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110 International Journal of Energy Economics and Policy ISSN: 2146-4553 available at <http://www.econjournals.com> International Journal of Energy Economics and Policy, 2021, 11(2), 110-114. Oil Price and Stock Return: Evidence of Mining Companies in Indonesia Endri Endri<sup>1\*</sup>, Muhamad Rinaldi<sup>1</sup>, Dini Arifian<sup>2</sup>, Bungaran Saing<sup>3</sup>, Aminudin Aminudin<sup>4</sup> <sup>1</sup>Universitas Mercu Buana, Jakarta, Indonesia, <sup>2</sup>STIE La Tansa Mashiro, Lebak, Banten, Indonesia, <sup>3</sup>Universitas Bhayangkara Jakarta Raya, Indonesia, <sup>4</sup>Institut Teknologi dan Bisnis Ahmad Dahlan Jakarta, Indonesia. \*Email: endri@mercubuana.ac.id Received: 15 September 2020 Accepted: 18 December 2020 DOI:

<https://doi.org/10.32479/ijee.10608> ABSTRACT This research aims to analyze the determinants of stock return disclosure of mining sector companies listed on the Indonesia Stock Exchange in 2014-2018.

The research adopted the Eviews program data and effect model chosen test relationship between internal and external indicators as independent variables include return on asset (ROA), debt to equity ratio (DER), total asset turnover (TATO), oil price and exchange rate. The result shows that return on assets and debt to equity ratio have no effect on stock return.

Total asset turnover and exchange rate have negative and significant effect on stock return, while Oil price have positif and significant effect on stock return. Keywords: Stock Return, Return on Assets, Debt to Equity Ratio, Total Asset Turnover, Oil Price, Exchange Rate JEL Classifications: E22, E44, G11 1. INTRODUCTION In 2019 the mining sector index was corrected by 12.83 % and became one of the wedges of the movement of the Jakarta composite index (JCI).

The decline in the stock price of the mining sector is inseparable from the drop in coal

prices throughout 2019. This was due to the excess supply of coal available in the global market. In addition, when viewed based on the oil reference price which is the majority used in the world, namely west Texas intermediate (WTI) during November 2018, the oil reference price experienced a downward trend of around 22%.

The excess supply factor is the main cause, a number of world's oil-producing countries have massively increased their production, such as the US, Saudi Arabia and Russia, which is not accompanied by demand. The other factor which led to the weakening of stock prices of mining sector is the existence of a trade war between the United States with China that heats up causing a global economic slowdown that disrupts economic growth.

In addition, the trade war also carries downside risks, is when the global economy slows down, it will reduce the amount of energy demand. As a result of the decline in stock prices in the mining sector, the return on mining stocks has also decreased (Endri et al. 2020). Figure 1 shows data related to average stock returns for the market index (IHSG) and mining sector stocks from 2014 to 2018 which experienced almost the same fluctuation, except in 2017. The results of the research by Endri et al. (2019) found that Return on Assets (ROA) has a significant effect on stock return.

These results contradict the research of Bowens and Endri (2018) which stated that return on assets (ROA) has no significant effect on stock return. The results of the research by Endri et al. (2019) and Bustami and Heikal found the equity (DER) an on stock return. This result contradicts the results of research by Baah et al.

(2014) and Allozi and Obeidat (2016) which stated that the debt equity ratio (DER) has no effect on stock return. Murtadlo et (2017) that asset over has effect on stock return. This result contradicts the results of Bustami and Heikal (2019) research which stated that total asset turnover (TATO) affects stock return.

This research will calculate and determine the internal and external factors that affect the company's stock return, This Journal is licensed under a Creative Commons Attribution 4.0 International License 111 internal factors such as return on asset (ROA), debt to equity ratio (DER), and total asset turnover (TATO). Meanwhile, external factors such as oil prices and the rupiah exchange rate. 2. LITERATURE REVIEW 2.1.

Effect of ROA on Stock Return ROA shows the company's financial performance in generating a net income from assets used for company operations. Endri (2018) stated that ROA has a positive and significant effect on stock return. With a positive coefficient, it means that the greater the profitability (ROA), the higher the stock return.

Meanwhile, Suciati (2018) stated that profitability (ROA) has no stock return effect. This shows that the is effective using assets generate profits, it will reduce investors' interest in buying company stock. H1 : ROA affects the stock return 2.2. Effect of DER on Stock Return **Debt to equity ratio (DER) is** a ratio used to assess debt to equity.

A **company with a low debt to equity ratio** will hav a lower risk of loss when economic conditions decline, but when economic conditions improve, the opportunity to earn a profit is low. Endri (2019) that has significant effect stock return. This shows that companies are more likely to use the allocation of funds from debt to maximize the company's wealth.

Meanwhile, Benyamin and Endri (2019) stated that individual DER **has a negative and insignificant effect on stock return.** H2 : DER affects the stock return. 2.3. Effect of TATO on Stock Return Total Turnover a that the level of use the total in a sales Midesia al. stated TATO the return of Islamic stocks. A high TATO value also indicates that the is efficient using assets, to generates bigger sales and gives **a positive effect on stock prices.**

Meanwhile, Study of Suciati (2018) showed that TATO **has no effect on stock return.** The average activity tends to decrease and the stock fluctuates, that increase company assets cannot produce good sales, resulting in a low ratio and this cannot affect the stock return. H3 : TATO affects the stock return. 2.4.

Effect **of Oil Prices on Stock Return In** research by Diaz and de Gracia (2016) stated that changes in linear oil have significant impact **on the return of** real stocks **of oil and gas companies** in the short term and oil price has a positive impact on short-term stock return. Meanwhile, Masood et al. (2019) stated that **the price of oil** has an insignificant effect on the real stock market of all G7 countries. H4 : **Oil price affects the stock** return. 2.5.

Effect of Exchange Rates on Stock Return Changes in real exchange rates reflect changes in competitiveness between Indonesia and its trading partners. **Fatmawati et al. (2020) state that the rupiah exchange rate against the USD has a significant positive** on return. Suriani al. showed **that there is no relationship between** exchange rates and stock prices and the two variables are independent of each other.

H5 : Exchange rate affect the stock return. **3. METHODOLOGY AND DATA** This research is quantitative research. **The population in this research are mining companies listed on the Indonesia stock exchange (IDX) for the** 2014-2018 period. The sampling method was

purposive sampling. The sample criteria set were: 1. Mining companies listed on the Indonesian stock exchange and not delisted in the 2014-2018 period. 2. Mining public companies consecutively.

3. Has no outlier data. If the company has outlier data, it will bias the results of the research. Based on these criteria, the number of samples that meet the criteria of this research is 22 companies from 47 mining companies listed in the Indonesian stock exchange. The of research to the of D, Orice, and Exchange Rate on the mining s's stock return.

The formulation of research hypotheses is based on supporting theories and is proven through a series of statistical tests. The research conclusion was drawn based on the results of statistical testing. The method of processing secondary data that has been collected from various sources is carried out using some software, such as Microsoft Excel 2010 and EViews 10.0. Data processing activities use Microsoft Excel 2010 software related to table creation and analysis.

Meanwhile, in panel data regression processing, the author uses the EViews 10.0 software. The research model used is as follows:  $SR_{it} = a + \beta_1 ROA_{it} + \beta_2 DER_{it} + \beta_3 TATO_{it} + \beta_4 FOREX_{it} + \beta_5 WTI_{it} + e_{it}$ ,  $i = 1, 2, \dots, N$ ;  $t = 1, 2, \dots, T$  Which are: SR = Stock Return, ROA = Return on assets, DER = Debt to equity ratio, TATO = Total assets turnover, WTI = Oil world texas index, FOREX = Exchange rate USD against the US dollar, e = Component error,  $\beta$  = Slope, a = Intercept, i = Company, t = Year, 22% -12% 15% 20% -3 % -5 % -27% 85% 11% 9% -50% 0% 50% 100% -20% -10% 0% 10% 20% 30% 2 0 1 4 2 0 152 0162 0172 018 Comparison of the Returns of Mining Sector Shares with the JCI IH SG Return Figure 1: Jakarta composite index performance and mining sector stock return Source: Indonesian stock exchange reprocessed 112 N = Number of observations, T = Number of times,  $N \times T$  = Number of panel data. 4.

RESULTS AND DISCUSSION 4.1. Data Analysis Table 1 shows a description of the statistical data of the study variables including the mean, median, maximum, minimum and standard deviation. Standard deviation is a statistic that measures the spread of a data set relative to its average, where the value for each variable is positive but has a significant difference. The largest standard deviation value is experienced by the ROA variable, which is equal to 12.45718, which means that the ROA variables have a higher risk level than the other variables.

Meanwhile, the exchange rate variable has the lowest level of risk, which is 0.049167. variables. Meanwhile, the exchange rate variable has the lowest level of risk, which is 0.049167. The dependent variable of Stock Return has an average value of 0.145780

with a standard deviation of 0.778661. During the study period, stock returns with a minimum value of -0.860000 from PT. Surya Essa Perkasa Tbk in 2017.

During the research period, stock return with a minimum value of -0.860000 from PT. Surya Essa Perkasa Tbk in 2017 and a maximum value of 4,560000 from PT. Bumi Resources Tbk in 2016. Panel data regression model to estimate the determinants of the mining company stock return based on three models, namely: common fixed and effects.

panel regression model that was applied in the research for further analysis used a paired test for each model. Based on the paired test results using the Chow test, the LM Breusch-Pagan (BP) test, and the Hausman test shown in Table 2, the panel data regression method was chosen to estimate and analyze the determinants of the stock returns of mining companies listed on the Indonesia Stock Exchange during the period.

2014- 2018 is a random effects model. 4.2. Panel Data Regression The panel data regression analysis model in this research uses a effect The of random method as a data analysis method is based on the results of testing in pairs using the Chow test, the LM Breusch-Pagan (BP) test, and the test the random models to estimate and analyze the determinants of stock return of mining companies listed on the Indonesia Stock Exchange for the period 2014-2018. Table 3 shows the results of panel data testing with the random effect model.

The estimation results of the random effects model can be written in the following panel data regression equation:  $SR = 0.385696168333 + 0.00471415778191 \cdot ROA - 0.0389758200139 \cdot DER - 0.0900663815347 \cdot TATO + 0.645067641976 \cdot WTI - 3.09120114398 \cdot FOREX + [CX=R]$  2) is a measure that shows how much the contribution of the independent variable to the dependent variable.

Below shows the results of the coefficient of determination in this research: Based on Table 4 and the model equation, it can be seen that the exchange rate (FOREX) on stock return (SR) is 0.175821 (Adjusted R-squared = 0.175821). This means that the effect of the independent variable on the dependent variable is 17.58% and the rest is influenced by other variables not included in this research. 4.3.

Hypothesis Testing To determine the effect of the independent variable on the dependent we each the effect regression coefficients for the determinants of the mining company's stock return using the t-test. The t-test was conducted to determine whether each of the independent variables used in mining as dependent significantly a confidence level of 95% or alpha equal to five percent (  $\alpha = 0,05$ ), or is with confidence

of or equal ten percent ( $\alpha = 0.10$ ).

The partial statistical test results for each of factors affect mining stock are shown in Table 5. For the influence of variable total asset turnover (TATO), world oil prices (WTI), the exchange rate partially to stock which significant be respectively and compared with the research hypothesis.

From the results of the hypothesis testing above, it shows that the oil price and exchange rate are variables that have a lower a value than significant of and has a value that is lower than the significant level 0.10. The empirical findings of this research as in line with the research hypothesis which stated that variable oil and exchange effect on the stock return of mining companies listed on the Indonesia Stock Exchange for the period 2014-2018.

Meanwhile, the ROA and DER variables have a higher a value than the significant level of empirical of research not line the research hypothesis which stated that the ROA and DER effect on the stock return of mining companies listed on the Indonesia Stock Exchange for the period 2014-2018. Table 1: Statistical Data description of research variables

Measurement	SR	ROA	DER	TATO	WTI	FOREX
Mean	0.145780	6.246055	1.041927	0.695321	-0.086514	0.035688
Median	-0.020000	4.000000	0.670000	0.610000	-0.250000	0.020000
Maximum	4.560000	45.60000	11.91000	1.880000	0.450000	0.110000
Minimum	-0.860000	-64.40000	-7.170000	0.000317	-0.460000	-0.030000
Std. Dev.	0.778661	12.45718	1.860489	0.489515	0.331993	0.049167

Source: Processed data 113  
4.4.

Discussion Based on empirical findings, the ROA variable affects the mining company stock return positively but not significantly. This supports the signal theory which is information in the company regarding the rate of return on assets, is the calculation of profitability or how much can obtained the issued, if the profitability is large, it will send good signals to stakeholders.

The results of this research support the research conducted by Nalurita (2015), Suciarti (2018), Jasman and Kasran (2017), and Sari and Endri (2019). The results of this research stated that the debt to equity ratio stock return of mining companies in Indonesia. This shows that the higher the DER level, the lower the stock price. The high debt composition compared to equity threatens the instability of the company's condition.

to pecking theory, companies with minimal risk are those with small debts. A company with a low DER will have a lower risk of loss when economic conditions decline, but when economic conditions improve, the opportunity to earn a profit is low.

On the other hand, companies with high leverage ratios are at risk of bearing large losses when economic conditions decline but have the opportunity to large when economy These support the research of Benyamin and Endri (2019), Lee ( 2018), and Sugianto et al. (2020). turnover (TATO) variable has a negative and significant effect on the stock return of mining companies in Indonesia.

These results are in line with the research hypotheses made previously. The hypothesis that asset (TATO) stock returns. This is in line with the theory that the greater the Total Asset Turnover (TATO), the more appropriate the use of these assets. Total asset turnover (TATO) is one measure used to assess management efficiency in running its business.

A high total asset turnover indicates the management use all its assets to get profit for the company. These results support research conducted by Huda et al. (2015), Bustami and Heikal (2019), and Piralanasih and Mustafa (2018). Based on the research result, it stated that the variable of world oil price has positive significant on returns of mining companies in Indonesia.

This is because the increase in the price of oil will certainly increase the opportunities for oil-producing companies to obtain higher income. In addition to oil-producing mining companies, the increase in oil prices causes the market to seek alternative energy to replace oil, for example, alternative energy such as coal also has the opportunity to earn higher profits. This is what makes the world oil price variable has a significant effect on mining companies in Indonesia.

This result is supported by research by Ma et al (2019), Diaz and de Gracia (2016), Huang and Mollick (2020), and Wahyono et al. (2019). Based on the results of the research, it stated that the rupiah exchange variable a and effect the company's returns. results that the weakening of the rupiah exchange rate has a positive impact on the stock returns of mining companies because most of the production results produced by mining companies are exported and the sales transactions use foreign currency as a means of payment.

Usually, an increase in the exchange rate of the rupiah is also followed by an increase in share prices, due to an increase in income or profit. This research is in accordance with the arbitrage pricing theory (APT) theory that states securities returns are not only by portfolios are by sources of risk, namely macroeconomic variables in this case the rupiah exchange rate. The results of this research are relevant to the research of Fatmawati et al.

(2020), Khan (2019), Kumar (2013), Assagaf et al. (2019), and Wahyono et al. (2019). 5. CONCLUSIONS The results showed that the variables return on assets (ROA) and debt to equity ratio (DER) has no effects on return shares of mining companies listed on the Indonesia stock exchange for the period 2014-2018, the variable total asset turnover (TATO) and exchange rate Rupiah has a negative and significant effect on stock returns of mining companies listed on the Indonesia stock exchange for the period 2014-2018.

Meanwhile, the WTI oil price variable has a positive and significant effect on stock returns of mining companies listed on the Indonesia Stock Exchange for the period 2014-2018

Table 3: Random effect testing results

Variable	Coefficient	C	0.385696
ROA	0.004714	DER	-0.038976
TATO	-0.090066	WTI	0.645068
FOREX	-3.091201		

Table 4: The coefficient of determination Weighted statistics R-squared 0.213978 Mean dependent var 0.145780 Adjusted R-squared 0.175821 S.D. dependent var 0.778661 S.E. of regression 0.706902 Sum squared resid 51.47020 F-statistic 5.607911 Durbin-Watson stat 2.925306 Prob(F-statistic) 0.000130

Table 5: Hypothesis test results (t-test)

Variable	Std. Error	t-statistic	Prob.	Conclusion
ROA	0.144638	0.963347	0.3376	Not Significant
DER	0.004894	-0.641735	0.5225	Not Significant
TATO	0.060735	-1.780183	0.0780	Significant
WTI	0.050594	3.941359	0.0001	Significant
FOREX	0.163666	-5.751254	0.0000	Significant

Table 2: Conclusion of panel data regression model testing Method Testing Result Chow-test Common effect versus fixed effect Common Effect Lagrange multiplier-BP Common effect versus random effect Random Effect Hausman test Fixed effect versus random effect Random Effect 114

Managerial suggestions or implications of the research results are associated variables have significant Investors and potential investors should pay attention to the variables that can the of returns.

the return used as a measure of company performance by investors to invest in companies in the stock market. Recommendations of this research can be developed by involving many internal factors, among others: the size of the company, firm age, public ownership, and external factors, among others: interest rates, money supply researchers are advised to be able to extend the period used in the research.

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