



Continental
RESOURCES

ND Oil and Gas Research Council Meeting

Jose Zaghloul, Ph D

Oct 17th, 2025



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EXECUTIVE SUMMARY

- Continental proposes two large-scale world-class Unconventional EOR (UEOR) pilots in two different areas of the Williston Basin. These projects have the potential for changing the field development and production landscape.
- The proposed pilots alone will bring investments to North Dakota valued at ~ \$60MM.
- EOR investments have the potential to substantially increase revenue from existing well production. Our conservative size of the prize estimate for EOR in the Williston basin is ~ 3 billion barrels.
- Continental is building upon experience acquired in the Anadarko, Williston, and Powder River basin pilots. Continental is one of the most successful operators in the Unconventional EOR space. Few operators have Continental's Unconventional EOR experience and expertise.

EXECUTIVE SUMMARY

- Continental explores and promotes the use of new technology and will consider the use of foam (if necessary).
- Continental proactively promotes collaboration with leading operators in the UEOR space.

OUTLINE

- Introduction
- EOR Experience in the US and the Williston Basin
- Continental Resources EOR program & experience
 - Anadarko Basin pilots & ongoing field development
 - Williston Basin Initial pilots
 - Powder River Basin pilot: WGII Phase I prospect
 - Benchmark of Continental's EOR pilots
- Continental EOR High Level Screening Criteria
- Proposed Large-Scale EOR Pilot Projects
 - Durant
 - Clover / Roadrunner
- Final Remarks

INTRODUCTION

Continental Resources: Largest Privately Held Oil & Natural Gas Producer in the U.S. & Leader in America's Energy Renaissance



Founded in 1967 by Harold Hamm

Headquartered in Oklahoma City, Oklahoma
Over 1,400 Employees (Oklahoma City + Field Offices)

Top 10 Independent U.S. Producer of
Onshore Light Sweet, Oil & Natural Gas

Key Assets Include Williston, Anadarko,
Permian & Powder River Basins

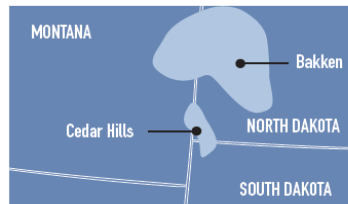
Low Cost & Capital Efficient Industry Leader

Corporate Sustainability: Responsibly Sustaining
America's Energy Future

WHERE WE OPERATE

Williston Basin

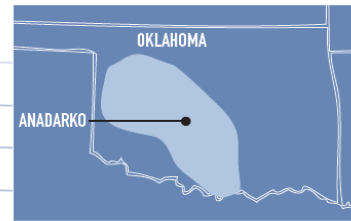
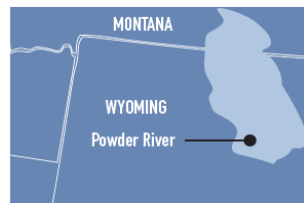
Leading Leaseholder & Producer



“Continental will take EOR to a very large scale in the Williston Basin”

Powder River Basin

2020 Expansion

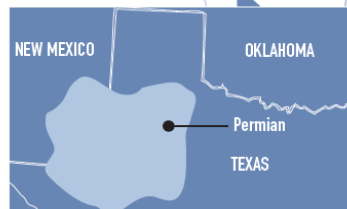


Anadarko Basin

Significant Positions in the SCOOP & STACK Plays

Permian Basin

2021 Expansion into the Delaware and Midland Basins



“Continental scaled EOR field development operations in the Anadarko Basin”

UNCONVENTIONAL PLAYS DECLINE TRENDS

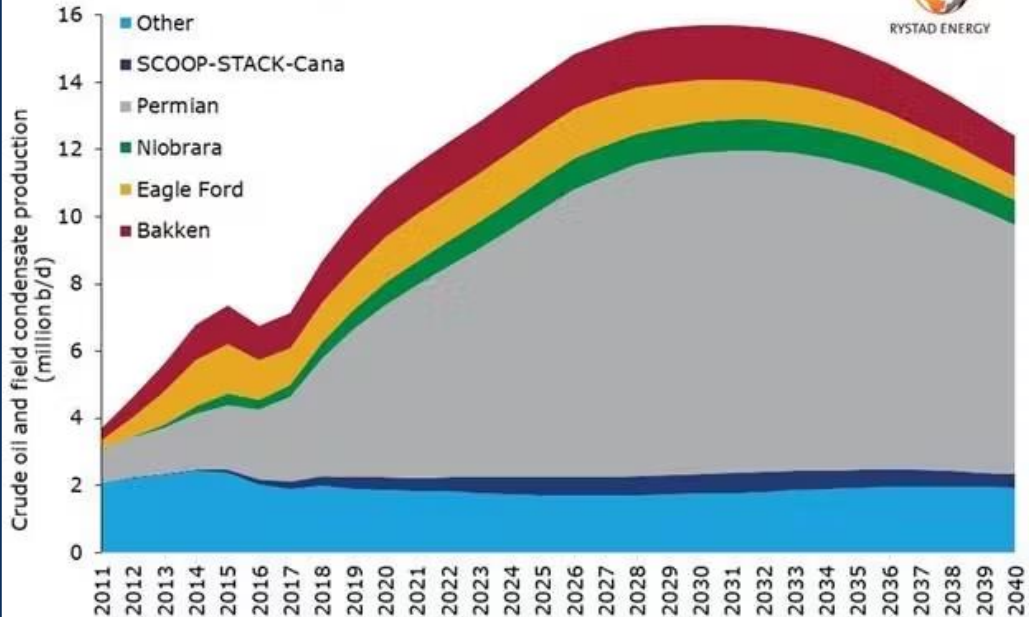
EOR goals:

- Increase recovery
- Accelerate production
- Extended asset life
- Increased stream values

When do we start the EOR
piloting process?

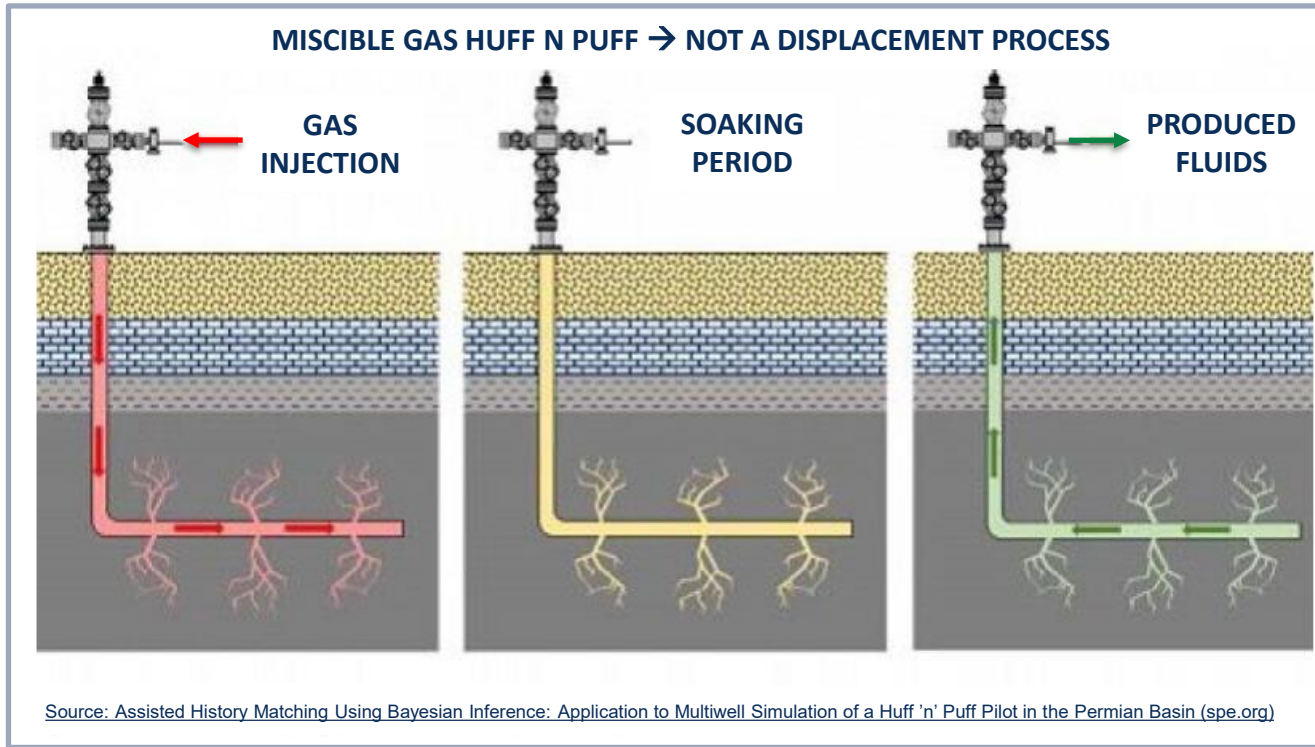
Process could take 2 – 7 years

US Lower 48 oil production forecast
Million barrels per day(bpd)



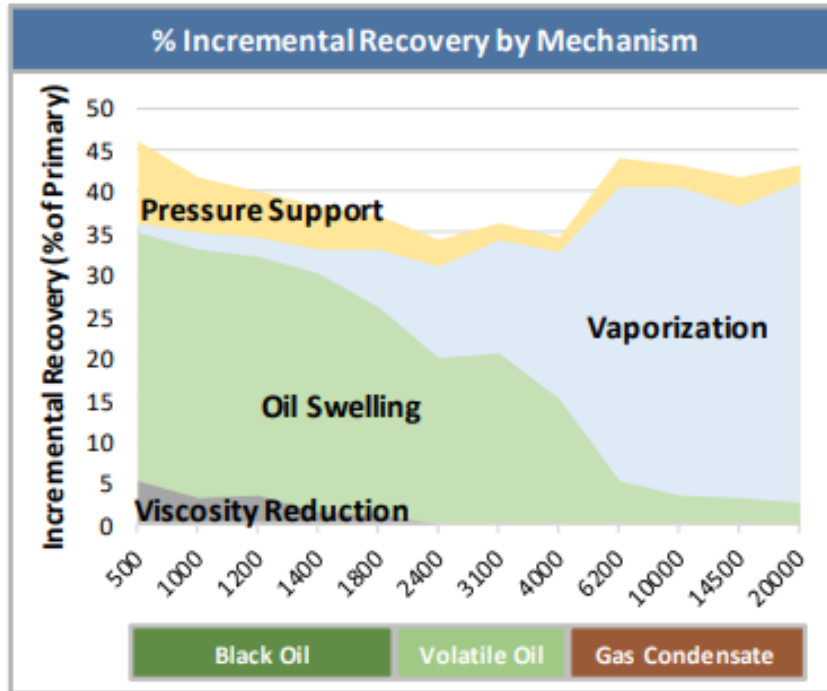
Source: Rystad Energy ShaleWellCube, September 2019

HUFF N' PUFF EOR PROCESS



EOR RECOVERY MECHANISMS

MISCIBLE GAS HUFF N PUFF MECHANISMS



RANKING MISCIBLE GAS HUFF N PUFF MECHANISMS IN BLACK OIL SYSTEMS:

1. Oil swelling
2. Pressure support
3. Viscosity reduction
4. Vaporization
5. Other – Permeability enhancement due to increasing net effective stress

Source: URTEC 147 "Quantitative Evaluation of Recovery Mechanisms for Huff n Puff Injection – T. Hoffman

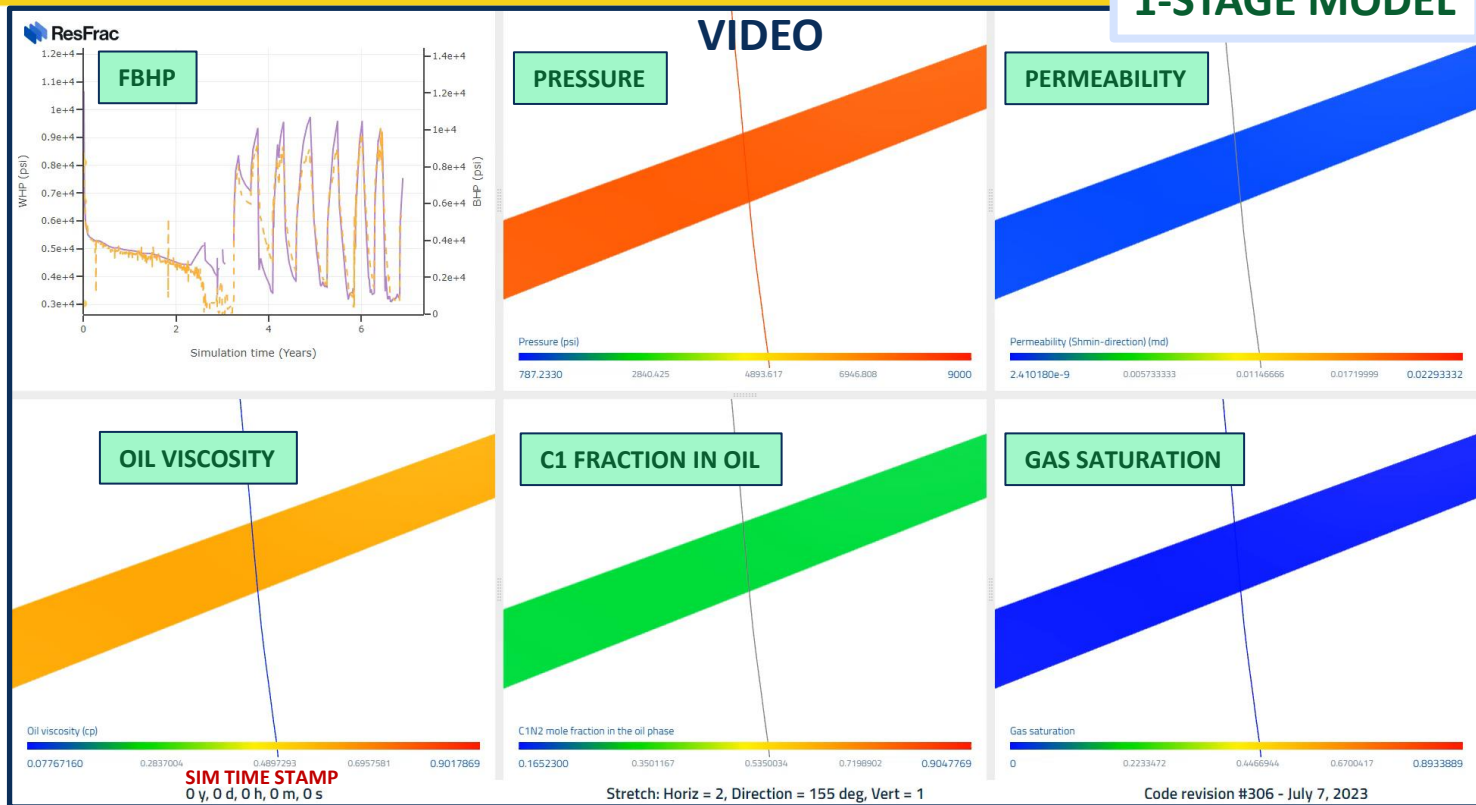
ANADARKO BASIN – STRASSLE 1-28-33HX PILOT

1-STAGE MODEL

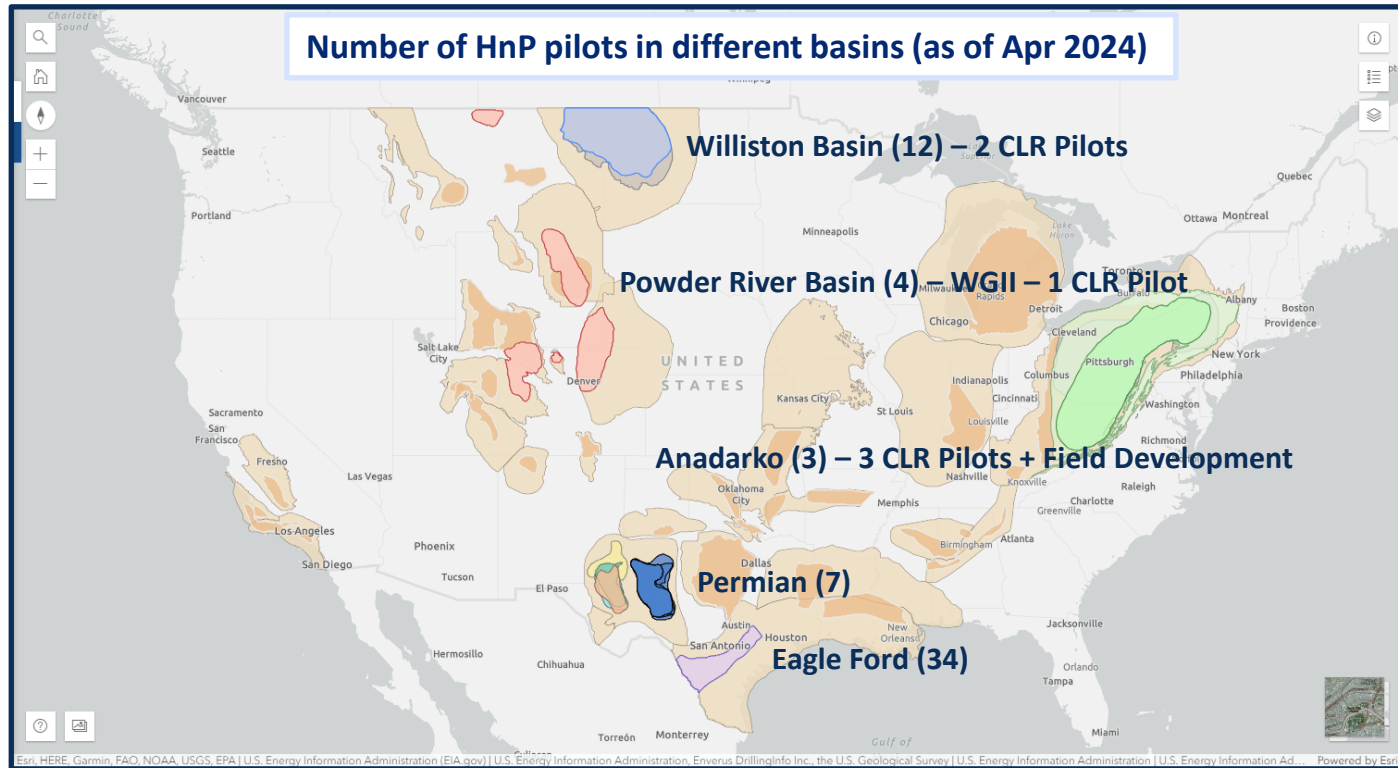
Continental's
Strassle EOR
pilot

Continental's
team modeling
evaluation

EOR
Mechanisms



EOR IN UNCONVENTIONAL PLAYS



WILLISTON BASIN EOR PROJECTS

HISTORICAL SUMMARY OF EOR PROJECTS IN THE WILLISTON BASIN

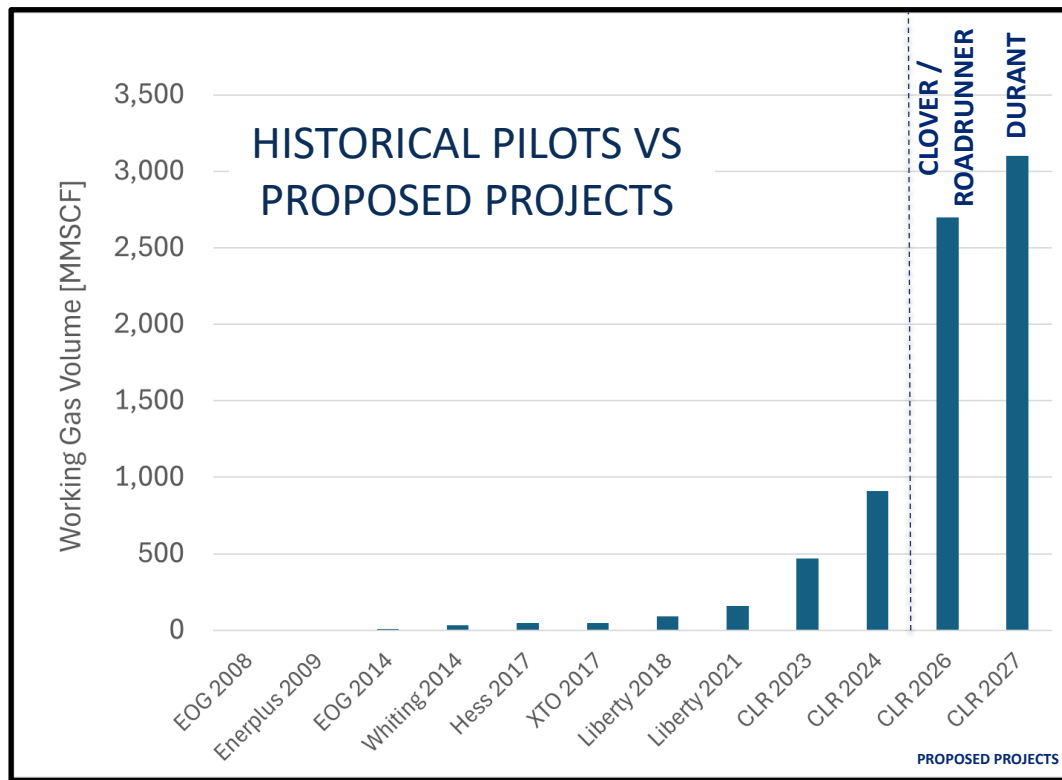
Pilot	Operator	Year	EOR Scenarios
1	EOG	2008	30.7 MMscf CO2 injection
2	Enerplus	2009	45 MMscf CO2 injection
3	EOG	2014	88.7 MMscf field gas injection
4	Whiting	2014	3.4 MMscf CO2 injection - vertical well
5	Hess	2017	9.5 MMscf Propane injection - vertical well
6	XTO	2017	1.7 MMscf CO2 injection - vertical well
7	Liberty	2018	160 MMscf rich gas injection
8	Liberty	2021	46 MMscf rich gas + 40 Mbbl water inj + 2400 gal surfactant
9	CLR	2023	912 MMscf rich gas – 3 cycles - Middle Bakken Pilot – In progress
10	CLR	2024	470 MMscf rich gas – 2 cycles - Three Forks Pilot – In progress
11	Hess	2024	Gas- Foam pilot – In progress
12	XTO	2024	Permit filed

References: SPE 180270 “Improved Oil Recovery IOR Pilot Projects in the Bakken Formation” (2016)

URTEC 3722974 “East Nesson Bakken EOR Pilot: Coinjection of Produced Gas and a Water-Surfactant Mixture” (2022)

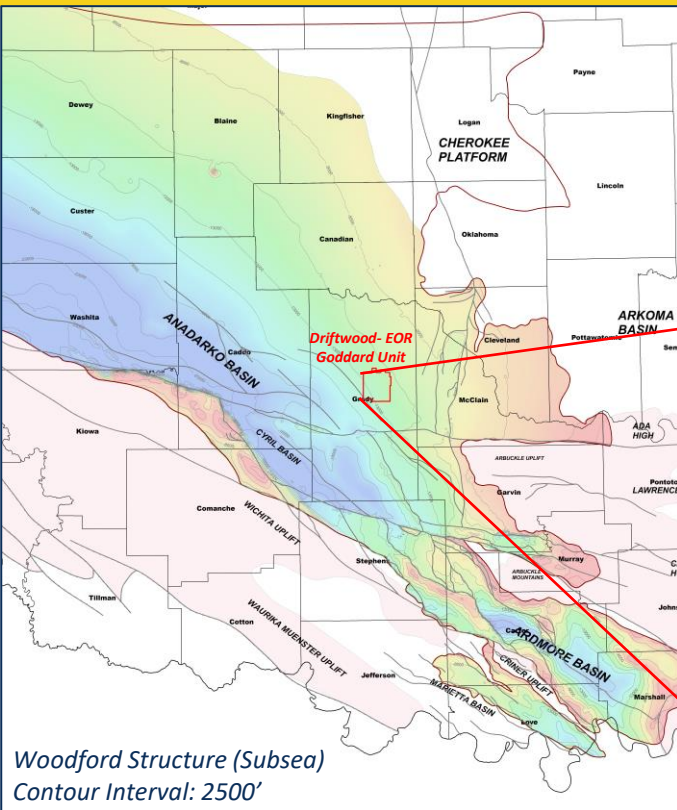
WILLISTON BASIN – PROJECT SCALE

- ✓ The proposed project's working gas volumes will be at least 3 times larger than any pilot in the Williston Basin
- ✓ Our proposed pilots will take Miscible Gas Huff n Puff projects to the next level

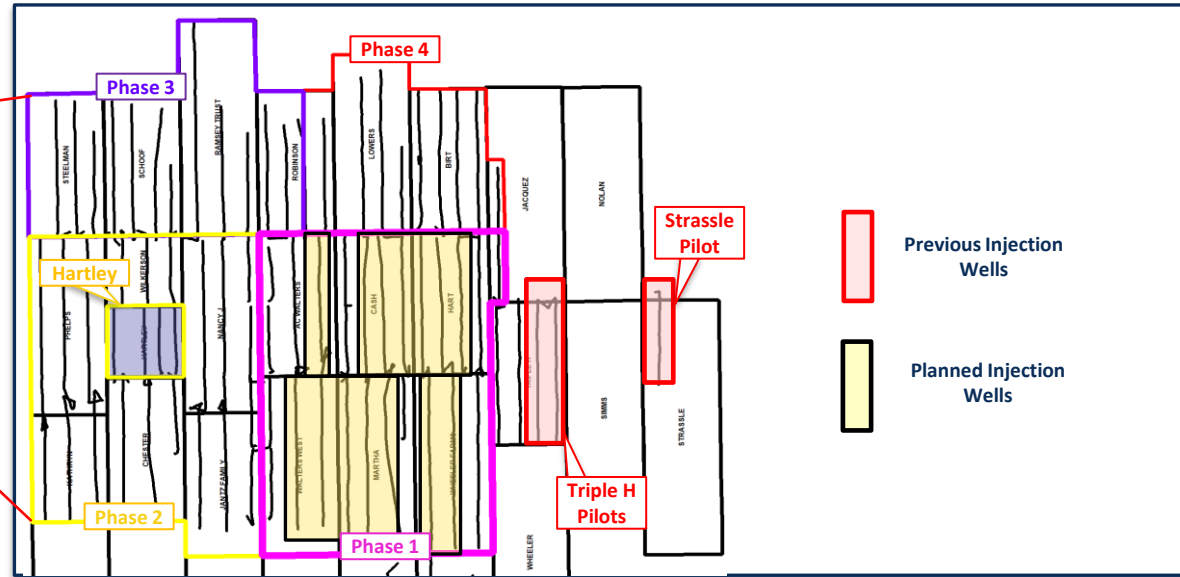


CONTINENTAL'S UNCONVENTIONAL EOR EXPERIENCE

ANADARKO BASIN - DRIFTWOOD SPRINGER



- Continental has been active in the Anadarko Basin for over 50 years
- Typical horizontal targets are Woodford, Sycamore, and Goddard
- Leasehold includes ~1.5 million gross acres
- Roughly 1200 wells drilled (~1100 of which are horizontal)



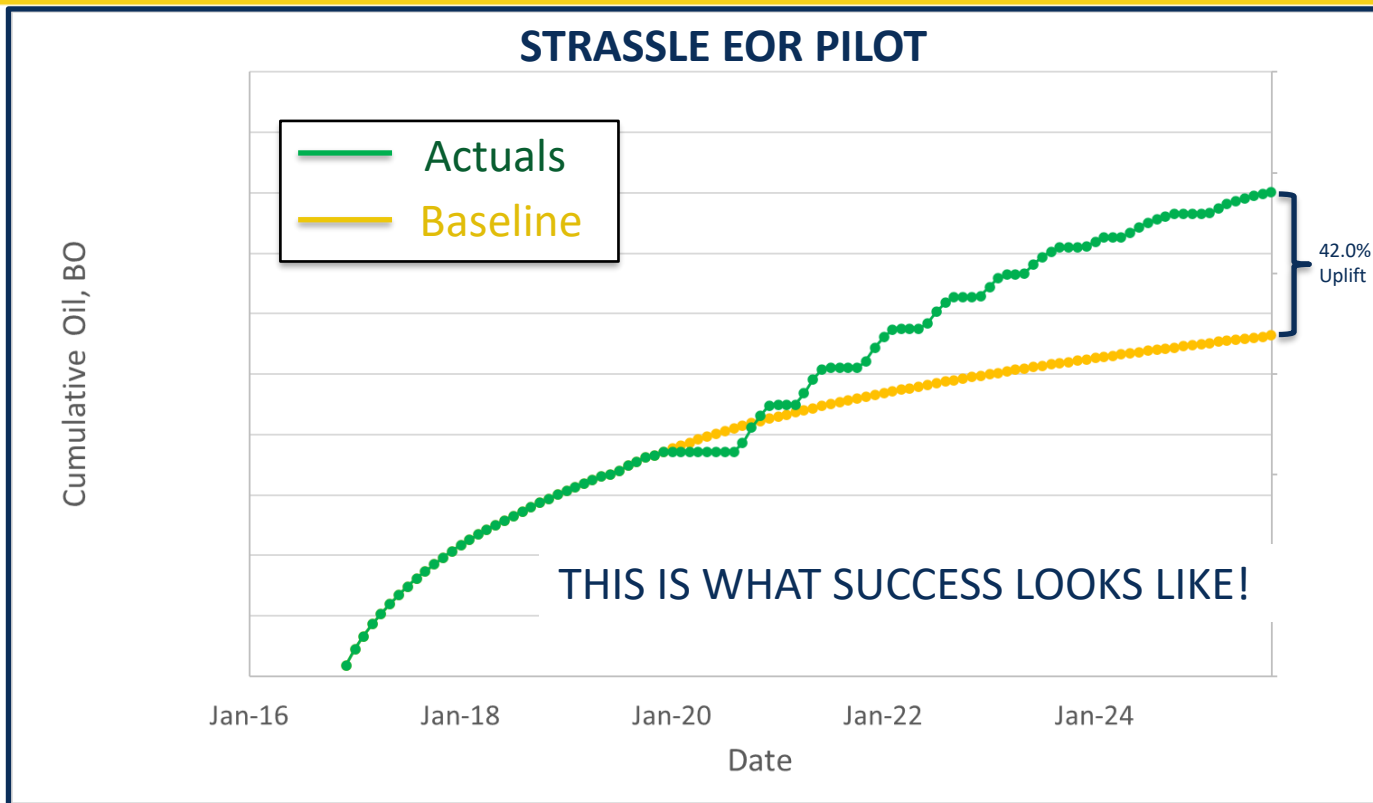
EOR TYPICAL WELLSITE

- ✓ Historically large-scale pilots take between 2 and 7 years .
- ✓ Project infrastructure execution typically takes between 1 and 2 years prior to first gas injection.
- ✓ Procurement alone of large-scale compression units could take up to 75 months.
- ✓ Continental's timeline for both proposed projects is 42 months.
- ✓ First gas injection for our proposed projects expected ~ 9 months after the start of facility construction.

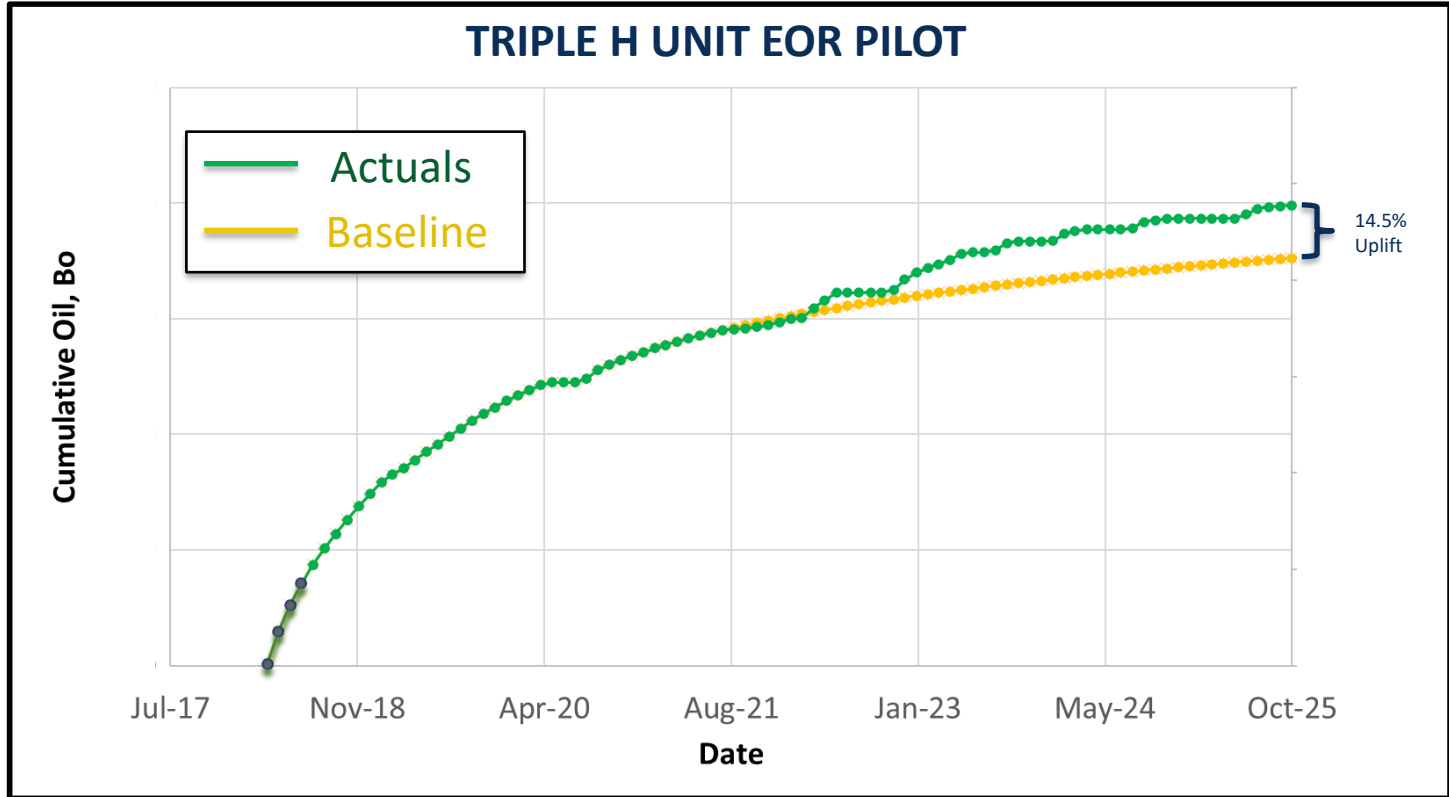


One of Continental's compressors deployed in the Anadarko Basin
Simply to put things into perspective

ANADARKO BASIN PILOTS – STRASSLE PILOT



ANADARKO BASIN PILOTS – TRIPLE H UNIT



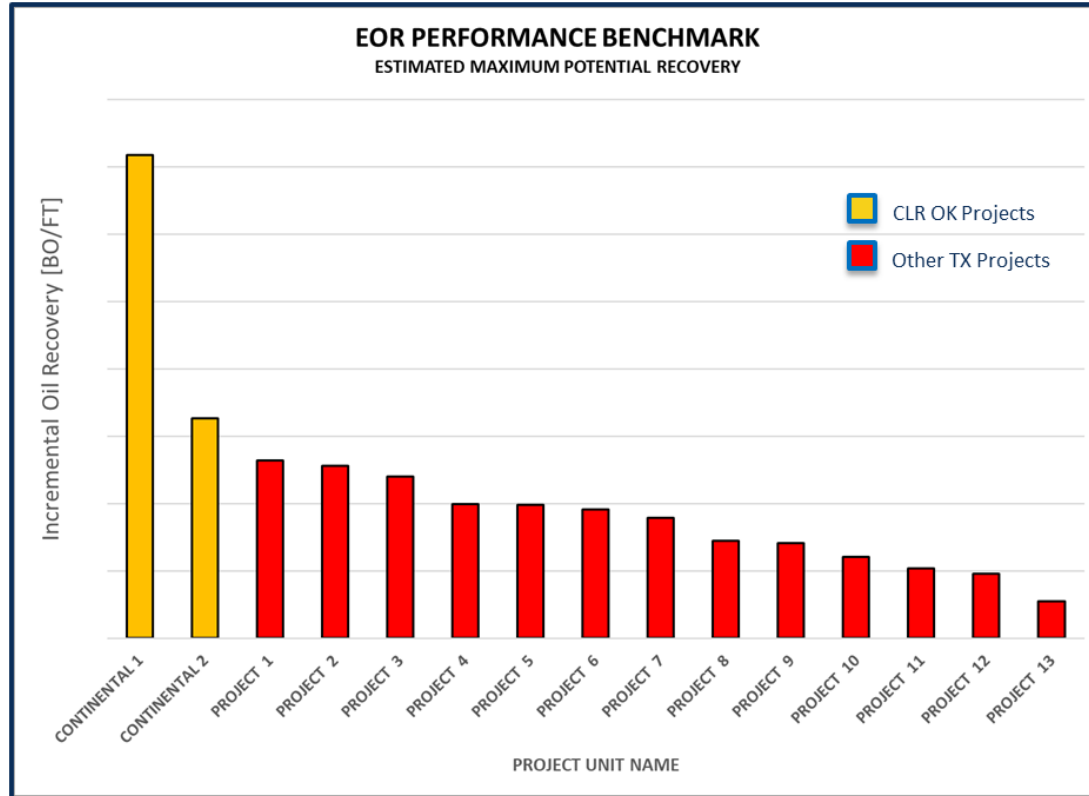
ANADARKO BASIN – GODDARD UNIT FIELD DEV.

GODDARD UNIT EOR STARTUP CEREMONY

67 WELLS – 4 LARGE-SCALE COMPRESSION UNITS – PHASE 1

NORTH DAKOTA COULD BE NEXT FOR FIELD DEVELOPMENT EXPANSION

BENCHMARK: CLR VS OTHERS EXPERIENCE



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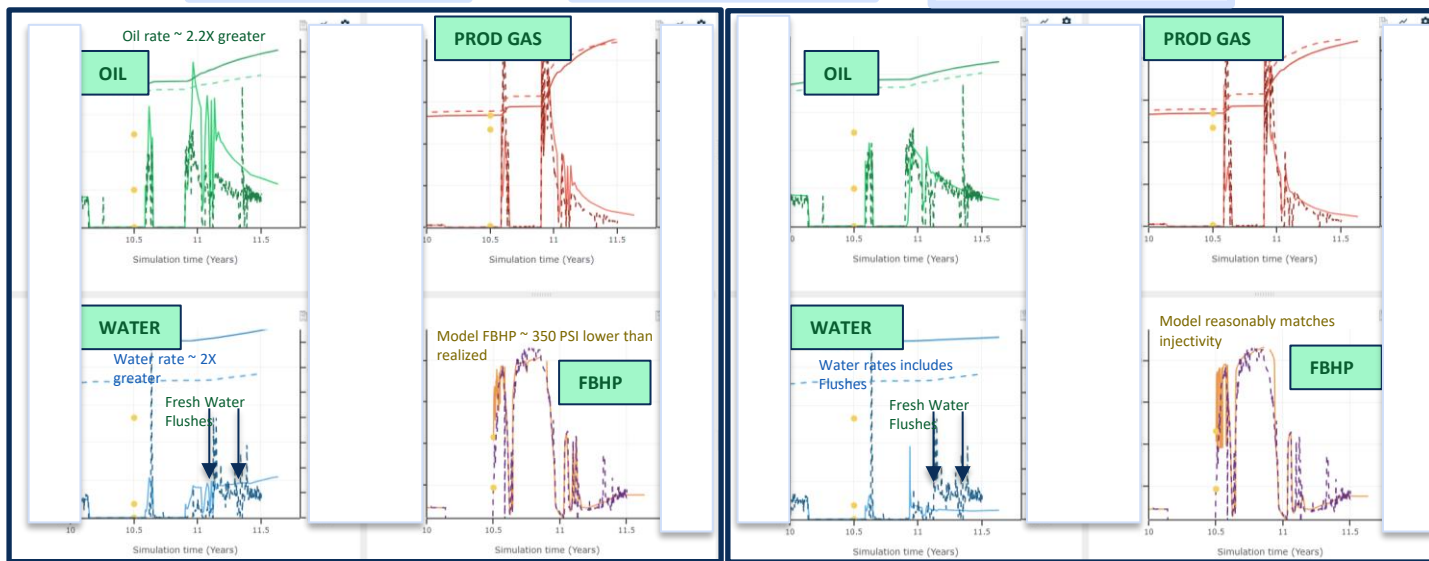


WILLISTON BASIN EOR PILOTS – BUDDY PILOT

NO “DAMAGE”

3-STAGE MODEL

WITH “DAMAGE”

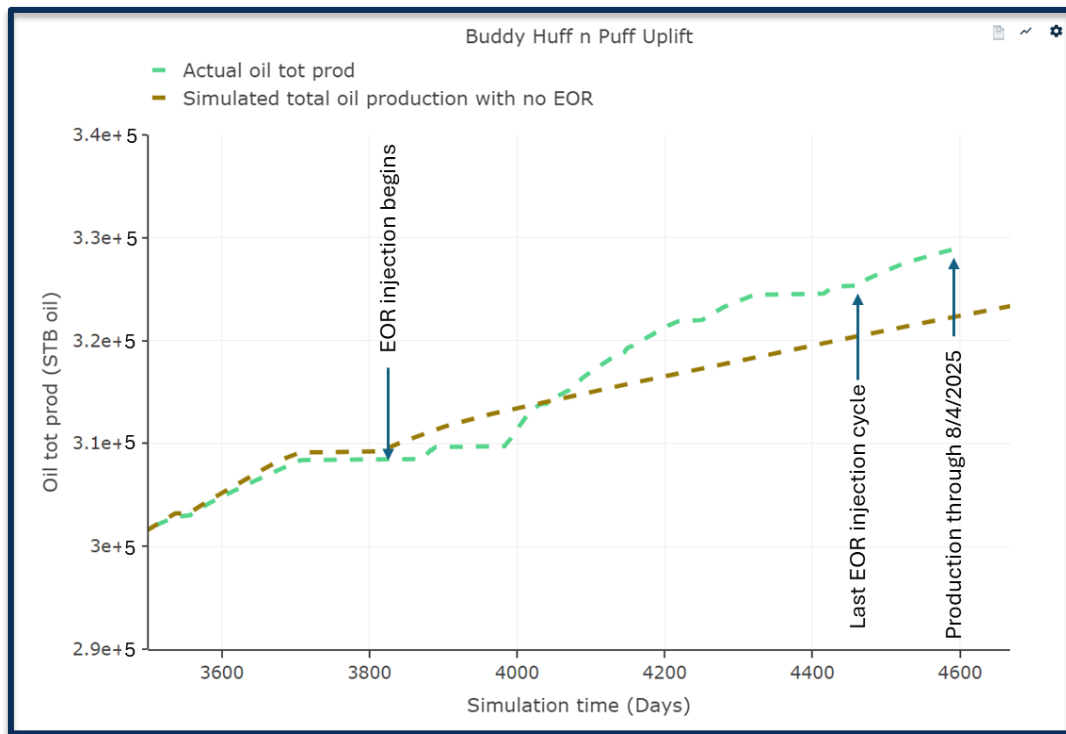


DAMAGE: Fracture conductivity decline due to solid deposition

Fully Integrated Compositional Fracture / Reservoir Modeling

Model Matching Buddy's Huff-n-Puff performance required introducing some “damage”

WILLISTON BASIN EOR PILOTS – BUDDY PILOT



Technical Success: The Buddy Pilot showed an undisputable uplift (~6,400 BO Incremental)

- ❖ Uplift obtained was less than anticipated due to:
 - ❖ Small legacy completion designs with significant proppant degradation
 - ❖ Apparent flow assurance issues. Salt precipitation, and apparent blockage of some clusters

BUDDY EOR PILOT – LEARNINGS

Learnings:

- Gas containment was achieved within the individual wells.
- Injectivity can be an issue for legacy completion designs.
- In legacy completions, complex geomechanical effects may lead to fractures closing during the HnP cycles leading to poor productivity.
- Fluid miscibility was clearly observed upon flowback.
- Uplift was observed. However, significantly less than expected due to flow assurance issues.
- Salt precipitation and deposition has been an issue during flowback.
- Other flow assurance issues may occur after extended flowback.



WILLISTON BASIN EOR “SIZE OF THE PRIZE”

WILLISTON BASIN POSSIBLE INCREMENTAL RECOVERIES – THEORETICAL EXAMPLE

	OIP (BO)	Recovery Factor	New Recovery
OOIP – Williston Basin (Estimate)	95,950,000,000		
Projected Primary	11,514,000,000	12.0%	
Remaining	84,436,000,000		

	OIP (BO)	Incr. Recovery	New Recovery
Increase from 30% incremental	3,454,200,000	3.6%	15.6%
Assume 50% prospective	1,727,100,000	1.8%	13.8%
Increase from 50% incremental	5,757,000,000	6.0%	18.0%
Assume 50% prospective	2,878,500,000	3.0%	15.0%

• The EERC estimates that injecting CO2 could add 5 billion to 8 billion barrels of oil from the Bakken Formation over the next 30 to 50 years

• [Study pegs potential \\$9 billion tax impact for CO2 in North Dakota oil wells](#) • [North Dakota Monitor](#)

✓ **Williston Basin cumulative oil to date ~ 6 billion Bo**

✓ **EOR may add ~ 3 billion incremental Bo**

CO2 VS HYDROCARBON GAS INJECTION

WHAT'S THE BEST INJECTANT TO USE?

CO2 Advantages

	CO2	Hydrocarbon gas
MMP _[MC]	✓ ~ 2,500 – 3,500 psia	❖ ~3,000 – 5,500 psia
Gas Utilization Factors	✓ Lower GUF (More efficient)	❖ Higher GUF (Less efficient)
Sequestration	✓ Added sequestration benefit	❖ Marginal sequestration (if any)
Tax credits	✓ Federal sequestration incentives (up to \$65/Ton) ✓ Some states may provide tax incentives	✓ Some states may offer EOR incentives

Learnings from hydrocarbon gas injection can be translated to CO2 injection

CO2 VS HYDROCARBON GAS INJECTION

CO2 vs HYDROCARBON GAS HUFF N' PUFF

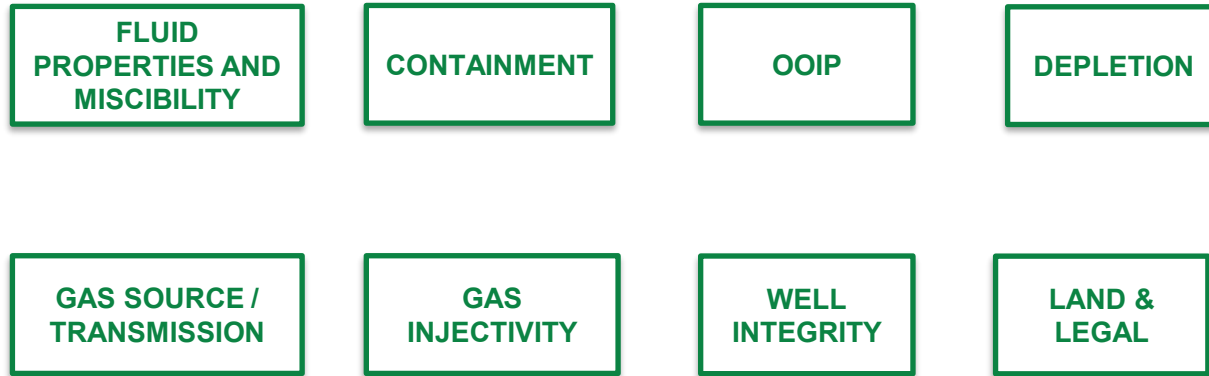
CO2 Disadvantages

	CO2	Hydrocarbon gas
Source	❖ Limited availability	✓ More readily available
Transportation	❖ Significant investments often required	✓ Typically requires less investments for transportation
Well integrity	❖ May require costly metallurgies and well designs	✓ Less likely to produce issues as most wellbores are design for the service
Surface Facilities	❖ Req. significant investments for effluent treatment	✓ Effluent is ready to be treated in existing processing units
Equipment	❖ Req. specialized equipment for treatment and compression	✓ More readily available and less expensive
Flow assurance	❖ May cause asphaltene precipitation and/or other flow assurance issues	✓ Less prone to cause flow assurance issues

Learnings from hydrocarbon gas injection can be translated to CO2 injection

CONTINENTAL'S EOR SCREENING PROCESS

CONTINENTAL'S HIGH LEVEL EOR SCREENING



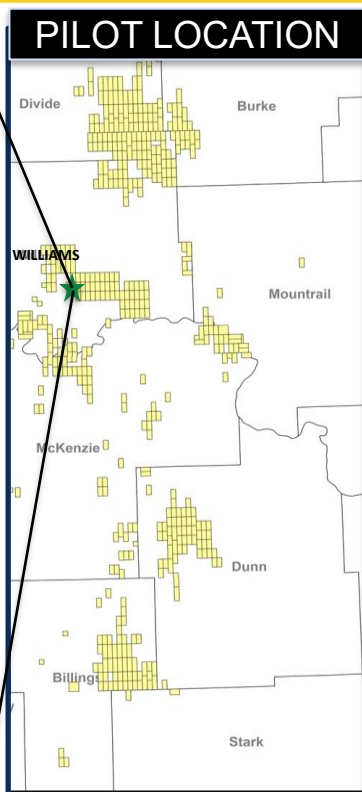
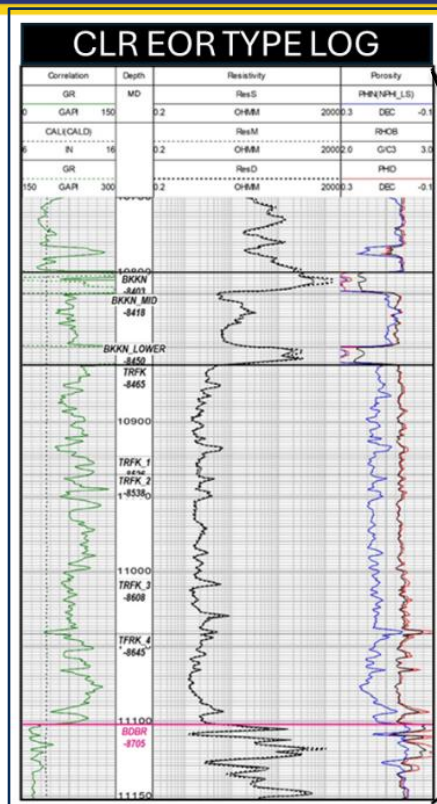
**INTEGRATED COMPOSITIONAL FRACTURE/RESERVOIR MODELING
PLAYS AN INTEGRAL PART IN OUR TECHNICAL SCREENING PROCESS**

PROPOSED EOR PILOT 1 DURANT

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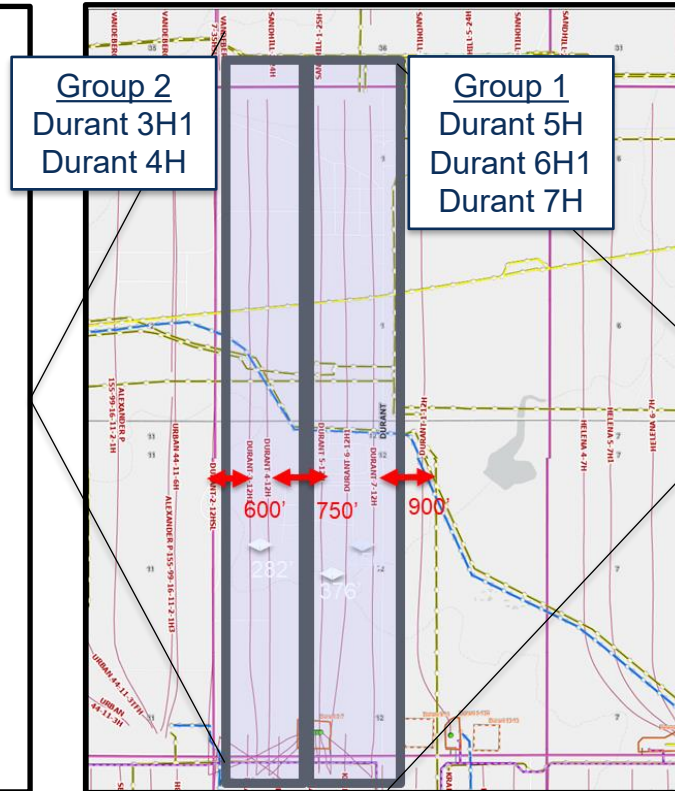
WILLISTON BASIN EOR PILOTS - DURANT



Reservoir	Middle Bakken	Three Forks
Geology and Petrophysical Properties		
Lithology	Limestone: silty and partially dolomitic	Dolostone: tan interbedded with greenish-blue shale lenses: silty and argillaceous
Depositional environment	Deposited in the late Devonian to early Mississippian in an offshore marine environment	Deposited in the late Devonian in an arid-evaporitic to shallow marine environment
Clay content [%]	0.5-25	0.5- 35
Total organic content [wt%]	0.1 – 0.7	0.03-0.3
Avg Porosity [%]	4.7	6.5
Avg Water saturation [%]	37	41
Permeability Range [nD]	700 - 2,700	300 - 1,950
Fluid Properties		
GOR [SCF/STB]	1,476	1,476
API gravity	43.6	43.6
Viscosity [cp]	0.27	0.27
In Place Volumes		
OOIP [MMSTOB / 640 ACRE]	6 - 10	9 - 14

WILLISTON BASIN EOR PILOTS - DURANT

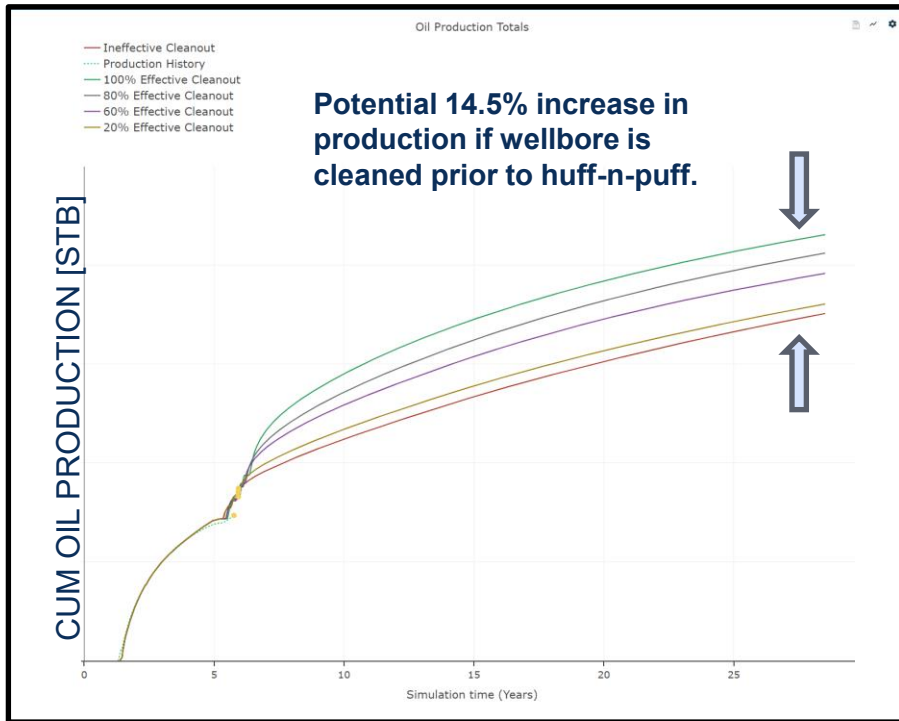
- Injection *Group 2* Wells
 - Durant 3H1
 - Durant 4H
- 282' well spacing
- 600'-750' well spacing offset from group 1 and offsets
- Potential Injection well:
 - Durant 4H.
- Modelling suggests that well connectivity will be sufficient to pressure up Durant 3H.
- Injection candidate will require cleanout operations



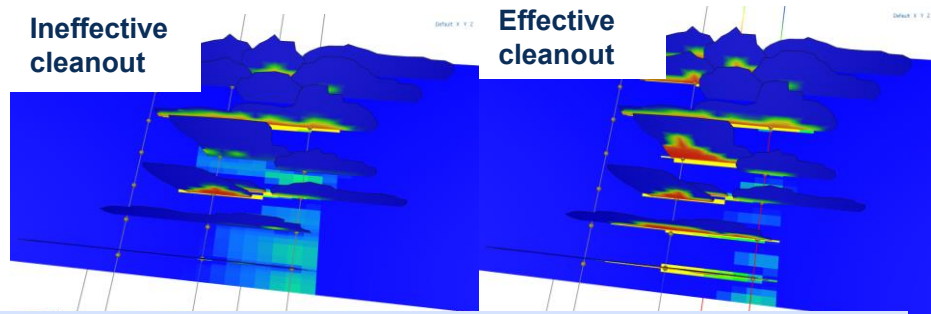
- Injection *Group 1* Wells
 - Durant 5H,
 - Durant 6H1
 - Durant 7H
- 376' – 450' well spacing
- 750'-900' well spacing offset from group
- Potential Injection wells:
 - Durant 5H
 - Durant 6H1
- Modelling indicates that well connectivity is sufficient for all wells in group 1 to build pressure
- Injection candidates will require cleanout operations

WILLISTON BASIN EOR PILOTS - DURANT

DURANT WELL AND FRACTURE CLEANOUTS



Ineffective cleanout

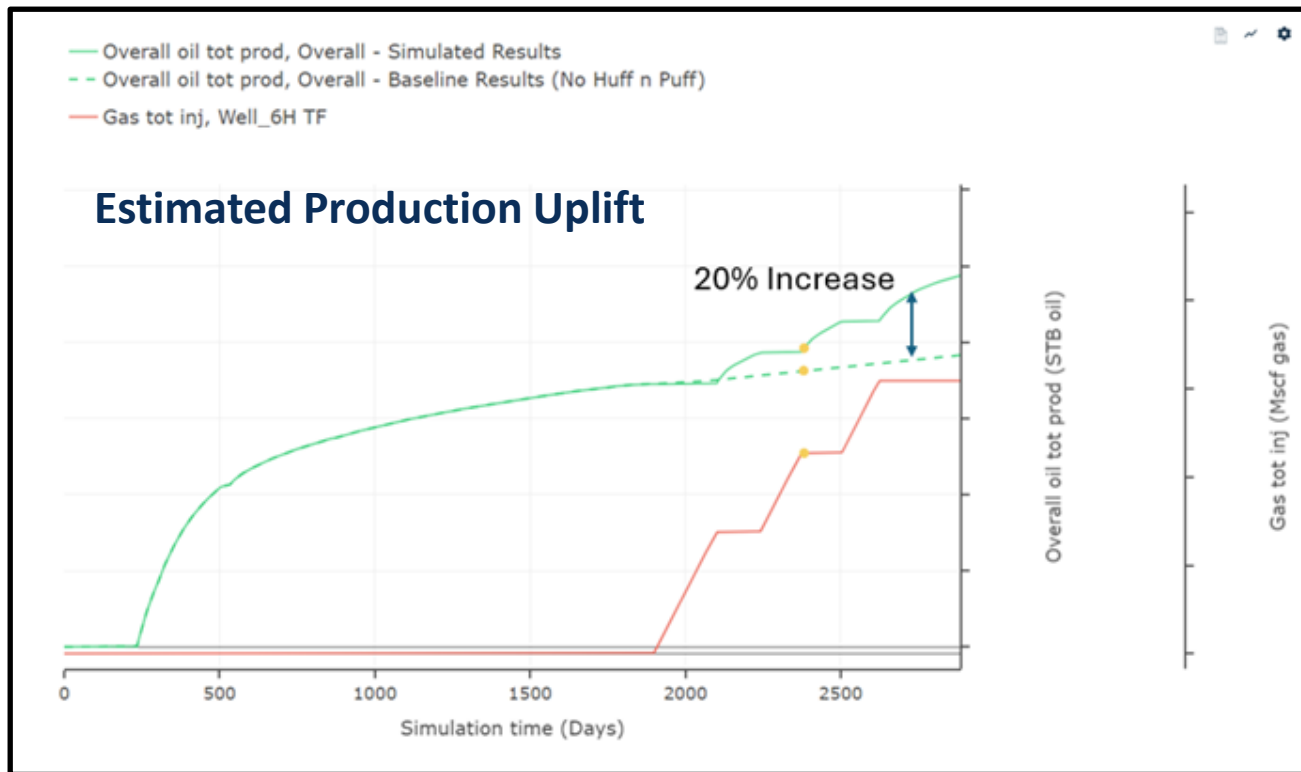


Effective cleanout

Gas saturation comparison at the end of injection cycle three

- Field and modelling data suggests clusters may be plugged due to solid deposition.
- Wellbore and hydraulic fracture cleanouts are planned prior to gas injection.
- Stage by stage cleanout operations will be performed using a specialized dual packer system and is anticipated to start ASAP.
- The cleanouts are expected to allow accessing more of the hydraulic fracture network enhancing oil production.

WILLISTON BASIN EOR PILOTS - DURANT



WILLISTON BASIN EOR PILOTS - DURANT

Project Budget: \$29.9 MM
Add cleanouts*: \$3.3 MM
Total Project Cost: \$33.2 MM

NDIC Share: \$9.8 MM (29.5%)
CLR Share: \$23.4 MM (70.5%)

✓ Project ready for execution

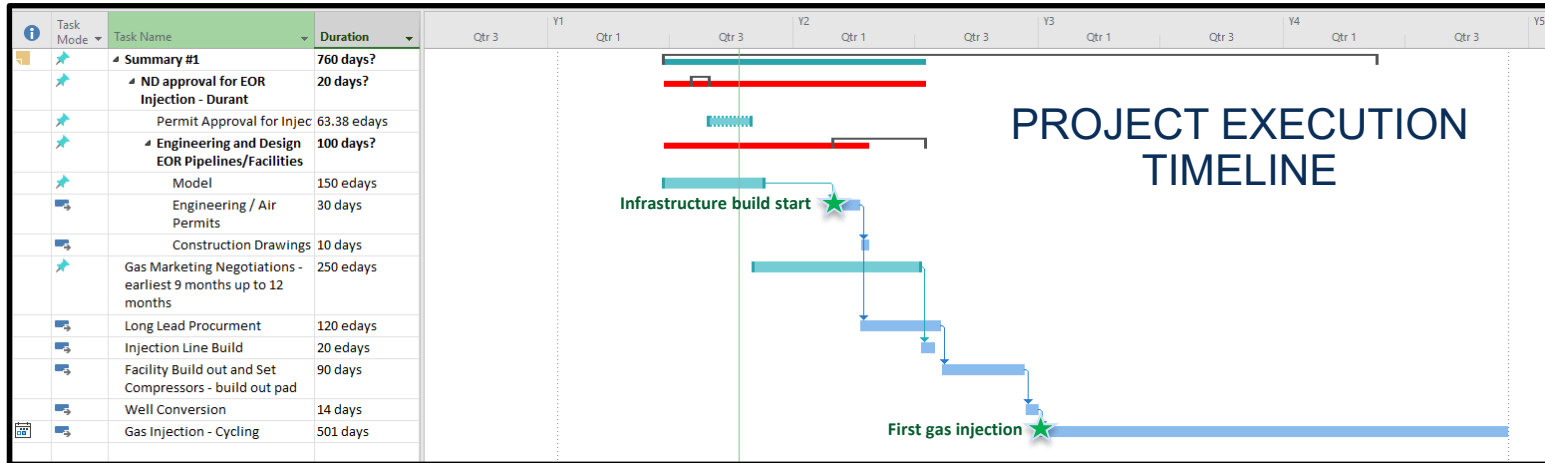
✓ First gas injection: 2Q 2026

❖ Cost covered by Continental prior to formal execution start

DETAILED COST ESTIMATE

Project Associated Expense	NDIC Share	Applicant Share (Cash)	Applicant Share (In Kind)	Other Sponsor's Share	Total Project Cost
CAPEX: Engineering	\$175,687.50	\$175,687.50	\$0.00	\$0.00	\$351,375.00
CAPEX: Construction - Fabricated Items	\$733,000.00	\$733,000.00	\$0.00	\$0.00	\$1,466,000.00
CAPEX: Equipment	\$458,500.00	\$458,500.00	\$0.00	\$0.00	\$917,000.00
CAPEX: Construction - Building	\$808,437.50	\$808,437.50	\$0.00	\$0.00	\$1,616,875.00
CAPEX: Construction - Injection Facility	\$1,185,000.00	\$1,185,000.00	\$0.00	\$0.00	\$2,370,000.00
CAPEX: Construction - Production Facility	\$570,280.00	\$570,280.00	\$0.00	\$0.00	\$1,140,560.00
CAPEX: Construction - Well modifications	\$760,000.00	\$760,000.00	\$0.00	\$0.00	\$1,520,000.00
CAPEX: Construction - Pipeline	\$1,050,000.00	\$1,050,000.00	\$0.00	\$0.00	\$2,100,000.00
OPEX: Tracer analysis	\$256,000.00	\$256,000.00	\$0.00	\$0.00	\$512,000.00
OPEX: Gas purchase	\$0.00	\$0.00	\$9,300,000.00	\$0.00	\$9,300,000.00
OPEX: Line heaters - Lease	\$360,000.00	\$360,000.00	\$0.00	\$0.00	\$720,000.00
OPEX: Compressors - Fuel gas	\$300,000.00	\$300,000.00	\$0.00	\$0.00	\$600,000.00
OPEX: Booster compressor - Lease	\$300,000.00	\$300,000.00	\$0.00	\$0.00	\$600,000.00
OPEX: Main compressor - Lease	\$2,880,000.00	\$2,880,000.00	\$0.00	\$0.00	\$5,760,000.00
OPEX: Chemical Injection Equipment - Lease	\$0.00	\$250,000.00	\$0.00	\$0.00	\$250,000.00
OPEX: Foaming Agent purchase (Up to 2 cycles)*	\$0.00	\$695,000.00	\$0.00	\$0.00	\$695,000.00
Total Costs	\$9,836,905.00	\$10,781,905.00	\$9,300,000.00	\$0.00	\$29,918,810.00

DURANT EOR PILOT TIMELINE



Duration: ~ 42 months

Month 1-9: Engineering, site preparation, and infrastructure build

Month 10-24: Initial gas injection evaluation of injectivity, containment, and uplift

Month 25-36: Continued gas conformance evaluation

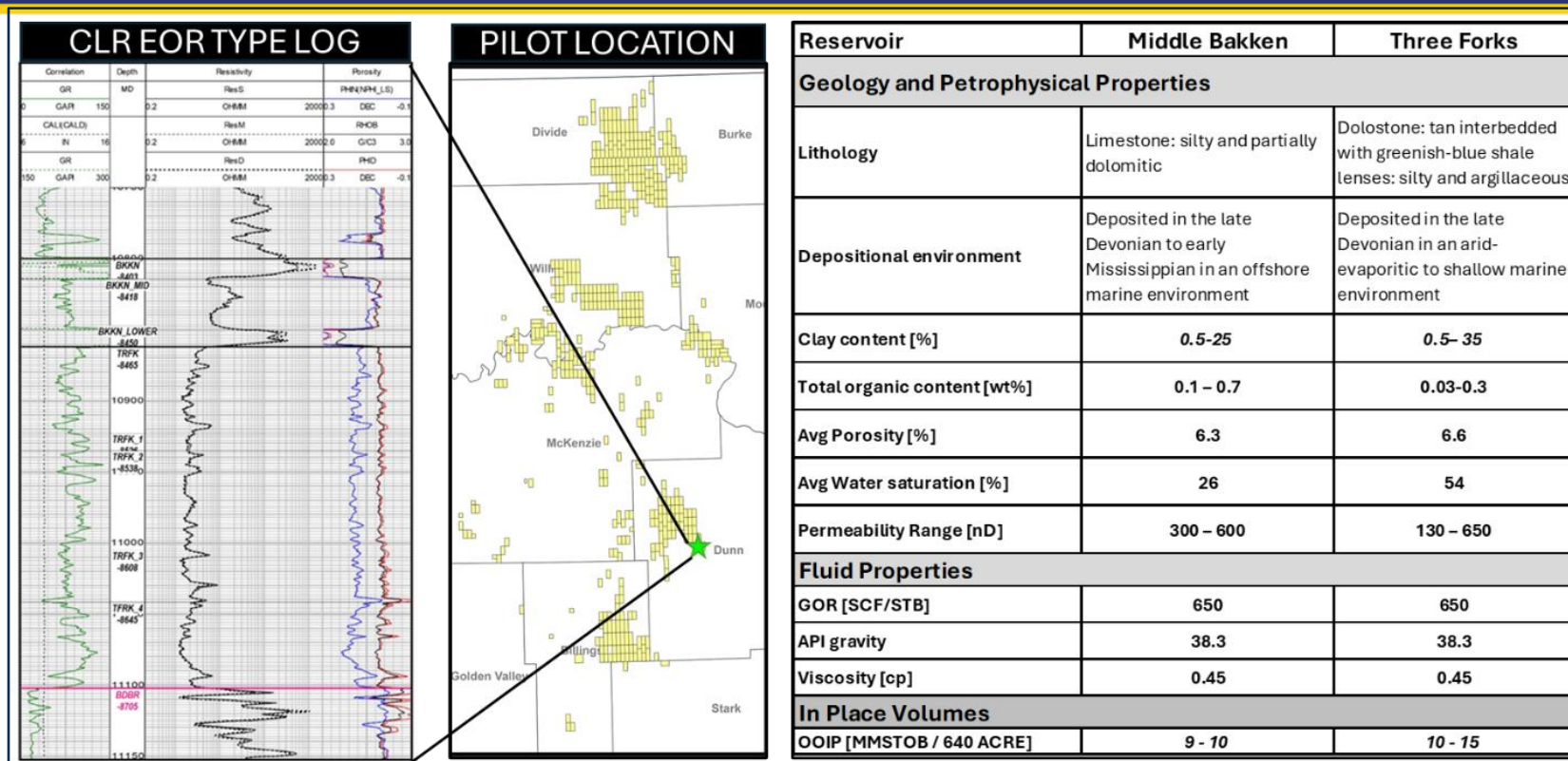
Month 37-42: Laboratory data analysis, field performance evaluation, and reporting

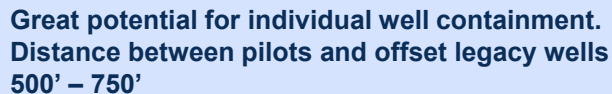
PROPOSED EOR PILOT 2 CLOVER / ROADRUNNER

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CLOVER / ROADRUNNER EOR PILOT





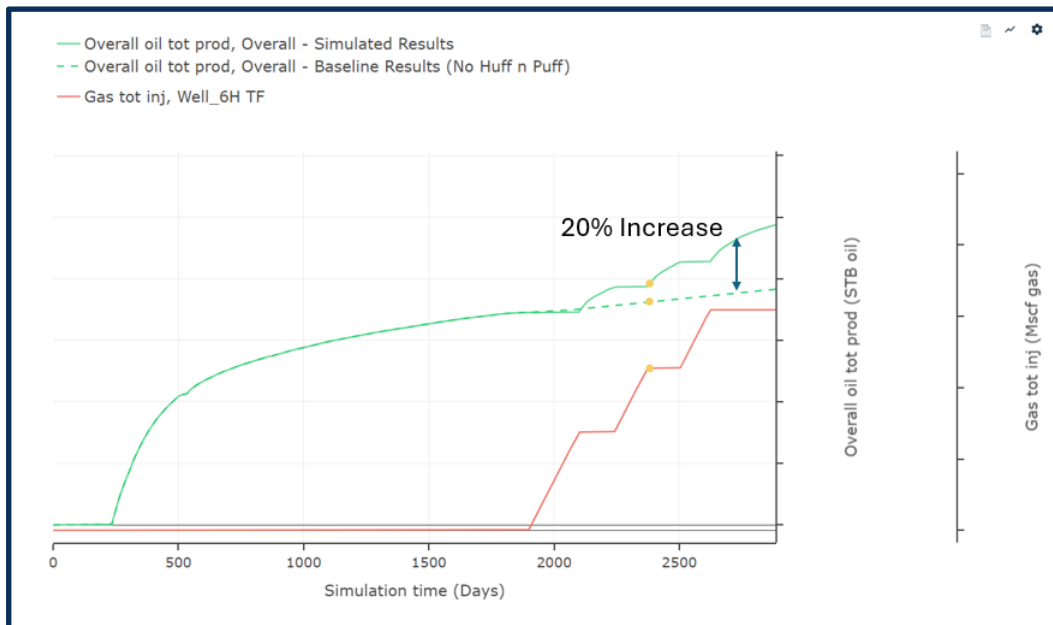
OP Drilled Wellbores

Roadrunner 7-15H

CLOVER / ROADRUNNER EOR PILOT

DURANT PROJECT ANTICIPATED UPLIFT

- ✓ DURANT is a conservative analogue for the Clover / Roadrunner project
- ✓ Additional detailed engineering evaluation is currently ongoing



DURANT AND CLOVER-ROADRUNNER PILOTS

DURANT VS CLOVER / ROADRUNNER

- ✓ Screening criteria indicates that the Clover / Roadrunner pilot should perform similar or better than the Durant pilot
- ✓ Proposed projects are in different areas of the basin that need to be evaluated

Screening Criteria	Observation	Durant	Clover / Roadrunner
Fluids / Miscibility	GOR / API:	1,450 / 45	650 / 38
OOIP	EUR [Bo/ft]:	21 - 36	38 - 52
Containment	Distance to nearest offset:	250 - 350	500 - 800
Depletion	Vintage:	2021	2024
Gas Source / Transmission	Proximity to pipeline [mi]:	2.1	0.7
Gas Source / Transmission	Gas Injection Availability:	20 - 23	25
Injectivity	Need for remediation (Excite tool):	Yes	No
Technical Evaluation	Modeling Available:	Yes	Ongoing

CLOVER / ROADRUNNER EOR PILOT

DETAILED COST ESTIMATE

Project Cost: \$26.9 MM
 NDIC Share: \$8.8 MM (32.7%)
 CLR Share: \$18.1 MM (67.3%)

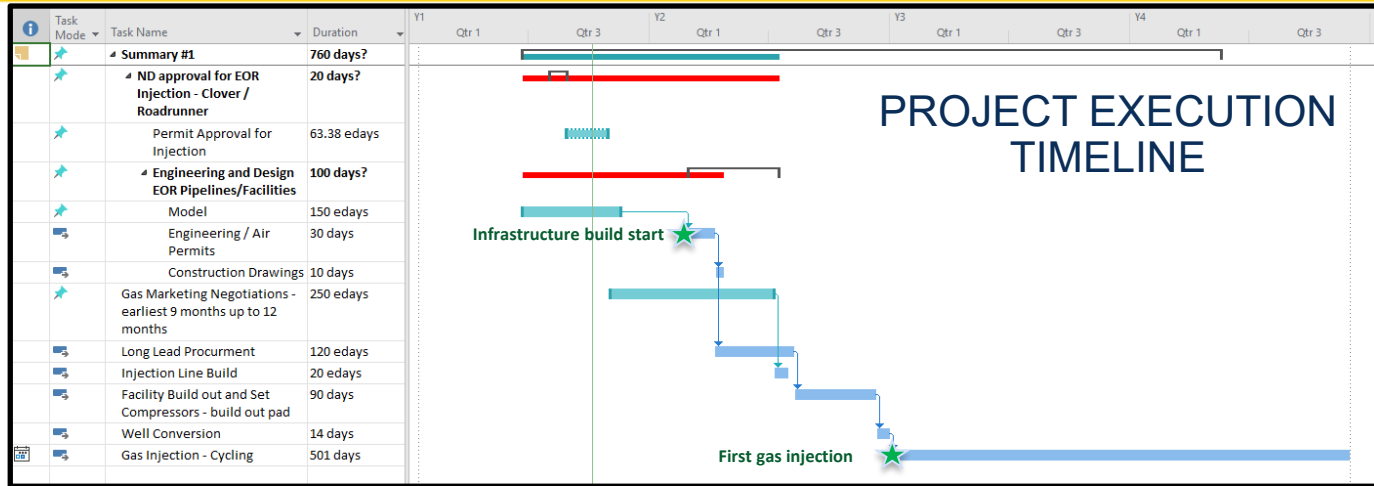
✓ Project ready for execution

✓ First gas injection: 1Q 2027

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CAPEX: Construction - Production Facility	\$570,280.00	\$570,280.00	\$0.00	\$0.00	\$1,140,560.00
CAPEX: Construction - Well Cleanouts	\$700,000.00	\$700,000.00	\$0.00	\$0.00	\$1,400,000.00
CAPEX: Construction - Well modifications	\$760,000.00	\$760,000.00	\$0.00	\$0.00	\$1,520,000.00
CAPEX: Construction - Hot Tap & Pipeline	\$875,000.00	\$875,000.00	\$0.00	\$0.00	\$1,750,000.00
OPEX: Tracer analysis	\$256,000.00	\$256,000.00	\$0.00	\$0.00	\$512,000.00
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OPEX: Booster compressor - Lease	\$300,000.00	\$300,000.00	\$0.00	\$0.00	\$600,000.00
OPEX: Main compressor - Lease	\$1,440,000.00	\$1,440,000.00	\$0.00	\$0.00	\$2,880,000.00
OPEX: Chemical Injection Equipment* - Lease	\$0.00	\$250,000.00	\$0.00	\$0.00	\$250,000.00
OPEX: Foaming Agent purchase (Up to 2 cycles)*	\$0.00	\$695,418.00	\$0.00	\$0.00	\$695,418.00
Total Costs	\$8,771,905.00	\$9,717,323.00	\$8,400,000.00	\$0.00	\$26,889,228.00

* Foam will be tested if deemed feasible and necessary by Continental Resources

CLOVER / ROADRUNNER EOR PILOT



Duration: ~ 42 months

Month 1-9: Engineering, site preparation, and infrastructure build

Month 10-24: Initial gas injection evaluation of injectivity, containment, and uplift

Month 25-36: Continued gas conformance evaluation

Month 37-42: Laboratory data analysis, field performance evaluation, and reporting

CONTINENTAL'S LEADERSHIP

- Continental has established itself as one of the leaders in the Unconventional EOR space.
- Continental actively promotes collaboration and knowledge share with other leading operators in UEOB.

Oxy's letter of support:

"In addition to their technical expertise, Continental has demonstrated a commendable commitment to collaboration. They have actively engaged with other operators like us and others in the region to tackle the complex challenges associated with EOR in unconventional reservoirs."

Jeff Simmons,
Senior Vice President Technical and Operations Support Chief Petrotechnical Officer, OXY

SUMMARY

PROJECT COST STRUCTURE & TIMELINES FOR FIRST GAS INJECTION

PROPOSED PILOT	COUNTY	NDIC SHARE [MM]	CLR SHARE [MM]	TOTAL COST [MM]	1 ST GAS INJECTION	WORKING GAS VOL [MMSCF]
DURANT	WILLIAMS	\$9.8	\$20.1	\$29.9	2Q 2026	3,100
CLOVER / ROADRUNNER	DUNN	\$8.8	\$18.1	\$26.9	1Q 2027	2,700
TOTALS		\$18.6 (32.7%)	\$38.2 (67.2%)	\$56.2		

- Two large-scale pilots in two different areas of the basin
- Investments exceed \$56MM. NDIC contributions of \$18.6 MM (32.7%)
- First Gas Injection is expected ~ 9 months after starting construction
- Projects will report results from initial cycles 24 months after starting construction

FINAL REMARKS

- Continental proposes two large-scale world-class Unconventional EOR (UEOR) pilots in two different areas of the Williston Basin. These projects have the potential for changing the field development and production landscape.
- The proposed pilots alone will bring investments to North Dakota valued at ~ \$60MM.
- EOR investments have the potential to substantially increase revenue from existing well production. Our conservative size of the prize estimate for EOR in the Williston basin is ~ 3 billion barrels.
- Continental is building upon experience acquired in the Anadarko, Williston, and Powder River basin pilots. Continental is one of the most successful operators in the Unconventional EOR space. Few operators have Continental's Unconventional EOR experience and expertise.

FINAL REMARKS

- Continental explores and promotes the use of new technology and will consider the use of foam (if necessary).
- Continental proactively promotes collaboration with leading operators in the UEOR space.

BACKUP