





Reserves and Resources Upgrade and Summary

November 2019

Key Takeaways



- 1C P90 BOE Resource = **182 Million Barrels of oil equivalent**
- Net Present Value of oil and gas reserves up 98% to US\$34 Million (AUD\$50.4 Million)
- 1C P90 Oil Resource up 12% to 60.6 Million Barrels of Oil (90% Probability)
- 1C P90 Gas Resource up 13% to 609 Billion Cubic Feet of Gas (0.61 TCF) (90% Probability)
- Gas potential in excess of 1 Trillion Cubic Feet (P10 Contingent resource = 1.02TCF)
- Pathfinder comparable to Colorado's Wattenberg Field has produced 2.8 TCF of gas and could yield 5.2 TCF more
- Based on comparative Pathfinder/Wattenberg well logs, Niobrara, Codell and Greenhorn Formations are similar in both fields
- Analogous geology now confirmed by 2 independent world leading Companies
 - Schlumberger (Petrophysical Analysis)
 - Gustavson Associates (Reserves & Resources report)



J.W. Powell Well During Flow Testing

Wattenberg transactions selling for up to US\$16,945 per acre – validates Pathfinder's potential value

Oil and Gas Resources



PATHFINDER PROPERTY - GROSS CONTINGENT OIL & GAS RESOURCES							
	1C	2C	3C				
	P90 - 90% probability	P50 - 50% probability	P10 - 10% probability				
Oil	60.6 Million barrels	83.3 Million barrels	119.7 Million barrels				
Gas	609 Billion cubic feet	787 Billion cubic feet	1.02 Trillion Cubic Feet				
Total BOE	182 Million BOE	240.7 Million BOE	323.8 Million BOE				

- IC BOE Resource = 182 Million BOE
- ✓ Maiden Barrels of Oil Resource Estimate (6:1)
- 1C OIL Resource = 60.6 Million BO
- ✓ Up 12% from 54 Million BO in 2018

- IC GAS Resource = 609 Billion Cubic Feet
- ✓ Up 13% from 540 BCF in 2018

Current Oil and Gas Reserves

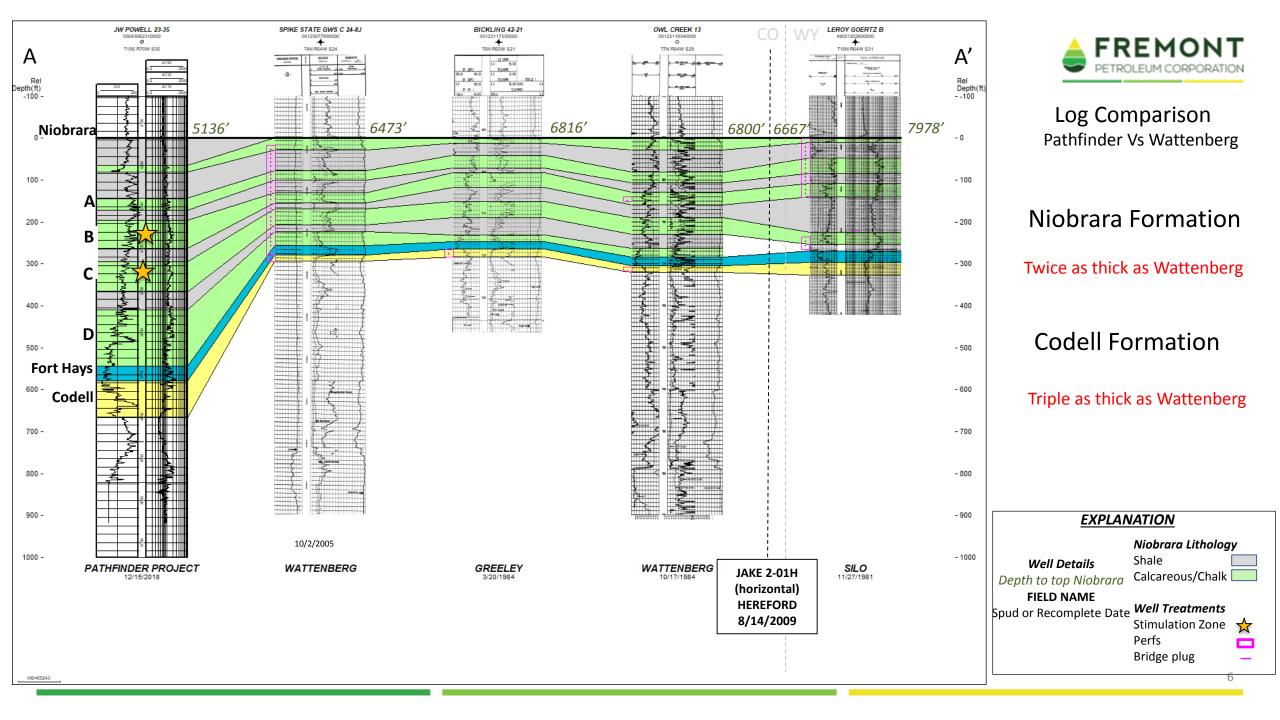


	Net Oil Reserves (MBO)	Net Gas Reserves, MMcf	Net Present Value, millions of US\$ Discounted at	
Reserves Category			0%	10%
Proved Developed Producing				
Colorado	102.22	0.00	\$2.13	\$1.35
Kentucky	12.27	0.00	\$0.135	\$0.116
Total	114.49	0.00	\$2.27	\$1.47
Proved Undeveloped	170.34	0.00	\$3.04	\$1.56
Total Proved	284.83	0.00	\$5.31	\$3.03
Probable Developed Non-Producing	100.32	1,901.00	\$8.80	\$4.43
Probable Undeveloped - Niobrara	2,934.75	29,347.54	\$119.38	\$25.40
Probable Undeveloped - Pierre	746.71	1,111.49	\$6.10	\$1.12
Total Probable	3,781.78	32,360.03	\$134.27	\$30.94
Total Proved plus Probable	4,066.61	32,360.03	US\$139.58 Million	US\$33.97 Million

- Net Present Value of oil and gas reserves = US\$34 Million AUD\$50.6 Million (FX=1.48)
- NPV10 USD\$ 34 Million = US\$1,750 per acre (19,417 acres)
- Price per acre based off current market capitalisation of AUD\$14 mil = US\$490 per acre



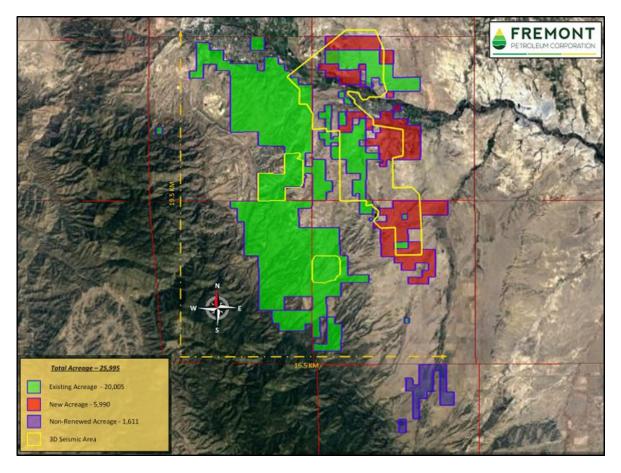
	DJ Basin/Wattenberg Niobrara	Pathfinder - Niobrara
Depth (ft)	6,000 - 8,000	5,141 - 5,681
Thickness (ft)	150 - 300	537
Porosity (%)	6-10%	6-10%
Water Saturation (%)	35-90	37-42
Thermal Maturity (Ro)	0.5-1.4	0.72
Resistivity (ohm-m)	cutoffs 20-30	30 – 50 in reservoir benches
Reservoir Pressure (psi/ft)	0.42-0.6	0.38
Gas-oil-ratio (GOR)	0-10,000	NOT YET ESTABLISHED
Frac'ability of Rock	Brittleness varies, 250' frac length	Brittleness varies, 300' frac length
Lithology	Chalk/Marlstone, multiple intervals	Chalk/Marlstone, multiple intervals
Clay Content	10-40%	10-17% in reservoir benches
Total Organic Carbon	3%	3.5%



Near-Term Value Catalysts



- Executing major gas off-take agreement
- Drilling 3 high impact oil targets identified on 3D seismic
- Rapidly grow production and cash flow through aggressive Pierre formation drilling program
- Pursue farm-out of deep formations to financially de-risk ongoing development



Pathfinder Property map illustrates the 5,990 acre acquisition and 3D seismic coverage

Contact Details & Disclaimers



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Qualified Resources Evaluator Statement:

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