

Mr. Anthony Marchese Chairman, Board of Directors

OTCQX: TRER

March 2014

Legal Disclaimers

Forward-Looking Statements

This presentation contains forward-looking statements within the meaning of the U.S. Securities Act of 1933, as amended, and U.S. Securities Exchange Act of 1934, as amended. The estimated resources at the Round Top project, potential recoverability of resources, estimated homogeneous distribution of HREEs and REEs in rhyolite, the economic assessments in the December 2013 Preliminary Economic Assessment, including the estimated Initial Capex, NPV, payback period, initial Life of Mine, Life of Mine gross revenue, Life of Mine Opex, production profile, projected revenue sources and projected operating expenditures, the potential beryllium, uranium, and thorium mineralization at the property, anticipated inclusion of non-Rees, uranium, lithium and beryllium in future economic analyses, possible whole rock recoveries, anticipated climate, labor and regulation at the Round Top project, potential market, demand and values for REEs, including ytterbium, dysprosium, terbium, erbium, holmium, thulium, lutetium and thorium, and the likely business friendly environment in Texas are forward-looking statements. These statements involve known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by such statements. Such factors include, among others, uncertainty of mineralized material and mineral resource estimates, risks related to projected and estimated economics not reflecting actual economic results due to the uncertainty of mining processes, potential non-uniform sections of mineralized material, potential mining hazards and accidents, changes in equipment and labor costs, changes in projected REE prices and demand, competition in the REE industry, risks related to project development determinations, the inherently hazardous nature of mining-related activities, potential effects on the Company's operations of environmental regulations, risks due to legal proceedings, liquidity risks and risks related to uncertainty of being able to raise capital on favorable terms or at all, as well as those factors discussed under the heading "Risk Factors" in the Company's latest annual report on Form 10-K as filed on November 26, 2013 and other documents filed with the U.S. Securities and Exchange Commission. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those described in forward-looking statements, there may be other factors that cause results not to be as anticipated, estimated or intended. Except as required by law, the Company assumes no obligation to publicly update any forward-looking statements, whether as a result of new information, future events, or otherwise.

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Cautionary Note to Investors

The United States Securities and Exchange Commission ("SEC") limits disclosure for U.S. reporting purposes to mineral deposits that a company can economically and legally extract or produce. This presentation uses certain terms that comply with reporting standards in Canada and certain estimates are made in accordance with Canadian National Instrument NI 43-101 ("NI 43-101") and the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") - CIM Definition Standards on Mineral Resources and Mineral Reserves, adopted by the CIM Council, as amended (the "CIM Standards"). NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosures an issuer makes of scientific and technical information concerning mineral projects. This presentation uses the terms "resource," "measured and indicated mineral resource," and "inferred mineral resource." We advise U.S. investors that while these terms are defined in accordance with NI 43-101 such terms are not recognized under the SEC Industry Guide 7 and are normally not permitted to be used in reports and registration statements filed with the SEC. Mineral resources in these categories have a great amount of uncertainty as to their economic and legal feasibility. "Inferred resources" have a great amount of uncertainty as to their existence and, under Canadian regulations, cannot form the basis of a pre-feasibility or feasibility study, except in limited circumstances. The SEC normally only permits issuers to report mineralization that does not constitute SEC Industry Guide 7 compliant "reserves" as in-place tonnage and grade without reference to unit measures. Under SEC Industry Guide 7 standards, a "final" or "bankable" feasibility study is required to report reserves, the three-year historical average price is used in any reserve or cash flow analysis to designate reserves and all necessary permits and government approvals must be filed with the appropriate governmental authority. Our Round Top project currently does not contain any known proven or probable ore reserves under SEC Industry Guide 7 reporting standards. The results of the PEA disclosed in this presentation are preliminary in nature and include inferred mineral resources that are considered speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves and there is no certainty that the results of the PEA will be realized. U.S. investors are urged to consider closely the disclosure in our latest reports and registration statements filed with the SEC. You can review and obtain copies of these filings at http://www.sec.gov/edgar.shtml. U.S. Investors are cautioned not to assume that any defined resource will ever be converted into SEC Industry Guide 7 compliant reserves.

This presentation contains statements regarding a historical beryllium resource and potential mineralization of thorium that have not been reviewed by an independent third-party consultant. Such statements are not compliant with NI 43-101 and do not represent SEC Industry Guide 7 compliant reserve estimates or economic recoveries. The estimates of management as presented in this presentation is preliminary in nature and may not occur as anticipated or estimated, if at all. While management believes these statements have a reasonable technical basis, they are based on estimates of management which may not occur as anticipated. The estimated beryllium resource is based on a historical internal feasibility study by Cypress Sierra Blanca, Inc. and does not represent an Industry Guide 7 compliant reserve. Actual beryllium mineralization may not be economically recoverable. Estimates of thorium are based on management's assessment of limited, historical drill hole data and may not be indicative of mineralization throughout the project area. Such mineralization estimates may not occur in the amounts estimated and does not represent an Industry Guide 7 compliant reserve. Investors are cautioned not to assume that these mineralization estimates will ever be realized as anticipated or sufficiently documented in a definitive feasibility study. **U.S. Investors are cautioned not to assume that any mineralization estimate will ever be converted into SEC Guide 7 compliant reserves.**

Preliminary Economic Assessment (PEA) December 2013 Highlights**

- Initial Capex: \$293 million
 - among the lowest worldwide
- NPV (10% Pre-Tax): \$1.47 billion
 - based upon current spot REE pricing
- IRR (Pre-Tax): 69%
- Payback Period: 1.5 years
- Initial Life of Mine: 20 years*
- Life of Mine Gross Revenue: \$7.9 billion
- Life of Mine Op-Ex: \$2.2 billion
- Production Profile: Diversified mix of HREOs & CREOs

Key Investment Considerations

- Outstanding project economics
 - Low project Capex due to unique metallurgy and infrastructure
 - Robust project NPV and IRR at current spot prices
 - Potential significant non-REE revenue (U, Li, Be)
- Management and board has significant equity participation
- World demand for HREE's and CREO's expected to continue to rise
- Significantly undervalued relative to peers

Select Financial Highlights

Fiscal Year End	August 31st
Symbol	OTCQX: TRER
Stock Price (03-25-14)	\$ 0.44
Shares Outstanding (8-31-13)	38 million
Market Cap	\$ 16.7 million
Avg Daily Volume (30 day)	47,600
Cash (8-31-13)	\$ 2.3 million
Insider Ownership	38%
Institutional Ownership	9%
Float	47%

Diverse Independent Governance and Large Stakeholders *Emphasize Share Value*

Board of Directors	Background	Management	Title
Anthony Marchese*- Chair	Capital Markets	Dan Gorski	CEO
Dan Gorski	Mining Industry	Mike McDonald	CFO
Jack Lifton*	Consulting/Metals	Laura Lynch	VP- External Affairs
Laura Lynch	Natural Resources		
Dr. Nick Pingitore*	UTEP-	Shareholder	Ownership
Cecil Wall*	Geoscience/Chemistry Natural Resources	Management/Board	38.1%
		Highline Capital	6.8%
Dr. Jim Wolfe*	Rare Earth Metals Industry	Libra Advisors	2.4%

*Independent board member



A National Treasure

One of four related mountains in plain view in America's own back yard, near El Paso in west Texas





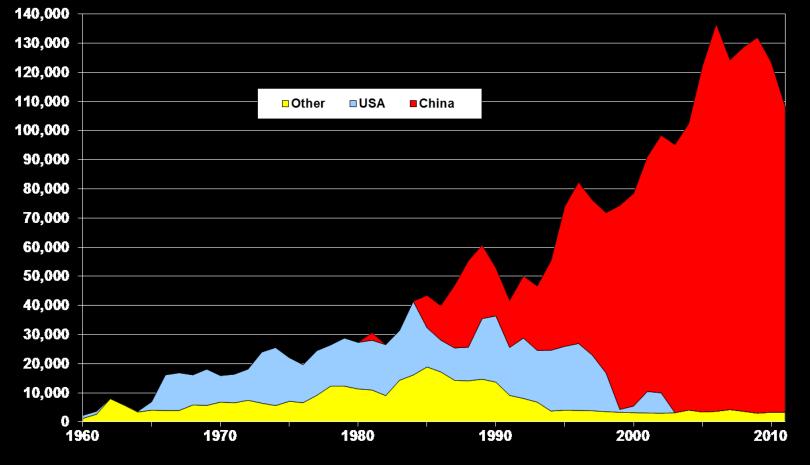
Round Top Mountain

1,250 feet high by 1 mile in diameter



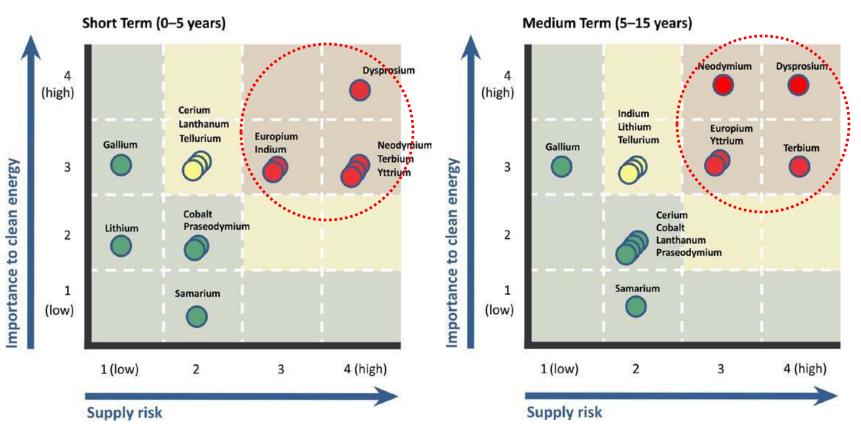
and it's almost all mineralized heavy rare earth material!

China Dominates Global Rare Earth Oxide Mine Production



Source: USGS

TRER's REEs Expected to Remain in Critical Demand and Short Supply



Source: US Department of Energy

CREOs Are Unique and Difficult to Substitute

н																	He
u	Be											В	с	N	0	F	Ne
41	63											41					
Na	Mg	-										AI	Si	Р	S	CI	Ar
	94											44	2242	- 22			
к	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
		65	63	63	76	.96	57	54	62	70	38	38	44	38	47		
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	1	Xe
	78	95	66	42	70	02594	63	56	39	44	38	60	36	57	38	0.00	22220
Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	П	Pb	Bi	Po	At	Rn
	63	•	38	41	53	90	38	69	66	40	45	300	100	46			
Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	FI	Uup	Lv	Uus	Uud

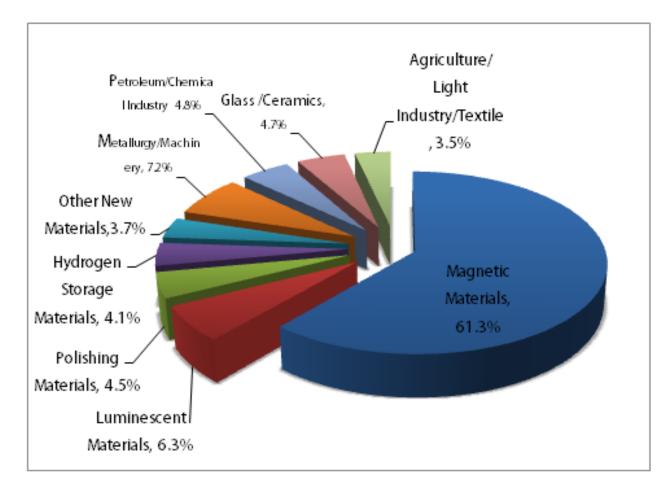
* Lanthanides	La 75	Ce 60	Pr 41	Nd 41	Pm	Sm 38	Eu 100	Gd 63	Tb 63	Dy 100	Ho 63	Er 63	Tm 88	Yb 88	Lu 63
** Actinides	Ac	Th 35	Pa	U 63	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	tr

Substitute Performance Excellent 0 10 20 30 40 50 60 70 80 90 100

The periodic table of substitute performance. The results are scaled from 0 to 100, with 0 indicating that exemplary substitutes exist for all major uses and 100 indicating that no substitute with even adequate performance exists for any of the major uses.

Source: Proceedings of the National Academy of Sciences; www.pnas.org/cgi/doi/10.1073/pnas.1312752110

Magnetic Materials Dominate Rare Earth Usage And Play Into TRER Strengths



Source: ResearchInChina- China Rare Earth Industry Report

Volatile REE Prices But... HREEs Still Significantly Higher Than 2009 and Currently on the Upswing

The first point to note about Rare Earths prices is that there is significant variance in the relative market value for selected Rare Earths oxides. Secondly, the price of Rare Earths depends on the purity level, which is largely set by the specifications for each application.

The table below shows the average prices for a 'standard 99% purity of individual elements.

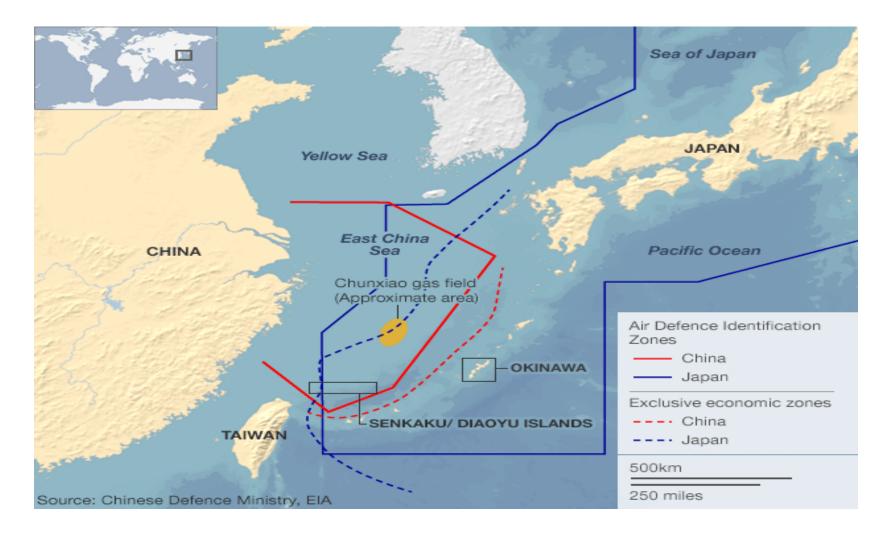
Prices are quoted in US\$/kg on an FOB China and domestic China (the price inside China) basis. The domestic price is related to the FOB price and can be calculated by taking FOB price less VAT, less export taxes (which range for 15% to 25%), the export quota cost; there may be some timing differences between the movements of internal and external China prices.

Note that higher pur	ote that higher purity oxides and other value added properties will attract higher prices than those shown.											
	Rare Earths Prices (US\$/kg)											
Rare Earths Oxide		I	FOB China	Average Pr	ice		China Domestic Average Price					
	2009	2010	2011	2012	Q1/13	Q2/13	2009	2010	2011	2012	Q1/13	Q2/13
Lanthanum Oxide	4.88	22.40	104.10	25.20	11.00	8.42	3.06	4.23	16.26	11.46	7.15	5.43
Cerium Oxide	3.88	21.60	102.00	24.70	11.85	8.49	2.13	3.55	19.58	11.76	7.20	5.44
Neodymium Oxide	19.12	49.50	234.40	123.20	79.15	65.71	11.66	29.28	132.06	74.72	52.64	45.30
Praseodymium Oxide	18.03	48.00	197.30	121.00	85.00	77.64	11.38	27.60	104.60	70.51	58.14	57.91
Samarium Oxide	3.40	14.40	103.40	64.30	25.00	19.36	2.05	2.47	11.85	10.44	7.71	5.88
Dysprosium Oxide	115.67	231.60	1449.80	1035.60	630.00	561.43	80.24	166.48	994.33	620.73	345.35	246.74
Europium Oxide	492.92	559.80	2842.90	2484.80	1600.00	1110.71	351.75	410.42	2025.00	1178.34	838.37	636.24
Terbium Oxide	361.67	557.80	2334.20	2030.80	1300.00	954.29	253.60	388.80	1596.82	949.04	617.81	481.80

Source: http://www.lynascorp.com/Pages/what-are-their-prices.aspx

HRFFs

Recent Events Could Be Setting Up For a 2011 Replay



China Cutting 2014 HREE Exports

No.	Enterprise Name	5.02	h of Quotas 013	First Batch of Quotas 2014		
NO.	Enterprise name	Light rare earth	Middle and heavy rare	Light rare earth	Middle and heavy rare	
	China Minmetals Corporation	856	207	649	163	
1	Incl.: China Minmetals Rare Earth Group Co., Ltd.	710	173	621	122	
	Ganxian Hongjin Rare Earth Co., Ltd.	146	34	28	41	
2	Sinosteel Corporation	495	54	407	36	
3	China National Non-ferrous Metals I/E Corp. Jiangsu Branch	776	166	972	165	
4	Grirem Advanced Materials Co., Ltd.	722	158	974	197	
5	Guangdong Rising Nonferrous Metals Import & Export Co., Ltd.	492	92	547	80	
6	Ganzhou Qiandong Rare Earth Group Co., Ltd.	419	101	543	114	
7	Leshan Shenghe Rare Earth Co., Ltd.	624	69	722	42	
8	Jiangyin Jiahua Advanced Material Resources Co., Ltd.	533	139	475	142	
9	Yixing Xinwei Leeshing Rare Earth Co., Ltd.	576	109	696	136	
	Baotou Iron & Steel (Group) Co., Ltd.	1,696	115	842	33	
	Incl.: Inner Mongolia Baotou Steel Rare-earth (Group) Hi-tech Co., Ltd.	519	34	to be i	reviewed	
10	Inner Mongolia Hefa Rare Earth Science & Technology Development Co.,	421	34	314	8	
	Baotou HUAMEI RE Products Co., Ltd.	545	36	356	17	
	Baotou Tianjiao Seimi Polishing Powder Co., Ltd.	211	11	172	8	
44	Aluminum Corporation of China Limited	413	121	236	92	
11	Incl.: Chinalco Rare Earth (Jiangsu) Co., Ltd.	413	121	236	92	
12	Jiangxi Rare Earth and Rare Metals Tungsten Group Corporation I/E Co.,	475	5	506	3	
13	Gan Zhou Chen Guang Rare Earths New Material Shares Co., Ltd.	518	68	638	62	
14	Yiyang Hongyuan Rare Earth Co., Ltd.	581	25	729	25	
15	Gansu Rare Earth New Material Limited-Liability Company	814	88	1028	61	
16	Shandong Pengyu Industrial Co., Ltd.	422	48	260	30	
17	Xuzhou Jin Shi Pengyuan Rare Earth Materials Factory	550	63	606	64	
18	Guangdong Zhujiang Rare Earths Co., Ltd.	75	38	65	40	
19	Livang Solvay Rare Earth New Materials Co., Ltd.	443	138	504	186	
20	Baotou Solvay Rare Earth Co., Ltd.	1,090	81	1099	97	
21	Huhhot Rongxin New Metal Smelting Co., Ltd.	144	16	135	10	
22	Baotou Santoku Battery Materials Co., Ltd.	164	13	136	7	
23	Zibo Jiahua Advanced Material Resources Co., Ltd.	671	24	540	11	
24	Xi'an Xijun New Materials Co., Ltd.	12	0	5	0	
		13,561	1,938	13,314	1,796	
	Total	100000000	.499	20063-000	,110	

7 2%

What Makes Round Top a National Treasure?

The 6 E's:

extent, exposure, enrichment, extractable, evenness, elements

- Extreme *extent* of the deposit
- Excellent *exposure* and location
- Extraordinary *enrichment* in high-value heavy rare earths
- Unique *extractable* mineralogy
- Remarkable *evenness* of mineralization grade
- Additional high-value non-REE *elements*

Extreme *extent* of deposit creates a long-life project

2013 - TRER 43-101 Preliminary Economic Assessment*

Measured Mineral Resource

Indicated Mineral Resource

Inferred Mineral Resource

TOTAL

Heavy Rare Earth (HREE) Estimate (72%)

133,888,936 kg REOs

173,371,071 kg REOs

218,176,364 kg REOs

525,436,371 kg REOs

378,314,187 kg REOs

China HREE Annual Production

20,000,000-25,000,000 kg REOs

ONLY A SMALL PORTION OF CHINA PRODUCTION GETS EXPORTED!

*PEA Gustavson Associates, anticipated 12/13; See Cautionary Note to Investors REOs = Rare Earth Oxides

SPEED

80

Excellent *exposure* and location, location, location, location allow for excellent economics

- Deposit is mostly above ground, allowing simple "open pit" mining
- Licensing path through STATE not FEDERAL govt.
- Close (3 miles) to US Interstate Highway 10
- Close by Southern Pacific, Missouri Pacific Railroads
- Texas General Land Office property surrounds site – a supportive neighbor/landlord
- Low population density
- Electricity nearby

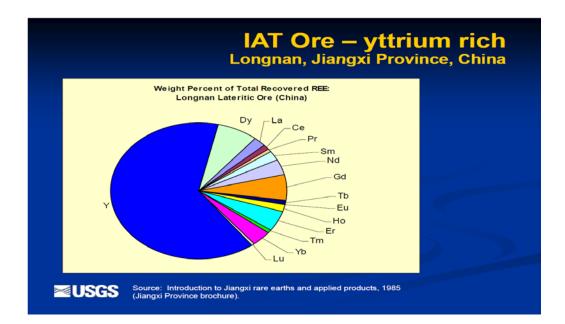


Extraordinary *Enrichment* in Scarce, High-Value HREEs Fills a Void in the Market

- About 72% of REEs *in situ* are heavies (HREEs)*
- Similar grade (concentration) to south China HREE deposits that account for virtually all current HREE production
- HREE enrichment greater than almost all other prospects; only a handful above 25% *in situ*
- Distribution of HREEs and all REEs in the rhyolite estimated to be very homogeneous – no surprises

*includes yttrium

Enrichment Compares Favorably With Chinese



South China Heavy Rare Earth Deposits

90% Heavies - 0.20 – 0.05 % Total Rare Earths in Ore – Rare Earths "Stuck" on Clay World's only significant source of heavy rare earths

VS.

Round Top Mountain

72% Heavies - 0.05 % Total Rare Earths in Ore – Rare Earths in Yttrofluorite in Rhyolite Western World's future source of heavy rare earths?

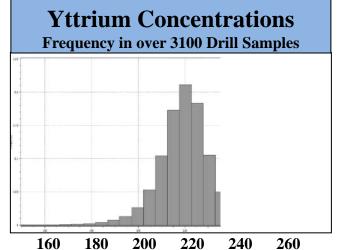
Unique *Extractable* Mineralogy Leads to Potential Low Cost Heap Leach Processing

- **Yttrofluorite** The mineral fluorite, with yttrium and heavy rare earths substituting for some calcium atoms
- Unique We found no other deposit in the world in which yttrofluorite is the major rare earth ore mineral
- Potential low-cost extraction
 Dilute sulfuric acid
 dissolves yttrofluorite
 at room temperature
- Bulk rock is 90-95% quartz & feldspars that don't dissolve



Remarkable *Evenness* of Ore Grade Leads to Potential Low Cost Processing

- Top pay mineral yttrofluorite estimated to be distributed evenly in deposit
- *Rock properties homogeneous* (physical, mechanical, chemical)
- Why is an even ore grade important?



Y Parts Per Million

Even ore grade means *reduced risk of surprises*

Economics easy to predict due to consistency

Ore grade & mine feedstock constant over life of mine

Mining process optimized just once

REE separation chemistry can be optimized

NON REE REVENUE OPPORTUNITY:

Uranium Resource NOT Included in PEA Provides Potential Significant Upside Revenue

2013 PEA Defines U Resource* but EXCLUDES P&L Impact:

Measured:	11,223,270 kg Oxide
Indicated:	14,350,091 kg Oxide
Inferred:	18,202,960 kg Oxide

Total: 43,776,321 kg Oxide

London Metals Exchange U Oxide Closing Price (11/29/13): \$79.91 kg

TRER plans to include the potentially significant financial impact of the Uranium resource in future economic analyses.

NON REE REVENUE OPPORTUNITY Significant Lithium and Beryllium Independent Column Leach Test Results

Lithium Metal:

Ore Grade: 400 ppm Extraction: 58.5% Beryllium Metal:

Ore Grade: 19 ppm Extraction: 9.7%

PEA 20,000 TPD* Operation

Potential Li Carbonate: 9,000 TPY**

Potential Be Oxide: 36 TPY

Current Commodity Pricing

Lithium Carbonate: \$5500/ton

Source: Metal Pages

Be Oxide: \$374,000/ton

Source: Shanghai Metals Market

USGS 2012 World Mine Production Estimate: Lithium Carbonate: 37,000 Tons Beryllium Oxide: 230 Tons

TRER plans to include the potentially significant financial impact of the Lithium and Beryllium in future economic analyses.

*TPD= Tons/Day **TPY= Tons/Year

Academic Publications Enhance Credibility With Strategic Partners and Investors

• Journal of Rare Earths

Title: Round Top Mountain rhyolite (Texas, USA), a massive, unique Y-bearing-fluorite hosted heavy rare earth element (HREE) deposit

Authors: Nicholas E. Pingitore, Juan W. Clague, Dan Gorski

Date: **Peer-reviewed full article**: Volume 31, Issue 1, Jan. 2014 The Journal of Rare Earths is owned by the Chinese Society of Rare Earths, and published by academic journal giant Elsevier

• American Geophysical Union

Title: A Unique Yttrofluorite-Hosted Giant Heavy Rare Earth Deposit: Round Top Mountain, Hudspeth County, Texas, USA

Authors:Nicholas E. Pingitore, Juan W. Clague, Dan GorskiDate:Abstract, and presentation:Wednesday, December 11, 2013

• Geological Society of America

Title: Round Top Mountain, Texas, Laccolith Can Be a Reliable Source of HREE for US Industry and Defense

Authors: Philip C. Goodell, Amed Gomez, Nicole Kyger, Geological Sciences, University of Texas at El Paso

Date: Abstract, and presentation: Tuesday, October 29, 2013

• American Geophysical Union

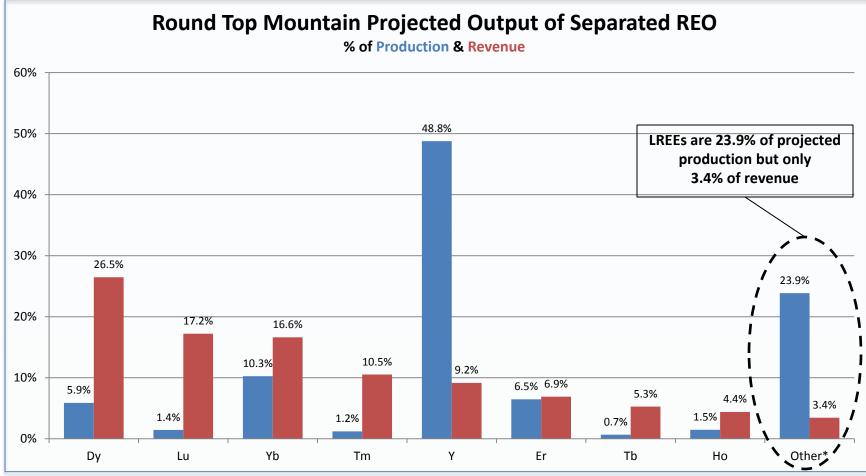
Title:Fluorescein Dye Penetration in Round Top Rhyolite (Hudspeth County, Texas, USA) to
Reveal Micro-Permeability and Optimize Grain Size for Heavy REE Heap Leach

Authors: Lorraine M. Negron, Juan W. Clague, Dan Gorski, Maria A. Amaya, Nicholas Pingitore Date: Abstract, and presentation: Monday, December 9, 2013

Preliminary Economic Assessment (PEA) December 2013 Highlights**

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TRER Revenue Breakdown from 2013 PEA** *Dominated by HREEs and CREOs*



*Other includes Nd, Pr,Ce,Sm,La,Eu **See Cautionary Note to Investors

December 2013 PEA Net Operating Margin**

Description		\$/mined ton
Total Revenue		\$53.81
Total Direct Cash Operating Costs	* (\$15.15)	
Royalty	(\$3.34)	
Total Cash Costs		(\$18.49)
Net Operating Margin		\$35.42
Margin (%)		66%

*Includes 10% Contingency **See Cautionary Note to Investors

NON REE REVENUE OPPORTUNITY

Separate World-Class Beryllium Deposit Below Base of Round Top Mountain

- *High grade mineralization* 300,000 tons at 2% BeO *
- 5,500 tons BeO; 230 tpy world production, 85% US
- Materion, world Be leader, thought to mine 1% BeO ore at Spor Mountain.
- 1988 Cyprus mine plan
- 867' long, 10'x10' decline with vent fan & services in place (still usable)



TRER AIMS TO MONETIZE ITS WORLD-CLASS BERYLLIUM DEPOSIT

*See Cautionary Note to Investors

Significant Undervaluation Relative to North American Peers Creates Potential Opportunity

Name	Symbol	Market Cap (\$mm)	Project Location	Capex (\$mm)
Texas Rare Earth Resources	TRER	17	USA- Texas- State Property	293
Quest Rare Minerals	QRM (TSE)	35	Canada- Northern Quebec	2,565
Ucore Rare Metals	UCU (TSE)	75	USA-Alaska- Federal Property	221
Avalon Rare Metals	AVL (TSE)	69	Canada- Northwest Territory	1,575
Rare Element Resources	REE (TSE)	74	USA- Wyoming-Federal Property	404
US Rare Earths	UREE (OTCQX)	83	USA- Idaho/Montana- Federal Property	?

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