

AUSTRALIAN POTASH LIMITED (APC)

Good Flows from First Test Production Bores

Australian Potash (APC, formerly Goldphyre Resources (GPH)) recently reported strong test pumping results from bores installed at two sites ~8kms apart within its Lake Wells Potash Project in WA.

The test production bores were installed across the higher grade western zone of the Lake Wells sulphate of potash (SOP) brine resource (specific yield resource of 10.5Mt at 9.03kg/m³ SOP).

The basal aquifer appears very robust with limited drawdown in response to the test pumping and also highlights potential for higher yields from upgraded production bores. The step test pumping results also provided flow rates up to 27L/sec (limited by the bore size) at both sites (A & B) for the main basal aquifer, so consideration will be given to larger pump designs in the future.

The Company was targeting flow rates in the range of 14L/sec to 18L/sec and achieved constant rate yields over 10 days of 16L/sec for Site A and 20L/sec for Site B. These flow rates will be used to update the production models and upgrade the resource used in the Scoping Study, which remains on track for release in the MarQ CY17.

The determination of aquifer flow rates is integral to the viability of the sulphate of potash (SOP) brine operation, as pumping from these aquifers (upper and basal) is expected to be the main source for potential production.

Resource upgrade and Scoping Study due MarQ CY17

The Lake Wells SOP resource has already been estimated using specific yield, the actual yields from the test pumping will now be used to improve the resource confidence (up to Indicated). APC has successfully installed and commissioned an evaporation pan trial on site, with the trial designed to simulate the evaporation rates at Lake Wells, with data collection over 12 months. The climate for Lake Wells is highly conducive to evaporation and receives good annual rainfall and drainage for aquifer recharging.

Still undervalued on peer analysis, should rerate as derisked

APC represents a unique Australian SOP opportunity, which we believe is best positioned for early market entry. SOP is the premium source of Potassium (K), an essential plant nutrient, which is currently 100% imported for domestic fertiliser consumption. APC is targeting a brine operation, which can be ramped up to +100Ktpa SOP for domestic supply but is easily scalable due to the expected use of bore pumping vs higher capex trenching.

Our preliminary price target is developed through comparison to the current trading ranges of ASX peers with SOP resources, and modelling simulation for a small-scale SOP operation. This assumes capex of less than A\$100m, mine gate operating costs of ~A\$250/t, mine life of over 20 years.

APC is still undervalued on peer metrics (with better logistics, lower expected capex, and simple abstraction method) and should continue to be re-rated as the project is de-risked by development studies. APC's immediate ASX brine peers (RWD, SO4, AMN) are trading at significant market capitalisation premiums, some 2.7-3.9x higher than APC, which in our opinion appears unjustified. With strong flow rates now demonstrated from the maiden test pumping we look forward to the release of the Scoping Study.

We maintain our Speculative Buy recommendation on APC, with a 12-month price target of 29cps. APC's current cash positioned is just over A\$5m.

APC.asx Speculative Buy

	16 Dec 2016
Share Price (last):	\$0.079
2Mth Price Target	\$0.29

Brief Business Description Potash (SOP) explorer/developer

Hartleys Brief Investment Conclusion 100%-owned potash project at Lake Wells WA. Targeting brine SOP production for the domestic market. SOP resource in the process of being upgraded. Scoping Study due for release in MarQ.

Issued Capital	221.5m
- issued + ITM diluted	221.5m
- issued + fully diluted	242.3m
Market Cap	\$17.5m
- issued + ITM diluted	\$17.5m
- issued + fully diluted	\$19.1m
Cash -est	\$5.0m
Debt -est	\$0.0m
EV	\$12.5m
- issued + ITM diluted	\$12.5m
- issued + fully diluted	\$11.3m

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at Central	Au, Base metals
lman Hill	Au, Base metals

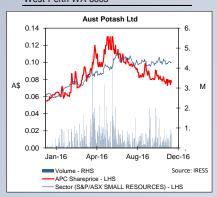
Board & Management

Matt Shackleton (Executive Chairman) Brenton Siggs (Non-Excec Dir & Expl Man) Dean Goodwin (Non-Exec Dir)

Top Shareholders (est)

Yandal Investments (Creasy)	13.1%
Board and Management	7.5%
Company Address	
21 Ord Street	

West Perth WA 6005



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Hartleys has completed a capital raising in the past 12 months for Australian Potash Limited ("APC") for which it has earned fees. Hartleys has provided corporate advice to APC within the past 12 months and continues to provide corporate advice, for which it will earn fees. The analyst has a beneficial interest in APC shares.

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SUMMARY MODEL

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-0.67 -4.75 na Total 20.86 2.83 0.136 9%
0.01 0.02 na
-0.65 -4.73 na
0.00 0.00 na Comments
-0.65 -4.73 loss
0.00 0.00 na Early stage exploration company with no production assets, ongoing funding
-0.65 -4.73 loss will be required (we dilute for new equity, required in the short-term). Levera to exploration success/improved market sentiment.

Sources: IRESS, Company Information, Hartleys Research

Lake Wells – Targeting Domestic SOP Production

Project located ~500km NE of Kalgoorlie, WA

Potash as a high value bulk commodity, requires access to infrastructure

Brine SOP projects generally occupy the lower end of production cost curve and have lower capital hurdles then rock potash projects

Large brine pumping operations in China and South America achieve flow rates in between 10L/sec and 18L/sec, so the APC test production work was principally designed to achieve these rates

The Lake Wells Potash Project is located ~180km north-east of Laverton, ~500km north-east of Kalgoorlie in WA. The project area consists of exploration tenure, which covers ~1,500km² and APC has 100% potash rights. Access to the project is via the Great Central (~90km sealed/unsealed road) and Lake Wells (~90km unsealed) roads. The project is located ~300km from a bulk rail terminal at Leonora. The climate for the project area is highly conducive to evaporation and receives good annual rainfall (for aquifer recharging).

Lake Wells has been identified as a high-grade SOP brine salt lake, confirmed both at the salt lake surface and at depth within a palaeochannel system. APC released a maiden SOP resource for its Lake Well Project in late June 2016, and currently consists of 18.4Mt of SOP at 8.05kg/m³ including a higher 10.5Mt of SOP at 9.03kg/m³ using specific yield. The current Inferred resources are in the process of being upgraded to Indicated resources; due early in the New Year (CY17).

Australia currently imports 100% of its potassium fertiliser requirements, and the low chloride and high sulphate content of SOP makes it an ideal and preferred form of potassium (fertiliser) for Australian farmers. SOP attracts a superior price to muriate of potash (MOP), and is underpinned by limited brine supply (only 3 evaporative operations globally) and increasing demand (forecast growth of 4%). Australia currently has no potash production, but appears well positioned to commercialise a number of its salt lake systems. APC is targeting an initial brine operation of ~75-100Ktpa SOP for supply into the domestic market.

As part of Scoping Study activities, APC recently installed 3 test production bores at two sites (A and B) across the higher grade western zone of the sulphate of potash (SOP) resource. The test pumping program consisted of step tests to quantify the bores performance at different flow rates and then continuous pumping over a 7-10 day period to determine the viability of longer term brine abstraction. Pleasingly both Site A and B have demonstrated very good test production yields in line with production models currently being developed by the Company.

The Scoping Study on the Lake Well Potash Project remains on track to be completed and released in the MarQ CY17. The development study is being led by NovoPro (an expert potash consultant from Canada).

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Fig. 1: Lake Wells Potash Project, WA (LHS): Test Production Bore Sites (RHS)

Source: Australian Potash Limited

Our APC price target is considered highly

speculative

Updated 12-month price target of 29cps

Preliminary Price Target - largely unchanged

APC has a JORC-compliant resource for the Lake Wells Potash Project, which is in the process of being upgraded. The specific yield and total porosity resources have been used in our preliminary price target methodology.

Our modelling simulation for a modest scale SOP operation (ramping up to 100Ktpa SOP), assumes capex of less than A\$100m, mine gate operating costs of ~A\$250/t, mine life of over 20 years. We assume existing infrastructure of roads and rail can be accessed and domestic SOP prices of A\$600/t and A\$750/t. Our price target for GPH is weighted for the different scenarios (as shown below) and includes reference to peer metrics.

The latest flow rates further derisk the project but it is pre-scoping and as such our APC price target is considered highly speculative.

Fig. 2:	GPH Price Target Methodology			
Price Target	Methodology	Weighting	16/12/2016	12 Month
Peer Metric - ~	70Mt SOP total porosity resource	10%	\$0.11	\$0.12
Peer Metric - ~18Mt SOP drainable resource		30%	\$0.21	\$0.23
Lake Wells - S	OP Prod (NPV @14) - ramp-up to 100Ktpa SOP - A\$600/t SOP	30%	\$0.26	\$0.27
Lake Wells - S	OP Prod (NPV @14) - ramp-up to 100Ktpa SOP - A\$750/t SOP	25%	\$0.48	\$0.50
Cash Backing		5%	\$0.02	\$0.02
Risk weighte	d composite		\$0.27	
12 Months Pr	ice Target		\$0.29	
Shareprice - Last \$0.079				
12 mth total return (% to 12mth target + dividend) 264%				

APC is still undervalued on peer analysis (with better logistics, lower expected capex,

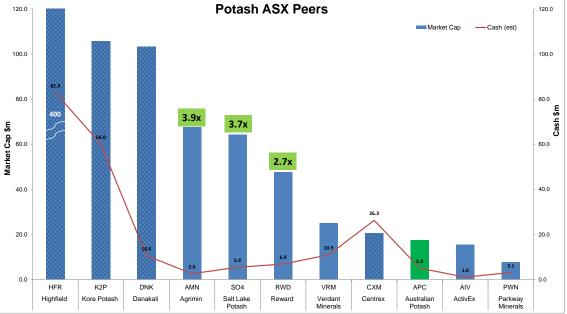
and simple abstraction method) and should continue to be re-rated as the project is

Source: Hartleys Estimates

Peers – APC remains undervalued

Note both MOP and SOP companies listed below

de-risked by development studies. APC's immediate ASX brine peers (RWD, SO4, AMN) are trading at significant market capitalisation premiums, some 2.7-3.9x higher than APC, which in our opinion appears unjustified. Fig. 3: Potash ASX Peers **Potash ASX Peers** 120.0 Market Cap -Cash (est) 100.0 80.0 3.9x Cash \$ 3.7x



Source: Hartleys Research; Checkered fills implies rock potash as opposed to brines; Cash positions at end SpeQ

Risks

Key risks for APC are funding, and commodity prices. Hence we view APC as high risk.

Fig. 4: Key assu	umptions and risks	for valuation	
Assumption	Risk of not realising assumption	Risk to valuation if assumption is incorrect	Comment
Model parameters for our preliminary GPH valuation and price target	Med	Meaningful	We have made a number of large assumptions in our APC preliminary valuation, based on incomplete information (ie no reserves, or development studies). GPH has no production history. Any changes to our assumptions have both upside and downside risks.
Favourable commodity prices	Low	Meaningful	GPH remains sensitive to changes in commodity (potash) prices, exchange rates and market sentiment. Though with no current operations, direct impact from commodity prices is limited.
Funded for ongoing exploration	Med	Moderate	GPH's cash position is just over A\$5m. As an explorer with no current production assets, ongoing funding will be required. We assume development studies will be progressed.
Conclusion	We have r	nade significant assumpti	ons but believe these are achievable.

Source: Hartleys Research

HARTLEYS CORPORATE DIRECTORY

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Hartleys Recommendation Categories

Buy Accumulate	Share price appreciation anticipated. Share price appreciation anticipated but the risk/reward is not as attractive as a "Buy". Alternatively, for the share price to rise it may be contingent on the outcome of an uncertain or distant event. Analyst will often indicate a price level at which it may become a "Buy".
Neutral	Take no action. Upside & downside risk/reward is evenly balanced.
Reduce /	It is anticipated to be unlikely that there will be gains over
Take profits	the investment time horizon but there is a possibility of some price weakness over that period.
Sell	Significant price depreciation anticipated.
No Rating	No recommendation.
Speculative Buy	Share price could be volatile. While it is anticipated that, on a risk/reward basis, an investment is attractive, there is at least one identifiable risk that has a meaningful possibility of occurring, which, if it did occur, could lead to significant share price reduction. Consequently, the investment is considered high risk.

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