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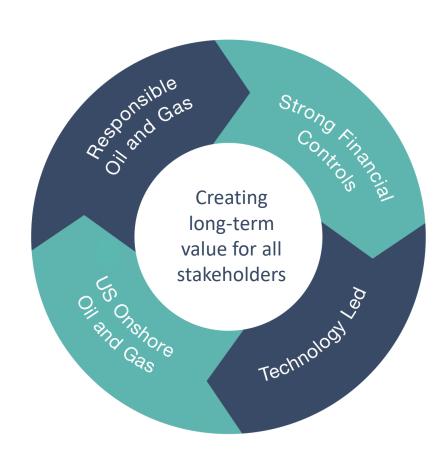
Dr Gregor Maxwell, BSc Hons. Geology and Petroleum Geology, PhD, Technical Adviser to the Board of Zephyr Energy plc, is the Qualified Person responsible for the technical content, verification and quality assurance of the exploration data and the analytical results set forth in this presentation.

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Goals, Values and Vision



- Founded by a highly experienced team of oil and gas professionals, Zephyr's goals are to drive growth and create long-term value for all stakeholders through responsible oil and gas production
 - ✓ Management alignment through purchased shareholdings (approximately 10% of issued share capital)
- Central to our goals are our values:
 - √ Responsible stewards of investors' capital
 - **✓** Responsible stewards of the environment
- Our vision: to open up the next prolific onshore U.S. oil & gas play



Overview



Core cash flowing platform with asymmetric upside potential

- Responsible resource development and carbon-neutral operations in the Rocky Mountain region of the U.S.
- Developing significant appraisal asset in Utah 45,000 acre Paradox Project
- Non-operated working interests in producing, near-term production and future drilling prospects in the Williston Basin
- Executed 14 discrete acquisitions and multiple drilling operations over the last 24 months

WILLISTON BASIN ND, MT WYOMING COLORADO PARADOX BASIN, UTAH

Williston Basin: core value, strong cash flow

Interests in circa 220 non-operated wells available for production in the Williston offering strong margins and rapid investment payback*

 High margin cash flow engine provides additional funding for Paradox development

Paradox Basin: asymmetric upside potential via the drill-bit

"2 for 2" in the Paradox Basin to date, with success utilising both hydraulic stimulation and production via natural fractures

 45,000-acre position provides significant inventory in an emerging basin in which modern drilling and completions have not been used prior to Zephyr

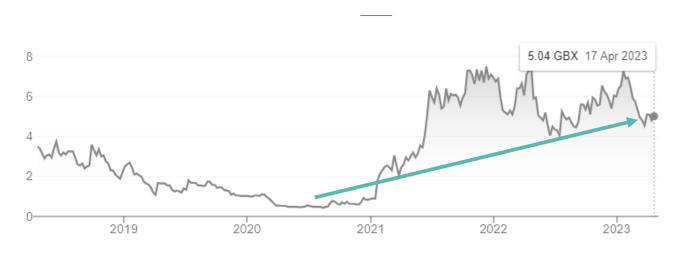
*As at 31 December, 2022

Key Data



Markets	Ticker	Market cap	Share price
AIM / OTCQB	LON:ZPHR / OTCQB:ZPHRF	£79 m / \$99 m*	4.95p*

Ordinary shares	Board & affiliate ownership
1,596,501,823	10.8%



Best performing AIM stock - FY 2021

Analyst research

Panmure Gordon

Target price: 17p

Auctus Advisors Ta

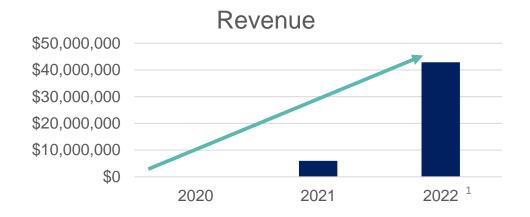
Target price: 20p

Key Relationships

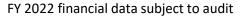
Senior Lender	First International Bank & Trust	
Hedging Counterparty	BP Energy	

*(as at 19.04.23)

3 Year Track Record of Growth

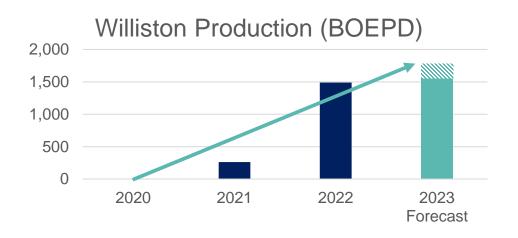






- Operating profit includes impact of Company hedging as follows:
 - FY 2022 171,000 BO hedged at a weighted-average price of \$98.04 per BO
 - Hedging will continue in 2023





Recent highlights



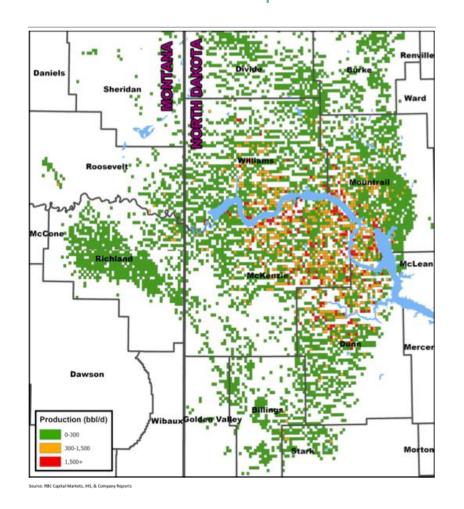
- Paradox acreage growth: Paradox acreage increased from 25,000 acres (at a net 75% working interest) to 45,000 acres (at a net 100% working interest)
- <u>Paradox infrastructure acquired</u>: 21 miles of gathering lines, gas processing plant (not currently in use), rights of way, permits and additional acreage and wellbores provide scale and optionality for growth
- Continued growth in the Williston Basin: 1.3 net new wells acquired (operated by Slawson) will increase Williston 2023 estimated production
- <u>State 16-2 well test commenced</u> teething issues encountered but management optimistic of resolution
- State 36-2 well drilled substantial natural fracture network and hydrocarbons encountered.
 Blowout safely contained and planning to commence production testing as soon as possible

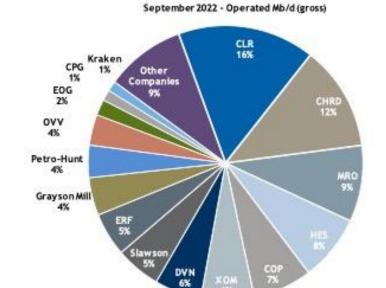


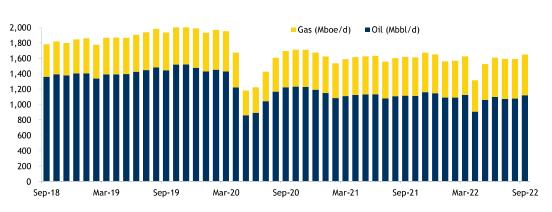
Williston Basin

ZEPHYR

One of the most active & prolific basins in the U.S.







Source: North Dakota Oil & Gas Commission, RBC Capital Markets

Williston Basin

Zephyr's Non-operated Asset Base



Overview

- Current portfolio of non-operated interests in 223 gross / 15 net wells available for production
- Large PDP component with strong cash flows
- Primary operators are Chord Energy (Whiting + Oasis) and Continental Resources
- Primary reservoir targets are the Middle Bakken and the Upper Three Forks

Acreage:

Circa. 2,000 net acres

FY 2022 Sales Volumes

Circa 1,490 boepd

Investment Highlights and Acreage Footprint

Strong PDP component generating free cash flow

Proven acquisition track record

Top-tier operators

Demonstrated growth potential – through acquisition and drilling

Opportunistic acquisitions in 2021 / 2022

In the core of the Williston Basin

High-margin oil production

Upside through 8 additional wells coming online 2Q (large WI)



Recent Acquisition – Mountrail County N.D.

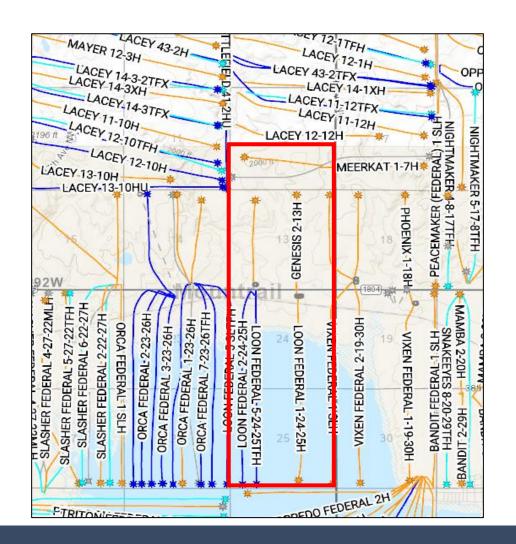


Interests in 6 wells operated by Slawson, a top basin participant

Interests equal to 1.3 wells net to Zephyr

CAPEX partially funded through \$8 million private debt facility

Production online in 1H 2023



Williston Strategy: Multiple Benefits



Zephyr's team on the ground in the Williston continues to generate significant deal flow – we've looked at over 100 investment opportunities and have invested in 12. Our underwriting criteria is straight forward – we target **capital payback in under two years** and **a minimum ROIC** of 2x.

This strategy:

- ✓ Provides critical portfolio diversification and balance to the Paradox project exploration upside
- √ Rapid recycling of invested capital
- ✓ Lower risk way to earn attractive returns while providing the funding required to progress the Paradox project
- ✓ The source of all current production and cash flow for Zephyr
- ✓ Leverages the operational and technical expertise of much larger operators and enables Zephyr to maintain lower overhead
- ✓ Enabled Zephyr to participate in a favourable stage of the commodity cycle and to take advantage of market inefficiencies

Each equity dollar invested has generated multiple dollars for future reinvestment



Paradox Project Asset Base



Overview

- 100% working interest in 45,000 operated acres
- Operations include recently approved White Sands Federal Unit ("WSU") which consists of 25,000 acres covered by recent seismic
- Historically productive area never utilised modern 3D or modern completion techniques
- Over the past 2 years, secured DOE partnerships and grants worth \$3.3 million to fund the acquisition of significant new data on the leasehold

Acreage:	45,000 acres
2C Resources:	34,030 mboe
3C Resources:	102,920 mboe

Note: in USD. PV-10 effective as of January 1, 2022 using Sproule price deck

Investment Highlights and Acreage Footprint

Substantial growth potential

Sizeable acreage position with high working interest

Ability to fund development out of Williston Basin cash flows

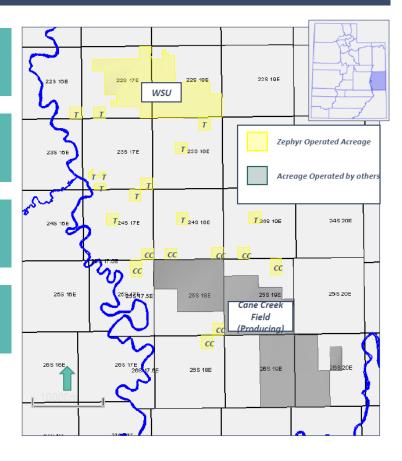
Basin lightly explored & overlooked

Strong initial test results / highly overpressured reservoir

Operational control

Significant technical analysis performed to date

Multizone potential provides enhanced economics

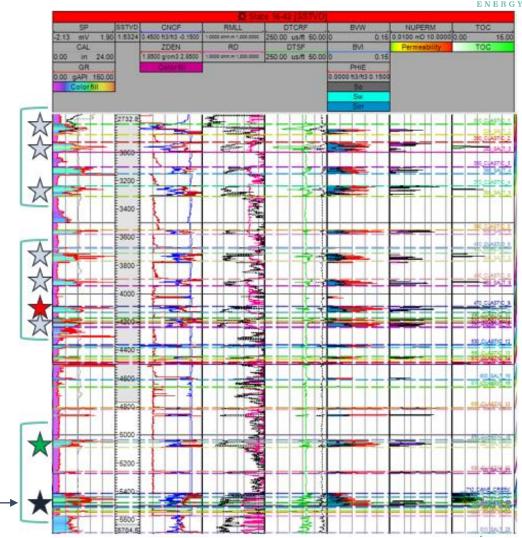


Primary Target - Cane Creek Reservoir

Exploration upside from overlying reservoirs



- Paradox Formation > 3000 feet
 - Layered evaporite
- Over 21 clastic intervals (muddy fine ssts, organic rich shales and anhydrites) interbedded with salt
- Two proven productive zones
 - Cane Creek (primary)
 - C18/19 in the Cane Creek Field
- 8 further exploration zones
 - C1, C2, C4
 - C6, C8, C9 & C10/11
 - C18/19 similar structural style as the Cane Creek reservoir
- Offset exploration zones show
 - Very similar petrophysics as the Cane Creek reservoir, if not better
 - Positive evidence for moveable HC's
 - Lack of prolonged production
 - To be further tested during the ongoing 36-2 drilling, with potential to drill C-9 well from the same pad.



Paradox Project: Findings to date



- Continuous resource play (tight oil and tight gas)
 - Repeatable petrophysics across a large area
 - Production from off and on structure locations
- Geology correlates with the seismic
- Consistent reservoir thickness within a sub area (WSU ~ 100 ft and Cane Creek unit ~ 70 ft)
- High reservoir pressures (0.95psi/ft)
- High matrix permeability for a resource play (upside)
- Reservoir can be stimulated (model ~ actual) favourable rock mechanics albeit under high stress
 - Objective is to connect this layered reservoir
 - Stacked potential with similar petrophysical response, offset observations of flowing Hydrocarbons (HCs), moveable HCs in Rotary Sidewall Coring
 - Substantial optimisation remains alongside further delineation drilling



May 2022 CPR: Significant Increase from 2018 CPR



	NET ATTRIBUT	NET ATTRIBUTABLE TO ZEPHYR		
PARADOX BASIN: DEVELOPED DEVELOPED & UNDEVELOPED RESERVES (MMBOE)	1P	2P	3P	
2018 CPR	-	-	-	
2022 CPR	0.54	2.12	6.81	
2022 – POST ACQUISITION	0.59	2.57	8.33	
	NICT ATTRIBUTE	NET ATTRIBUTABLE TO ZERUVR		

	NET ATTRIBUTABLE TO ZEPHYR		
PARADOX BASIN: CONTINGENT RESOURCES (MMBOE)	1C	2C	3C
2018 CPR	0.36	12.33	29.54
2022 CPR	-	26.87	81.13
2022 – POST ACQUISITION	-	34.03	102.92

	NET ATTRIBUTABLE TO ZEPHYR		
PARADOX BASIN: UNRISKED PROSPECTIVE RESOURCES (MMBOE)	10	2U	3U
2018 CPR	-	-	-
2022 CPR	57.5	203.0	419.0
2022 – POST ACQUISITION	76.7	270.4	558.7

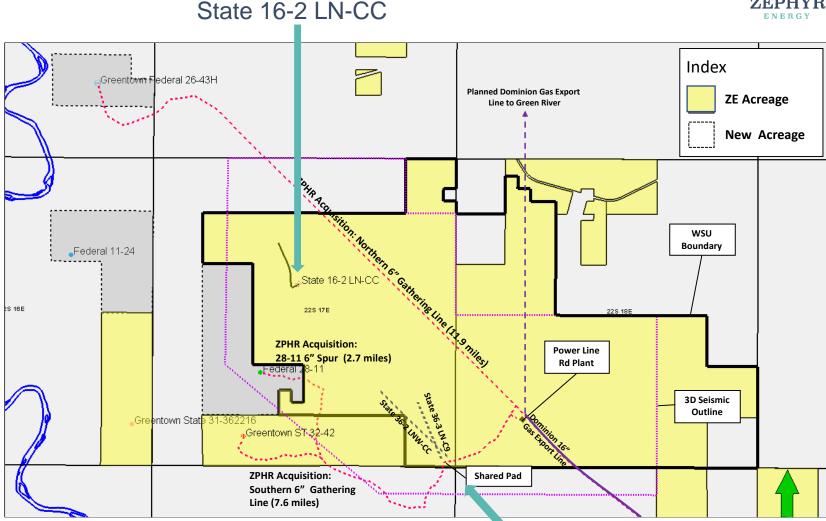
^{*}Source: Sproule Competent Persons Report

Paradox Project: Infrastructure



<u>Greentown Acquisition (September 2022)</u>

- 21 miles of natural gas gathering lines
- Powerline Road gas processing plant (not currently in operation)
- Rights of way for additional gathering lines
- Additional active permits
- Five existing wellbores with reuse potential, including one PDNP well which can be returned to production when gas export becomes available next year









16-2 Production test to date



- State 16-2 was the first test of a horizontal well with modern hydraulically stimulated well in the Paradox Project. The well was initially tested for 23 days in late 2021.
 - 4,000-foot lateral successfully stimulated which demonstrated favourable rock mechanics
 - Very limited pressure drop witnessed on test consistent with high permeability
 - Encouraging signs of a larger connected volume (connected volume risk and upside)
 - High production rates achieved under initial test rate restricted
- Second production test hampered by severe weather and surface facility commissioning issues
 - Mandated flaring limits reached prior to testing higher production rates
 - Precipitate issue impacted flow at higher rates either a function of continued flowback of completion fluids or a function of normal flowing conditions
 - Company is confident of resolution in either scenario
 - Zephyr may elect to apply for additional flaring consents or choose to test production when well is tied in and gas volumes can be sold to market



36-2: Case Study



- December 2022 Well spudded
 - Planned to drill to Cane Creek reservoir @ 9,598 feet true vertical depth and then a 10,346 feet horizontal lateral
- January 2023 After multiple weather, equipment and operational delays, the well intersected a significant natural fracture network immediately upon reaching Cane Creek reservoir
 - Significant "kick" of hydrocarbons
 - Elected to halt drilling and run production tubing, preserved option for future lateral
 - Drilling rig released
- March 2023 Announced commencement of further well work and production test, anticipated to take 4-6 weeks
 - Workover rig mobilised to site
- April 2023 Significant well control event (post-workover and immediately prior to commencement of production test)



36-2 Well Control Incident

- April 7th Cement job complete, packer released
- Mud flowed to surface as expected, safety valve opened to divert mud to tanks.
- Flow and pressure increased, hose diverting mud flow to tanks ruptured
- Crew attempted to close safety valve valve failed
- Secondary backstop BOP (blow out preventer) to crush tubing also failed
- Crew evacuated without injury
- Senior management notified and well control protocols immediately put into action
 - Senior management onsite within one hour
 - Local authorities
 - Regulatory authorities
 - Insurance
 - Well control specialist mobilised



36-2 Blowout - Rapid Response Protocols





- Gregor Maxwell, COO Site team lead
- Wild Well Control Specialist well control team
- Bruce Houtchens Sr. Drilling Engineer
- Daniel Ratcliffe Site Superintendent
- Bryce Simonson Site Superintendent
- S&G (workover rig and crew)
- American Cement
- Multiple additional service providers





- Ryan Waters, VP Operations Agency and Regulatory Lead, Procurement, Ops support
- Hannah Golike, Operations Support Team QB, Procurement
- Jorge Gutierrez, EVP & General Counsel
 Legal, Community Relations, Sheriff's
 Office Liaison, Insurance Lead
- Chris Eadie, CFO NOMAD, UK PR, UK Legal, OTC, Brokers
- James Lee (EVP, US Finance) & Linette Purdum (US Controller): Accounting and Financial - tracking and oversight





36-2 Current Status

- Well stabilised
 - All actions approved by state regulator on site in real time
- TIW valve replaced
- Road re-opened

- Insurance process underway
 Remediation process underway
 Well work commenced (including pull crimped tubing)
- Analysis and evaluation
- Goal is to commence production testing after management and board review



Drilling Plan update

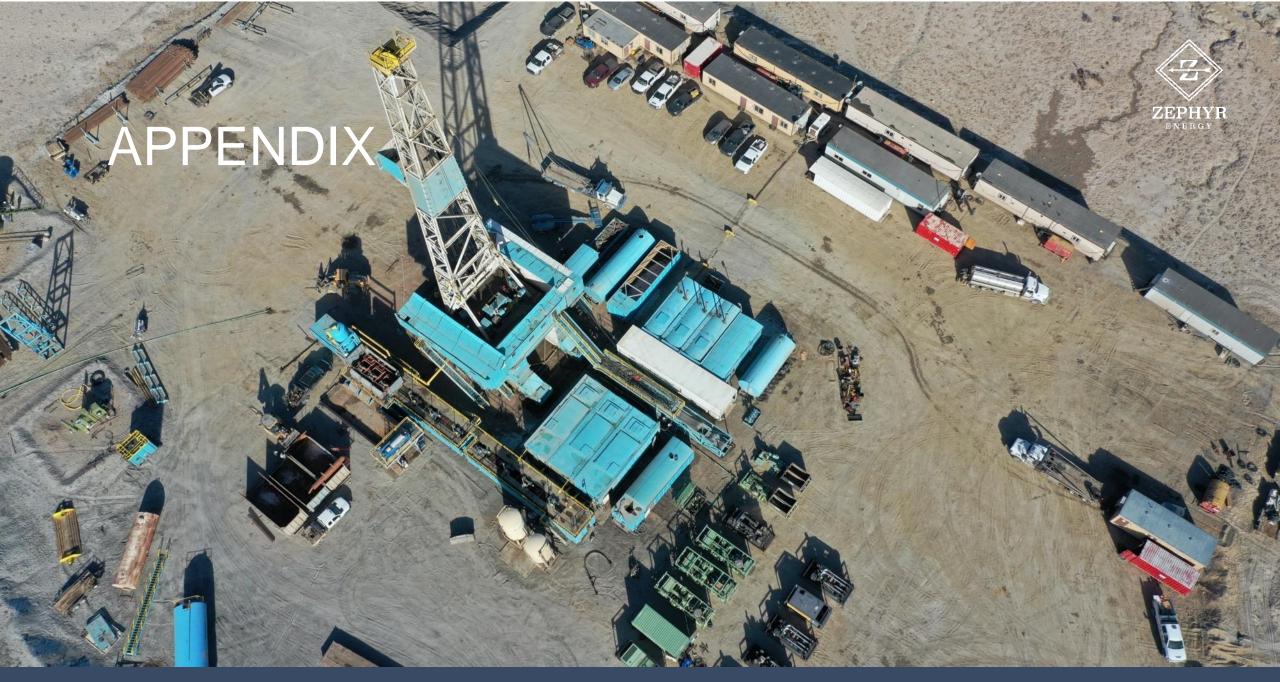


- Original FY 2022/2023 Drilling Plan three well Paradox program commencing late 2022
 - 36-2 (Cane Creek WSU), 36-3 (C9 WSU), Cane Creek Field well with Kirkwood JV
 - 75% WI in the WSU wells, 50% WI in the Kirkwood operated well
 - 2.0 net wells in total
- Revisions to Drilling Plan influenced by multiple factors:
 - Ability to buy out 25% non-op partner in the WSU (completed) adds reserves/resources and increased CAPEX exposure
 - Opportunistic purchase of Paradox infrastructure but with corresponding capital needs
 - Delays with permitting and services in Paradox
 - Dominion online date est. Q4 2023
- 1Q 2023 Updated Drilling Plan:
 - 1.0 net new Paradox well (36-2, 100% WI)
 - 1.3 net new wells in Williston (Slawson acquisition, all wells drilled and completed, est. online in 2Q 2023)
 - 2.3 net wells total (versus 2.0 in original Drilling Plan)
- Additional 2023 Paradox drilling to be determined based on capital availability and learnings from 36-2/16-2
 - Near term goal is to get existing drilled wells producing volumes and revenues
- Will consider partnerships and other strategic initiatives to accelerate Paradox drilling program

Conclusions



- Paradox has significant upside with two forms of development (natural fractures and HSRP) and 8 overlying reservoirs but also operational challenges
- To date, we are "2 for 2" on Paradox wells hydrocarbons found and appear capable of commercial production
- All key pieces for wider development have been assembled acreage and infrastructure
- Significant inventory timing has been difficult to predict but results are promising
- 2H 2023 will be inflection point moving Paradox from appraisal into development project flush production when 36-2 and 16-2 come online
- Core non-operated business continues to grow and support Paradox development
 - Demonstrated success with non-op acquisitions and strong deal flow pipeline
- Near-term news flow expected to be:
 - 1Q Production update
 - 36-2 flow test
 - Slawson acquisition initial production volumes
 - Updated CAPEX and drilling plans (dependent on 36-2 results)
 - Updated CPR (post 36-2 flow test)



Glossary



- £ Pound Sterling
- \$ United States Dollar
- CAPEX Capital Expenditure
- OPEX Operational expenditure
- **p** pence
- bo Barrel of oil
- boe Barrel of oil equivalent
- bopd Barrel of oil per day
- boepd Barrels of oil equivalent per day
- mboe thousand barrels of oil equivalent
- mmboe million barrels of oil equivalent
- Mscf million square cubic feet
- **bscf** billion square cubic feet

- U.S. United States
- ROIC Return on Invested Capital
- **IP** Initial production
- > more than
- < less than
- PDNP Proved developed nonproducing oil and gas reserves
- TD Total depth
- GHG Greenhouse gas emissions
- VERs Verified Emission Reduction Credits
- HSRP Hydraulically Stimulated Resource Play
- DOE U.S. Department of Energy

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