



Stretching Dollars: Bakken Township Development

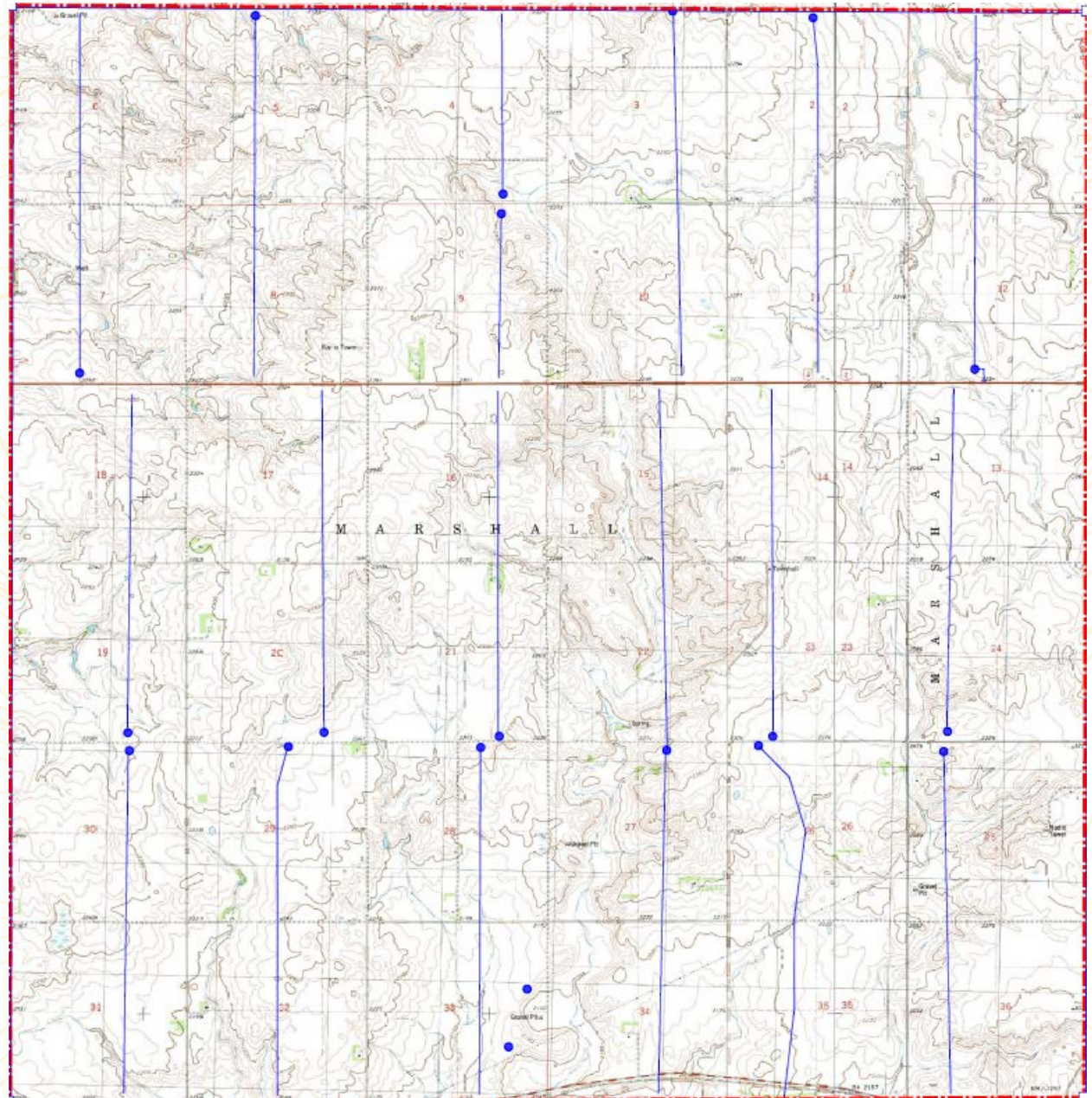
Bryan George
2/19/2014

INDEPENDENT
MEANS



Continental
RESOURCES

“How....”

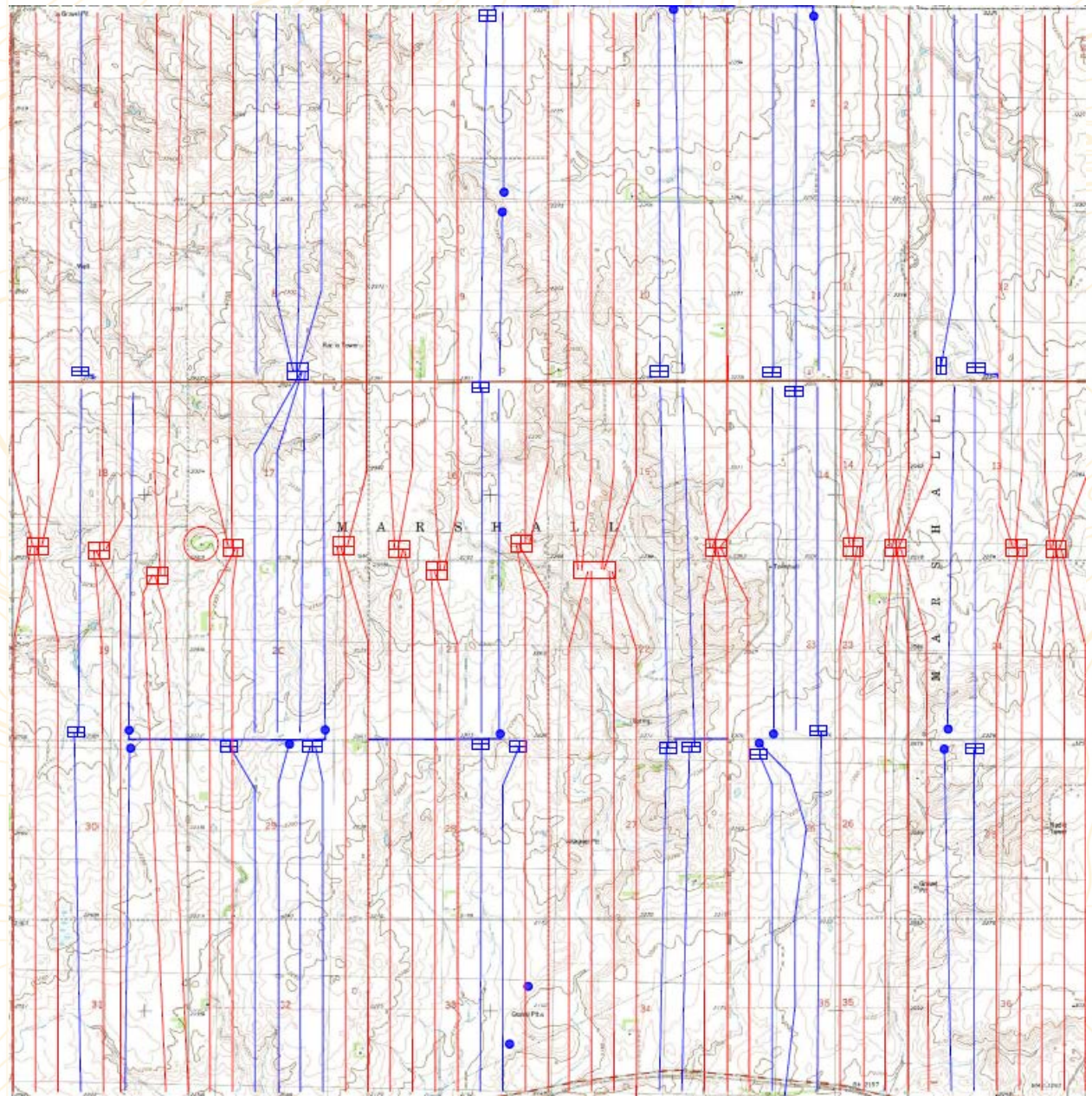


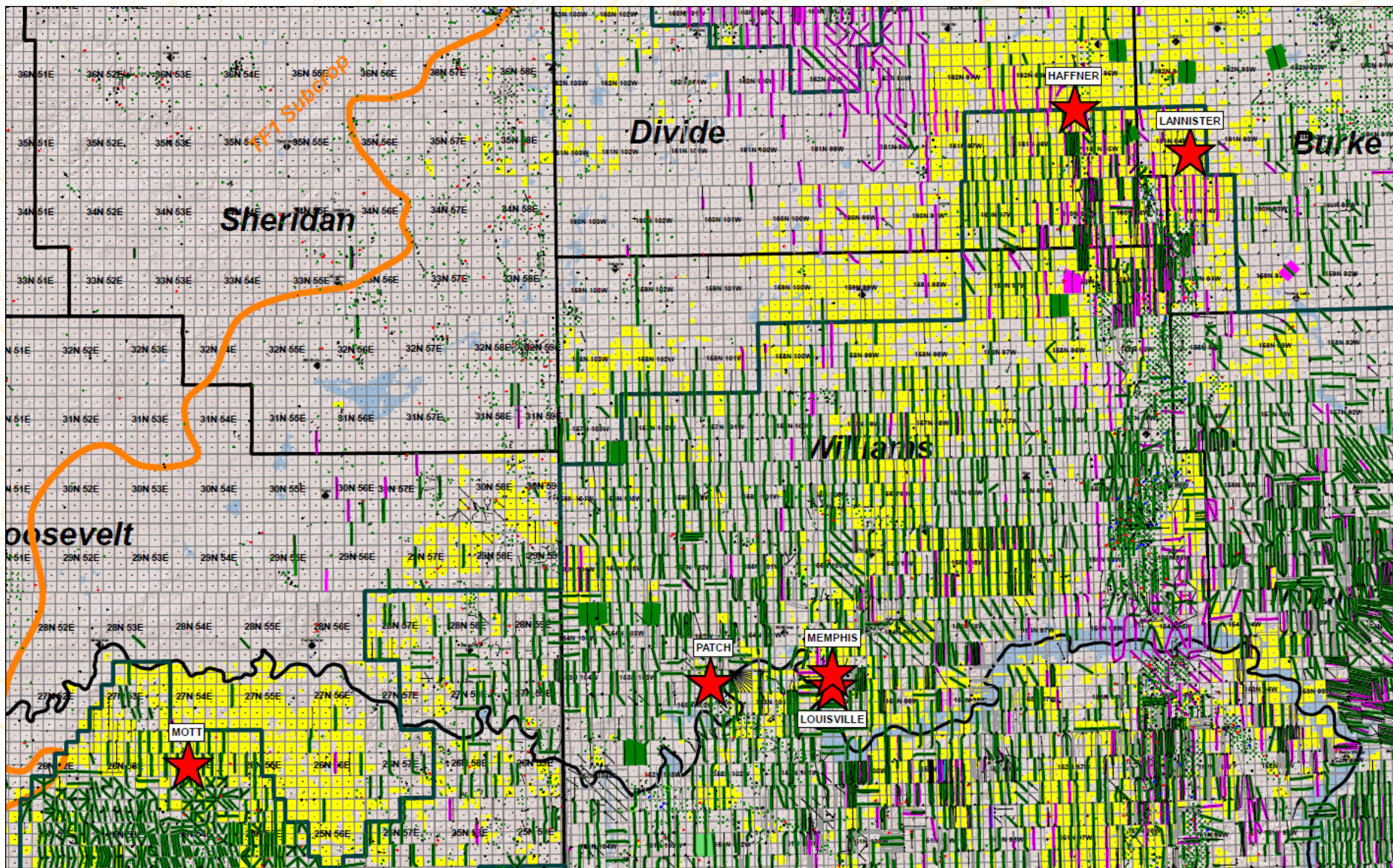
2

INDEPENDENT MEANS



“What if....”

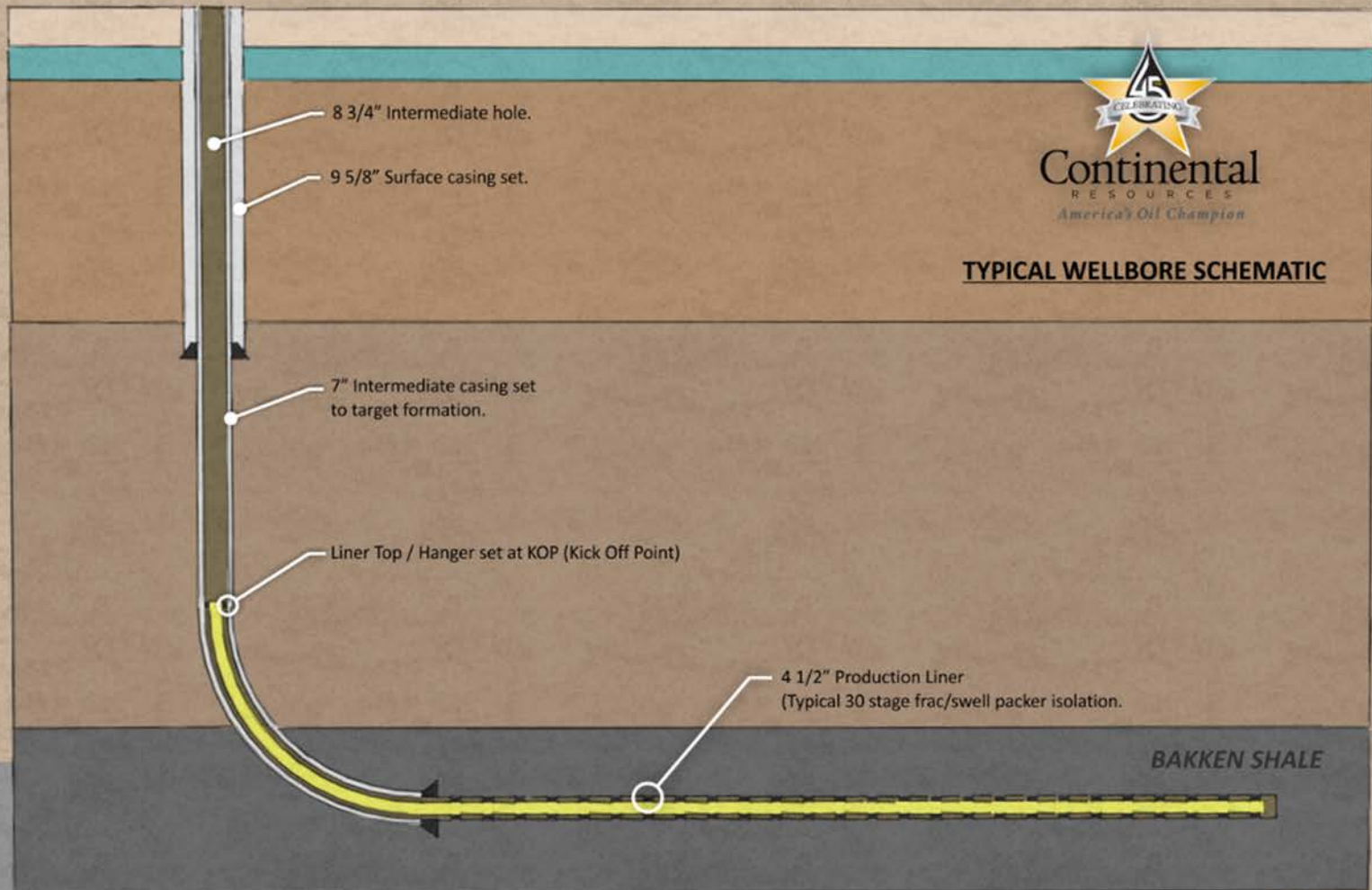




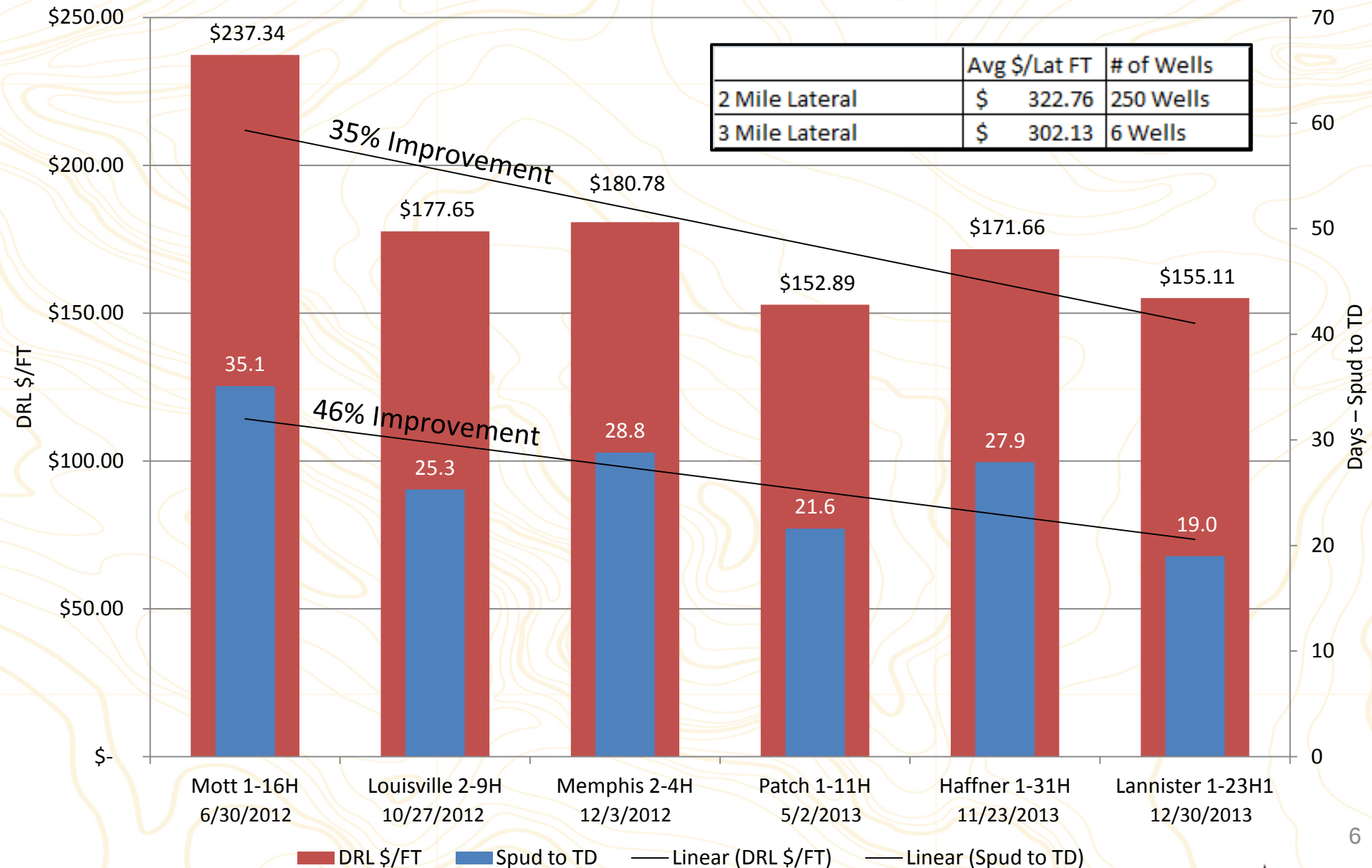


Continental
RESOURCES
America's Oil Champion

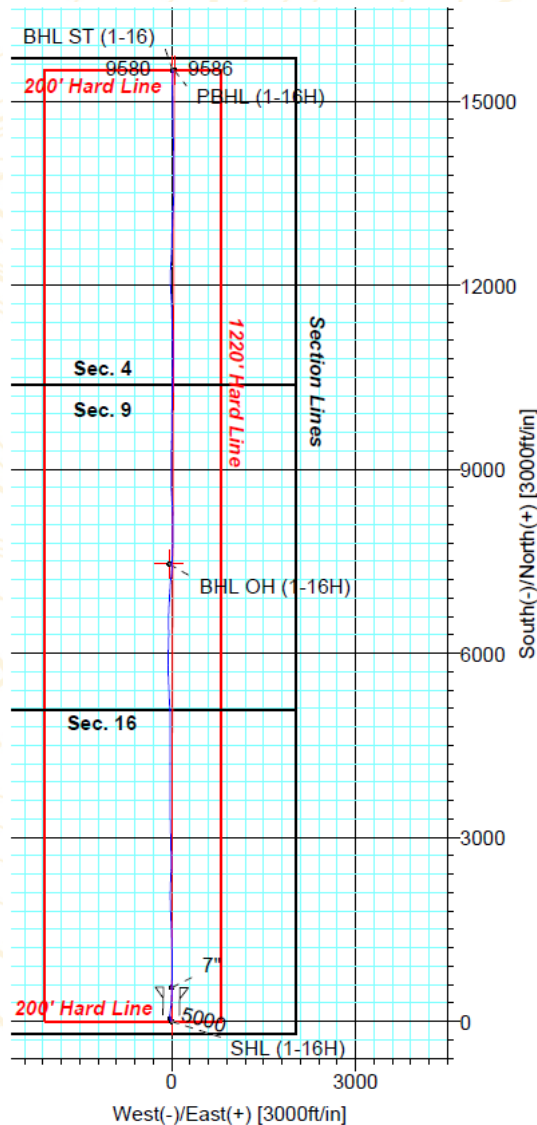
TYPICAL WELLBORE SCHEMATIC



3 Mile Lateral Wells - Cost and Performance

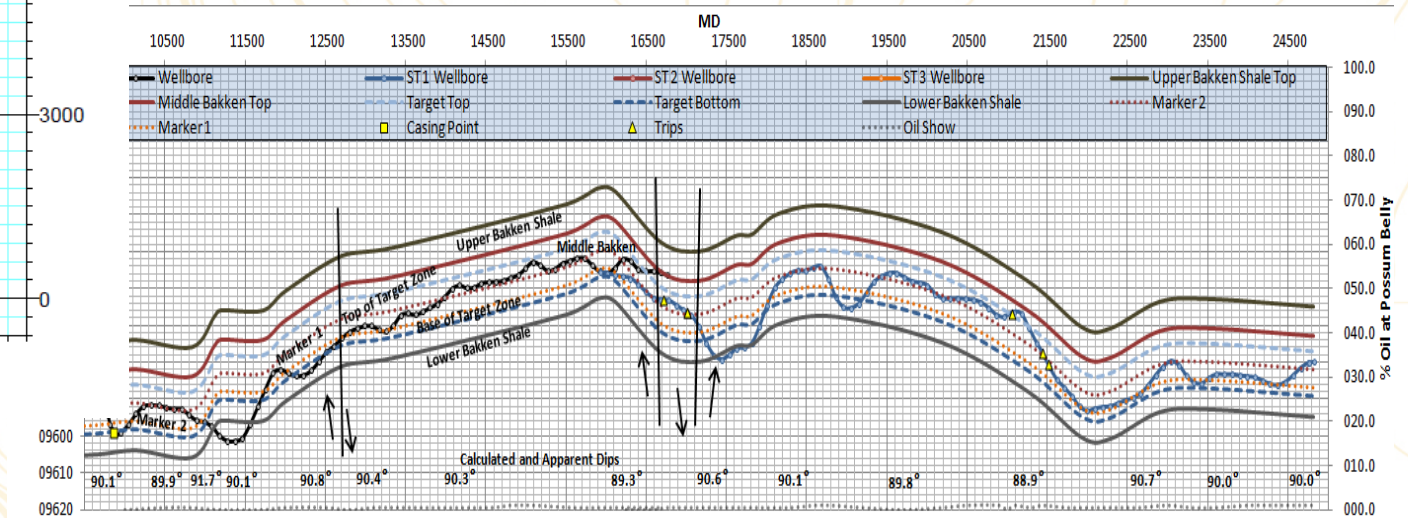


Mott 1-16H

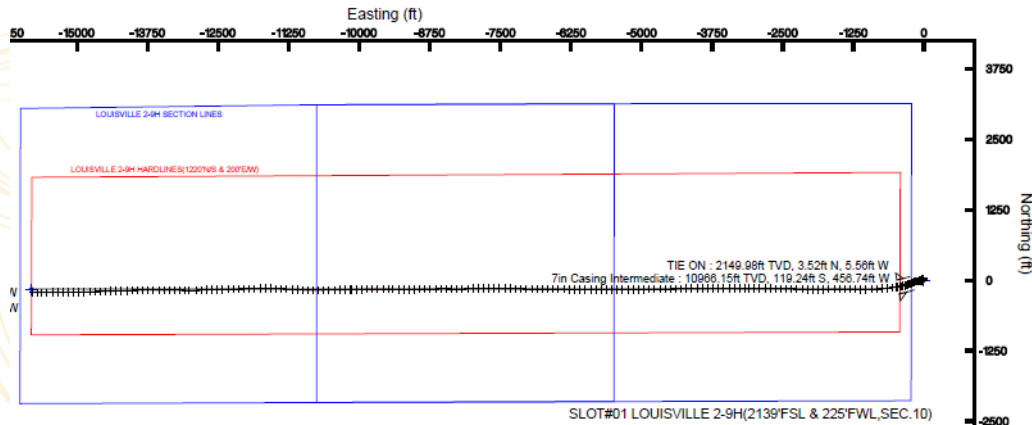


Lessons Learned

- 🔥 Loaded for Bear
 - XT39 Drill Pipe
 - RS on the Hook
 - Hydril 563 Liner
- 🔥 **IT CAN BE DONE**

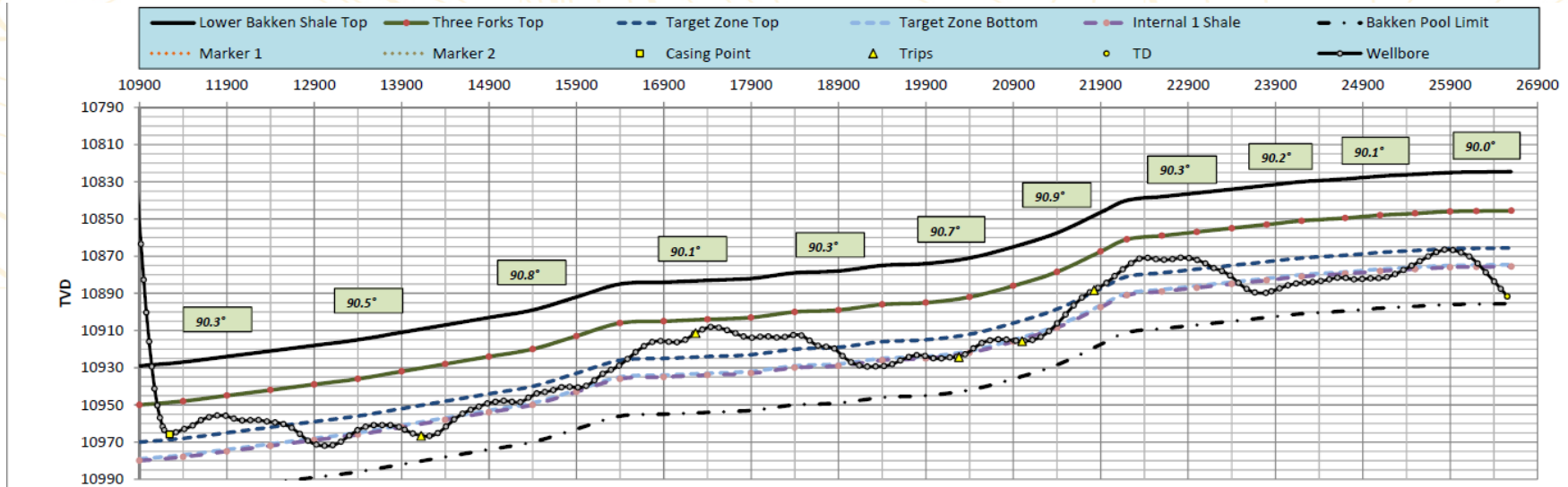


Louisville 2-9H



Lessons Learned

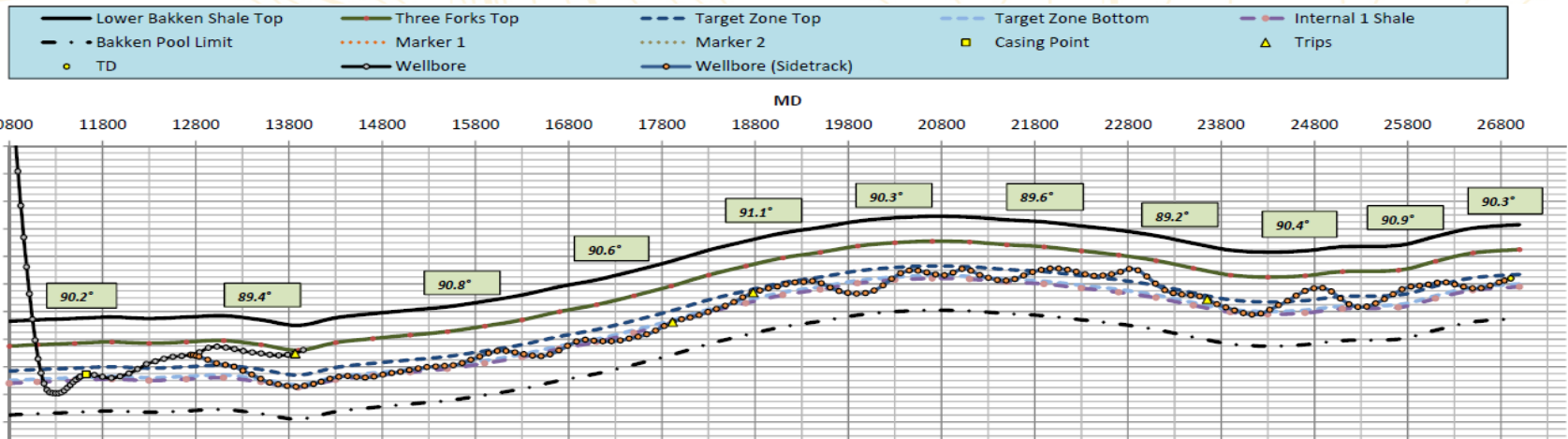
- 💧 DS38 Drill Pipe
- 💧 Drilled Well E/W vs N/S
- 💧 Knowledge Sharing



Memphis 2-4H

Lessons Learned

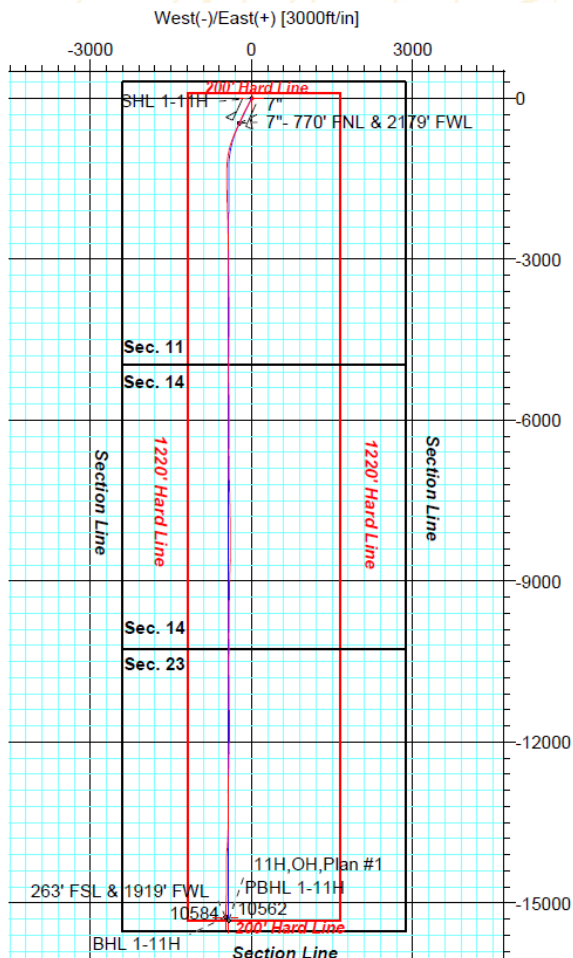
- 💧 Torque & Drag Issues
- 💧 >8% Lube Does Not Work
- 💧 Hole Cleaning Issues



Western Hemisphere Land Record for Deepest Horizontal Well

INDEPENDENT MEANS

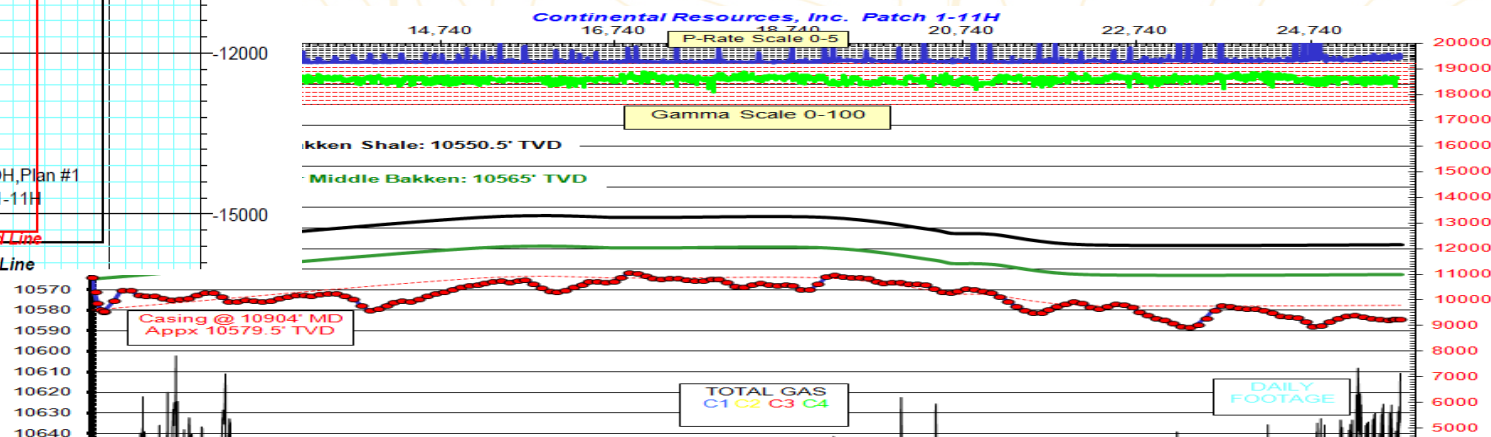




Patch 1-11H

Lessons Learned

- Drilled with Compound Mechanical Rig
- 1st Well to Run TXP Connections
- No Hole Cleaning Issues and Smoother Wellbore
- Single Lateral BHA from DO to TD

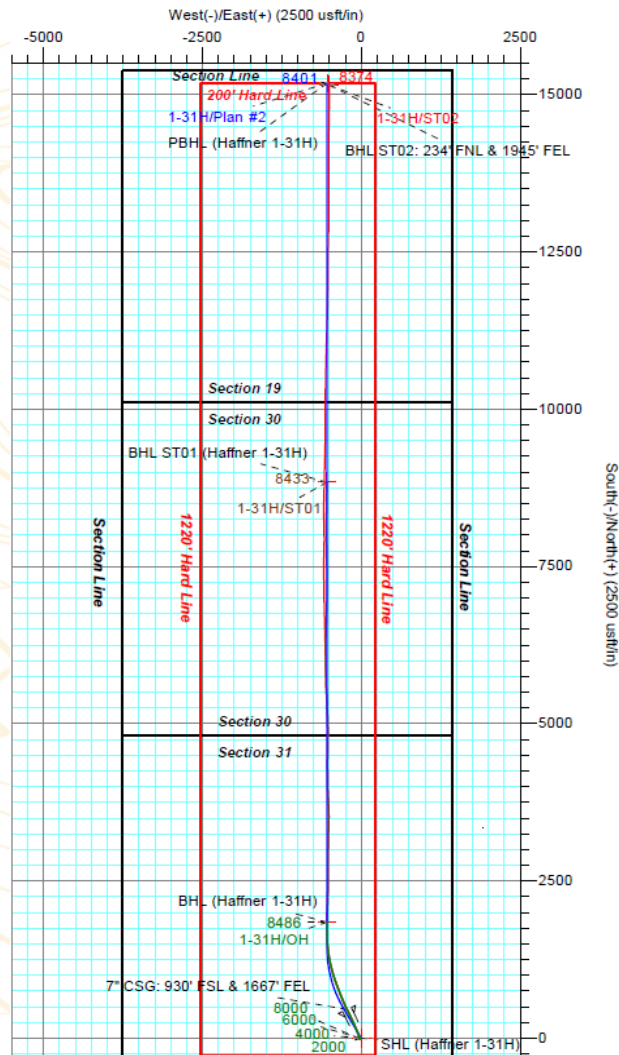


World Record for Consecutive Lateral Footage Drilled

INDEPENDENT MEANS

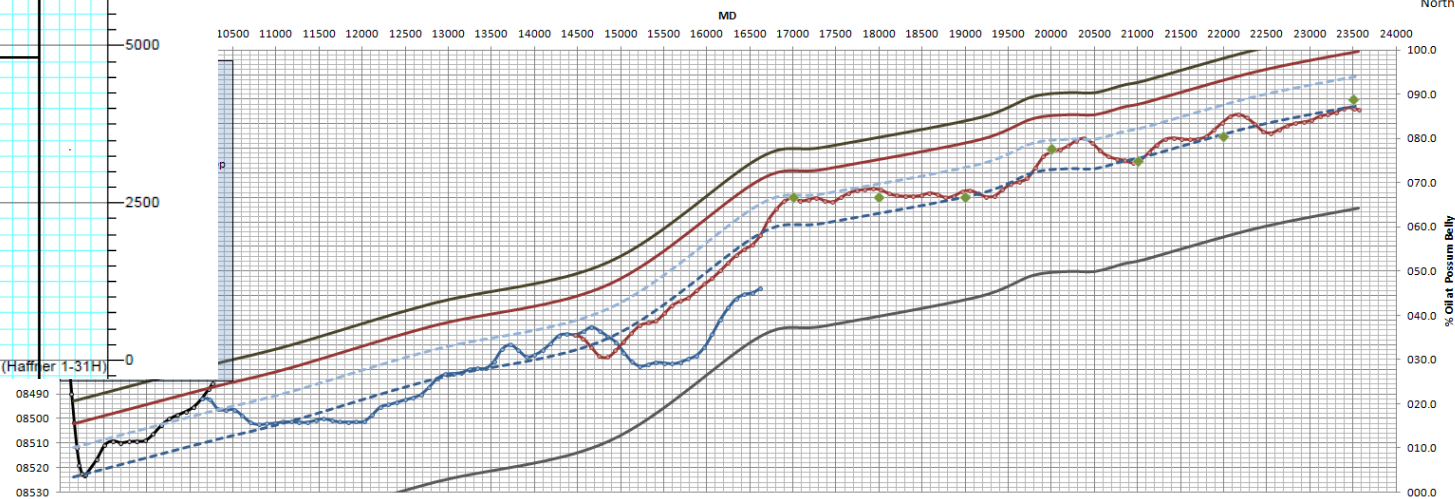


Haffner 1-31H



Lessons Learned

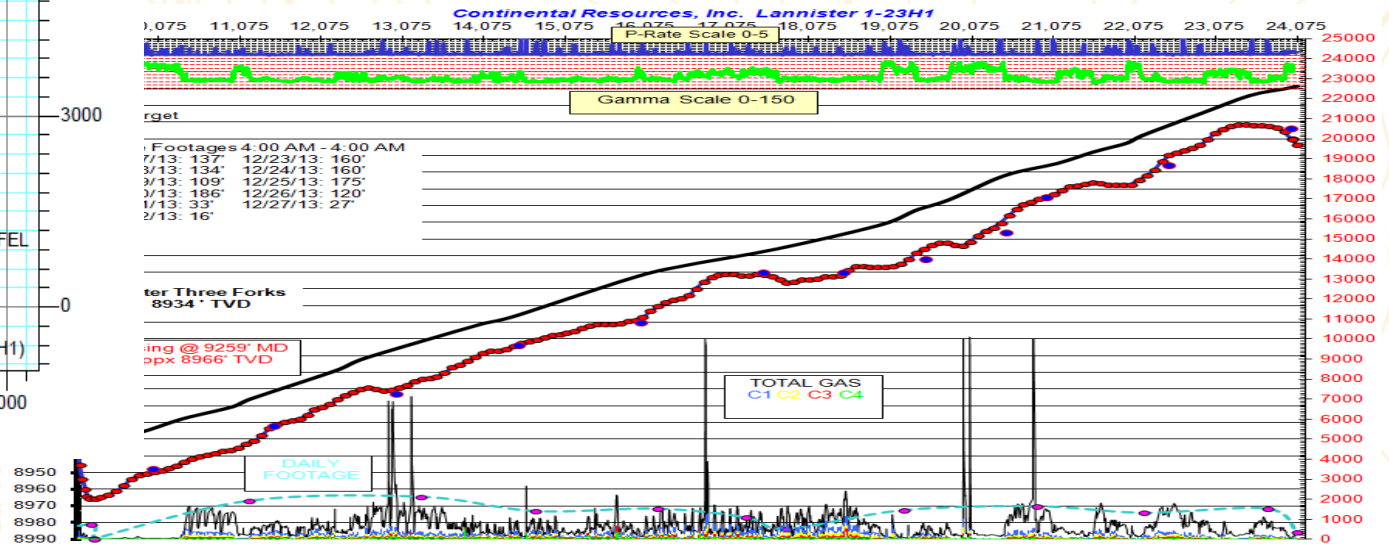
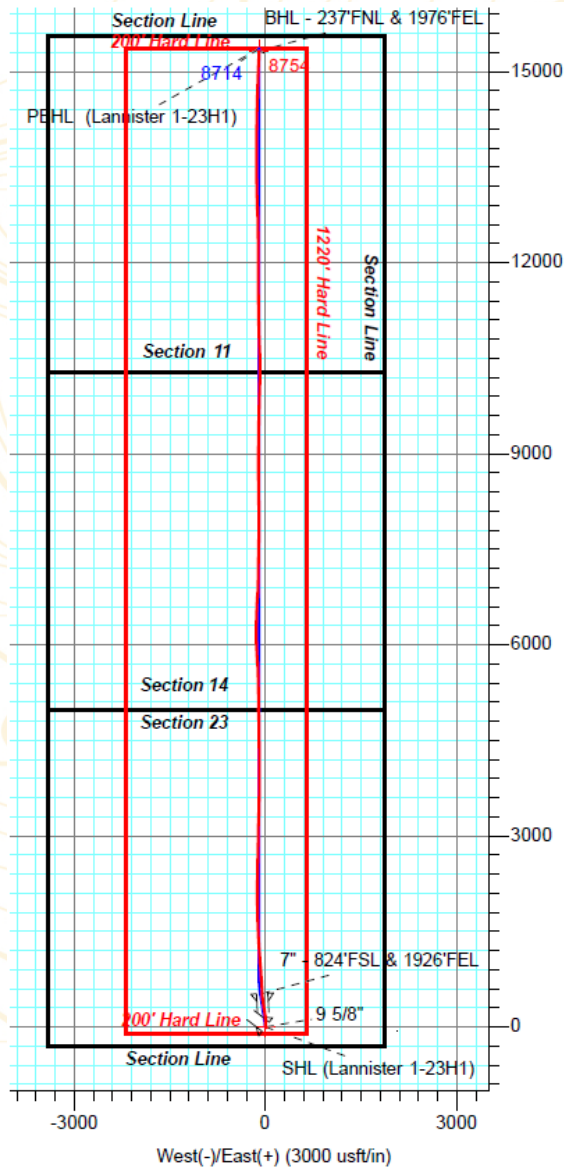
- Shallow TVD Can Be Done
- Complex Wellbore Geometry
- Turn in Lateral
- Successful Liner Run Despite Tq & Drag Models



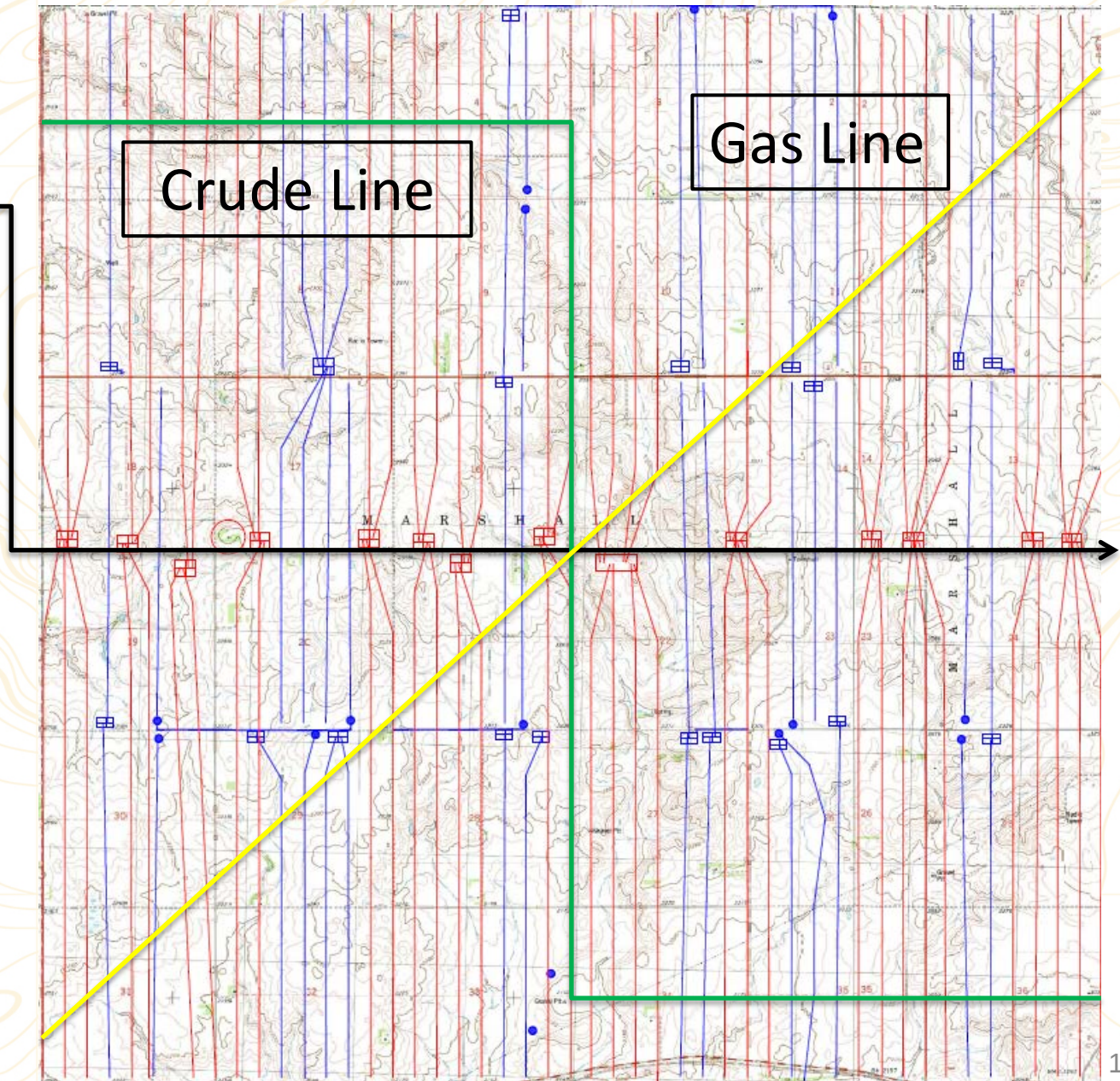
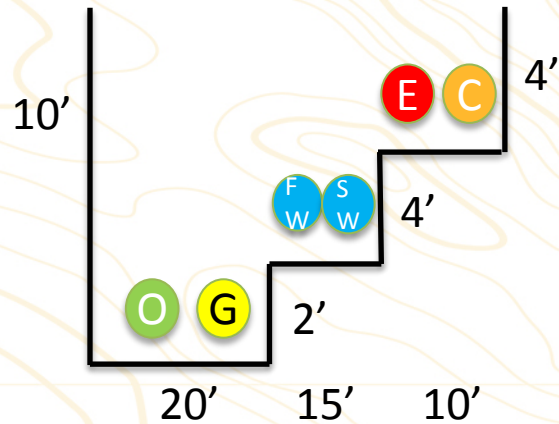
Lannister 1-23H

Lessons Learned

- 💧 Confidence is Building That We Can Successfully Drill and Case



Energy
Corridor
Remember
This?



Stretching Dollars

Standard 2 Mile Development Pattern	=	141 Wells	=	\$1,105.4
3 Mile Lateral Development	=	109 Wells	=	\$998.9
Potential Savings	=	32 Wells	=	\$107 Million

Standard 2 Mile Development Pattern	=	64 Locations	=	280.3 Acres
3 Mile Lateral Development	=	46 Locations	=	179.1 Acres
Potential Savings	=	18 Locations	=	101.2 Acres
36% reduction in footprint				

2013 2-Mile Single - \$9.3MM → 2014 3-Mile Single - \$9.7MM

Additional Benefits

- 💧 Additional Lateral Footage
- 💧 Mobilization
- 💧 Waste Reduction
- 💧 Permits
- 💧 Completions
- 💧 Gathering Line / Battery Design



Future Challenges

🔥 Drilling

- Pad Drilling
- Stacked Laterals
- Casing Design

🔥 Completions

- Cleanout
- Friction Pressure
- Toe Stim Concerns
- Tracer in Frac

🔥 Reservoir

- Lower Performance Areas



Questions?

