resistivity. 12-13% Porosity

Weirauch #2 Completed 5/1953

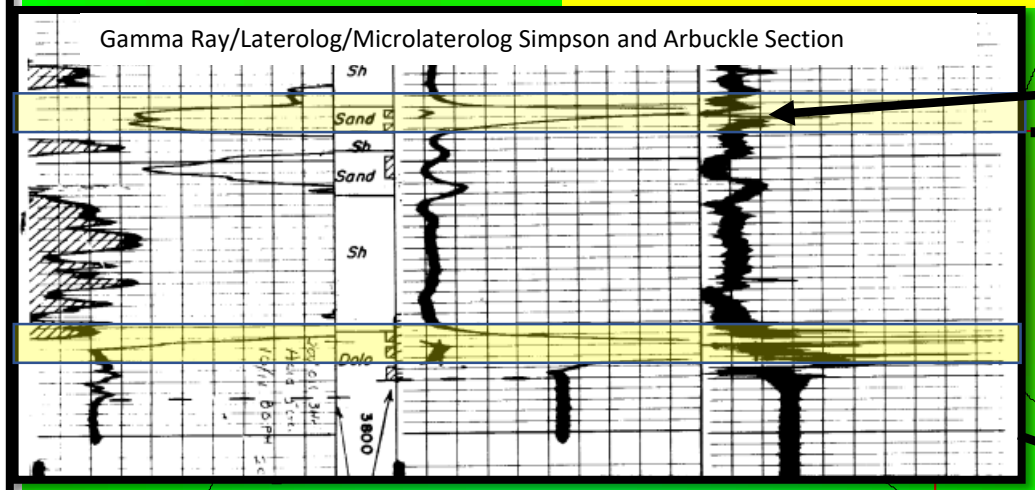
Completed in Arbuckle 3778-90
DST RECOVERY 425' OIL

Natural 1 BOPH 10% Water
500 Gallons Acid 10 BOPH and 20% Water

Plugged 5/1962

Simpson Sand appears favorable on log but never tested.

# Arbuckle Sub-Sea Elevation From Well Control




Increased resistivity measurements across sand indicating possible moveable hydrocarbons. This zone was not tested during drilling or completion.

Area of significant deep structure. Closure is apparent and proven by DST Recovery and completions from old wells.

Excellent secondary porosity in Arbuckle, high dissolution area probably pinching out to higher regional structure to the north.

Arbuckle Oil is 20 Gravity. Heavy oil subject to lower mobility and early influx of water. For this reason polymer gel application potentially very successful.

Strong possibility of bypassed Simpson Sandstone pay, especially in the oldest wells. Small frac jobs on poor DST recovery have resulted in very large wells within the Bayer Field. 2-3 BOPH after frac= 48-72 BOPD with very little water. 20-25 BOPD would be excellent.



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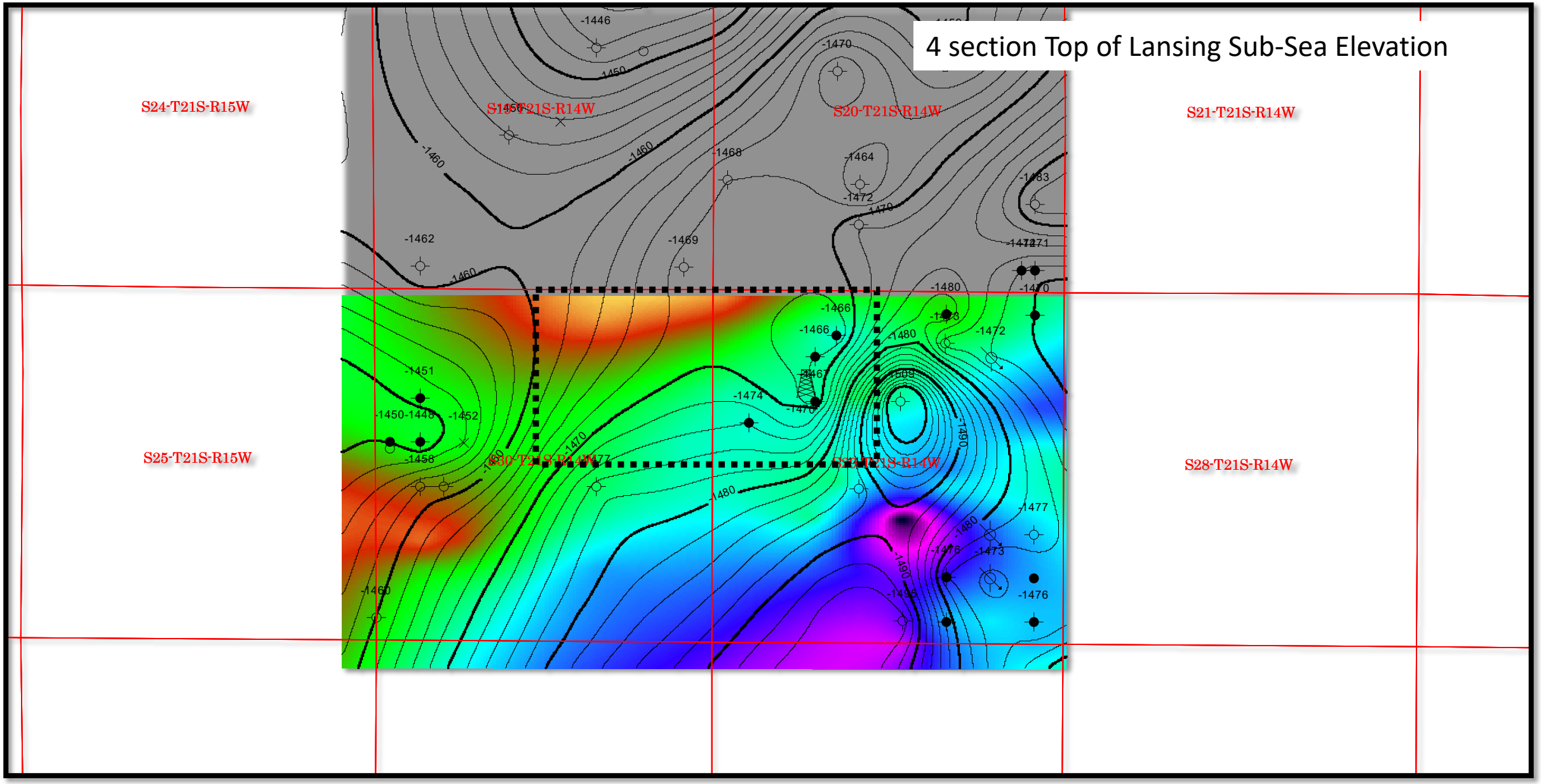
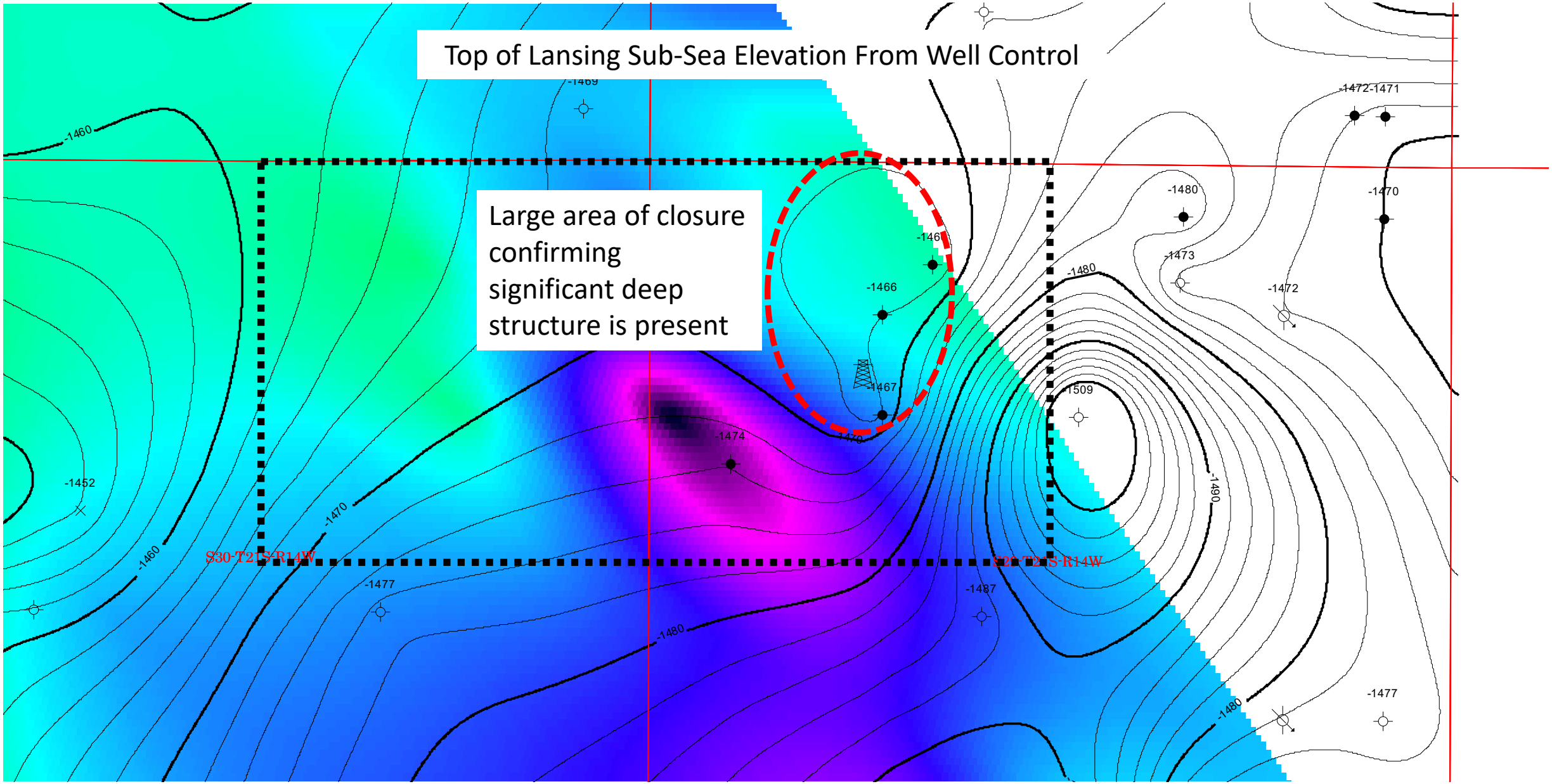
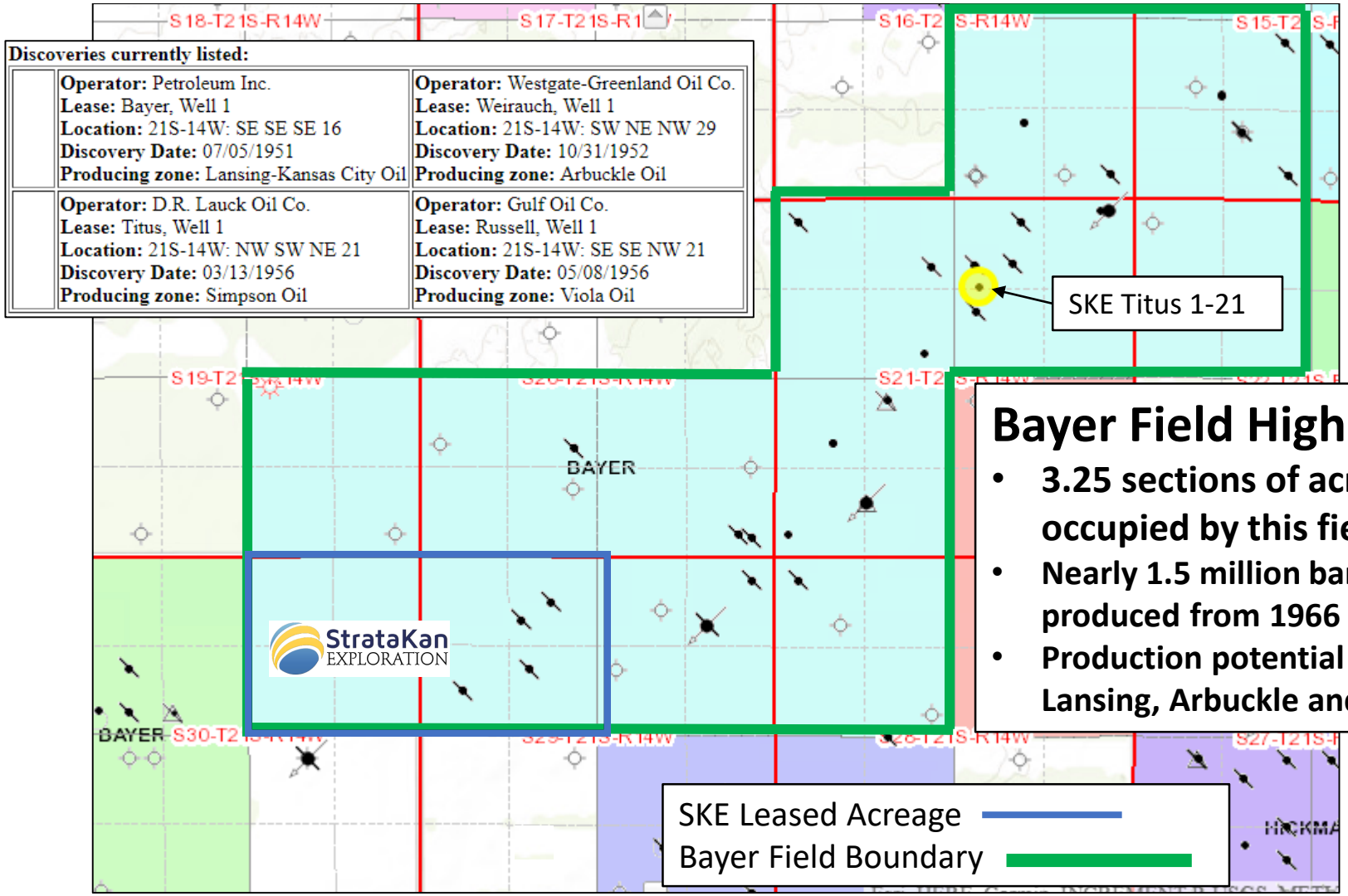
# 4 section Top of Lansing Sub-Sea Elevation




Top of Lansing Sub-Sea Elevation From Well Control
Large area of closure confirming significant deep structure is present
-1460
-1469
-1472-1471
-1480
-1470
-1466
-1473
-1472
-1509
-1467
-1474
-1452
-1490
-1477
-1487
S30-T21S-R14W
S29-T21S-R14W

# Thompson Project - Bayer Field Overview




**Discoveries currently listed:**

| | | |
|---|---|---|
| | **Operator:** Petroleum Inc.<br>**Lease:** Bayer, Well 1<br>**Location:** 21S-14W: SE SE SE 16<br>**Discovery Date:** 07/05/1951<br>**Producing zone:** Lansing-Kansas City Oil | **Operator:** Westgate-Greenland Oil Co.<br>**Lease:** Weirauch, Well 1<br>**Location:** 21S-14W: SW NE NW 29<br>**Discovery Date:** 10/31/1952<br>**Producing zone:** Arbuckle Oil |
| | **Operator:** D.R. Lauck Oil Co.<br>**Lease:** Titus, Well 1<br>**Location:** 21S-14W: NW SW NE 21<br>**Discovery Date:** 03/13/1956<br>**Producing zone:** Simpson Oil | **Operator:** Gulf Oil Co.<br>**Lease:** Russell, Well 1<br>**Location:** 21S-14W: SE SE NW 21<br>**Discovery Date:** 05/08/1956<br>**Producing zone:** Viola Oil |

## Bayer Field Highlights:

- **3.25 sections of acreage occupied by this field**
- **Nearly 1.5 million barrels of oil produced from 1966 to 2018 in**
- **Production potential in Simpson, Lansing, Arbuckle and Viola**

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