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Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA

Energy Fuels Inc.

SLR Project No: 138.02544.00006

Effective Date: December 31, 2022

Signature Date: February 23, 2023

Prepared by: SLR International Corporation

Qualified Persons:

Mark Mathisen, CPG R. Dennis Bergen, P.Eng. Jeffrey Woods, MMSA, QP Lee (Pat) Gochnour, MMSA QP Grant Malensek, M.Eng., P.Eng.





Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA

SLR Project No: 138.02544.00006

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1.0 SUMMARY

1.1 Executive Summary

SLR International Corporation (SLR) was retained by Energy Fuels Inc. (Energy Fuels), the parent company of Energy Fuels Resources (USA) Inc. (EFR), to prepare a Technical Report on the Pre-Feasibility Study (PFS) with respect to the Pinyon Plain Project (Pinyon Plain or the Project), located in Coconino County, Arizona, USA. EFR owns 100% of the Project.

EFR's parent company, Energy Fuels Inc., is incorporated in Ontario, Canada. EFR is a US-based uranium and vanadium exploration and mine development company with projects located in the states of Colorado, Utah, Arizona, Wyoming, Texas, and New Mexico. EFR is listed on the NYSE American Stock Exchange (symbol: UUUU) and the Toronto Stock Exchange (symbol: EFR).

This Technical Report satisfies the requirements of Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects (NI 43-101) and the United States Securities and Exchange Commission's (SEC) Modernized Property Disclosure Requirements for Mining Registrants as described in Subpart 229.1300 of Regulation S-K, Disclosure by Registrants Engaged in Mining Operations (S-K 1300) and Item 601 (b)(96) Technical Report Summary. The purpose of this Technical Report is to disclose the results of a PFS for the Project.

The Project is a uranium and copper breccia pipe deposit in northern Arizona. The Project is permitted and has a 1,470 ft deep shaft, headframe, hoist, compressor, and surface facilities including line power. The Project is currently being developed in preparation for production. Environmental compliance activities continue with all infrastructure for mine development in place. EFR envisages this as a mechanized mining underground operation in which the mineralized material will be hoisted to surface and then trucked to a mill for processing based on a toll milling agreement.

Energy Fuels plans to operate the mine at a rate of up to 292 short tons per day (stpd) of ore, averaging 143 stpd of ore. The mine life extends for a total of 28 months. The life of mine plan includes mining 134,500 tons of ore grading $0.58\% U_3O_8$, yielding 1.57 million pounds (Mlb) of U_3O_8 . Process recovery is estimated to be 96% to produce 1.51 Mlb of U_3O_8 . There are additional Mineral Resources at depth below the Mineral Reserves in the current mine plan.

1.1.1 Conclusions

SLR offers the following interpretations and conclusions on the Project:

1.1.1.1 Geology and Mineral Resources

- Mineral Resources have been classified in accordance with the definitions for Mineral Resources in S-K 1300, which are consistent with Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Definition Standards for Mineral Resources and Mineral Reserves dated May 10, 2014 (CIM, 2014) definitions which are incorporated by reference in NI 43-101.
- In the SLR QP's opinion, the assumptions, parameters, and methodology used for the Pinyon Plain Mineral Resource estimate is appropriate for the style of mineralization and mining methods.
- The SLR QP is of the opinion the block models are adequate for public disclosure and to support mining activities. The effective date of the Mineral Resource estimate is December 31, 2022.

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 Mineral Resource estimates exclude previously reported uranium mineralization from the Cap and Upper zones as a condition of current Arizona Department of Environmental Quality (ADEQ) Aquifer Protection Permit which limits mining between the elevations of 5,340 ft and 4,508 ft.

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- Mineral Resources are based on a \$65/lb uranium price at an equivalent uranium (% eU₃O₈, referring to radiometric logs converted to grades) cut-off grade of 0.30% based on a combination of longhole stoping, shrinkage stoping, and drifting underground mining methods; mineralized material from the Project will be trucked 320 miles to the White Mesa Mill located near Blanding, Utah. Development rock will be temporarily stored on surface, then will be used at the end of mining to fill the voids created by mining the breccia pipe and the developed shafts.
- Indicated uranium Mineral Resources total 37,000 tons at an average grade of 0.95% eU₃O₈ for a total of 703,000 lb U₃O₈. Inferred Mineral Resources total 5,000 tons at an average grade of 0.50% eU₃O₈ for a total of 48,000 lb U₃O₈.

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- Sampling and assaying procedures have been adequately completed and carried out using industry standard quality assurance/quality control (QA/QC) practices. These practices include, but are not limited to, sampling, assaying, chain of custody of the samples, sample storage, use of third-party laboratories, standards, blanks, and duplicates.
- The SLR QP considers the estimation procedures employed at Pinyon Plain, including compositing, top-cutting, variography, block model construction, and interpolation to be reasonable and in line with industry standard practice.
- The SLR QP finds the classification criteria to be reasonable.

1.1.1.2 Mining and Mineral Reserves

- Mineral Reserve estimates, as prepared by EFR and reviewed and accepted by SLR, have been classified in accordance with the definitions for Mineral Reserves in S-K 1300 which are consistent with CIM (2014) definitions which are incorporated by reference in NI 43-101.
- The Proven and Probable Mineral Reserve estimate is 134,500 tons grading 0.58% U₃O₈ containing 1.57 Mlb of U₃O₈ and is comprised of 7,800 tons grading 0.33% U₃O₈ of Proven Mineral Reserves containing 0.05 Mlb of U₃O₈ plus 136,700 tons grading 0.60% U₃O₈ of Probable Mineral Reserves containing 1.52 Mlb of U₃O₈
- The Mineral Reserves are based upon a cut-off grade of 0.32% U₃O₈.
- Mineral Reserves were estimated based on stope designs utilizing a mine planning software within a 0.15% U₃O₈ wireframe.
- The Mineral Reserves include 35% dilution at zero grade.
- Measured Mineral Resources were converted to Proven Mineral Reserves and Probable Mineral Resources were converted to Probable Mineral Reserves.
- No Inferred Mineral Resources were converted into Mineral Reserves.
- The existing shaft will be used for the mine access and rock hoisting.
- The ore will be mined using longhole stoping for the majority of the ore and breasting of roofs and/or ribs for narrow mineralized zones.
- · Ore will be mucked and hauled by load-haul-dump (LHD) loaders to a grizzly over the loading pocket feed.
- A ventilation raise will be bored in the centre of the orebody to provide an exhaust airway and emergency egress.

The SLR QP is not aware of any mining, metallurgical, infrastructure, permitting, or other relevant factors that could materially affect the Mineral Reserve estimate.

1.1.1.3 Mineral Processing

There is sufficient metallurgical testing to support a uranium process recovery of 96% at the White Mesa Mill.

1.1.1.4 Infrastructure

There is suitable existing or planned infrastructure to support the planned operations.

1.1.1.5 Environment

- EFR has secured all of the permits required to construct, operate, and close the Pinyon Plain Project.
 - o Some permits require regular update/renewal.
 - o These permits involved significant public participation opportunity.
- Financial assurance is in place to guarantee all reclamation will occur. This amount will be reviewed on a regular basis (at least every five years) to cover any changes at site and/or for any inflationary issue(s).

1.1.2 Recommendations

SLR offers the following recommendations regarding the advancement of the Project.

1.1.2.1 Geology and Mineral Resources

1. Convert Inferred Mineral Resources to Indicated Mineral Resources within the Main-Lower and Juniper zones by completing underground delineation drilling program per the estimated budget shown in Table 1-1.

Table 1-1:2023 Proposed Underground Drilling Budget for Main-Lower and Juniper Zones Energy Fuels Inc. - Pinyon Plain Project

Category	Number of Drill	Total Feet	Unit Cost	Budget
	Holes/Assay	Drilled	(US\$/ft)	(US\$)
Underground Delineation Drilling	45	11,250	31.00	349,000

1.1.2.2 Mining and Mineral Reserves

- 1. Continue preproduction development and preparations for production.
- 2. Develop grade control and production reconciliation procedures.
- 3. Develop a program of monitoring the geotechnical conditions in the stopes and development headings.

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1-3



- 4. Monitor the water inflow rate of the ventilation raise pilot hole.
- 5. Prepare contingency plans for mine dewatering in the event that the ventilation raise encounters a water bearing strata.
- 6. Prepare contingency plans for additional dewatering due to water inflow to the ventilation raise.

Select the ventilation raise contractor and confirm the schedule for the work.

7. Secure contractor proposals for the ventilation raise development and prepare for development.

1.1.2.3 Mineral Processing

1. Investigate processing the copper.

1.1.2.4 Infrastructure

None

1.1.2.5 Environment

- 1. Consider development of an environmental management system that lists environmental roles and responsibilities of site personnel, permit conditions, and monitoring requirements for use should someone else unfamiliar with environmental matters have to perform them.
- 2. Establish a reclamation revegetation test plot program to ensure species selected will work at the site.

1.2 Economic Analysis

An after-tax Cash Flow Projection has been generated from the Life of Mine production schedule and capital and operating cost estimates, as summarized in Table 1-2. A summary of the key criteria is provided below.

1.2.1 Economic Criteria

1.2.1.1 Revenue

- Total mill feed processed: 134 thousand tons
- Average processing rate: 216 stpd (steady state)
- U₃O₈ head grade: 0.58%
- Average mill recovery: 96%
- Recovered U₃O₈: 1.51 Mlb
- Metal price: \$60/lb U₃O₈
- Yellowcake product trucking cost from the toll mill to customer: \$0.175/lb U₃O₈

1.2.1.2 Capital and Operating Costs

- · Pre-production period: Four months
- Mine life: 24 months
- · LOM capital costs, excluding reclamation, of \$8.7 million on Q4 2022 US dollar basis

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LOM operating cost (excluding royalties but including severance taxes) of \$50.5 million or \$372/ton milled on Q4 2022 US dollar basis

1.2.1.3 Royalties and Severance Taxes

A 3.5% private royalty is payable for the Project based on sliding scale of the value of production expressed in lb/t along with allowances for mining and ore hauling. The royalty payments over the mine life are approximately \$1.88/t ore.

Arizona has a severance tax that is 2.5% of the net severance base, which is 50% of the difference between the gross value of production (revenue) and the production costs. Thus, a rate of 1.25% is used to reflect this 50% base reduction. The Arizona severance tax payable to the Project is estimated at \$3.70/t ore during LOM.

1.2.1.4 Income Taxes

EFR states it is not liable for corporate income tax (CIT) expenditures as a corporation, including the period that the Project is expected to operate. In addition, the short mine life of 24 months makes an estimate of income tax payable using a standard tax methodology difficult. Therefore, a proforma CIT estimate was added with the assumption that the Project was a stand-alone entity for tax purposes and does not reflect the company's actual filing position with following assumptions:

A Federal income tax rate of 10.5% is used in this analysis. This rate takes into account the percentage depletion deduction which allows profitable mining companies to reduce their taxable income by 50% and then the remaining amount is taxed at the current Federal tax rate of 21% so that the net rate is 10.5%.

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- The Arizona state income tax rate is 4.9% so the combined Federal and state rate is 15.4%%
- The tax amounts may be negative some months as the pre-tax cash flow dips below zero. However, as taxable income is computed on an annual basis and as the annual amounts for the first 24 months are all positive, the sum of the monthly tax amounts will be positive. In the remaining 24 months after the mine ceases operation, there are negative cash flows which can be carried back to profitable years to receive a tax refund. Thus, the project total income tax is the pre-tax cash flow x 15.4%.

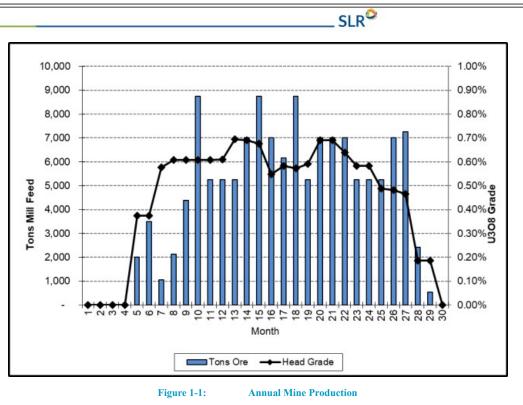
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• CIT payable for LOM totals \$6.0 million.

1.2.2 Cash Flow Analysis

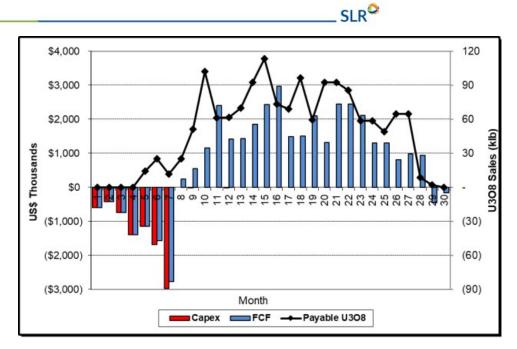
The Project production schedule is presented in Figure 1-1 and the resulting after-tax free cash flow profile is shown in Figure 1-2.

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Figure 1-2: After-Tax Metrics Summary

Table 1-2 presents a summary of the Project economics at an average U_3O_8 price of \$60.00/lb. The full annual cash flow model is presented in Appendix 1.

On a pre-tax basis, the undiscounted cash flow totals \$28.9 million over the mine life. The pre-tax Net Present Value (NPV) at a 5% discount rate is \$26.5 million and the Internal Rate of Return (IRR) is 14%.

On an after-tax basis, the undiscounted cash flow totals \$22.8 million over the mine life. The after-tax NPV at 5% discount rate is \$20.9 million and the IRR is 12%.

LOM Project cost metrics are as follows:

- Cash Operating Costs: \$33.91/lb U₃O₈
- All-in Sustaining Costs: \$34.84/lb U₃O₈
- All-in Costs: \$40.81/lb U₃O₈

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Item	Unit	Value
U ₃ O ₈ Price	\$/lb	\$60.00
U_3O_8 Sales	klb	1,505
Total Gross Revenue	US\$ 000	90,300
Product Transport to Market	US\$ 000	(263)
Royalties	US\$ 000	(253)
Total Net Revenue	US\$ 000	89,783
Mining Cost	US\$ 000	(13,581)
Ore Trucking Cost	US\$ 000	(9,681)
Process Cost	US\$ 000	(25,817)
G & A Cost	US\$ 000	(941)
Severance Tax	US\$ 000	(497)
Total Operating Costs	US\$ 000	(50,518)
Operating Margin	US\$ 000	39,266
Corporate Income Tax	US\$ 000	(6,046)
Working Capital	US\$ 000	0
Operating Cash Flow	US\$ 000	33,220
Development Capital	US\$ 000	(8,748)
Closure/Reclamation Capital	US\$ 000	(1,145)
Total Capital	US\$ 000	(10,155)
Pre-tax Free Cash Flow	US\$ 000	29,110
Pre-tax NPV @ 5%	US\$ 000	26,682
Pre-tax NPV @ 8%	US\$ 000	25,318
Pre-tax NPV @ 12%	US\$ 000	23,602
Pre-tax IRR	%	14%
After-tax Free Cash Flow	US\$ 000	23,064
After-tax NPV @ 5%	US\$ 000	21,072
After-tax NPV @ 8%	US\$ 000	19,954
After-tax NPV @ 12%	US\$ 000	18,545
After-tax IRR	%	12%

 Table 1-2: After-Tax Cash Flow Summary

 Energy Fuels Inc. - Pinyon Plain Project

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Item	Unit	Value	
Cash Operating Costs	\$/1 U ₃ O ₈	33.91	
All-in Sustaining Costs	\$/1 U ₃ O ₈	34.84	
All-in Costs	\$/1 U ₃ O ₈	40.66	

1.2.3 Sensitivity Analysis

Project risks can be identified in both economic and non-economic terms. Key economic risks were examined by running cash flow sensitivities calculated over a range of variations based on realistic fluctuations within the listed factors:

U₃O₈ price: 10% increments between \$51/lb and \$76/lb

- Head grade: -/+ 20%
- Recovery: -20%/+4% (96% is base case already)
- Operating cost per ton milled: -10% to 25% (AACE Class 3 range)
- Capital cost: -10% to 25% (AACE Class 3 range)

The after-tax cash flow sensitivities for the base case are shown in Table 1-3, Figure 1-3, and Figure 1-4. The Project is most sensitive to head grade, uranium price, and recovery, and only slightly less sensitive to operating cost and capital cost at a Class 3 accuracy level. The sensitivities to metallurgical recovery, head grade, and metal price are nearly identical.

Table 1-3: After-tax Sensitivity Analysis **Energy Fuels Inc. - Pinyon Plain Project** U₃O₈ Price NPV at 5% IRR **Factor Change** (US\$ 000) (US\$/lb) (%) 0.80 \$48 \$6,996 6% 0.90 \$54 \$14,034 9% 1.00 \$60 \$21,072 12% 15% 1.10 \$66 \$28,111 1.20 \$72 \$35,149 17% Head Grade NPV at 5% IRR Factor Change (% U₃O₈) (US\$ 000) (%) 6% 0.80 0.47% \$7,066 0.90 0.52% \$14,072 10% 1.00 0.58% \$21,072 12% 1.10 0.64% \$28,074 15% 1.20 0.70% \$35,073 17%

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Factor Change	Metallurgical Recovery (%)	NPV at 5% (US\$ 000)	IRR (%)
0.80	77%	\$7,037	6%
0.90	86%	\$14,055	10%
1.00	96%	\$21,072	12%
1.03	98%	\$22,827	13%
1.04	100%	\$23,879	13%
Factor Change	Operating Costs	NPV at 5%	IRR
Factor Change	(US\$/ton milled)	(US\$ 000)	(%)
0.90	\$45,019	\$24,988	14%
0.95	\$47,520	\$23,030	13%
1.00	\$50,021	\$21,072	12%
1.13	\$56,273	\$16,178	10%
1.25	\$62,526	\$11,284	8%
Factor Change	Capital Costs (US\$ M)	NPV at 5% (US\$ 000)	IRR (%)
0.90	\$9,481	\$21,928	13%
0.90	\$9,930	\$21,528	13%
1.00	\$10,378	\$21,000	1370
1.13	\$11,500	\$20,002	1270
1.13	\$12,621	\$18,932	10%

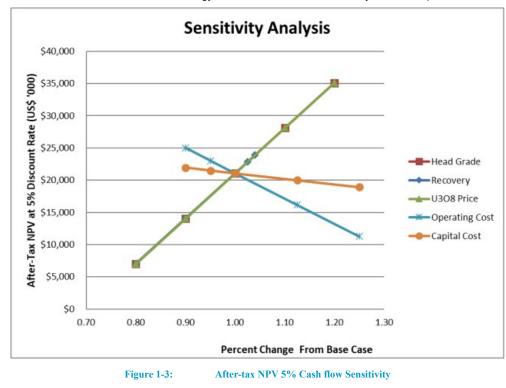
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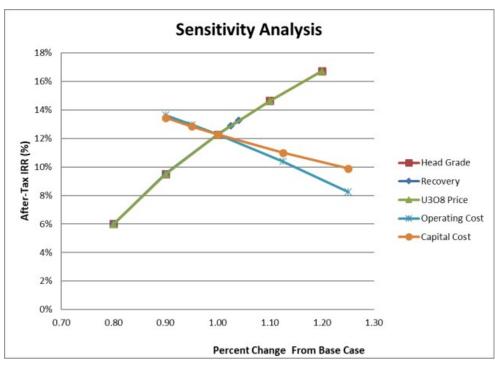
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1.3 Technical Summary

1.3.1 Property Description and Location

The Project is a fully permitted underground uranium and copper deposit in northern Arizona, located on a 17-acre site within the Kaibab National Forest. It is situated 153 mi north of Phoenix, 86 mi northwest of Flagstaff, and seven miles southeast of Tusayan, in Sections 19 and 20, Township 29 North, Range 03 East, Gila and Salt River Meridian (GSRM), Coconino County, Arizona. The Project is located on the Coconino Plateau within the Colorado Plateau, at an elevation of approximately 6,500 feet above sea level (ft ASL).

1.3.2 Land Tenure

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EFR's property position at the Project consists of nine unpatented mining claims (Canyon 64-66, 74-76, and 84-86), located on USFS land, encompassing approximately 186 acres. EFR acquired the Project in June 2012 and has a 100% interest in the claims. The Project is located at latitude 35°52'58.65" N and longitude 112° 5'47.05" W. All claims are in good standing until September 1, 2023.

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1.3.3 Existing Infrastructure

Existing infrastructure includes a shaft, headframe, hoist, compressor, surface maintenance shops, employee offices, a water well, evaporation pond, water treatment plant, rock stockpile pads, water tanks and a fuel tank. An existing power line terminates at the site.

1.3.4 History

Uranium exploration and mining of breccia pipe deposits started in the region in 1951.

The Project is located on mining claims held by EFR, a wholly owned subsidiary of EFR Arizona Strip LLC. These mining claims were originally staked by Gulf Mineral Resources (Gulf) in April 1978, who have maintained a royalty on the property through various changes in ownership. The exploration and development carried out by the previous owners included surface and underground drilling, developing a deep water well, and constructing a 1,470 ft deep mine shaft and conveyances for underground exploration which are currently operational.

No past production has occurred at the Project.

1.3.5 Geology and Mineralization

Parts of two distant physiographic provinces are found in Arizona: the Basin and Range Province located in the southern portion of the state; and the Colorado Plateau Province located across the northern and central portions of the state. Pinyon Plain lies within the Colorado Plateau Province.

The region has experienced volcanic activity since the Pliocene epoch. A number of lava-capped buttes rise above the general landscape, and lava flows cover large areas in the southern part of the district. Faulting has exerted significant control on the geologic development and geomorphic history of the region. Major structural features include the Grand Wash, Hurricane, and Toroweap fault systems, all trending generally north-south with an eastern up-thrown side. These faults are topographically prominent and show impressive scarps though other less prominent fault systems exist.

The surface expression of the Pinyon Plain breccia pipe is a broad shallow depression in the Permian Kaibab Formation. The pipe is essentially vertical with an average diameter of less than 200 ft but is considerably narrower through the Coconino and Hermit horizons (80 ft in diameter). The cross-sectional area is in the order of 20,000 ft² to 25,000 ft². The pipe extends for at least 2,300 ft vertically from the Toroweap limestone to the upper Redwall horizons. The ultimate depth of the pipe is unknown. Uranium mineralization is concentrated in an annular ring within the breccia pipe.

Mineralization extends vertically both inside and outside the pipe over approximately 1,700 vertical ft, but potentially economic grade mineralization has been found mainly in the collapsed portions of the Coconino, Hermit, and Esplanade horizons and at the margins of the pipe in fracture zones. Sulfide zones are found scattered throughout the pipe but are especially concentrated in a sulfide cap near the Toroweap-Coconino contact, where the cap averages 20 ft in thickness and consists of pyrite and bravoite, an iron-nickel sulfide. The mineralization assemblage consists of uranium-pyrite-hematite with massive copper sulfide mineralization common in and near the uranium zone. The strongest mineralization appears to occur in the lower Hermit-upper Esplanade horizons in an annular fracture zone.

In the mineralized zone, the uranium mineralization occurs largely as blebs, streaks, small veins, and fine disseminations of uraninite/pitchblende (UO2). Mineralization is mainly confined to matrix material, but may extend into clasts and larger breccia fragments, particularly where these fragments are Coconino sandstone. In addition to uranium, copper mineralization is also found within the breccia pipe. Typically replacing the matrix material, copper occurs as chalcocite, bornite, tennantite, and covellite. Arsenic is present where tennantite mineralization occurs. Additionally, lower quantities of silver, zinc, lead, molybdenum, copper, nickel, and vanadium are present and scattered throughout the pipe.

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1.3.6 Exploration Status

Gulf drilled eight exploration holes at the site from 1978 through May 1982 but found only low-grade uranium in this pipe. Additional drilling completed by EFNI in 1983 identified a major deposit. No drilling activity was completed on the Project between EFNI's final drill program in 1994 and EFR's underground drilling program in 2016 to 2017.

1.3.7 Mineral Resources

Mineral Resources have been classified in accordance with the definitions for Mineral Resources in S-K 1300, which are consistent with Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Definition Standards for Mineral Resources and Mineral Reserves dated May 10, 2014 (CIM, 2014) definitions which are incorporated by reference in NI 43-101.

The Project resource database, dated June 17, 2017, includes drilling results from 1978 to 2017 and includes surveyed drill hole collar locations (including dip and azimuth), assay, radiometric probe, and lithology data from 130 diamond drill holes totalling 79,775 ft of drilling.

A geologic and resource model of the breccia pipe host was constructed based on drill logs. Mineralization wireframes for U_3O_8 were based on assays at a nominal cut-off grade of 0.15%. Low and high grade copper wireframes were based on nominal cut-off grades of 1% and 8%, respectively.

The previously reported Mineral Resources estimate with an effective date of December 31, 2021 (SLR, 2022) disclosed both uranium and copper Mineral Resources in the Main and Main-Lower zones. Copper processing adds significantly higher milling costs and thus a higher equivalent uranium cut-off grade was used to report resources at the

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Main-Lower and Juniper zones. EFR has not included copper in the Mineral Reserve estimate but could add a copper circuit to the mill in the future. As a result, uranium and copper mineralization are now reported separately in this updated Mineral Resource. In addition, the following are important changes in the reporting of Mineral Resources:

- All previously reported uranium Mineral Resources in the Main Zone have been converted into Mineral Reserves (Section 15).
- In 2022, EFR moved from a General Aquifer Protection Permit to an Individual Aquifer Protection Permit with ADEQ. In an effort to protect the perched aquifer in the Coconino sandstone, ADEQ requested and EFR agreed to limit mining between the elevations of 5,340 feet above sea level (ft ASL) and 4,508 ft ASL. As a result, this updated Mineral Resource report excludes previously reported uranium mineralization from the Cap and Upper zones.

Table 1-4 summarizes uranium Mineral Resources based on a 65/lb uranium price at an equivalent uranium cut-off grade 0.30% eU₃O₈ for the Main-Lower and Juniper zones with an effective date of December 31, 2022. The resources stated in this report supersede any previous Mineral Resources reported for the Project.

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Table 1-4: Summary of Attributable Uranium Mineral Resources - Effective Date December 31, 2022 Energy Fuels Inc. - Pinyon Plain Project

Classification	Zone	Cut-Off Grade	Tonnage	Grade	Contained Metal	Metallurgical Recovery U ₃ O ₈
		(% eU ₃ O ₈)	(tons)	(% eU ₃ O ₈)	(lb U ₃ O ₈)	(%)
Indicated	Juniper I	0.3	37,000	0.95	703,000	96
Total Indicated	*		37,000	0.95	703,000	96
	Main-Lower	0.3	2,000	0.48	16,000	96
Inferred	Juniper I	0.3	2,000	0.58	24,000	96
	Juniper II	0.3	1,000	0.36	8,000	96
Total Inferred	*		5,000	0.50	48,000	96

Notes:

1. SEC S-K-1300 definitions were followed for all Mineral Resource categories. These definitions are also consistent with CIM (2014) definitions in NI 43-101.

2. Mineral Resources are estimated at 0.30% eU₃O₈ with an estimated metallurgical recovery of 96% for uranium.

- 3. Mineral Resources are estimated using a long-term uranium price of US\$65 per pound
- 4. No minimum mining width was used in determining Mineral Resources.
- 5. Bulk density is 0.082 ton/ft^3 (12.2 ft³/ton or 2.63 t/m³).
- 6. Mineral Resources are exclusive of Mineral Reserves and do not have demonstrated economic viability.

7. Numbers may not add due to rounding.

8. Mineral Resources are 100% attributable to EFR and are in situ.

Table 1-5 lists copper Mineral Resource associated with the Main and Main-Lower zones at Pinyon Plain. Further study is required to determine if the copper associated with uranium mineralization in the zones may eventually be processed and add value to the project.

Table 1-5: Summary of Attributable Copper Mineral Resources - Effective Date December 31, 2022 Energy Fuels Inc. - Pinyon Plain Project

Classification	Zone	Cut-Off Grade	Tonnage	Grade	Contained Metal	Metallurgical Recovery Cu
		(% U ₃ O ₈ Eq)	(tons)	(% Cu)	(lb Cu)	(%)
Measured	Main	0.4	6,000	9.6	1,155,000	90
Indicated	Main	0.4	90,000	5.9	10,553,000	90
Total Measured + Indicated			96,000	6.1	11,708,000	90
Inferred	Main- Lower	0.4	4,000	6.5	470,000	90

Notes:

1. SEC S-K-1300 definitions were followed for all Mineral Resource categories. These definitions are also consistent with CIM (2014) definitions in NI 43-101.

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- For the Main and Main-Lower zones of the Pinyon Plain Project, a 0.40% uranium equivalent cut-off grade (% U₃O₈ Eq) was applied to account for both the copper and uranium mineralization. The %U₃O₈ Eq grade term is not the same as the eU₃O₈ % grade term which indicates probe rather than assay data listed elsewhere in this report.
- 3. Mineral Resources are estimated using a long-term uranium price of \$65 per pound and a copper price of \$4.00 per lb.
- 4. A copper to U₃O₈ conversion factor of 18.19 was used for converting copper grades to equivalent U₃O₈ grades (U₃O₈ Eq) for cut-off grade evaluation and reporting.
- 5. For the Pinyon Plain Project, Mineral Resource tonnages of uranium and copper cannot be added as they overlap in the Main and Main-Lower zones.
- 6. No minimum mining width was used in determining Mineral Resources.
- 7. Bulk density is 0.082 ton/ft^3 (12.2 ft³/ton or 2.63 t/m³).
- 8. Mineral Resources are exclusive of Mineral Reserves and do not have demonstrated economic viability.
- 9. Numbers may not add due to rounding.

10. Mineral Resources are 100% attributable to EFR and are in situ.

The SLR QP is of the opinion that with consideration of the recommendations summarized in Section 1 and Section 26, any issues relating to all relevant technical and economic factors likely to influence the prospect of economic extraction can be resolved with further work.

The SLR QP is of the opinion that there are no other known environmental, permitting, legal, social, or other factors that would affect the development of the Mineral Resources.

While the estimate of uranium and copper Mineral Resources is based on the SLR QP's judgment that there are reasonable prospects for economic extraction, no assurance can be given that Mineral Resources will eventually convert to Mineral Reserves.

1.3.8 Mineral Reserves

Mineral Reserve estimates for Pinyon Plain are based on the Mineral Resources as of December 31, 2022, and a mine design including modifying factors such as stope shapes and sizes, external dilution, and mining extraction factors. Table 1-6 summarizes the estimated Mineral Reserves. Mineral Resource to Mineral Reserve conversion was 100% within the Main zone based on the stopes within the mine design, with the remaining zones (Main-Lower and Juniper) not considered for inclusion as Mineral Reserves.

The proposed mining methods at Pinyon Plain, similar to other past producing breccia pipe deposits in northern Arizona, includes a combination of longhole stoping, shrinkage stoping, and drifting. Development rock, temporarily stockpiled on surface, will be used to fill the stope voids and shafts after mining is complete. Metallurgical test results provided by White Mesa Mill laboratory personnel indicated that metallurgical recoveries using optimum roasting and leach conditions will be approximately 96% for uranium.

An underground mine design completed by EFR for U_3O_8 mineralization only was based on assays at a nominal cut-off grade envelope grading 0.15% U_3O_8 . The breakeven cut-off grade is 0.32% U_3O_8 . Production is based on underground mining methods and processing via a toll milling agreement.

Copper mineralization at the site has been excluded from the Mineral Reserve estimates.

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Table 1-6: Summary of Estimated Mineral Reserves - December 31, 2022 Energy Fuels Inc. - Pinyon Plain Project

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Classification	Cut-Off Grade	Tonnage	Grade	Contained Metal	Metallurgical Recovery U ₃ O ₈
	(% U ₃ O ₈)	(tons)	(% eU ₃ O ₈)	(lb U ₃ O ₈)	(%)
		Main Zone			
Proven	0.32	7,800	0.33	50,800	96
Probable	0.32	126,700	0.60	1,517,000	96
Total Proven + Probable		134,500	0.58	1,567,800	96

Notes:

- 1. CIM (2014) definitions were followed for Mineral Reserves.
- 2. Mineral Reserves are estimated using a long-term uranium price of US\$60.00 per pound.
- 3. Underground Mineral Reserves were estimated by creating stope shapes. The stope shapes were created using a grade envelope of 0.15% U₃O₈, with a minimum mining width of 5 ft (including hanging wall and footwall dilution), on 10 ft vertical stope heights.
- 4. The breakeven cut-off grade is $0.32\% U_3O_8$,
- 5. A mining extraction factor of 95% was applied to the underground stopes, while underground development assumed a 100% mining extraction factor.
- 6. Mining Reserves are in situ.
- 7. The density varies according to the block model.
- 8. Numbers may not add due to rounding.

The SLR QP is not aware of any mining, metallurgical, infrastructure, permitting, or other relevant factors that could materially affect the Mineral Reserve estimate.

1.3.9 Mining Method

Mineralization is found in fractures which range from single high grade structures to intersections forming large zones; several mining methods will be employed based on the size and geometry of the mineralization. The majority and largest ore zones at Pinyon Plain will be mined by longhole stoping. Narrower mineralized zones will be mined as a single drift using jackleg drills with breasting of the roof and ribs to the ore extents. In some cases, the sill may be blasted and mucked out (termed a "floor pull"). All broken material will be hauled by diesel powered load-haul-dump (LHD) low profile loaders to a muck raise located on the mining level and dropped to the lowest mining level (the 5130 level) or the muck raise located off the spiral ramp. From either location, a LHD will rehandle the muck and tram it to the dump pocket located at the 1-5 shaft station.

All mining levels are accessed through a spiral ramp located on the south side of the orebody. The spiral ramp will connect the mine shaft from the 1-4 to the 1-5 shaft stations. All mine development in ore and waste will be through 10 ft square drifts and accessed from the production shaft at the 1-4 and 1-5 shaft stations. Five mining levels will be developed in the orebody, spaced 30 ft to 35 ft apart vertically from the 5130 level to the 5283 levels.

The mine will operate on a single 12 hour day shift, 7 days per week, 355 days per year. Daily rock production averages 143 stpd of ore and 41 stpd of waste over the life of mine. The maximum daily production from the mine is 343 tons of ore plus waste.

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1.3.10 Mineral Processing

Ore will be transported to the White Mesa Mill for processing based on a toll milling agreement.

1.3.11 Project Infrastructure

The Pinyon Plain Mine is a developed site with gravel road access and facilities, including line power. Infrastructure at the Project has been designed to accommodate all mining and transportation requirements. In addition to the mine shaft, existing mine infrastructure includes offices, mine dry, warehousing, development rock storage, standby generators, fuelling station, fresh water well, monitor wells and water tanks, a containment pond, electrical power, rapid response services, explosive magazines, equipment utilities, and a workshop. The haulage distance from the Project to the White Mesa Mill in Blanding, Utah, is 320 miles.

1.3.12 Market Studies

EFR has signed uranium sales contracts with major nuclear utilities for a portion of the production from the Project. These contracts provide for sales prices that are expected to be consistent with the prices forecast by TradeTech through the period of planned production from the property. In that event, realized uranium prices may be \$2 to \$4 higher that the \$60/lb that SLR has used for the cash flow analysis if the Project operates within this timeframe.

1.3.13 Environmental, Permitting and Social Considerations

EFR has secured all permits necessary to construct, operate, and close the Project. Permitting involved public participation and involvement. EFR maintains regular interactions with the regulatory community.

1.3.14 Capital and Operating Cost Estimates

The base case capital cost estimate summarized in Table 1-7 covers the three year life of the Project and are based on Q4 2022 US dollars. Based on the American Association of Cost Engineers (AACE) International classifications, Class 3 estimates have an accuracy range between -10% to -20% (low-end) to +10% to +30% (high-end) (AACE International, 2012). The base case capital and operating cost estimates are within the Class 3 ranges and would meet the S-K 1300 standard of \pm 25% accuracy and \leq 15% contingency.

Table 1-7: Capital Cost Estimate Energy Fuels Inc. - Pinyon Plain Project

Pinyon Plain Underground Mine Capital Equipment	Units	Total Cost
Mine Development	\$ 000	3,799
Loading Pocket & Installation	\$ 000	129
Underground Equipment	\$ 000	590
Ventilation Fans and heater	\$ 000	1,726
Ventilation Raise	\$ 000	1,219
Surface Works	\$ 000	140
Subtotal UG Capital Before Contingency	\$ 000	7,603

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Pinyon Plain Underground Mine Capital Equipment	Units	Total Cost	
Contingency	\$ 000	1,368	
Total UG Capital Cost	\$ 000	8,748	
Reclamation	\$ 000	1,407	
Total Capital Costs	\$ 000	10,155	

Operating costs are based on EFR's operating experience. Table 1-8 shows the operating costs used in the economic evaluation of the Project in Q4 2022 dollars with no contingency applied.

Table 1-8: Operating Cost Summary Energy Fuels Inc. - Pinyon Plain Project

Area	Cost	Unit
Mining	\$101.00	\$/ore ton mined
Haulage	\$72.00	\$/ore ton mined
Processing	\$192.00	\$/ore ton mined
G&A	\$7.00	\$/ore ton mined
TOTAL OPEX	\$372.00	\$/ore ton mined

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2.0 INTRODUCTION

SLR International Corporation (SLR) was retained by Energy Fuels Inc. (Energy Fuels), the parent company of Energy Fuels Resources (USA) Inc. (EFR), to prepare a Technical Report on the Pre-Feasibility Study (PFS) with respect to the Pinyon Plain Project (Pinyon Plain or the Project), located in Coconino County, Arizona, USA. EFR owns 100% of the Project.

EFR's parent company, Energy Fuels Inc., is incorporated in Ontario, Canada. EFR is a US-based uranium and vanadium exploration and mine development company with projects located in the states of Colorado, Utah, Arizona, Wyoming, Texas, and New Mexico. EFR is listed on the NYSE American Stock Exchange (symbol: UUUU) and the Toronto Stock Exchange (symbol: EFR).

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This Technical Report satisfies the requirements of Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects (NI 43-101) and the United States Securities and Exchange Commission's (SEC) Modernized Property Disclosure Requirements for Mining Registrants as described in Subpart 229.1300 of Regulation S-K, Disclosure by Registrants Engaged in Mining Operations (S-K 1300) and Item 601 (b)(96) Technical Report Summary. The purpose of this Technical Report is to disclose the results of a PFS for the Project.

The Project is a uranium and copper breccia pipe deposit in northern Arizona. The Project is permitted and has a 1,470 ft deep shaft, headframe, hoist, compressor, and surface facilities including line power. The Project is currently being developed in preparation for production. Environmental compliance activities continue with all infrastructure for mine development in place. EFR envisages this as a mechanized mining underground operation in which the mineralized material will be hoisted to surface and then trucked to a mill for processing based on a toll milling agreement.

Energy Fuels plans to operate the mine at a rate of up to 292 short tons per day (stpd) of ore, averaging 143 stpd of ore. The mine life extends for a total of 28 months. The life of mine plan includes mining 134,500 tons of ore grading $0.58\% U_3O_8$, yielding 1.57 million pounds (Mlb) of U_3O_8 . Process recovery is estimated to be 96% to produce 1.51 Mlb of U_3O_8 . There are additional Mineral Resources at depth below the Mineral Reserves in the current mine plan.

2.1 Sources of Information

Sources of information and data contained in this Technical Report or used in its preparation are from publicly available sources in addition to private information owned by EFR, including that of past property owners.

Mark B. Mathisen, C.P.G., Principal Geologist, SLR, who is an independent qualified person visited the Project under care and maintenance on November 16, 2021. Mr. Mathisen toured the operational areas, project offices, and water treatment facility (WTF) and conducted discussions with EFR Project geologists on current and future plans of operations.

The QPs, Messrs. Malensek and Gochnour, visited Pinyon Plain on October 27, 2022. Messrs. Malensek and Gochnour toured the surface and underground operational areas, project offices, and water treatment facility (WTF) and conducted discussions with EFR site personnel on current and future plans of operations.

Table 2-1 presents a summary of the QP responsibilities for this Technical Report.

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Table 2-1: Summary of QP ResponsibilitiesEnergy Fuels Inc. - Pinyon Plain Project

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Qualified Person	Company	Title/Position	Section
Grant A. Malensek, M.Eng., P. Eng.	SLR	Senior Principal Mining Engineer	1.2, 1.3.12, 1.3.14, 19, 21, 22, 30
Mark B. Mathisen, C.P.G.	SLR	Principal Geologist	1.1.1.1, 1.1.2.1, 1.3.1, 1.3.2, 1.3.4-1.3.7, 2-12, 14, 23, 24, 25.1, 26.1
R. Dennis Bergen, P.Eng.	SLR	Associate Principal Mining Engineer	1.1.1.2, 1.1.2.2, 1.3.8, 1.3.9, 15, 16, 25.2, 26.2
Jeffrey L. Woods, MMSA QP	Woods Process Services	Principal Consulting Metallurgist	1.1.1.3, 1.1.1.4, 1.1.2.3, 1.3.3, 1.3.10, 1.3.11, 13, 17, 18, 25.3, 25.4, 26.3, 26.4
Lee (Pat) Gochnour, MMSA (QP)	Gochnour & Associate, Inc.	Associate Principal Environmental Specialist	1.1.1.5, 1.1.2.5, 1.3.13, 20, 25.5, 26.5
All	-	-	27

During the preparation of this Technical Report, discussions were held with personnel from EFR:

- Dan Kapostasy, P.G., Director of Technical Services
- Gordon Sobering, PE, QP, Chief Engineer
- Scott Bakken, P.G., Vice President, Regulatory Affairs

This Technical Report supersedes the previous Technical Report completed by SLR, dated February 22, 2022.

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The documentation reviewed, and other sources of information, are listed at the end of this Technical Report in Section 27 References.

2.2 List of Abbreviations

The U.S. System for weights and units has been used throughout this report. Tons are reported in short tons (ton) of 2,000 lb unless otherwise noted. All currency in this Technical Report is US dollars (US\$) unless otherwise noted.

Abbreviations and acronyms used in this Technical Report are listed below.

Unit Abbreviation	Definition	Unit Abbreviation	Definition
μ	micron	L	liter
a	annum	lb	pound
А	ampere	m	meter
bbl	barrels	m ³	meter cubed
Btu	British thermal units	М	mega (million); molar
°C	degree Celsius	Ma	one million years

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

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cm	centimeter	MBtu	thousand British thermal units
cm ³	centimeter cubed	MCF	million cubic feet
d	day	MCF/h	million cubic feet per hour
°F	degree Fahrenheit	mi	mile
ft ASL	feet above sea level	min	minute
ft	foot	Mpa	megapascal
ft ²	square foot	mph	miles per hour
ft ³	cubic foot	MVA	megavolt-amperes
ft/s	foot per second	MW	megawatt
g	gram	MWh	megawatt-hour
g G	giga (billion)	ppb	part per billion
Ga	one billion years	ppm	part per million
gal	gallon	psia	pound per square inch absolute
gal/d	gallon per day	psig	pound per square inch gauge
g/L	gram per liter	rpm	revolutions per minute
g/y	gallon per year	RL	relative elevation
gpm	gallons per minute	s	second
hp	horsepower	ton	short ton
h	hour	stpa	short ton per year
Hz	hertz	stpd	short ton per day
in.	inch	t	metric tonne
in ²	square inch	US\$	United States dollar
J	joule	V	volt
k	kilo (thousand)	W	watt
kg/m ³	kilogram per cubic meter	wt%	weight percent
kVA	kilovolt-amperes	WLT	wet long ton
kW	kilowatt	У	year
kWh	kilowatt-hour	yd ³	cubic yard

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3.0 RELIANCE ON OTHER EXPERTS

This Technical Report has been prepared by the SLR QP for EFR's parent company, Energy Fuels. The information, conclusions, opinions, and estimates contained herein are based on:

- Information available to the SLR QP at the time of preparation of this Technical Report,
- · Assumptions, conditions, and qualifications as set forth in this Technical Report, and
- Data, reports, and other information supplied by Energy Fuels and other third party sources.

3.1 Reliance on Information Provided by the Registrant

For the purpose of this Technical Report, the SLR QP has relied on information provided by Energy Fuels for the following:

Ownership information for the Project as described in Section 4 Property Description and Location and the Summary of this Technical Report relied upon a legal opinion by Parsons Behle & Latimer dated January 19, 2022, entitled Mining Claim Status Report - Pinyon Mine, Coconino County, Arizona. The SLR QP has not researched property title or mineral rights for the Project as we consider it reasonable to rely on Energy Fuels' legal counsel who is responsible for maintaining this information. The SLR QP has taken all appropriate steps, in their professional opinion, to ensure that the above information from Energy Fuels is sound.

Royalties and other encumbrances for the Project, as described in Section 4 Property Description and Location and the relevant sections of the Summary, was confirmed by Gordon Sobering, Chief Engineer for EFR in an email dated January 23, 2023.

Environmental and permitting information for the Property, as described in Section 4 Property Description and Location, Section 20 Environmental Studies, Permitting, and Social or Community Impact, and the relevant sections of the Summary was provided by Scott Bakken, Vice President, Regulatory Affairs for EFR and reviewed by the SLR QP. The permit register was also provided by Mr. Bakken in an email dated January 30, 2022. SLR is unaware of any changes in the register since the date of confirmation.

SLR has relied on EFR for guidance on applicable taxes and other government levies or interests, applicable to revenue or income, to evaluate the viability of the Mineral Reserves stated in Section 22 Economic Analysis, and the relevant sections of the Summary of this Technical Report. This information was confirmed by Kara Beck, Tax Manager for EFR in an email dated January 24, 2023. SLR is unaware of any changes to the US tax code since the date of confirmation.

Except as provided by applicable laws, any use of this Technical Report by any third party is at that party's sole risk.

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4.0 PROPERTY DESCRIPTION AND LOCATION

The Project is a fully permitted underground uranium and copper deposit in northern Arizona. The mineral rights are held by EFR, a wholly-owned subsidiary of EFR Arizona Strip LLC.

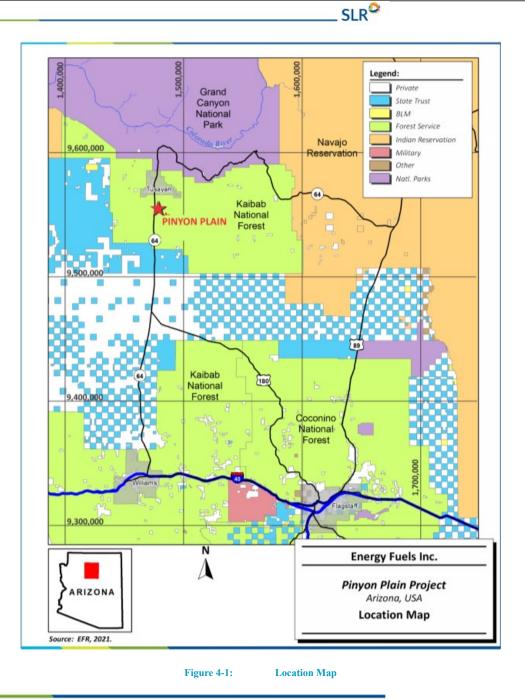
4.1 Location

The Project is located in northern Arizona within the Kaibab National Forest, on a fully permitted 17-acre site. It is situated 153 mi north of Phoenix, 86 mi northwest of Flagstaff, 47 mi north of Williams, and seven miles southeast of Tusayan, in Sections 19 and 20, Township 29 North, Range 03 East, Gila and Salt River Meridian (GSRM), Coconino County, Arizona (Figure 4-1).

The geographic coordinates for the approximate center of the Project are located at latitude 35°52'58.65" N and longitude 112°5'47.05" W. All surface data coordinates are State Plane 1983 Arizona Central FIPS 0202 (US feet) system.

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4.2 Land Tenure

EFR's property position at the Project consists of nine unpatented mining claims (Canyon 64-66, 74-76, and 84-86), located on U.S. Forest Service (USFS) land, encompassing approximately 186 acres (Figure 4-2). Gulf Mineral Resources (Gulf) originally staked the claims in 1978 and various companies have maintained the claims since the original

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staking. EFR acquired the Project in June 2012 and has a 100% interest in the claims.

All claims, which are renewed annually in September of each year, are in good standing until September 1, 2023 (at which time they will be renewed for the following year as a matter of course). All unpatented mining claims are subject to an annual federal mining claim maintenance fee of \$165 per claim plus approximately \$10 per claim for county filing fees to the BLM. Table 4-1 lists the mineral claims covering the Project.

Table 4-1: Claims Held by EFR for the Pinyon Plain Project Energy Fuels Inc. - Pinyon Plain Project

Section	Quadrant	Serial Number	Claim Type	Claim Name	Claimant	Loc. Date	Next Pmt Due Date
19 & 20	NE(19),NW(20)	AZ101406928	LODE CLAIM	CANYON #64	EF ENERGY FUELS	4/5/1978	9/1/2023
19 & 20	NE,SE(19),NW,SW(20)	AZ101408027	LODE CLAIM	CANYON #65	EF ENERGY FUELS	4/5/1978	9/1/2023
19 & 20	SE(19),SW(20)	AZ101422944	LODE CLAIM	CANYON #66	EF ENERGY FUELS	4/5/1978	9/1/2023
20	NW	AZ101424281	LODE CLAIM	CANYON #74	EF ENERGY FUELS	4/5/1978	9/1/2023
20	NW,SW	AZ101511848	LODE CLAIM	CANYON #75	EF ENERGY FUELS	4/5/1978	9/1/2023
20	SW	AZ102522768	LODE CLAIM	CANYON #76	EF ENERGY FUELS	4/5/1978	9/1/2023
20	NE,NW	AZ101515633	LODE CLAIM	CANYON #84	EF ENERGY FUELS	4/4/1978	9/1/2023
20	NE,NW,SE,SW	AZ101403513	LODE CLAIM	CANYON #85	EF ENERGY FUELS	4/4/1978	9/1/2023
20	SE,SW	AZ101408062	LODE CLAIM	CANYON #86	EF ENERGY FUELS	4/4/1978	9/1/2023

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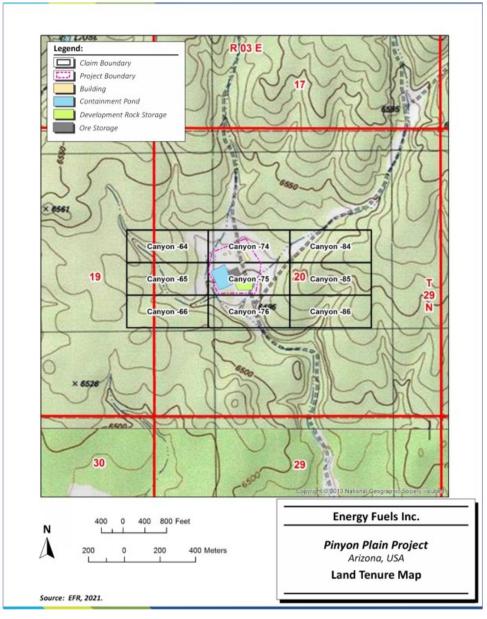


Figure 4-2: Land Tenure Map

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4.3 Required Permits, Authorizations and Status

The Project is located on public lands managed by the USFS and has an approved Plan of Operations (PoO) with the USFS. The Pinyon Plain Property has also received permit authorizations through the Arizona Department of Environmental Quality (ADEQ), which include Aquifer Protection Permits for the Non-Stormwater Impoundment, Ore Stockpile and Development Rock Stockpile, an Air Quality Control Permit, and Storm Water Multi-Sector General Permit coverage. In 2015, the Property also received approval from the US Environmental Protection Agency (EPA) to Construct/Modify an Underground Uranium Mine pursuant to the National Emissions Standards for Hazardous Air Pollutants (NESHAPs).

The SLR QP is not aware of any factors or risks that may affect access, title, or the right or ability to perform the proposed work program on the Property.

4.4 Royalties

In late 2022 EFR contracted a legal firm, Parsons Behle & Latimer (the Firm), to examine evidence of title and ownership of the existing royalties on the unpatented land claims associated with the Pinyon Plain mine.

The Firm examined records of the Coconino County Recorder related to existing royalties and found a mining deed and lease dated December 1, 1982, between the Gulf Oil Corporation (Gulf) and Energy Fuels Exploration Company (EFEC) reserving a 3.5% royalty based on a sliding pricing guaranteed by the US Government based on ore grade plus allowances for mining and haulage as outlined in the United States Atomic Energy Commission (AEC) Circular 5. Additionally, a 7% net smelter return (NSR) royalty on minerals other than uranium was also agreed upon with Gulf, which is not applicable at this time since uranium is the only metal planned to be milled from the Project as outlined in the economic analysis section (Section 22) of this Technical Report.

Based on the AEC guidance, current Pinyon Plain Mineral Reserves, and EFR's uranium contracted price for Pinyon Plain ores, the calculated Pinyon Plain royalty to Gulf is \$1.88 per ore ton mined.

4.5 Other Significant Risks

The SLR QP is not aware of any environmental liabilities on the Project. Energy Fuels has all required permits to conduct the proposed work on the Project. The SLR QP is not aware of any other significant factors and risks that may affect access, title, or the right or ability to perform the proposed work program on the Project.

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5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Accessibility

Access to the Project site is via State Highway 64 and Federal Highway 180 to within five miles of the mine site, then over unsurfaced public USFS roads (Figure 4-1). The Atchison, Topeka and Santa Fe railway line passes east-west 50 mi south of the site at Williams, and a spur of the railway, which passes 10 mi west of the Project site, services the Grand Canyon National Park. Airports at Flagstaff, Phoenix, and Tusayan provide air access to the area.

Although the Coconino Plateau is sparsely populated, tourist traffic to Grand Canyon National Park results in large numbers of people passing through the region daily.

5.2 Vegetation

Vegetation on the plateaus is primarily ponderosa pine forest with some open pinyon-juniper woodland and shrubs. The local climate allows for a year-round mining operation.

5.3 Climate

The climate in northern Arizona is semi-arid, with cold winters and hot summers. January temperatures range from approximately 7°F to 57°F and July temperatures range from 52°F to 97°F. Annual precipitation, mostly in the form of rain but with some snow, is about 12 in.

5.4 Local Resources

Personnel and supplies for future mining operations are expected to be sourced from the nearby towns of Williams and Flagstaff, Arizona (50 miles and 70 miles, respectively), as well as other underground mining districts in the western United States. Although the Coconino Plateau is sparsely populated, tourist traffic to Grand Canyon National Park results in large numbers of people passing through the region daily.

5.5 Infrastructure

In addition to the mine shaft, existing surface mine infrastructure includes surface maintenance shops, employee offices and change rooms, a water well, an evaporation pond, water treatment plant, explosive magazines, water tanks, fuel tank, and rock stockpile pads (ore and development rock). Electrical power is available through an existing power line that terminates at the site.

In 1982, Energy Fuels Nuclear, Inc. (EFNI), which is not part of Energy Fuels Inc., acquired the Project. From 1982 to 1987, EFNI conducted exploration drilling, permitted the mine, constructed certain surface facilities including a headframe, hoist, and compressor, and sunk the shaft to a depth of 50 ft. From 1987 to 2013, the Project was put on standby due to low uranium prices. In 2012, EFR acquired the Project through its acquisition of Denison Mines Corporation's US assets (Denison). Beginning in 2013, EFR refurbished the surface facilities and extended the shaft an additional 228 ft to a depth of 278 ft. In late 2013, the Project was again placed on standby due to low uranium prices. In October 2015, EFR re-started the Project and committed to completing the shaft and underground delineation drilling program. From October 2015 to March 2018, the shaft was sunk to a final depth of 1,470 ft, and three development levels were started at the 1,000 ft (5,506 ft ASL), 1,220 ft (5,286 ft ASL); and 1,400 ft (5,106 ft ASL) depths, all of which have functioned as drill stations.

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During 2019, a 1,000,000-gallon water tank was installed, in addition to the existing 400,000-gallon tank installed in 2017. These above-ground storage tanks are used for operational flexibility and extra water storage capacity during winter months. Three floating, downcasting, enhanced evaporators were installed in the Non-Stormwater Impoundment to aid in evaporation. The tanks and evaporators are part of Energy Fuels' water balance management practices at the site.

During 2020, a fourth floating, down-casting, enhanced evaporator was installed at the site to increase the operational flexibility of the water balance management practices. Additionally, a water capture and pumping system was installed in the shaft to segregate unimpacted water and store it for beneficial use.

During 2021, a water treatment plant was installed to process water for offsite transport. The water treatment plant was commissioned in April 2021. Water use agreements have been entered into with local farmers and ranchers through which they may utilize excess water from the Pinyon Plain Project for their own beneficial uses within the Coconino Plateau groundwater basin.

In addition to the mine shaft, existing surface mine infrastructure includes surface maintenance shops, employee offices and change rooms, a water well, an evaporation pond, explosive magazines, water tanks, fuel tank, and rock stockpile pads (ore and development rock). Electrical power is available through an existing power line that terminates at the site.

5.6 Physiography

Northern Arizona is part of the Colorado Plateau, a region of the western United States characterized by semi-arid, high-altitude, gently sloping plateaus dissected by steep walled canyons, volcanic mountain peaks, and extensive erosional escarpments. The Project is located on the Coconino Plateau within the Colorado Plateau, at an elevation of approximately 6,500 feet above sea level (ft ASL).

Overall, the land is flat lying across several square miles surrounding the Project. Elevation at the site is 6,500 ft ASL with a southern downward slope averaging 100 ft per mile. Two major regional topographical features include the Red Butte, a lava capped mesa 4.5 mi south at an elevation of 7,234 ft ASL, and the Colorado River, 15 mi to the north at an elevation of 2,500 ft ASL.

Major landforms in the general area of the Project include nearly level drainage bottoms of recent alluvium, gently sloping plateau ridgetops, and moderately sloping canyon sideslopes. Soils have developed from residual or colluvial parent materials, and outcrops of bedrock are typically exposed along shoulder slopes and ridgetops. The Coconino Rim, a north-facing escarpment east and north of the deposit, is the major landform obstructing access between Pinyon Plain and highways to the east.

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6.0 HISTORY

Uranium exploration and mining of breccia pipe deposits started in the region in 1951 when a geologist with the U.S. Geological Survey noted uranium ore on the dump of an old copper prospect on the South Rim of the Grand Canyon in Northern Arizona. The prospect was inside Grand Canyon National Park, but on fee land that predated the Park. The Golden Crown Mining Company, which later merged with Western Gold and Uranium Inc., mined a significant high grade uranium deposit, the Orphan Mine, from 1956 to 1969. By the time mining ended, 4.26 million pounds (Mlb) of uranium, along with some minor amounts of copper, vanadium, and silver had been produced (Bennett, n.d.).

After the discovery of this first uranium deposit in the 1950s, an extensive search for other uranium deposits was made by the government and mining industry, but only a few low-grade prospects were found. Exploration started again in the early-1970s.

In the mid-1970s, Western Nuclear leased the Hack Canyon prospect located approximately 25 mi north of the Grand Canyon and found high grade uranium mineralization offsetting an old shallow copper-uranium site. In the next few years, a second deposit was found a mile away along a fault.

In the late-1970s, EFNI formed a uranium exploration venture with several Swiss utilities and acquired significant uranium reserves in southeast Utah. EFNI permitted and built the 2,000 stpd White Mesa Mill near Blanding, Utah, to process Colorado Plateau ore, which was expected to average $0.13\% U_3O_8$. When the uranium market fell in 1980, the higher-grade Hack Canyon property was leased by EFNI from Western Nuclear in December 1980 as a likely low-cost source of U_3O_8 mill feed. Development started promptly, and the Hack Canyon deposits were in production by the end of 1981. They proved to be much better than the initial estimates suggested in terms of both grade and tonnage.

As part of their exploration program, EFNI identified and investigated more than 4,000 circular features, which potentially indicate mineralized breccia pipes, in northern Arizona. Approximately 110 of the most prospective features were further explored by deep drilling, and nearly 50% of those drilled were shown to contain uranium mineralization. Ultimately, nine pipes were developed. Total mine production from the EFNI breccia pipes from 1980 through 1991 was approximately 19.1 Mlb of U_3O_8 at an average grade of just over 0.60% U_3O_8 .

The Project is a uranium and copper breccia pipe deposit in northern Arizona. The Project was originally included as part of the Arizona Strip Uranium Project. The Arizona Strip Uranium Project was located in the Arizona Strip District, a mining district located in northwestern Arizona, and contained three deposits: the Pinenut Mine, the Arizona 1 Mine, and the Project. The Pinenut and Arizona 1 breccia pipes are located between the town of Fredonia, Arizona, and the Grand Canyon National Park. The Pinenut Mine was mined-out in 2015 and is currently being reclaimed. The Arizona 1 Mine is currently on standby. The Project has been considered separate from the Arizona Strip Uranium Project since 2017.

6.1 **Prior Ownership**

The Project is located on mining claims that EFNI acquired from Gulf in 1982. Gulf originally staked the claims in April 1978. EFNI was acquired by the Concord group in the early-1990s. The Concord group declared bankruptcy in 1995, and most of the EFNI assets, including the Project, were acquired by International Uranium Corporation (IUC) in 1997. IUC merged with Denison Mines Inc. on December 1, 2006, and the new company changed its name to Denison Mines Corporation. In June 2012, Energy Fuels Inc. acquired all of Denison's mining assets and operations in the United States. Currently the Project claims are held by EFR, a wholly-owned subsidiary of EFR Arizona Strip LLC.

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6.2 Exploration and Development History

Since 1994, exploration activities undertaken on the Project have only included drilling. Prior to that, exploration activities carried out by EFR's predecessors from 1983 to 1987 include:

- Ground control source audio magneto tellurium (CSAMT) surveys
- Ground magnetics
- Ground very low frequency (VLF) surveys
- Time domain electro-magnetic surveys (TDEM)
- Surface gravity surveys
- Airborne electromagnetic (EM) surveys.

At the time of the acquisition by EFR the Project was permitted and contained a headframe, hoist, and compressor, and a shaft to a depth of 50 ft. EFR refurbished the surface facilities and extended the shaft an additional 228 ft to a depth of 278 ft. In late 2013, the Project was placed on standby due to low uranium prices. In October 2015, EFR restarted the Project and committed to completing the shaft and underground delineation drilling program. From October 2015 to March 2017, the shaft was sunk to a depth of 1,470 ft, and three development levels were started at the 1,003 ft, 1,220 ft, and 1,400 ft depths, all of which have functioned as drill stations.

The Project was previously referred to as the Canyon Mine, however, in November of 2020 EFR changed the project name to Pinyon Plain.

6.2.1 Drilling

The basic tool for exploring breccia pipes in northern Arizona is deep rotary drilling, supplemented by core drilling, up to a depth of 2,000 ft or more from surface. All drill holes are surveyed for deviation and logged using gamma logging equipment, as described in Section 11.1.1. Previous operators drilled 45 surface holes, including a deep water well, totalling 62,289 ft (Table 6-1). Gulf drilled eight exploration holes at the Project site from 1978 to May 1982 but found only low-grade uranium mineralization. Additional drilling by EFNI in 1983 identified economic uranium mineralization at the Pinyon Plain breccia pipe.

After EFNI identified mineralization, shallow drilling was conducted to locate the center of the collapse feature (holes S01-S13), as a guide to the throat of the underlying breccia pipe. EFNI followed this up with additional deep drilling to better define the mineralization.

Table 6-1: Drilling at Pinyon Plain Project by Previous Operators

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Year	Company	Location	# Holes	Total Depth (ft)	Hole ID	Туре
1978-1982	Gulf	Surface	8	13,041	COG Series	Rotary
1983	EFNI	Surface	5	10,504	CYN Series 01-05	Rotary
1984	EFNI	Surface	13	1,350	CYN Series S01-S13	Rotary
1984	EFNI	Surface	10	18,462	CYN Series 06-14C & 16C	Core/Rotary
1985	EFNI	Surface	2	3,534	CYN 15C & CYN 15W1	Core

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Year	Company	Location	# Holes	Total Depth (ft)	Hole ID	Туре
1986	EFNI	Surface	1	3,086	55-515772	Water Well
1994	EFNI	Surface	6	12,312	CYN Series 17-22	Rotary
Total			45	62,289		

6.3 Past Production

A mine shaft and conveyances were developed for underground exploration, as described in Section 5.5, and are operational, however, no past production has occurred at the Project.

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7.0 GEOLOGICAL SETTING AND MINERALIZATION

7.1 Regional Geology

The Project is located on the Colorado Plateau, south of the Grand Canyon, within the Kaibab National Forest. The Project's mineralization is controlled by a collapse structure known as a breccia pipe. This breccia pipe is one of thousands of collapse structures found on the north and south rims of the Grand Canyon. The Pinyon Plain pipe extends from the surface (Moenkopi Formation) through various geologic strata into the Redwall Limestone.

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Parts of two distant physiographic provinces are found in Arizona: the Basin and Range Province located in the southern portion of the state; and the Colorado Plateau Province located across the northern and central portions of the state. Pinyon Plain lies within the Colorado Plateau Province.

Surface exposures near the Project reveal sedimentary and volcanic rocks ranging in age from upper Paleozoic to Quaternary. The area is largely underlain by Mississippian through Triassic Period sedimentary rocks, however, exposed within the Grand Canyon are older rocks reaching Precambrian in age.

The region has experienced volcanic activity since the Pliocene epoch. A number of lava-capped buttes rise above the general landscape, and lava flows cover large areas in the southern part of the district. Faulting has exerted significant control on the geologic development and geomorphic history of the region. Major structural features are the Grand Wash, Hurricane, and Toroweap fault systems, all generally trending north-south with an eastern up thrown side. These faults are topographically prominent and show impressive scarps though other less prominent fault systems exist.

The deep incision of the Grand Canyon and associated side canyons, such as Kanab Creek, have dewatered the sedimentary section. Regionally ground water is encountered in the Redwall limestone, which coincides with the deeper formations exposed in the Grand Canyon. Perched ground water, usually in very limited quantities, is often encountered at the base of the Coconino sandstone in contact with the low permeability Hermit shale sequence. Figure 7-1 is a map showing the regional geology of the Project. Figure 7-2 presents a regional stratigraphic column.

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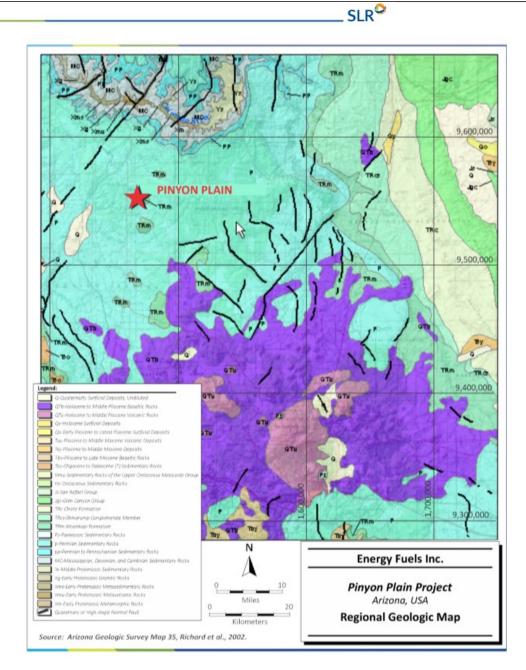
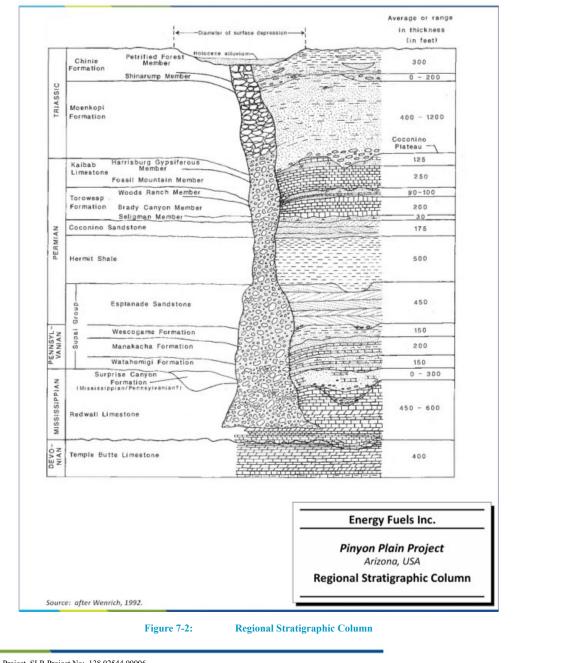


Figure 7-1:

Regional Geologic Map

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7.2 Local Geology

The surface expression of the Project is a broad shallow depression in the Permian Kaibab Formation. The pipe is essentially vertical with an average diameter of less than 200 ft, but it is considerably narrower through the Coconino and Hermit horizons (80 ft in diameter). The cross-sectional area is approximately 20,000 ft² to 25,000 ft². The pipe extends for at least 2,300 ft vertically from the Toroweap limestone to the upper Redwall horizons (Figure 7-3). The ultimate depth of the pipe is unknown. Uranium mineralization is concentrated in an annular ring within the breccia pipe.

7.2.1 Structural Geology

Regional joint systems rooted below the Redwall trend northwest-southeast and northeast-southwest. The regional joints and fractures lead to upward caving of the karstic voids in the Redwall Limestone vertically through the overlying Paleozoic sediments. As surface water and groundwater interact with the pipe, a circular brecciated column forms inside of the fracture controlled boundary.

Fractures related to the pipe can surround the brecciated zone and extend thin "ring fractures" up to 300 ft beyond the breccia pipe. Vertical joints and associated breccia pipes increase permeability and porosity, leading to the mineralization observed in the region. Figure 7-4 presents a horizontal section looking down at the breccia pipe and shows the distribution of mineralization with reference to the pipe structure.

7.2.2 Alteration

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

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The Pinyon Plain breccia pipe is surrounded by bleached zones, particularly notable in the Hermit Formation where unaltered red sediments contrast sharply with gray-green bleached material. Bleaching is common within 100 ft of the pipe boundary. Sulfide mineralization, commonly in the form of pyrite, is found as streaks or blebs within the bleached zones.

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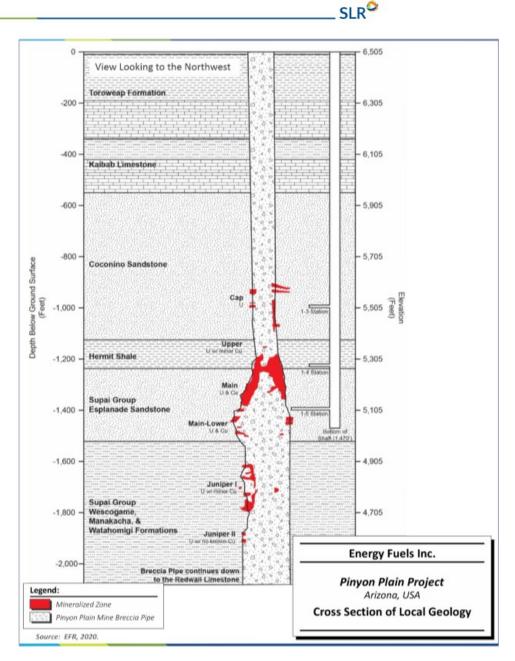


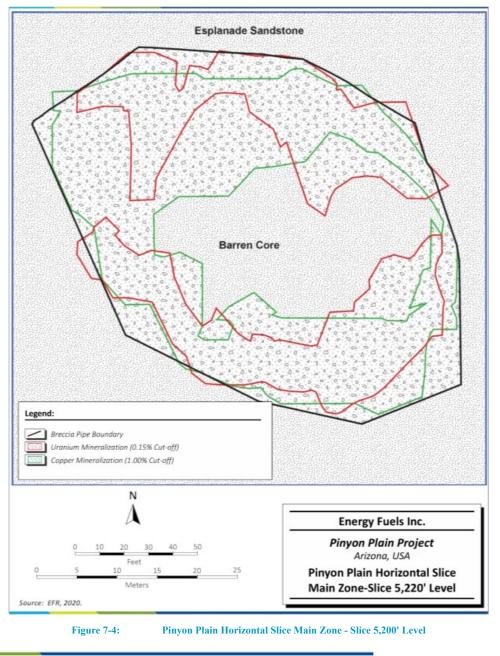
Figure 7-3:

Cross Section of Local Geology

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7.3 Mineralization

Mineralization at the Project extends vertically approximately 1,700 ft, both inside and outside the pipe, but high grade uranium and copper mineralization is found primarily in the collapsed portions of the Coconino, Hermit, and Esplanade horizons and at the margins of the pipe in fracture zones. Sulfide zones are found scattered throughout the pipe but are especially concentrated (within a sulfide cap) near the Toroweap-Coconino contact, where the cap averages 20 ft thick and consists of pyrite and bravoite, an iron-nickel sulfide. The ore assemblage consists of uranium-pyrite-hematite with massive copper sulfide mineralization common in and near the high grade zone. The strongest mineralization appears to occur in the lower Hermit-upper Esplanade horizons in an annular fracture zone.

The metal of interest at the Project is uranium, though significant copper mineralization co-exists in the breccia pipe. As the rocks making up the breccia within the pipe are all sedimentary rocks, mineralization typically occurs within the matrix material (primarily sand) surrounding the larger breccia clasts.

7.3.1 Uranium Mineralization

Uranium mineralization at the Project is concentrated in three stratigraphic levels or zones (Upper/Cap, Main, and Juniper) within a collapse structure ranging from 80 ft to 230 ft wide with a vertical extension from a depth of 650 ft to over 2,100 ft, resulting in approximately 1,450 ft of mineralization. Mineralized intercepts range widely up to several tens of feet with grades in excess of 1.00% U₃O₈. In previous reports and EFR news releases, the mineralization was subdivided into six distinct zones; those six have been combined into the three listed above for simplicity. The Upper/Cap Zone combines the previously reported Upper and Cap Zones. The Main Zone combines the previously reported Main and Main-Lower zones, and Juniper combines the previously reported Juniper I and Juniper II zones.

Age dating of mineralization (U-Pb) indicates a range from 101 million to 260 million years, which suggests that the earliest uranium mineralization had occurred in the Permian Period before the pipes completely formed in the Triassic Period.

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Consistent with other breccia pipe deposits, in the mineralized zone, the uranium mineralization occurs largely as blebs, streaks, small veins, and fine disseminations of uraninite/pitchblende (UO₂). Mineralization is mainly confined to matrix material, but may extend into clasts and larger breccia fragments, particularly where these fragments are of Coconino sandstone. Uranium mineralization occurs primarily as uraninite and various uranium phase minerals (unidentifiable minerals) with lesser amounts of brannerite and uranospinite.

7.3.2 Copper Mineralization

Currently, there is no reasonable prospect for the economic extraction of copper at the Project.

Significant copper mineralization occurs at the Project within the Main zone and to a lesser extent in the Main-Lower zone, both with uranium mineralization and outside of uranium mineralization.

Copper mineralization can be disseminated throughout the matrix material (commonly replacing calcite cement) with higher-grade mineralization typically occurring as vug fills, blebs, or streaks within the matrix and sometimes zoning the breccia clasts. The highest-grade copper mineralization completely replaces the matrix cement or replaces the matrix material all together.

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Copper mineralization occurs primarily as tennantite, chalcocite, and bornite with lesser amounts of covellite. Pyrite and sphalerite are also found throughout the pipe. Silver is commonly associated with the copper mineralization in the Main Zone. Assay values of silver greater than one ounce per short ton are common where copper grades are high. Arsenic is present where tennantite mineralization occurs. Additionally, lower quantities of silver, zine, lead, molybdenum, copper, nickel, and vanadium are present and scattered throughout the pipe.

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8.0 DEPOSIT TYPES

Paleozoic Era sedimentary rocks of northern Arizona are host to thousands of breccia pipes. The pipes extend from the Mississippian Redwall Limestone up to the Triassic Chinle Formation, a total of approximately 4,000 ft of section. Due to erosion and other factors, however, no single pipe has been observed cutting through the entire section. No pipe occurs above the Chinle Formation or below the Redwall Limestone. Breccia pipes mineralized with uranium are called Solution-Collapse Breccia Pipe Uranium deposits, which are defined as U.S. Geological Survey Model 32e (Finch, 1992).

Breccia pipes within the Arizona Strip District are vertical or near vertical, circular to elliptical bodies of broken rock comprised of slabs, rotated angular blocks and fragments of surrounding and stratigraphically higher formations. The inclusion of breccia made of stratigraphically higher formations suggests that the pipes formed by solution collapse of underlying calcareous rocks, such as the Redwall Limestone. Surrounding the blocks and slabs making up the breccia is a matrix of fine material comprised of surrounding and overlying rock from various formations. For the most part, the matrix consists of siliceous or calcareous cement.

Breccia pipes are comprised of three interrelated features: a basinal or structurally shallow depression at surface (designated by some as a collapse cone); a breccia pipe, which underlies the structural depression; and annular fracture rings, which occur outside, but at the margin of the pipes. Annular fracture rings are commonly, but not always, mineralized. The structural depression may range in diameter up to 0.5 miles or more, whereas breccia pipe diameters can range up to approximately 600 ft, but normally range from 200 ft to 300 ft in diameter.

Mineralization in the breccia pipes takes place by water flowing along fractures and through porous materials that provide conduits for fluid flow and typically takes place in stages. Wenrich and Sutphin (1989) identified at least four separate mineralizing events that occur within the Arizona Strip District pipes, with uranium and copper mineralization occurring as part of the last two mineralizing events.

To date, mineralized breccia pipes appear to occur in clusters or trends. Spacing between pipes ranges from hundreds of feet within a cluster to several miles within a trend. Pipe location may have been controlled by deep-seated faults, but karstification of the Redwall Limestone in the Mississippian and Permian Periods is considered to have initiated formation of the numerous and widespread pipes in the region.

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9.0 EXPLORATION

EFR has completed no exploration work on the Project other than underground development drilling discussed in Section 10, since acquiring the properties in 2012.

9.1 Geotechnical

In 1987, the geotechnical consulting firm of Dames and Moore (1987) completed an evaluation of mine stability and subsidence potential at the Project.

The scope of work was based on a review of geologic and geotechnical data from similar breccia pipe uranium mines on the Arizona Strip (the Orphan Mine, the Hack 2 Mine, Kanab North, and the Pigeon Mine), including the stability of existing underground stopes.

Numerical modeling of stopes was analyzed at depths of 800 ft, 1,200 ft, and 1,600 ft below surface with a surrounding rock strength of 3,000 psi. Stope dimensions at these mines varied from 60 ft high by 30 ft wide (Orphan Mine) to 350 ft high by 200 ft wide (Hack 2 Mine). Ground support was limited to rock bolts in the stope backs and no

backfill.

The report concluded that stopes up to 350 ft high at a depth of 1,200 ft would not develop significant stability problems as long as prudent ground supports were employed, which EFR plans to install during mining. In addition, the report predicted mined out stopes would fill with rubblized rock as a result of subsidence reaching surface in several hundred years; the surface expression would be less than two feet over a broad area and would be difficult to observe in the field.

Since the geotechnical report was produced, EFR has decided to fill stopes with waste rock generated from accessing the orebody, which will significantly reduce any postmining surface expression from ground subsidence.

EFR has not conducted any geotechnical work at the Project since its acquisition.

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10.0 DRILLING

EFR acquired the Project from Denison in 2012. Since that time, exploration work carried out by EFR at the Project has included the drilling of 80 core holes and 25 percussion holes from three subsurface levels accessed from the production shaft to delineate mineralization extents, results of which were used to update the geologic model and Mineral Resource estimates discussed in the following sections of this report.

Three mineralized zones have been identified on the Project; from top downward, they are the Upper/Cap Zone, the Main Zone, and the Juniper Zone. Mineral Resources (Section 14) are reported on the Main and Juniper Zones; the Upper/Cap Zone is currently an exploration target.

10.1 Drilling

As of the effective date of this report, EFR and its predecessors have completed 150 holes (45 surface and 105 underground), totalling 92,724 ft, from 1978 to 2017 using core, rotary, and percussion methods. No drilling was conducted on the Project from 1994 to 2016.

Drill hole collar locations are recorded on the original drill logs and radiometric logs created at the time of drilling, including easting and northing coordinates in local grid or modified NAD 1983 Arizona Central FIBPS 0202 (US feet) and elevation of collar in feet above sea level. Drill hole orientation were surveyed with a Reflex EZ Shot or similar deviation tool in the drill string every time a length of drill pipe was added.

From 2016 to 2017, EFR completed 105 underground drill holes totalling 30,314 ft from drill stations developed from the Pinyon Plain mineshaft. No drilling has taken place on the Project since 2017. A summary of drilling completed by EFR is presented in Table 10-1, and Figure 10-1 shows the locations of all the drill collars from EFR and the previous operators.

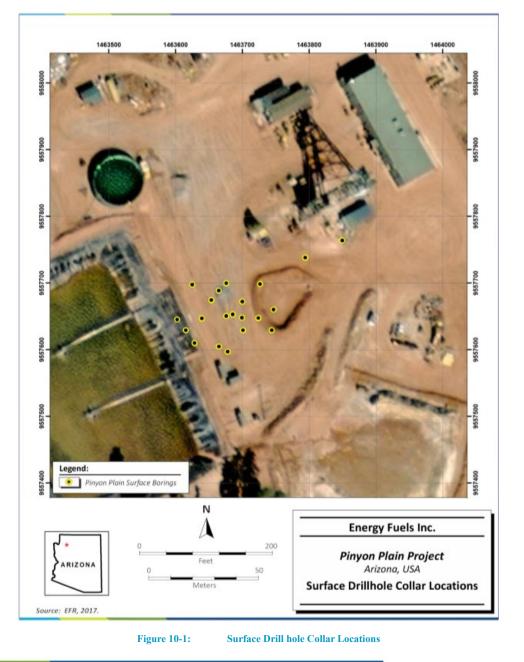
Table 10-1: Underground Drill hole Database Summary Energy Fuels Inc. - Pinyon Plain Project

Year	Company	Location	# Holes	Total Depth (ft)	Hole ID	Туре
2016	EFR	1-3 Level	15	12,435	CMCH Series 001 - 015	Core
2016	EFR	1-4 Level	25	4,179	CMLH Series 001 - 025	Percussion
2016-2017	EFR	1-4 Level	42	8,420	CMCH Series 016 - 058	Core
2017	EFR	1-5 Level	23	5,401	CMCH Series 059 - 081	Core
Total			105	30,314		

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All core was removed by the drillers from the wireline core barrel and placed in core boxes, orienting the core to fit together where possible and limiting a core box to a single run. The driller labeled the core box with the drill hole ID, box number, and start/finish depths on both the bottom of the core box and the core box lid. The driller also placed blocks or core markers in the core box to indicate the "from" and "to" depths of the core run as well as the core run number. If core was not recovered during a core run, a wooden block was placed in the core box by the driller with the "from" and "to" depths of no recovery (if known). Core was transported from the drill station by the driller or the geologist to surface for logging.

Upon arrival at the core logging facility on surface, core was photographed and screened radiometrically using a Radiation Solutions RS-125 Super-SPEC device and elementally using a handheld x-ray fluorescent (XRF) analyzer. Drill core recovery percentage was noted. Core was then logged by the field geologist, noting the depth of each stratigraphic unit, and a description of lithology and structures. Details noted on the lithology log include colour, texture, grain size, cementation, and mineralogy of each lithologically distinct unit, as well as the type of fracture and any voids or vugs.

All drill holes on the Property were logged with a radiometric probe to measure the natural gamma radiation, from which an indirect estimate of uranium content was made and is discussed in Section 11.1.1.

In the opinion of the SLR QP, the drilling, logging, sampling, and conversion and recovery factors at the Project meet or exceed industry standards and are adequate for use in the estimation of Mineral Resources.

10.1.1 Copper Mineralization

During exploration drilling at the Project in 2016, copper mineralization was discovered within the breccia pipe. The core from the underground drilling program was analyzed for copper mineralization with an Olympus Vanta handheld XRF device. Sections of core that showed grades of approximately 0.5% Cu or above where uranium was not

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present were sampled for chemical assay. Sections of core that contained uranium (identified with a scintillometer) were also sampled for chemical assay to determine both the uranium and copper content. Table 10-2 lists a number of selected composited intercepts of copper mineralization. Figure 10-2 and Table 10-3 provide some detail of the statistics associated with the copper mineralization.

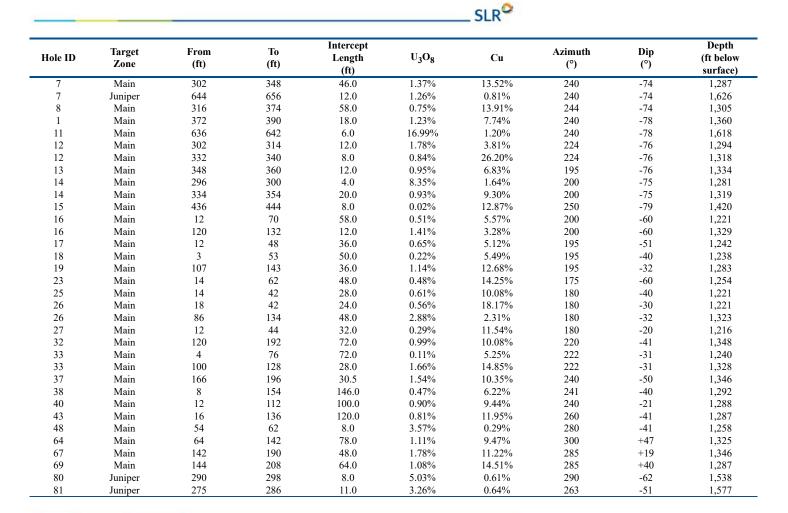
Table 10-2: Selected Copper and Uranium Assay Intercepts Energy Fuels Inc. - Pinyon Plain Project

Hole ID	Target Zone	From (ft)	To (ft)	Intercept Length (ft)	U ₃ O ₈	Cu	Azimuth (°)	Dip (°)	Depth (ft below surface)
2	Main	213	318	105.0	0.17%	9.55%	225	-63	1,190
3	Main	205	265	60.0	0.02%	7.66%	213	-63	1,182
4	Main	294	335	41.0	1.09%	2.75%	211	-75	1,285
4	Main	335	342	7.0	0.01%	9.95%	213	-75	1,320
5	Main	265	319	54.0	0.72%	9.19%	224	-70	1,250
6	Main	298	342	44.0	0.74%	10.22%	228	-75	1,284
6	Juniper	784	822	38.0	0.28%	0.53%	228	-75	1,793

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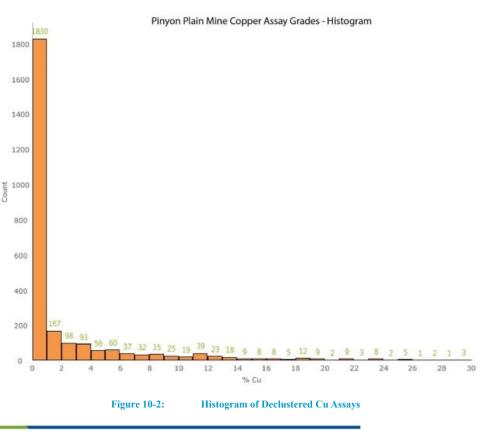


Table 10-3: Declustered Cu Assay Statistics Energy Fuels Inc. - Pinyon Plain Project

Item	Value	
No. Samples	3,500	
Mean	2.37%	
Standard Deviation	5.14	
Variance	26.36	
Coef. Of Variation	2.17	

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

Maximum	55.66%
Upper Quartile	1.81%
Median	0.17%
Lower Quartile	0.04%
Minimum	0.00%



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11.0 SAMPLE PREPARATION, ANALYSES, AND SECURITY

11.1 Sample Preparation and Analysis

This section references the Standard Operating Procedure (SOP) Handbook for core handling, sampling, and quality assurance/quality control (QA/QC) protocols for core drilling at the Project, prepared by EFR in December 2016 (Energy Fuels, 2016).

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Samples respect geological contacts and vary from 2 ft to 10 ft in length, depending on core recovery, length of the lithological unit, and mineralization. Most core samples were four feet long, except where broken along lithological or mineralization contacts. Core outside the breccia pipe was considered barren and was not sampled. Sample interval and number were marked on the core log, the core-sampling log, and the sample bags.

Sample core was cut in half, lengthwise, by technicians with a diamond saw, returning half of the split core to the core box and submitting the other half for sample preparation and analysis. The sample number, which references the drill hole name, depth, and sample length, was written on two aluminum tags. One sample tag was stapled to the sample bag and an additional sample tag was placed within the bag. The sample tag that was affixed to the outside of the sample bag also contained the sample date and the sampler's initials.

Once sampled, the remaining half core splits were returned to the core box and archived onsite.

11.1.1 Gamma Logging

All drill holes completed by EFR at the Project were logged with a Mount Sopris gamma logging unit employing a natural gamma probe. The probe measures natural gamma radiation using one 0.5-inch by 1.5-inch sodium iodide (NaI) crystal assembly. Normally, accurate concentrations can be measured in uranium grades ranging from less than 0.1% to as high as 5% U₃O₈. Data are logged at a speed of 15 ft to 20 ft per minute down hole and 15 ft to 20 ft per minute up hole, typically in open holes. Occasionally, unstable holes are logged through the drill pipe and the grades are adjusted for the material type and wall thickness of the pipe used.

The radiometric or gamma probe measures gamma radiation which is emitted during the natural Radioactive decay of uranium (U) and variations in the natural radioactivity originating from changes in concentrations of the trace element thorium (Th) as well as changes in concentration of the major rock forming element potassium (K).

Potassium decays into two stable isotopes (argon and calcium) which are no longer radioactive and emits gamma rays with energies of 1.46 mega electron-volts (MeV). Uranium and thorium, however, decay into daughter products which are unstable (i.e., radioactive). The decay of uranium forms a series of about a dozen radioactive elements in nature that finally decay to a stable isotope of lead. The decay of thorium forms a similar series of radioelements. As each radioelement in the series decays, it is accompanied by emissions of alpha or beta particles, or gamma rays. The gamma rays have specific energies associated with the decaying radionuclide. The most prominent of the gamma rays in the uranium series originate from decay of ²¹⁴Bi (bismuth 214), and in the thorium series from decay of ²⁰⁸Tl (thallium 208).

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The natural gamma measurement is made when a detector emits a pulse of light when struck by a gamma ray. This pulse of light is amplified by a photomultiplier tube, which outputs a current pulse that is accumulated and reported as counts per second (cps). The gamma probe is lowered to the bottom of a drill hole, and data are recorded as the tool travels to the bottom and then is pulled back up to the surface. The current pulse is carried up a conductive cable and processed by a logging system computer that stores the raw gamma cps data.

The basis of the indirect uranium grade calculation (referred to as " eU_3O_8 " for "equivalent U_3O_8 ") is the sensitivity of the detector used in the probe, which is the ratio of cps to known uranium grade and is referred to as the probe calibration factor. Each detector's sensitivity is measured when it is first manufactured and is also periodically checked throughout the operating life of each probe against a known set of standard "test pits," with various known grades of uranium mineralization, or through empirical calculations. Application of the calibration factor, along with other probe correction factors, allows for immediate grade estimation in the field as each drill hole is logged.

Downhole total gamma data are subjected to a complex set of mathematical equations, considering the specific parameters of the probe used, speed of logging, size of bore hole, drilling fluids, and presence or absence of any type of drill hole casing. The result is an indirect measurement of uranium content within the sphere of measurement of the gamma detector.

An EFR in-house computer program known as GAMLOG converts the measured cps of the gamma rays into 0.5 ft increments of equivalent percent U_3O_8 (%eU₃O₈). GAMLOG is based on the Scott's Algorithm developed by James Scott of the Atomic Energy Commission (AEC) in 1962 (Scott, 1962) and is widely used in the industry.

The conversion coefficients for conversion of probe cps to percent equivalent uranium grades are based on the calibration results obtained at the United States Department of Energy Uranium Calibration Pits in Grand Junction, Colorado, USA.

In those holes associated with copper mineralization or where EFR personnel reported that the probe underestimated U_3O_8 grades above 2% due to saturation of the probe's sodium iodide crystal, (a normal occurrence associated with gamma logging for uranium), EFR used chemical assay for both copper and uranium. Where there was lower grade uranium and areas of low-grade copper mineralization, radiometric data was used in lieu of chemical assays.

11.1.1.1 Calibration

For the gamma probes to report accurate $\%eU_3O_8$ values the gamma probes must be calibrated regularly. The probes are calibrated by running the probes in test pits maintained historically by the AEC and currently by the DOE. There are test pits in Grand Junction, Colorado, Grants, New Mexico, and Casper, Wyoming. The test pits have known $\%U_3O_8$ values, which are measured by the probes. A dead time (DT) and K-factor can be calculated based on running the probes in the test pits. These values are necessary to convert CPS to $\%eU_3O_8$. The dead time accounts for the size of the hole and the decay that occurs in the space between the probe and the wall rock. DT is measured in microseconds (µsec). The K-factor is simply a calibration coefficient used to convert the DT-corrected CPS to $\%eU_3O_8$.

Quarterly or semi-annual calibration is usually sufficient. Calibration should be done more frequently if variations in data are observed or the probe is damaged.

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11.1.1.2 Method

Following the completion of a rotary hole, a geophysical logging truck will be positioned over the open hole and a probe will be lowered to the hole's total depth. Typically, these probes take multiple different readings. In uranium deposits, the holes are usually logged for gamma, resistivity, standard potential, and hole deviation. Only gamma is used in the grade calculation. Once the probe is at the bottom of the hole, the probe begins recording as the probe is raised. The quality of the data is impacted by the speed the probe is removed from the hole. Experience shows a speed of 20 feet per minute is adequate to obtain data for resource modeling. Data is recorded in CPS, which is a measurement of uranium decay of uranium daughter products, specifically Bismuth-24. That data is then processed using the calibration factors to calculate a eU_3O_8 grade. Historically, eU_3O_8 grades were calculated using the AEC half amplitude method, which gives a grade over a thickness. Currently, the eU_3O_8 grades tend to be calculated on 0.5-foot intervals by software. Depending on the manufacturer of the probe truck and instrumentation, different methods are used to calculate the eU_3O_8 grade, but all, including the AEC method, are based on the two equations given below.

The first equation converts CPS to CPS corrected for the dead time (DT) determined as part of the calibration process

DT Corrected CPS (N) = CPS/(1 - (CPS * DT))

The second equation converts the Dead Time Corrected CPS (N) to %eU₃O₈ utilizing the K-factor (K)

%eU308 = 2KN

Depending on the drilling and logging environment, additional multipliers can be added to correct for various environmental factors. Typically, these include a water factor for drill hole mud, a pipe factor if the logging is done in the drill steel, and a disequilibrium factor if the deposit is known to be in disequilibrium. Tables for water and pipe factors are readily available.

11.1.2 Core Sampling

11.1.2.1 Sample Preparation

Samples were delivered by a staff geologist to the White Mesa Mill in Blanding, Utah, for uranium and copper assaying. The White Mesa Mill Laboratory holds no certifications and no accreditations.

Upon delivery of the samples to White Mesa Mill, samples were weighed, dried for 16 to 24 hrs, and weighed again to determine the moisture content. The samples were crushed using a Bico Jaw Crusher and Metso Minerals cone crusher and split using a riffle splitter before pulverization using a ring and puck pulverizer. The crushers, splitters, and pulverisers are cleaned between uses with abrasive sand.

11.1.2.2 Assaying and Analytical Procedure

A split of the pulverized sample was digested in the laboratory in a combination of nitric, perchloric, and hydrofluoric acid, diluted, and analyzed. Determination of uranium content in the sample was performed by a spectrophotometric analysis using the Thermo Scientific Biomate 3 Spectrophotometer. Other analyses were performed either on the Perkin Elmer Optima 5300V ICP-OES or the Perkin Elmer ELAN DRC II ICP-MS. Calibrations were performed daily on these instruments, and every four in 100 analyses were spiked with a standard solution after analysis to ensure consistency of results.

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11.1.3 Radiometric Equilibrium

Disequilibrium in uranium deposits is the difference between equivalent (eU_3O_8) grades and assayed U_3O_8 grades. Disequilibrium can be either positive, where the assayed grade is greater than the equivalent grades, or negative, where the assayed grade is less than the equivalent grade. A uranium deposit is in equilibrium when the daughter products of uranium decay accurately represent the uranium present. Equilibrium occurs after the uranium is deposited and has not been added to or removed by fluids after approximately one million years. Disequilibrium is determined during drilling when a piece of core is taken and measured by two different methods, a counting method (closed-can) and chemical assay. If a positive or negative disequilibrium is determined, a disequilibrium factor can be applied to eU_3O_8 grades to account for this issue.

A comparison of chemical data vs probe data showed that no disequilibrium factor is needed for the Project.

11.2 Sample Security

Bagged samples were placed in barrels, which were secured in the back of a truck for transport and delivered by EFR personnel to the laboratory at White Mesa Mill for analytical testing. White Mesa Mill personnel were responsible for shipping check samples to various third-party laboratories. A chain of custody form was maintained at all times.

Following analysis, dried, crushed samples were stored in sealed, plastic bottles for long-term storage. Pulverized samples were also stored in sealed, plastic bottles. All samples are stored out of the elements to ensure stored sample quality.

The laboratory at White Mesa Mill uses a combination of digital exports from the instrument's computer and hand entry from logbooks to maintain a master spreadsheet, which calculates grade based on the various inputs. Certificates of analysis were provided to EFR personnel in secured Adobe Acrobat and Microsoft Excel format.

EFR believes the sample preparation, security, and analytical procedures are acceptable for the purposes of a Mineral Resource estimate and meet industry standards.

11.3 Quality Assurance and Quality Control

Quality assurance (QA) consists of evidence to demonstrate that the assay data has precision and accuracy within generally accepted limits for the sampling and analytical method(s) used in order to have confidence in the assay data used in a resource estimate. Quality control (QC) consists of procedures used to ensure that an adequate level of quality is maintained in the process of collecting, preparing, and assaying the exploration drilling samples. In general, QA/QC programs are designed to prevent or detect contamination and allow assaying (analytical), precision (repeatability), and accuracy to be quantified. In addition, a QA/QC program can disclose the overall sampling-assaying variability of the sampling method itself.

QA/QC samples, including duplicates, blanks, certified reference materials (CRMs or standards), and checks, were submitted by the onsite team at the Project, EFR's office located in Lakewood, Colorado, and the White Mesa Mill laboratory. The submission rate and responsible party of each sample type is listed in Table 11-1.

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 Table 11-1:
 QA/QC Samples for the Pinyon Plain Project Drilling

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Sample Type	Sample Type		Collection Method	Rate of Insertion	
	Field	Field Geologist	¹ / ₄ core	1 in 100	
Duplicates	Coarse	WMM ² Lab personnel	Second split of crushed sample	2 in 100	
	Pulp	WMM Lab personnel	Second split of pulverized sample	2 in 100	
CRM^1		Lakewood Office	Shipped directly to lab	4 in 100	
Blank	Coarse	Lakewood Office	Shipped directly to lab	2 in 100	
Blank	Pulp	Lakewood Office	Shipped directly to lab	2 in 100	
Check Assay		WMM Lab personnel	Split of reject sample	4 in 100	
CRM ¹ with Check Assay		WMM Lab personnel		10 in 100	
Bulk Density		WMM Lab personnel	Core samples	As Available	

Notes:

1. CRM = Certified Reference Material

2. WMM = White Mesa Mill

CRMs and fine blanks were shuffled (random sequence applied), numbered, and catalogued in the Lakewood, Colorado, office by EFR technical personnel prior to shipment to the White Mesa Mill laboratory manager. These samples (blind to the White Mesa Mill manager, laboratory manager, and laboratory personnel) were inserted into the sample stream by the laboratory manager. The coarse blanks were not blind to the White Mesa Mill laboratory manager.

Check assays were performed by three independent laboratories (Section 11.3.4) and were submitted by White Mesa Mill personnel. Drilling and assaying were performed in 2016 and 2017; however, all assay results were received by Project personnel in 2017. Table 11-2 outlines the number of submitted QA/QC samples and the portion of the total

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database they comprise.

Results of the QA/QC program were compiled in a series of Microsoft Excel tables and charts on a regular basis as the program progressed and were distributed to the project and laboratory personnel. QA/QC trends were discussed as the program progressed and action was taken to correct issues.

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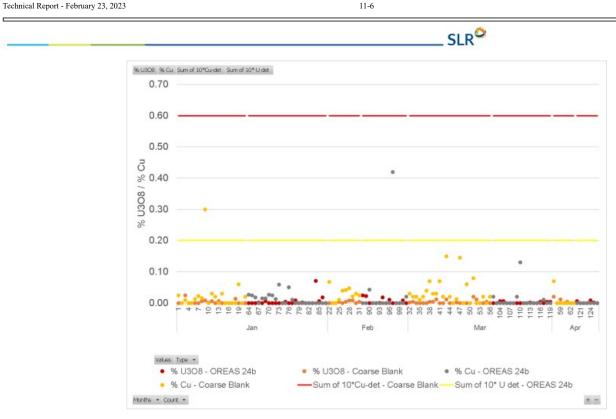
Table 11-2: Summary of QA/QC Submittals

Energy Fuels Inc. - Pinyon Plain Project

Sample Type	Count	Percentage of Assay Samples
Drill holes	130	-
Assay Samples	3,413	-
Probe Samples	97,994	-
Probe / Assay Duplicates	563	16%
Coarse Blanks	63	2%
Fine Blanks	63	2%
Copper CRMs	125	4%
Field Duplicates	36	1%
Coarse Duplicates	62	2%
Pulp Duplicates	69	2%
Check Assays	114	3%
Total QA/QC Samples	532	16%

11.3.1 Blanks

The regular submission of blank material is used to assess contamination during sample preparation and to identify sample numbering errors. EFR submitted blank samples at an insertion rate of one in 50 at both the coarse and fine preparation stages. The coarse blank sample is a granite matrix sourced from ASL and certified as barren for both copper and uranium, and the fine blank material was purchased from Ore Research and Exploration (reference material OREAS 24b). OREAS 24b has certified values of 0.0038% Cu and 0.000174% U. The SLR QP reviewed the results of the blank samples submitted alongside drill core and tabulated the number of failures for both coarse and fine blanks. A blank sample was considered to have failed if the assay returned a copper or uranium value more than ten times the detection limit for the assay method. No failures were reported for the coarse or fine blank samples, as presented in Figure 11-1.





11.3.2 Certified Reference Material

Results of the regular submission of CRMS (standards) are used to identify problems with specific sample batches and biases associated with the primary assay laboratory. Three different copper CRMs were submitted into the sample stream at White Mesa Mill, representing low, medium, and high grade copper material for an insertion rate of one

in 25. The matrix of the material, expected value, and tolerance limits are listed in Table 11-3. The CRMs were assayed using a 4-acid digest or aqua regia technique with inductively coupled plasma (ICP) or atomic absorption (AA) finish.

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Table 11-3: Expected Values and Ranges of Copper CRM Energy Fuels Inc. - Pinyon Plain Project

CRM	Cert. Date	Matrix	Expected Value (%)	Tolerance 2 S.D. (%)
CDN-CM-41	2016	Minto Mine: Hypogene Cu Sulfide hosted in Granodiorite	1.71	0.05
CDN-ME-1410	2014	High Sulfide VMS	3.80	0.17
OREAS 1131	2009	Tritton Cu Project: Chalcopyrite Breccia Ore	13.5	0.8

Notes:

1. Certified tolerance is a 95% confidence interval from 13.3% to 13.8% Cu.

No U_3O_8 specific CRMs were sent to White Mesa Mill. As part of the mill's daily protocol for running samples, the equipment was calibrated daily using U_3O_8 CRM 129-A, sourced from the New Brunswick Laboratory at the U.S. Department of Energy. The SLR QP recommends sourcing three matrix-matched or matrix-similar CRMs for U_3O_8 , representing low, medium, and high grades at the Project, and incorporating them into the sample stream sent to White Mesa Mill at a rate of one in 25.

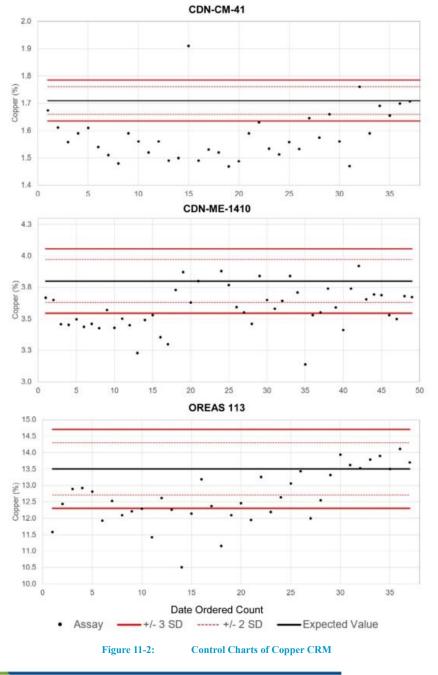
The SLR QP calculated failure rates of each copper CRM, prepared contact plots, and looked at temporal trends of the CRMs. Failure rates, defined as a copper value reporting more than three standard deviations (SD) from the expected value, or two consecutive copper values reporting more than two SD from the expected values were tabulated, and are presented in Table 11-4. All CRMs assayed at White Mesa Mill displayed a low bias relative to the expected copper value, as well as a positive temporal trend, and a high failure rate. Control plots of each CRM are presented in Figure 11-2 and a graph of the average copper value by date for each CRM is shown in Figure 11-3. Two of the CRMs, CDN-CM-41 and CDN-ME-1410, are made of a material unlike the material at the Project.

The SLR QP recommends that EFR continue to monitor for low-grade bias of copper and slight low-grade bias of U_3O_8 at the White Mesa Mill laboratory and continue to monitor for temporal trends (change in average grade of CRM data over time) observed at White Mesa Mill laboratory. The SLR QP also recommends EFR procure CRM made from the Project resource material (matrix matched), to obtain an improved understanding of laboratory performance as applied to Project samples; source three matrix-matched or matrix-similar CRMs for U_3O_8 that represent low, medium, and high grade ore at the Project; incorporate the CRMs in the sample stream sent to White Mesa Mill at a rate of one in 25 and ensure the certified values of these CRMs are blind to the laboratory. In addition, submit these CRMs to independent laboratories with check assays at a rate of one in 10 to obtain a meaningful sample size for analysis.

Table 11-4: Summary of CRM Performance Energy Fuels Inc. - Pinyon Plain Project

21	
31	79%
25	51%
20	54%
5 76	61%
,	25 20

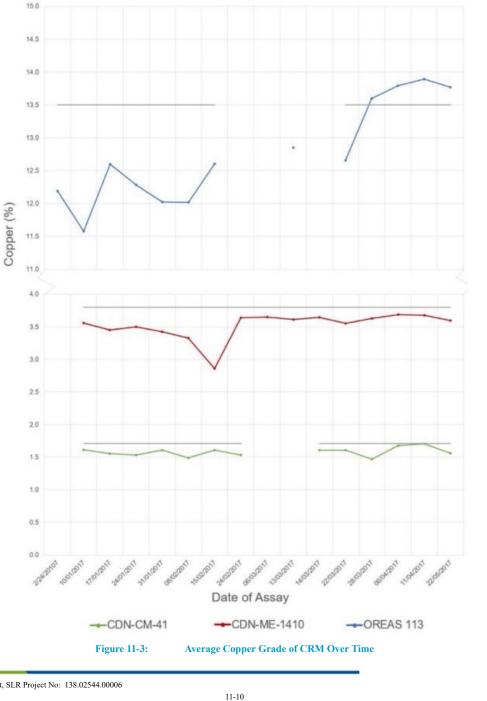




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11.3.3 Duplicates

Duplicate samples help to monitor preparation and assay precision and grade variability as a function of sample homogeneity and laboratory error. The field duplicate includes the natural variability of the original core sample, as well as levels of error at various stages, including core splitting, sample size reduction in the preparatory laboratory, sub-sampling of the pulverized sample, and the analytical error. Coarse reject and pulp duplicates provide a measure of the sample homogeneity at different stages of the preparation process (crushing and pulverizing).

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Field duplicate samples were collected by the onsite geologist and submitted to the laboratory as separate samples, adjacent in the sample stream and clearly marked as such. A total of 1% of the drill hole samples have been duplicated by splitting the half core sample into two quarter core samples. The duplicate protocol and procedure for collecting, submitting, and analyzing coarse and pulp duplicate assays is carried out by the White Mesa Mill. A total of 2% of the drill hole samples were resubmitted at the coarse and pulp assay preparation stages for comparison.

Results for both coarse and pulp sample pairs show excellent correlation (Table 11-5) with very good repeatability for both copper and uranium. Of the field, coarse, and pulp duplicate sample sets, however, less than 20% of each of the submitted sample types report grades above the cut-off grade of $0.29\% U_3O_8$ and less than 10% are above the expected average grade of $1\% U_3O_8$.

Over half of the field duplicates reported U_3O_8 values with a relative difference greater than 20%, which may be related to the uranium occurring as blebs or vug fill. Only one of the four field sample pairs within the grade range of interest, however, had a relative difference greater than 20%. Over half of the field duplicates reported copper values with a relative difference greater than 20%. Only five of the 16 sample pairs with a grade higher than 1% Cu, however, had a relative difference greater than 20%. The SLR QP

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recommends collecting additional field samples, in the form of ½ core, in the grade range of interest, in order to draw deeper conclusions about the nature of the material at Pinyon Plain.

The SLR QP also recommends implementing a duplicate assay protocol for field, coarse, and pulp samples that is blind to the laboratory, and recommends that the rates of insertion for duplicate samples be approximately one in 50 for field duplicates and one in 25 for coarse and pulp duplicate samples.

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Table 11-5: Basic Comparative Statistics of 2017 Duplicate Assays Energy Fuels Inc. - Pinyon Plain Project

	Fi	eld	Co	arse	Pu	ւլը
	Original	Duplicate	Original	Duplicate	Original	Duplicate
			U ₃ O ₈			
Count	36	36	62	62	69	69
Mean (%)	0.14	0.13	0.30	0.31	1.13	1.12
Max. Value (%)	1.45	1.00	9.71	9.80	25.90	25.36
Min. Value (%)	0.00	0.00	0.00	0.00	0.00	0.00
Median (%)	0.02	0.01	0.02	0.02	0.02	0.03
Variance	0.10	0.06	1.67	1.73	19.74	19.03
Std. Dev.	0.32	0.25	1.29	1.31	4.44	4.36
Corr. Coefficient	0.9	961	1.0	000	1.0	000
% Diff. Btw Means	8	.5	-2	2.0	1.	.3
		(Copper			
Count	35	35	61	61	69	69
Mean (%)	4.12	4.33	2.22	2.21	3.51	3.42
Max. Value (%)	24.22	22.60	22.38	22.84	30.50	26.14
Min. Value (%)	0.00	0.00	0.00	0.00	0.00	0.00
Median (%)	0.34	0.44	0.14	0.12	0.20	0.20
Variance	48.18	49.38	19.86	20.06	52.68	49.60
Std. Dev.	6.94	7.03	4.46	4.48	7.26	7.04
Corr. Coefficient	0.9	983	0.9	997	0.9	997
% Diff. Btw Means	-5	5.0	0	.6	2.	.5

11.3.4 Check Assays

A total of 114 assays were sent for re-assay at one of three independent laboratories to ascertain if any bias is present within the primary laboratory, the White Mesa Mill laboratory:

- American West Analytical Laboratories, located in Salt Lake City, Utah Accredited by the National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and state accredited in Colorado, Idaho, New Mexico, Wyoming, and Missouri
- Energy Laboratories, located in Casper, Wyoming NELAP accredited Certifications USEPA: WY00002; FL-DOH NELAC: E87641; Oregon: WY200001; Utah: WY00002; Washington: C1012
- Inter-Mountain Laboratory (now Pace Analytical), located in Sheridan, Wyoming -EPA, DOE, and several other accreditations (http://intermountainlabs.com/certifications.html)

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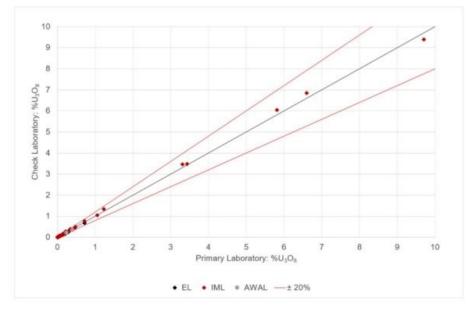
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The number of check assay samples sent to each laboratory is presented in Table 11-6. Because Inter-Mountain Labs (IML) is the only laboratory with a significant number of samples, and the only laboratory to include CRMs, it was chosen for comparison with the primary laboratory at White Mesa Mill. Scatter plots of the primary and independent laboratory results for U_3O_8 and copper are shown in Figure 11-4 and Figure 11-5, respectively.

Table 11-6:Check Assays ListEnergy Fuels Inc. - Pinyon Plain Project

Laboratory	No. Check Assay Samples Sent	No. Cu CRMs Sent
American West Analytical Labs	10	-
Energy Laboratories	5	-
Inter-Mountain Labs	99	11
Total	114	11

The results indicate a slight low bias of both copper and U_3O_8 results at White Mesa Mill. This finding is supported by the low bias observed in the copper CRM results from White Mesa Mill. Copper CRM results from IML are not conclusive due to the small number of samples submitted, however, the CRM results from IML were mostly slightly above the expected value, with no failures.



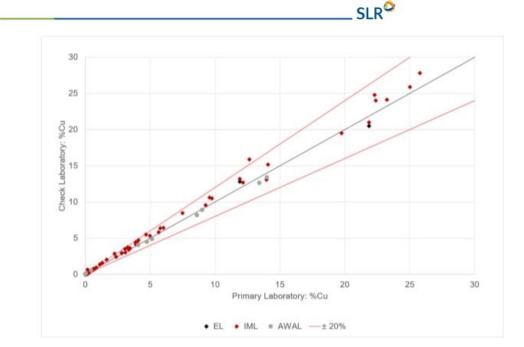
Notes:

- 1. EL = Energy Laboratories
- 2. IML = Inter-Mountain Labs
- 3. AWAL = American West Analytical Labs



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Notes:

- 1. EL = Energy Laboratories
- 2. IML = Inter-Mountain Labs
- 3. AWAL = American West Analytical Labs

Figure 11-5:

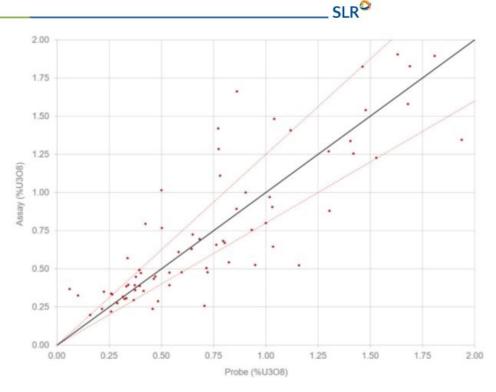


11.3.5 Comparison of Probe vs. Assay Results

A total of 97,944 U_3O_8 0.5 ft probe samples were included in the Mineral Resource database where chemical assay data were not available. To check for disequilibrium and ensure that no bias was present between assay and probe results, EFR assayed several drill holes for which probe data were available. Drill hole intervals in the Main Zone were flagged and weighted averages were calculated for the results of each method over the interval of interest. These weighted averages were then compared using basic statistics, including scatter and quantile-quantile plots. A total of 14 sample pairs were removed that returned results above 2% U_3O_8 , to account for probe saturation. A scatter plot of the 77 sample pair results is shown in Figure 11-6.

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The results indicate good correlation between the assay and probe data, with negligible bias.

11.4 Density Analyses

Bulk densities were determined at White Mesa Mill for a majority of the samples submitted (2,630 of 3,347). A single piece of split core sample, at least four inches in length, was measured in all dimensions using calipers to calculate volume, and then weighed dry. Density was calculated using the measured volume and the mass. An additional 37, full core, six-inch samples, were submitted to White Mesa Mill to verify the caliper method. These 37 full core samples were measured with calipers to calculate volume and then weighed dry. Additionally, these samples were immersed in water to determine volume via water displacement. The densities calculated by both methods were compared. The densities calculated using the caliper method were approximately 1% greater than those calculated using water displacement on the same core samples, which is a negligible difference.

11.5 Conclusions

The SLR QP is of the opinion that the sample security, analytical procedures, and QA/QC procedures used by EFR meet industry best practices and are adequate to estimate Mineral Resources.

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12.0 DATA VERIFICATION

Data verification is the process of confirming that data has been generated with proper procedures, is transcribed accurately from its original source into the project database and is suitable for use as described in this Technical Report.

As part of the resource estimation procedure, drill data is spot checked by EFR personnel and audited by the SLR QP for completeness and validity.

12.1 SLR Data Verification (2021)

The SLR QP visited the Project on November 16, 2021. Discussions were held with the EFR technical team and found them to have a strong understanding of the mineralization types and their processing characteristics, and how the analytical results are tied to the results. The SLR QP received the project data from EFR for independent review as a series of MS Excel spreadsheets and Vulcan digital files. The SLR QP used the information provided to validate the Mineral Resource interpolation, tons, grade, and classification.

12.2 Audit of Drill hole Database

The SLR QP conducted a series of verification tests on the drill hole database provided by EFR. These tests included a search for missing information and tables, unique location of drill hole collars, and overlapping sample or lithology intervals. Empty tables were limited to lithology, alteration, and geotechnical results. No database issues were identified.

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12.3 Verification of Assay Table

The SLR QP compared 100% of the assay sample database for both copper and uranium to assay results in Excel format from White Mesa Mill. Several values in the database were recorded at 0% Cu or 0% U_3O_8 . The industry standard is to record assays which return a value below detection limit at a value equal to half the detection limit. This is not expected to materially impact the Mineral Resources. No other discrepancies were found.

12.4 Limitations

There were no limitations in place restricting the ability to perform an independent verification of the Project drill hole database.

12.5 Conclusion

The SLR QP is of the opinion that database verification procedures for the Project comply with industrystandards and are adequate for the purposes of Mineral Resource estimation.

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13.0 MINERAL PROCESSING AND METALLURGICAL TESTING

13.1 Metallurgical Testing

Preliminary metallurgical bench tests have been completed on samples from the Project to determine both uranium and copper metallurgical performance. Copper mineralization presents an upside to the Project, but is not considered as part of this PFS.

Test work was completed at the White Mesa Mill's metallurgical laboratory while confirmatory testing was conducted at the Australian Nuclear Science and Technology Organization (ANSTO), an independent metallurgical laboratory in New South Wales, Australia, that operates a Quality Management System which complies with the requirements ISO 9001:2015 for conduct of strategic and applied nuclear research across three themes, Nuclear Fuel Cycle, Environment, and Human Health Testing included conventional acid leaching, flotation of conventionally leached residue, and roasting pre-treatment followed by conventional acid leaching. The primary goal of the work was to determine if the existing White Mesa Mill process flow sheet would be suitable for processing the Project's mineralized material types, and if not, what process flow sheet would be appropriate while minimizing capital modifications to the White Mesa Mill circuit.

Several metallurgical testing programs have been completed on the Project's mineralized material types. The goal of these tests is to maximize uranium and copper recoveries, and to minimize changes to the White Mesa Mill circuit and any associated capital requirements, while also minimizing process operating costs and uranium deportment to the final copper product.

Two metallurgical composites were used for testing during 2016 and 2017.

The first metallurgical composite was created in October 2016 and was made from 37 core samples. White Mesa Mill laboratory testing showed the average grades for this composite were 0.81% U₃O₈ and 9.78% Cu. This composite was the most representative of the Main Zone of the deposit from the samples available at the time. Testing was done on this composite from October 2016 to January 2017. The preliminary conventional acid leaching test work was conducted to determine uranium and copper recoveries. Leaching conditions, including temperature, solids density, and free acid and chlorate dosages, were varied between a total of 17 tests.

Uranium recoveries were high for this test series ranging from 96.3% to 99.8%. Copper recoveries were significantly lower ranging from 18.7% to 55.5%. Sulfuric acid consumption was higher than normal for ores treated at White Mesa Mill ranging between 221 pounds per short ton (lb/ton) to 670 lb/ton. Sodium chlorate consumptions were 0 lb/ton to 164 lb/ton of feed, which is significantly higher than the normal ore range of 0 lb/ton to 30 lb/ton.

Owing to the poor copper metallurgical performance during conventional acid leaching, flotation testing of conventional leaching residue was examined. Due to the possibility of uranium deportment to the copper concentrate, it was decided to run flotation concentration tests on leached residue in order to potentially minimize uranium concentrations. Flotation of copper worked very well with rougher copper recovery at 72% with a copper concentrate grade of 33.3%. Unfortunately, uranium deportment to the concentrate exceeded normal treatment charge/refining charge (TC/RC) limits at $0.105\% U_3O_8$, making flotation an unlikely processing option.

A second (and larger) composite was made in January of 2017 and was used for testing from that point on. This composite was the most representative of the Main Zone of the deposit from the samples available at the time. The metallurgical testing composite was generated from 60 core samples representing 240 ft of half drill core (approximately 360 lb) from the Pinyon Plain deposit. A split of this composite was also sent to ANSTO in Australia for independent testing. White Mesa Mill laboratory testing showed the average grades for this composite were $0.76\% U_3O_8$ and 9.93% Cu. The primary goal of this program was to determine the metallurgical response using the conventional acid leach process currently in use at White Mesa Mill. Summary results are presented in Table 13-1 below.

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13-1

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As expected, uranium recoveries averaged 93.4%, ranging from a low of 68.3% to 99.8%. Copper recoveries were considerably lower, averaging 26.9% and ranging from 4% to 53.7%. Reagent consumptions using the conventional leaching averaged 900 lb/ton for sulfuric acid and 20 lb/ton for chlorate.

Table 13-1: Conventional Acid Leach Test Results Energy Fuels Inc. - Pinyon Plain Project

Tost #	Metallurgical Recovery		est # Recovery largets						Ac	tual	Consumption (lb/ton)	
iest #	U3O8	Cu	Free Acid	Temp (ºF)	EMF	% Solids	Free Acid	EMF	Acid	Chlorate		
1	98.2	37.6	85	85	none	50	80.9	385	224.0	80.0		
2	98.0	48.6	80	80	500	50	76.4	443	434.0	128.0		
3	96.8	50.0	50	80	500	50	48.5	457	361.0	128.0		

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4	94.0	53.7	20	80	500	50	18.1	439	265.0	144.0
5	98.0	46.9	80	80	450	50	76.9	438	420.0	120.0
6	99.2	53.3	80	80	500	33	85.3	415	316.0	80.0
7	96.7	35.9	50	50	500	50	39.7	658	280.0	100.0
8	96.6	17.0	50	ambient	500	50	51.5	846	258.0	80.0
9	97.0	33.1	50	50	400	50	52.4	396	309.0	80.0
10	95.5	6.8	50	50	none	50	49.5	409	228.0	0.0
11	96.7	17.2	50	50	none	50	47.0	416	246.0	20.0
12	80.9	9.2	50	ambient	none	50	47.5	401	228.0	20.0
13	80.1	7.8	80	ambient	none	50	73.0	398	291.0	20.0
14	99.8	11.9	50	60	none	50	43.1	366	220.0	20.0
15	97.5	18.4	50	60	none	33	54.9	366	362.0	20.0
16	97.2	30.6	50	60	none	50	48.5	386	276.0	40.0
17	96.6	20.7	20	50	none	50	19.1	357	154.6	20.0
18	97.8	19.0	20	80	none	50	15.2	325	147.2	20.0
19	82.4	16.6	50	60	none	50	48.0	318	209.8	10.0
20	68.3	4.0	50	60	none	50	45.6	278	180.3	0.0
Avg.	93.4	26.9							270.5	56.5

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SLR Consumption **Metallurgical Recovery** Targets Actual (lb/ton) Test # Тетр Free U₃O₈ Free Acid EMF % Solids EMF Cu Acid Chlorate Acid (°F) Max. 99.8 53.7 434.0 144.0 Min. 68.3 4.0 147.2 0.0

13-2

Due to low copper recoveries, a series of tests were run to determine the effect of a roasting pre-treatment. Roasting temperatures were varied between 450°C. As shown in Table 13-2, roasting improved recoveries for both uranium and copper, averaging 86% and 87.6% respectively. Using the optimum roasting temperature of 650°C, recoveries averaged 91.6% for uranium and 94.9% for copper. Reagent consumptions on the roasted material averaged 250 lb/ton for sulfuric acid and 15 lb/ton chlorate using temperatures of 650°C for the roasting phase and 50°C for the leaching phase.

Table 13-2: Roasted Acid Test Results Energy Fuels Inc. - Pinyon Plain Project

Teet #	Roa	Roasting		al Recovery		Targ	gets		Act	ual		Imption /ton)
Test #	Temp (ºF)	Time	U ₃ O ₈	Cu	Free Acid	Temp (°F)	EMF	% Solids	Free Acid	EMF	Acid	Chlorate
2	450	45	78.8	85.2	80	60	none	4	76.9	379.0	5500	0
3	550	45	98.7	98.4	80	60	none	4	78.4	550.0	5500	0
4	650	45	99.2	92.2	80	60	none	4	78.4	603.0	5500	0
5	550	45	60.9	63.3	80	60	none	4	67.1	337.0	4600	0
7	550	45	95.4	87.3	80	60	none	4	59.8	536.0	4600	20
8	550	90	93.3	86.0	80	60	none	4	60.3	534.0	4600	20
9	550	45	85.3	81.8	80	80	none	4	72.0	349.0	4875	20
10	550	120	63.6	73.9	80	80	none	15	81.8	336.0	4325	0
11	650	120	94.7	96.0	80	80	none	15	75.5	432.0	4325	0
12	650	20	81.3	76.0	80	80	none	15	78.0	341.0	1195	0
13	650	40	89.3	87.4	80	80	none	15	80.9	382.0	1195	0
14	650	60	94.9	91.9	80	80	none	15	77.9	417.0	1195	0
15	650	60	76.4	88.4	20	20	none	15	24.0	322.0	460	0
16	650	60	82.8	92.0	50	50	none	15	49.9	400.0	775	0
17	650	60	82.6	92.6	20	80	none	15	20.6	405.0	506	0
18	650	60	84.0	90.3	80	20	none	15	76.0	354.0	1150	0
19	650	60	95.9	97.3	80	80	none	15	85.0	433.0	1380	0
20	650	60	99.1	92.2	20	50	none	15	17.6	555.0	450	10

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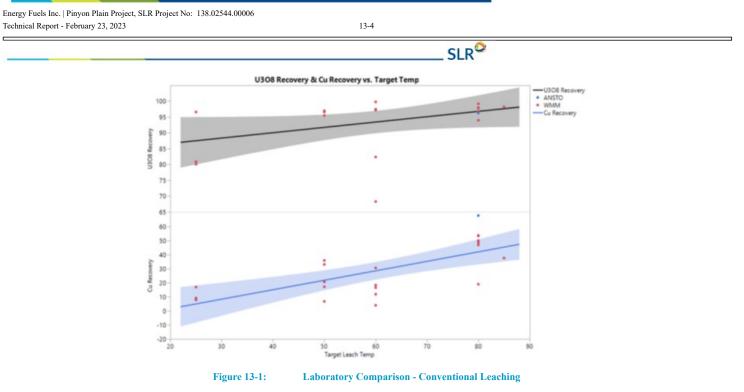
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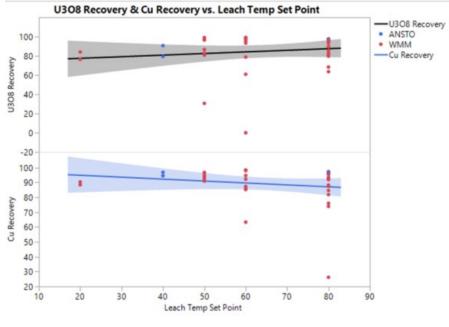
				Metallurgical Recovery U ₃ O ₈ Cu Free Temp EMF % Sol Acid (°F)	_ SLR ^O							
Toot #	Roasting		Roasting Recovery			Targ	gets		Act	ual	Consumption (lb/ton)	
lest #	Temp (ºF)	Time	U308	Cu		1	EMF	% Solids	Free Acid	EMF	Acid	Chlorate
21	650	60	30.6	90.9	30	50	none	40	30.9	412.0	318	10
22	650	60	79.7	93.3	80	80	none	40	83.3	396.0	580	0
23	650	60	97.8	95.4	none	80	none	33	41.7	458.0	479	10

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

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24	650	60	95.8	93.4	none	80	none	33	26.0	426.0	350	10
25	650	60	96.5	93.7	none	50	none	33	51.0	445.0	450	10
26	650	60	80.9	92.0	none	50	none	20	26.5	400.0	450	10
27	650	60	86.6	94.5	none	50	none	20	22.4	405.0	450	10
28	650	60	97.1	96.3	none	50	none	20	31.9	642.0	450	20
29	650	60	97.2	96.7	none	50	none	20	28.9	654.0	450	20
30	440	60	68.4	26.2	none	80	none	33	45.6	325.0	350	10
31	606	60	93.4	84.6	none	80	none	33	25.5	395.0	350	10
32	770	60	89.7	88.2	none	80	none	33	15.2	631.0	350	10
Avg.			86.0	87.6							1992.2	6.5
Max.			99.2	98.4							5500.0	20
Min.			30.6	26.2							317.5	0

Two different metallurgical testing programs have been completed at ANSTO's facilities in Australia. These series of tests were conducted on the second bulk composite generated at White Mesa Mill and coincide with the White Mesa Mill's program from January 2017. Pertinent test work focused on conventional acid leaching (one test) and roasting pre-treatment followed by acid leaching (six tests). Comparisons between the White Mesa Mill and ANSTO test work results are presented in Figure 13-2 for conventional leaching and roasting pre-treatment respectively. Results from the White Mesa Mill laboratory are in red and results from the ANSTO laboratory are blue. It should be noted that the results presented incorporate the entire data set and no outliers were culled.







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In 2018 Hazen Research Inc. (Hazen) in Golden, Colorado conducted bench- and pilot-scale programs to demonstrate copper extraction from ore at the Project. Hazen Research holds certifications from various state regulatory agencies and from the US Environmental Protection Agency (EPA). And ELI is NELAP accredited with certifications USEPA: WY00002; FL-DOH NELAC: E87641; Oregon: WY200001; Utah: WY00002; Washington: C1012.

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Bench-scale experiments were conducted to determine the preferred operating conditions for the pilot-scale roasting and leaching programs. Four roasting experiments were performed to evaluate two variables: temperature and excess air. Four batch, bench-scale sulfuric acid (H₂SO₄) leach tests of the batch calcines were conducted, using the leach conditions set by EFR, to measure roasting success. Four additional bench-scale leach tests of pilot kiln calcine and pre-roasted calcine also were conducted. The results of this work showed that uranium and copper recoveries exceeding 95% and 90%, respectively, could be expected from the Project ore evaluated in this program. Results suggested that leaching efficiency was controlled, in large part, by the degree of sulfide oxidation and that oxygen availability was a key variable in roasting.

A continuous roasting program was performed to demonstrate oxidative roasting of the Project ore and to generate calcine for subsequent pilot acid leaching. Target parameters for the pilot roast were discussed and accepted by EFR. The target parameters included a 4% to 5% oxygen concentration in the off-gas, 1-hour residence time, and 650°C burden temperature. Approximately 360 kg of ore were processed in the pilot kiln system. Roasted product (calcine) was collected continuously and sampled on an hourly basis. The product samples were assayed for acid insoluble sulfur to determine the extent of sulfide oxidation. The average sulfide oxidation from the product samples was 95%. During operations, a runaway temperature excursion occurred causing material to stick to the kiln wall. As a result, the residence time through the kiln may have been affected, as suggested by incomplete sulfide oxidation. A single batch pilot acid leach using 60 kg of pilot calcine was performed to confirm the leaching results and generate pregnant leach solution (PLS) for subsequent uranium and copper solvent extraction (SX). The conditions prescribed by EFR for the leach evaluation were 350 lb/ton H₂SO₄, 10 lb/ton sodium chlorate (NaClO₃), 33% solids, and 80°C. The leaching time was 24 hours in a 70 gal agitated tank; kinetic samples were obtained at two hours, four hours, and eight hours. The final slurry was filtered in a filtering centrifuge and washed thoroughly. The PLS and wash were collected; washed solids were dried and analyzed. Uranium extraction from calcine was 95% and copper extraction was 90% at 24 hours. Kinetic data suggested that leaching was essentially complete for both metals at eight hours.

Before uranium SX, deionized (DI) water was added to the PLS to simulate the dilution that would occur in countercurrent washing of leach solids. An eight-stage continuous SX circuit was assembled using glass mixers and settlers. Solvent (tertiary amine extractant [Alamine 336], isodecanol, aliphatic diluent) was mixed with the PLS and separated in four countercurrent stages, followed by solvent scrubbing, two sodium carbonate (Na₂CO₃) strip stages for uranium recovery and concentration, and a wash stage to prepare the solvent for recycling. The circuit was operated for 30 hours and demonstrated greater than 99% uranium extraction with only about 2.5 mg/L U₃O₈ reporting to the raffinate (tailings stream). The uranium SX was operated as a precursor to copper SX and was not in itself a research and development effort.

The combined uranium SX raffinate solution became feed to copper SX. Components of the uranium SX circuit, after cleaning and tubing replacement, were used to assemble the copper SX, and the stage configuration was identical. The copper SX solvent was 20% LIX 984N (aldoxime-ketoxime blend) in aliphatic diluent. The stripping agent was 180 g/L H_2SO_4 ; no copper was introduced into the strip feed to ensure that the copper cathode produced in the electrowinning (EW) step would be 100% ore-sourced. The copper SX circuit was operated for 35 hours over 4 days and produced 15.8 L of pregnant strip solution at a concentration of 38.2 g/L Cu. Copper extraction during steady-state operation exceeded 96%, with raffinate copper levels of less than 0.3 g/L.

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The copper SX strip product became feed to a small-scale, continuous copper EW operation. A single glass cell was assembled using a calcium-lead alloy anode and a stainless steel cathode. A small Hewlett Packard rectifier provided the power to apply a current density of 300 ampere per square foot (A/ft^2) to the cathode. The operation design targeted a 3 g/L to 4 g/L reduction in copper concentration, from 38 g/L Cu to 34 g/L Cu. This reduction was achieved over 64 hours of continuous operation, and an approximately 50 g copper plate was produced. An impurity scan of the copper product by glow discharge mass spectroscopy (GDMS) conducted by Northern Analytical Laboratory, Inc. (NAL), in Londonderry, New Hampshire, showed generally low levels or an absence of the 78 impurities analyzed. Lead was present at 300 ppm, which was attributed to loss from the lead anode caused by a nonoptimized EW setup and operation; commercial EW operation should minimize or eliminate lead as a cathode impurity.

During the bench- and pilot-scale programs, Hazen was able to demonstrate that extraction of copper from the Project ore using EFR's process is technically feasible. The data collected from the bench-scale experiments were repeatable in the pilot-scale demonstration in terms of uranium and copper extractions. The results and observations from both programs elucidated potential issues for commercial scaleup, including material stickiness during roasting and the formation of uranium precipitate (metazeunerite, $Cu(UO_2)2(AsO_4)2\cdot8H_2O)$ in diluted acid leach liquor.

Residual sulfide after roasting affects copper extraction as confirmed in the bench- and pilot-scale leaches. The average residual sulfide removed from the roasted products during the pilot-scale program was 95%, which resulted in a copper extraction of 90%.

During the pilot-scale roasting program, temperature excursions were experienced, likely due to the exothermic oxidation of sulfides. The temperature excursions caused the ore to become sticky, which may have affected the residence time through the kiln. There was still a considerable amount of residual sulfide on the roasted product, which suggests that material stuck on the kiln walls may have caused a decrease in the effective cross-sectional area of the kiln. At the end of the pilot roast program, the kiln was inspected and cleaned out. A total of 8 kg of material was found stuck on the kiln walls and required physical separation. Because of the short duration of the continuous roasting program, evaluating this phenomenon was not considered.

Acid leaching of calcine at the conditions established by EFR showed good uranium and copper dissolution, exceeding 90% for both metals in some experiments. Uranium appeared to leach more rapidly than copper. In one roast-leach experiment, copper extraction exceeded 90% in two hours of leaching; the batch roast conditions for this calcine sample were 650°C and double the standard airflow (six litres per minute, L/min). These and other data collected in the program confirm the relationship between sulfide oxidation and both leaching potential and leaching kinetics.

Uranium SX of the dilute acid leach PLS proceeded very well and showed excellent results; the use of tertiary amine for SX of uranium in a sulfate system is a proven and robust unit operation. The SX circuit operated well within the conditions evaluated. Hazen recommended that the formation of metazeunerite in the dilute PLS be further evaluated to determine the conditions of its precipitation, which deprives leach liquor of both uranium and copper.

Copper was successfully recovered from uranium SX raffinate by SX using LIX 984N. After circuit shakedown and adjustment of the overall extraction, the copper tenor in the raffinate was consistently less than 0.3 g/L Cu. Stripping using copper-free strong H₂SO₄ generated pregnant strip solution with more than 40 g/L Cu. Analysis of stripped,

washed organic showed approximately 3 g/L Cu, suggesting that an additional strip stage may have been beneficial. Arsenic was notably absent at a significant concentration in the strip product; therefore, it was unavailable as a potential impurity in copper EW.

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Copper EW from pregnant SX strip solution was carried out in a small glass cell using a single lead-calcium anode and single stainless steel cathode. Preoperational design resulted in achievement of the operating targets: 300 A/ft^2 current density, and a nominal 3 g/L Cu bite in a single pass. A 50 g copper plate was produced, which contained minimal impurities (as shown by GDMS analysis) other than lead, a typical contaminant when using a lead anode. Because of the short duration of the copper EW operation, optimization of the system was not evaluated. Therefore, further evaluation of the copper EW process is recommended to determine how improvements to impurity levels can be made. The lead content, especially, can be significantly reduced or eliminated through EW operational changes to reduce cell turbulence.

The roast-acid leach, uranium SX, copper SX, and copper EW process designed by EFR for the Pinyon Plain deposit and modeled at bench and pilot scale by Hazen comprises a series of proven, robust unit operations. Each of these operations performed well in the test work. Minor idiosyncrasies in some experimental work discussed in individual report sections herein may point to potential process optimization paths, however, the overall process showed strong competency to recover and concentrate the uranium and copper values. A summary of uranium and copper recoveries from each unit operation is provided in Table 13-3.

Table 13-3: Summary of Uranium and Copper Recoveries (Hazen) Energy Fuels Inc. - Pinyon Plain Project

Unit of Operation	Metallurgica	ıl Recovery (%)
Unit of Operation	U	Cu
Pilot Leach	95	90
Uranium SX	100	N/A
Copper SX	N/A	95
Copper EW	N/A	100
Overall Calculated Recoveries	95	86

Notes:

- 1. N/A = not applicable
- 2. Recoveries are calculated from the inputs and outputs of individual unit operations.

To economically produce copper cathode, the copper cathode grade will need to be considered when scaling to a commercial capacity. Based on the GDMS results from NAL, certain impurities may need to be further evaluated for refinement depending on market criteria.

13.2 Opinion of Adequacy

Copper test work indicates the best scenario to process the metal is using roasting, followed by acid leach and solvent extraction. Acid leach followed by solvent extraction is the current process used for uranium recovery. Following solvent extraction, a saleable copper product could be produced by electrowinning. To recover copper from the Pinyon Plain mineralized material, some modifications to White Mesa Mill process circuits would be required. The copper modifications would be expected to include the existing vanadium solvent extraction circuit for copper extraction, the addition of a roaster to improve copper recovery, and the addition of an electrowinning circuit. Bench and pilot scale test work done by HAZEN in 2018 indicates that acid leaching after roasting pre-treatment would result in satisfactory copper and uranium recoveries.

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The metallurgical test results provided by the White Mesa Mill, ANSTO, and Hazen indicate that metallurgical recoveries using optimum roasting and leach conditions are expected to be approximately 96% for uranium and 86 to 90% for copper.

The metallurgical composites that were used for metallurgical testing are representative of the various types and styles of copper and uranium mineralization for the Main Zone. The average U_3O_8 grades for these two test composites were close to the average grade of the U_3O_8 presented as a resource in this Technical Report.

There are no known processing factors or deleterious elements that could have a significant effect on potential economic extraction.

The White Mesa Mill has a significant operating history using the uranium SX circuit, which has included milling relatively high grade copper ores with no detrimental impact to the uranium recovery or product grade. Expected White Mesa Mill modifications to recover copper include utilizing the existing vanadium solvent extraction circuit for copper and the addition of an EW circuit. Carry over of uranium to the copper electrolyte is not expected and will be verified by future laboratory test work.

The SLR QP supports the conclusions of the expected performance of the metallurgical processes based on test work data from the White Mesa Mill, ANSTO, and Hazen, in addition to historical operating data from White Mesa Mill. In the SLR QP's opinion, the metallurgical test work is adequate for the purposes of Mineral Resource estimation.

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14.0 MINERAL RESOURCE ESTIMATE

14.1 Summary

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Mineral Resources have been classified in accordance with the definitions for Mineral Resources in S-K 1300, which are consistent with Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Definition Standards for Mineral Resources and Mineral Reserves dated May 10, 2014 (CIM, 2014) definitions which are incorporated by reference in NI 43-101.

The SLR QP has reviewed and accepted the Mineral Resource estimate prepared by EFR based on block models constrained with 3D wireframes on the principal mineralized domains. Mineralized values for U_3O_8 and copper values were interpolated into blocks using inverse distance squared (ID^2) or ordinary kriging (OK).

A geologic and resource model of the breccia pipe host was constructed based on drill logs. Mineralization wireframes for U_3O_8 were based on assays at a nominal cut-off grade of 0.15%. Low and high grade copper wireframes were based on nominal cut-off grades of 1% and 8%, respectively.

The previously reported Mineral Resources estimate with an effective date of December 31, 2021 (SLR, 2022) disclosed both uranium and copper Mineral Resources in the Main and Main-Lower zones and uranium only Mineral Resource in the Juniper Zone. Copper processing adds significantly higher milling costs and thus a higher equivalent uranium cut-off grade was used to report resources at the Main-Lower and Juniper zones. EFR has not included copper in the Mineral Resource estimate but recognizes that a copper circuit could be added to the mill in the future. As a result, uranium and copper mineralization are reported separately in this updated Mineral Resource. In addition, the following are important changes in the reporting of Mineral Resources:

- All previously reported uranium Mineral Resources in the Main Zone have been converted into Mineral Reserves (Section 15) based on designed mine stopes.
- In 2022, EFR moved from a General Aquifer Protection Permit to an Individual Aquifer Protection Permit with ADEQ. In an effort to protect the perched aquifer in the Coconino sandstone, ADEQ requested and EFR agreed to limit mining between the elevations of 5,340 ft and 4,508 ft. As a result, this updated Mineral Resource report excludes previously reported uranium mineralization from the Cap and Upper zones.

Table 14-1 summarizes the uranium Mineral Resource estimate based on a 65/lb uranium price at an equivalent uranium cut-off grade of 0.30% U₃O₈ for the Main-Lower and Juniper zones with an effective date of December 31, 2022. The Mineral Resource is in situ. The Resources stated in this Technical Report supersede any previous Mineral Resources reported for the Project.

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Table 14-1: Summary of Attributable Uranium Mineral Resources - Effective Date December 31, 2022 Energy Fuels Inc. - Pinyon Plain Project

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Classification	Zone	Cut-Off Grade	Tonnage	Grade	Contained Metal	Metallurgical Recovery U ₃ O ₈
		(% U ₃ O ₈)	(tons)	(% eU ₃ O ₈)	(lb U ₃ O ₈)	(%)
Indicated	Juniper I	0.3	37,000	0.95	703,000	96
Total Indicated	•		37,000	0.95	703,000	96
	Main-Lower	0.3	2,000	0.48	16,000	96
Inferred	Juniper I	0.3	2,000	0.58	24,000	96
	Juniper II	0.3	1,000	0.36	8,000	96
Total Inferred	Ĩ		5,000	0.50	48,000	96

Notes:

- 1. SEC S-K-1300 definitions were followed for all Mineral Resource categories. These definitions are also consistent with CIM (2014) definitions in NI 43-101.
- 2. Mineral Resources are estimated at $0.30\% U_3 O_8$ with estimated recoveries of 96% for uranium.
- 3. Mineral Resources are estimated using a long-term uranium price of US\$65 per pound.
- 4. No minimum mining width was used in determining Mineral Resources.
- 5. Bulk density is 0.082 ton/ft^3 (12.2 ft³/ton or 2.63 t/m³).
- 6. Mineral Resources are exclusive of Mineral Reserves and do not have demonstrated economic viability.
- 7. Numbers may not add due to rounding.
- 8. Mineral Resources are 100% attributable to EFR and are in situ.

There are no permitting constraints to EFR for processing the copper at the mill, and previous test studies conducted by Hazen (Price and Schwartz, 2018) shows that it is possible to process it. Depending on future copper price conditions, EFR may determine that it is economically beneficial to process the copper or may evaluate alternatively reprocessing it out of tails. It is also possible that additional development drilling in the Juniper Zone, expected to be completed in 2023, may encounter additional copper mineralization, making the process more economically viable.

Further study is required to determine if the copper associated with uranium mineralization in the reserve stopes may eventually be processed and add value to the project.

Table 14-2 lists the current estimated copper mineralization associated with the Main and Main-Lower zone resources at Pinyon Plain at a cut-off grade of 0.4% equivalent U_3O_8 due to higher processing costs for copper. Initial preliminary studies indicate that the copper does have reasonable prospects for economic extraction, however, at this time the Company's focus is on the uranium only.

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Table 14-2:	Summary of Attributable Copper Mineral Resources - Effective Date December 31. 7	2022

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Classification	Zone	Cut-Off Grade (% U ₃ O ₈ Eq)	Tonnage (tons)	Grade (% Cu)	Contained Metal (lb Cu)	Metallurgical Recovery Cu (%)
Measured	Main	0.4	6,000	9.6	1,155,000	90
Indicated	Main	0.4	90,000	5.9	10,553,000	90
Total Measured + Indicated			96,000	6.1	11,708,000	90
Inferred	Main-Lower	0.4	4,000	6.5	470,000	90

Notes:

- 1. SEC S-K-1300 definitions were followed for all Mineral Resource categories. These definitions are also consistent with CIM (2014) definitions in NI 43-101.
- For the Main and Main-Lower zones of the Pinyon Plain Project, a 0.40% uranium equivalent cut-off grade (% U₃O₈ Eq) was applied to account for both the copper and uranium mineralization. The %U₃O₈ Eq grade term is not the same as the eU₃O₈ % grade term which indicates probe rather than assay data listed elsewhere in this report.
- 3. Mineral Resources are estimated using a long-term uranium price of \$65 per pound and a copper price of \$4.00 per lb.
- 4. A copper to U₃O₈ conversion factor of 18.19 was used for converting copper grades to equivalent U₃O₈ grades (U₃O₈ Eq) for cut-off grade evaluation and reporting.
- 5. For the Pinyon Plain Project, Mineral Resource tonnages of uranium and copper cannot be added as they overlap in the Main and Main-Lower zones.
- 6. No minimum mining width was used in determining Mineral Resources.
- 7. Bulk density is 0.082 ton/ft^3 (12.2 ft³/ton or 2.63 t/m³).
- 8. Mineral Resources are exclusive of Mineral Reserves and do not have demonstrated economic viability.
- 9. Numbers may not add due to rounding.
- 10. Mineral Resources are 100% attributable to EFR and are in situ.

The SLR QP is of the opinion that with consideration of the recommendations summarized in Section 1 and Section 26, any issues relating to all relevant technical and economic factors likely to influence the prospect of economic extraction can be resolved with further work.

The SLR QP is of the opinion that there are no other known environmental, permitting, legal, social, or other factors that would affect the development of the Mineral Resources.

While the estimate of uranium and copper Mineral Resources is based on the SLR QP's judgment that there are reasonable prospects for economic extraction, no assurance can be given that Mineral Resources will eventually convert to Mineral Reserves.

14.2 Resource Database

As of the effective date of this report, EFR and its predecessors have completed 150 holes (45 surface and 105 underground) totalling 92,724 ft from 1978 to 2017. No drilling was conducted on the Project from 1994 to 2016. In 2016 and 2017, EFR completed 105 underground drill holes totalling 30,314 ft at the Project. For this Resource estimate, all holes drilled from underground and 25 of the 45 surface holes were used in the modeling of mineralization. Twenty surface holes were excluded because they are located outside the pipe and contain no mineralization.

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The Project resource database, dated June 17, 2017, includes drilling results from 1978 to 2017 and includes surveyed drill hole collar locations (including dip and azimuth), assay, radiometric probe, and lithology data from 130 diamond drill holes totalling 79,775 ft of drilling.

The resource dataset for the Main Zone is primarily based on assay data, supported by probe composites where assay data was not available. This practice is unique for Arizona Strip District uranium deposits, where standard practice is to use only probe assay data. The use of chemical assays within the Main Zone is due to the large copper component which is not captured with radiometric logging. A summary of the Project resource database is presented in Table 14-3.

Table 14-3:	Summary of Available Drill hole Data
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Table	Number of Decoude
Table	Number of Records
Collar	130
Survey	23,483
Geology	512
Geotech	488
Lab	3,651
Probe	120,942
Assay, including:	
Probe U_3O_8	97,994
Assay U_3O_8	3,409
Assay Cu	3,409

14.3 Geological Interpretation

14.3.1 Uranium

Uranium mineralization at the Project is concentrated in six vertical zones (Cap, Upper, Main, Main-Lower, Juniper I, and Juniper II) within a collapse structure ranging from 100 ft to 230 ft in plan section with a vertical extension from a depth of 650 ft to over 2,100 ft below ground surface, resulting in approximately 1,450 ft of mineralization vertically. Intercepts range widely up to several tens of feet, with grades in excess of $1.00\% U_3O_8$. Uranium mineralization is hosted within each zone; copper mineralization has been modeled within the Main and Main-Lower zones only. For reporting purposes, the six zones have been combined into three geologic zones: the Upper/Cap, Main, and Juniper Zones (Figure 14-1). The bulk of mineralization for both commodities is hosted within the Main Zone. At present, no structural features other than the pipe boundary have been incorporated into the geological model.

The model of the breccia pipe host was constructed based on drill logs. Geological interpretations supporting the estimate were generated by EFR personnel and audited for completeness and accuracy by the SLR QP. Topographical surfaces, solids, and mineralized wireframes were modeled using Maptek's Vulcan software.

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EFR created a series of north-south and east-west polylines spaced at 10 ft. The polylines were edited and joined together in 3D using tie lines. During this "stitching" process, polylines and/or tie lines were snapped to composite control intervals, which were interpreted using a 0.15% eU₃O₈ cut-off. Occasionally, lower grade intersections were included to facilitate continuity. Extension distance for the mineralized wireframes was half-way to the next hole, or approximately 20 ft vertically and horizontally past the last drill intercept. In total, 38 uranium wireframes, or domains, were contained within the three geologic zones and assigned identifier numbers for Upper/Cap (17 domains), Main (12 domains), and Juniper (9 domains). The domains ranged in size from 105 tons to 100,500 tons, for a total of 187,700 tons. Domains M 01 (Main) and J 1 01 (Juniper I) account for over 80% of the total tons. A detailed description of these two domains follows.

Within the M_01 domain, the uranium mineralization occurs within the structurally prepared breccia pipe and adjacent to the country rock forming a donut shape roughly 185 ft in diameter and extending from an elevation of 5,325 ft to 5,115 ft. Mineralization consists predominantly of uraninite/pitchblende that occurs as massive to semi-massive accumulations ranging in thickness from less than five feet to 50 ft but is generally in the 30 ft to 40 ft range (horizontally). Within this area, the center or throat of the breccia pipe is essentially barren of uranium mineralization.

EFR proposes that the underlying J_1_01 zone that extends from 4,925 ft elevation to 4,700 ft elevation may be the down-dropped center block of uranium mineralization from the overlying M 01 domain. The shape, depth extension, and horizontal thickness of the mineralization, which ranges from five feet to 50 ft but is generally 25 ft to 30 ft, generally mimics the dimensions of the unmineralized portion of the M_01 zone.

The SLR QP reviewed the uranium mineralization domains and found them to be appropriately extended beyond existing drilling, snapped, and referenced to the principal mineralization controls. The SLR QP recommends EFR continue to work to smooth the connection of the uranium wireframes between sections in future updates.

14.3.2 Copper

Copper mineralization models at Pinyon are restricted to the Main and Main-Lower zones. Copper mineralization present within the Juniper Zone has not been modeled at this time due to the much lower sample assay values overall. Final wireframe surfaces, as well as a cross section of mineralization from within the Main Zone, are shown in Figure 14-1.

Within the Main zone, the copper mineralization domain has been modeled at a nominal cut-off grade of 1% Cu, encapsulating mineralization within the breccia pipe. The mineralization tends to concentrate at the contact between the breccia pipe and the country rock, creating a toroid (donut) shape, and elongated at depth. A few flat lying structures carry mineralization into the center of the pipe. Mineralization ranges in thickness from five feet to 80 ft thick (horizontally) but is generally from 20 ft to 40 ft thick. The domain is located from 5,320 ft to 5,120 ft elevation and ranges from 50 ft. deep in the southeast of the breccia pipe and up to 200 ft deep elsewhere.

Additionally, a high grade domain has been modeled in the Main Zone at a cut-off grade of approximately 8% Cu. High grade mineralization also follows the contact with the country rock, but does not extend into the center, or to the southeast, creating a C-shape which is oriented to the southeast and vertically elongated. Mineralization has been modeled to be thickest in the northeast; however, this is also the region with the best access, and therefore the closest drill hole spacing, allowing for a more robust interpretation. The high grade domain is as elongate as the lower grade domain, but patchier, particularly at depth. The high grade domain accounts for approximately 30% of the total copper domain in the Main Zone. The copper domain overlaps approximately 50% of the uranium domain.

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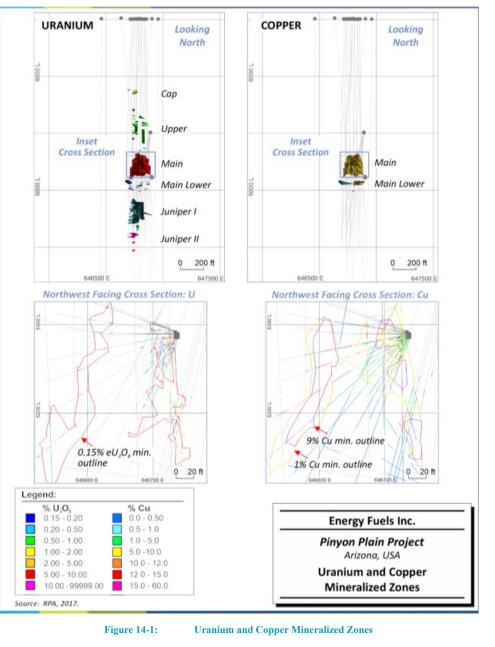
Within the Main-Lower Zone, mineralization has been captured within three separate wireframes, using a cut-off grade of 1% Cu, delineated using from one to five drill holes. As with the Main Zone, mineralization is modeled towards the edge of the breccia pipe. There is no high grade domain in the Main-Lower Zone.

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The SLR QP reviewed the copper mineralization domains and found them to be appropriately extended beyond existing drilling, snapped, and referencing the principal mineralization controls. The SLR QP recommends that future updates to the copper mineralization include some marginal material where appropriate to increase the continuity and volume of the wireframes, particularly the high grade copper wireframe.

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14.4 Resource Assays

The mineralization wireframe models were used to code the drill hole database and to identify samples within the mineralized wireframes. These samples were extracted from the database on a group-by-group basis, subjected to statistical analyses for their respective domains, and then analyzed by means of histograms and probability plots. A total of 5,203 samples were contained within the mineralized uranium wireframes. The sample statistics are summarized by zone in Table 14-4. The coefficient of variation (CV) is a measure of variability of the data.

Table 14-4:Summary Statistics of Uncapped U3O8 AssaysEnergy Fuels Inc Pinyon Plain Project							
Zone	Count	Minimum (%U ₃ O ₈)	Maximum (%U ₃ O ₈)	Mean (%U ₃ O ₈)	Variance	SD (%U ₃ O ₈)	CV
CAP	99	0.009	1.040	0.213	0.020	0.141	0.660
UPPER	733	0.000	4.585	0.337	0.160	0.405	1.200
MAIN	3,128	0.000	45.121	0.886	5.750	2.397	2.710
MAIN-LOWER	108	0.000	1.835	0.267	0.090	0.305	1.140
JUNIPER-1	955	0.000	22.720	0.612	2.580	1.606	2.630
JUNIPER-2	180	0.000	1.489	0.254	0.030	0.159	0.630
ALL ZONES	5,203	0.000	45.121	0.710	4.010	2.002	2.820

14.5 Treatment of High Grade Assays

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14.5.1 Capping Levels

Where the assay distribution is skewed positively or approaches log-normal, erratic high grade assay values can have a disproportionate effect on the average grade of a deposit. One method of treating these outliers to reduce their influence on the average grade is to cut or cap them at a specific grade level. In the absence of production data to calibrate the capping level, inspection of the assay distribution can be used to estimate a "first pass" cutting level.

The SLR QP is of the opinion that the influence of high grade uranium assays must be reduced or controlled and uses a number of industry best practice methods to achieve this goal, including capping of high grade values. The SLR QP employs a number of statistical analytical methods to determine an appropriate capping value including preparation of frequency histograms, probability plots, decile analyses, and capping curves. Using these methodologies, the SLR QP examined the selected capping values for the mineralized domains for the Project.

Examples of the capping analysis are shown in Figure 14-2 and Figure 14-3 as applied to the data set for the mineralized domains. Very high grade uranium outliers were capped at $15\% U_3O_8$ within the M_01 and J_1_01 domains, resulting in a total of 16 capped assay values. Capped assay statistics by zones are summarized in Table 14-5 and compared with uncapped assay statistics.

In the SLR QP's opinion, the selected capping values are reasonable and have been correctly applied to the raw assay values for the Pinyon Plain Mineral Resource estimate.

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Table 14-5: Summary Statistics of Uncapped vs. Capped Assays Energy Fuels Inc. - Pinyon Plain Project

Zone	С	ap	Up	per	Ma	ain
Descriptive Statistics	Uncap	Сар	Uncap	Сар	Uncap	Сар
Number of Samples	99	99	733	733	3,128	3,128
Minimum (%U ₃ O ₈)	0.009	0.009	0.000	0.000	0.000	0.000
Maximum (%U ₃ O ₈)	1.040	1.040	4.585	4.585	45.121	15.000
Mean (%U ₃ O ₈)	0.213	0.213	0.337	0.337	0.886	0.842
Variance	0.020	0.020	0.160	0.160	5.750	3.710
SD (%U ₃ O ₈)	0.141	0.141	0.405	0.405	2.397	1.927
CV	0.660	0.660	1.200	1.200	2.710	2.290
Number of Caps	0	0	0	0	0	13
Zone	Main-	Lower	Juni	per-1	Juni	per-2
Descriptive Statistics	Uncap	Cap	Uncap	Сар	Uncap	Сар
Number of Samples	108	108	955	955	180	180
Minimum (%U ₃ O ₈)	0.000	0.000	0.000	0.000	0.000	0.000
Maximum (%U ₃ O ₈)	1.835	1.835	22.720	15.000	1.489	1.489
Mean ($%U_3O_8$)	0.267	0.267	0.612	0.595	0.254	0.254
Variance	0.090	0.090	2.580	2.000	0.030	0.030
SD (%U ₃ O ₈)	0.305	0.305	1.606	1.414	0.159	0.159
CV	1.140	1.140	2.630	2.380	0.630	0.630
Number of Caps	0	0	0	3	0	0

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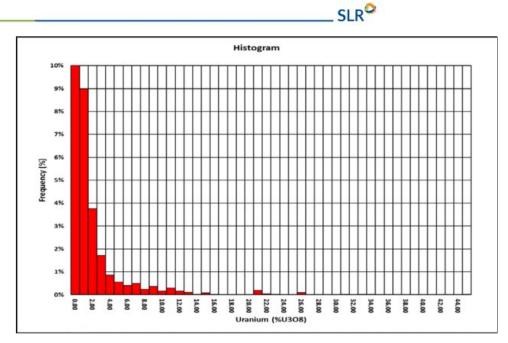
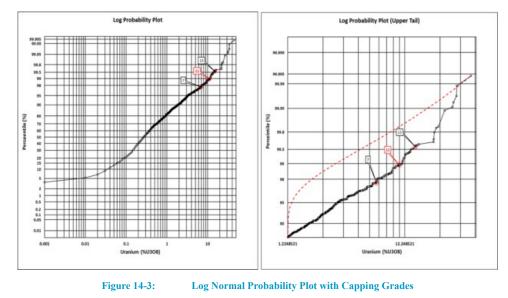


Figure 14-2: Histogram of U₃O₈ Resource Assay in M_01 and J_1_01 Domains



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14.5.2 High Grade Restriction

In addition to capping thresholds, a secondary approach to reducing the influence of high grade composites is to restrict the search ellipse dimension (high yield restriction) during the estimation process. The threshold grade levels, chosen from the basic statistics and from visual inspection of the apparent continuity of very high grades within each estimation domain, may indicate the need to further limit their influence by restricting the range of their influence, which is generally set to approximately half the distance of the main search.

Upon review of the capped assays, the SLR QP agrees with EFR's approach that no high grade restrictions are required for a Mineral Resource estimation.

14.6 Compositing

Composites were created from the capped, raw assay values using the downhole compositing function of Maptek's Vulcan modeling software package. The composite lengths used during interpolation were chosen considering the predominant sampling length, the minimum mining width, style of mineralization, and continuity of grade. The majority of assay intervals within the mineralized domains varied in length from 0.5 ft (probe data) to 10 ft (assay data), as presented in Figure 14-4, with a few samples outside this range. Most assay samples were four feet, and the drill hole samples were composited to four feet, starting at the wireframe pierce point for each domain, continuing to the point at which the hole exited the domain. A small number of unsampled and missing sample intervals were ignored. Residual composites were maintained in the dataset. The composite statistics by zone are summarized in Table 14-6.

Summary of Uranium Composite Data by Zone Energy Fuels Inc. - Pinyon Plain Project

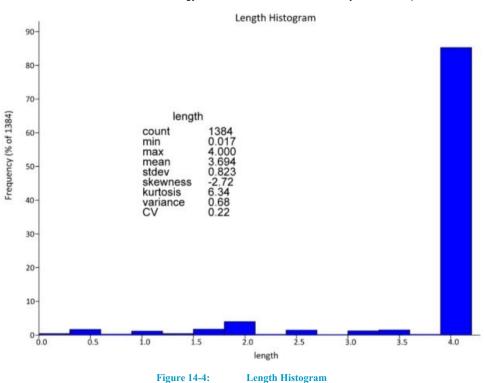
Zone	Count	Minimum (%U ₃ O ₈)	Maximum (%U ₃ O ₈)	Mean (%U ₃ O ₈)	Variance	SD (%U ₃ O ₈)	CV
CAP	16	0.076	0.689	0.220	0.022	0.148	0.670
UPPER	101	0.055	1.683	0.335	0.069	0.263	0.786
MAIN	1015	0.000	15.000	0.847	2.589	1.609	1.900
MAIN_LOWER	41	0.000	1.152	0.251	0.064	0.253	1.006
JUNIPER-1	186	0.000	14.130	0.691	2.402	1.550	2.244
JUNIPER-2	25	0.119	0.619	0.252	0.010	0.102	0.405
ALL ZONES	1384	0.000	15.000	0.753	2.262	1.504	1.997

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14.7 Trend Analysis

14.7.1 Variography

EFR generated downhole and directional variograms using the four-foot U_3O_8 composite values located within the M_01 and J_1_01 mineralized domains (Figure 14-5) for uranium. The variograms were used to support search ellipsoid anisotropy, linear trends observed in the data, and Mineral Resource classification decisions.

Long range directional variograms were focused in the primary plane of mineralization, which commonly strikes northeast and dips steeply to the southeast. Most ranges were interpreted to be from 40 ft to 60 ft.

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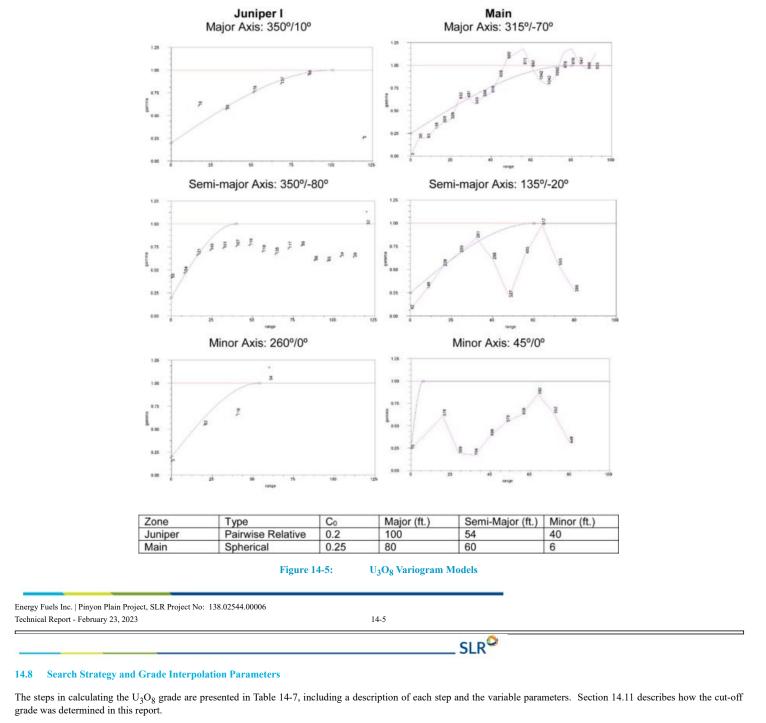


Table 14-7: Estimation Steps of Block Model Variables Energy Fuels Inc. - Pinyon Plain Project

Step	Description	Variable Name
	Steps 1 and 2 estimate U ₃ O ₈ g	rade within individual wireframes
1	Build Uranium Estimation File	1 st Pass Estimation: canu_est_pass_1_final.bef
		2 nd Pass Estimation: canu_est_pass_2_final.bef
		3 rd Pass Estimation: canu_est_pass_3_final.bef
	Run Uranium Estimation File:	
2	Calculates U_3O_8 ok (2 triangulations) and U_3O_8 idw (38	All Uranium: July_2017_43101_Est_Run_File_U_Only.ber
	triangulations) variables	
	Steps 3 and 4 calculate U ₃ O ₈ _final (com	bines U ₃ O ₈ _ok and U ₃ O ₈ _idw estimations)
3	Block->Manipulation->Calculate	
	Variable Name:	U ₃ O ₈ _final
	Calculation =	U ₃ O ₈ _ok
	OK	
	Select Blocks by bounding triangulation:	ore.tri/U ₃ O ₈ .tri/ok.00t to calc U ₃ O ₈ _final from U ₃ O ₈ _ok
	Select Block centers	
4	Block->Manipulation->Calculate	

Variable Name:	$\rm U_3O_8_final$
Calculation =	U ₃ O ₈ _idw
OK	
Select Blocks by bounding triangulation:	ore.tri/U3O8.tri/idw.00t to calc U3O8_final from U3O8_idw
Select Block centers	

Estimation of uranium grades was controlled by the grade zones. In the larger domain wireframes, search ellipsoid geometry of the major, semi-major, and minor axis was oriented into the structural plane of the mineralization, as indicated by the variography ranges for each domain. Within the small domain wireframes, the search ellipse was isotropic. The interpolation strategy involved setting up search parameters in three nested estimation runs for each domain. Each subsequent pass was doubled in size. A maximum of three passes was employed to interpolate all blocks.

First, second, and third pass search ellipses maintained normalized anisotropic ratios. Grade interpolation was carried out using OK on mineralized domains M_01 and J_1_01 with ID^2 on all remaining mineralized domains. Depending on the pass and domain wireframe, a minimum of one to eight to a maximum of 1 to 16 composites per block estimate were employed, with a maximum of two to six composites per drill hole. Hard boundaries were used to limit the restrict composites to within the domain wireframe in which they were located. A nearest neighbor (NN) block model was also prepared for comparison purposes. Search parameters are listed in Table 14-8 for the Project.

In order to reduce the influence of very high grade composites, grades greater than a designated threshold level for each domain were restricted to shorter search ellipse dimensions. The threshold grade level of $7\% eU_3O_8$ was chosen from the basic statistics and from visual inspection of the apparent continuity of very high grades within each domain, which indicated the need to limit their influence to 32 ft by 22 ft by 4 ft or 40 ft by 21.6 ft by 16 ft, domain dependant.

Table 14-8:Uranium Interpolation PlanEnergy Fuels Inc. - Pinyon Plain Project

Domain	Wireframe1	Interp. Type	Bearing/Plunge	First Pass Dimensions (ft)
CAP	c_01	ID^2	335°/-1°	64 x 44 x 8
CAP	c_03	ID^2	345°/1°	64 x 44 x 8
UPPER	u_04	ID^2	84°/-33°	64 x 44 x 8
UPPER	u_08	ID^2	44.5°/-10°	64 x 44 x 8
UPPER	u_09	ID^2	44.5°/-4°	64 x 44 x 8
UPPER	u_10	ID^2	150°/-28°	64 x 44 x 8
UPPER	u_12	ID^2	177°/2°	64 x 44 x 8
MAIN	m_01	OK	315°/-70°	64 x 44 x 8
MAIN-LOWER	ml_01	ID^2	345°/0°	64 x 44 x 8
MAIN-LOWER	ml_02	ID^2	356.5°/12°	64 x 44 x 8
MAIN-LOWER	ml_05	ID^2	245.5°/-5°	64 x 44 x 8
MAIN-LOWER	ml_06	ID^2	287.5°/4°	64 x 44 x 8
MAIN-LOWER	ml_08	ID^2	62.5°/-33°	64 x 44 x 8
JUNIPER I	j_1_01	OK	350°/10°	80 x 43.2 x 32
JUNIPER I	j_1_02	ID^2	298°/-3°	64 x 44 x 8
JUNIPER II	j_2_01	ID^2	284.5°/0°	64 x 44 x 8

Notes:

1. Wireframes not included in this table were interpolated using an omnidirectional search ellipse, the first pass of which was 20 ft x 20 ft x 20 ft.

14.9 Bulk Density

Bulk density was determined by EFR with specific gravity (SG) measurements on drill core by measuring a minimum four-inch piece of core in all directions with calipers to determine a volume. The sample is then weighed to get a mass and the density calculated. This method was used to determine the density of 2,857 samples. The density is modeled using inverse distance weighting squared and an average value across the deposit of 0.082 t/ft³ was calculated.

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This method of density determination was validated using the water immersion method according to the Archimedes principle, after the core has been sealed in wax. SG is calculated as weight in air (weight in air - weight in water). Under normal atmospheric conditions, SG (a unitless ratio) is equivalent to density in t/m^3 . The validation utilized 37 bulk density measurements that were collected on six-inch drill core samples from the main mineralized zones to represent local major lithologic units, mineralization styles and alteration types. Samples were collected on full core, which had been retained in the core box prior to splitting for sampling. EFR determined the difference between the caliper method and water immersion method is about 1% in favor of the caliper method.

A global density of 0.082 t/ft³ was assigned to the block model.

14.10 Block Models

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All modeling work was carried out using Maptek's Vulcan software version 10.0 software. The Pinyon Plain block model has 4 ft by 4 ft by 4 ft whole blocks and an origin at 646,630 ft East, 1,776,530 ft North, 4,450 ft elevation. The block model is not rotated, and extends 360 ft east-west, 320 ft north-south and 1,460 ft elevation. Before grade estimation, all model blocks were assigned density and mineralized domain codes (copper and uranium), based on majority rules. A summary of the block model variables is provided in Table 14-9.

Table 14-9: Summary of Block Model Variables Energy Fuels Inc. - Pinyon Plain Project

Variable	Туре	Default	Description	
U ₃ O ₈ _ok	Double	-99	U ₃ O ₈ estimation using ordinary kriging	
U ₃ O ₈ _idw	Double	-99	U_3O_8 estimation using inverse distance	
U ₃ O ₈ _nn	Double	-99	U_3O_8 estimation using nearest neighbor	
ok_u_est_flag	Integer	0	Ordinary Kriging Estimation Flag	
ok_u_samp_flag	Integer	0	No. of samples used in ordinary kriging	
ok_u_holes_flag	Integer	0	No. of holes used in ordinary kriging	
idw_u_est_flag	Integer	0	Inverse Distance Estimation Flag	
idw_u_samp_flag	Integer	0	No. of samples used in inverse distance	
idw_u_holes_flag	Integer	0	No. of samples used in inverse distance	
nn_u_nearest_samp	Double	0	Distance to nearest neighbor	
class	Integer	0	Block Classification	
dens	Double	0.082	Density of Block (Default is 12.2 cu ft/ton - 0.082)	
bound	Name	out	Mineralized Boundary Zone (C, U, M, ML, J_1, J_2)	
U ₃ O ₈ _final	Double	-99	Final U ₃ O ₈ idw or ok block grade	
u tri flag	Integer	0	block in U shape (in $=1$, out=0)	

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14.11 Cut-off Grade

Two cut-off grades were used for the resource estimate. For the uranium and copper bearing zones, a 0.40% uranium equivalent (% U_3O_8 Eq) cut-off grade was used. For the uranium-only zones, a 0.30% eU₃O₈ cut-off grade was used. The two cut-off grades account for separate process campaigns with different unit costs.

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Assumptions used in the determination of the Pinyon Plain uranium resource cut-off grade of 0.30% eU₃O₈ and the uranium and copper resource cut-off grade of 0.40% U₃O₈ Eq are presented in Table 14-10.

- Total operating cost (mining, G&A, processing) of US\$372. Per short ton for uranium only.
- Total operating cost (mining, G&A, processing) of US\$471. Per short ton for uranium + copper.
- Royalty cost of \$1.88/ton
- Process recovery of 96% for uranium and 90% for copper.
- Uranium price of US\$65.00/lb and copper price of US\$4.00/lb. The prices are based on independent, third-party, and market analysts' average forecasts as of 2022, and the supply and demand projections are for the period 2023 to 2035. In the SLR QP's opinion, these long-term price forecasts are a reasonable basis for estimation of Mineral Resources.

Table 14-10:	Pinyon Plain Project Cut-off Grade Calculation for Mineral Resources
	Energy Fuels Inc Pinyon Plain Project

Item	Unit	Quantity
Metal Price Uranium	US\$/lb U ₃ O ₈	65.00
Metal Price Copper	US\$/lb Cu	4.00
Process Plant Recovery Uranium	%	96
Process Plant Recovery Copper	%	90
Mining Cost	US\$/ton processed	101.00
Surface Haulage Cost	US\$/ton processed	72.00
Processing Cost (Uranium + Copper)	US\$/ton processed	291.00
Processing Cost (Uranium)	US\$/ton processed	192.00
G&A Cost	US\$/ton processed	7.00
Total Operating Cost (Uranium + Copper)	US\$/ton processed	471.00
Total Operating Cost	US\$/ton processed	372.00
Royalty Cost	US\$/ton processed	1.88
lb/ton	*	2,000
Break-Even Cut-off Grade (Uranium +Copper (% U ₃ O ₈ Eq)	%	0.40
Break-Even Cut-off Grade (Uranium % eU_3O_8)	%	0.30

The SLR QP reviewed the operating costs and cut-off grade reported by EFR and is of the opinion they are reasonable for disclosing Mineral Resources.

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14.12 Classification

Classification of Mineral Resources as defined in SEC Regulation S-K subpart 229.1300 were followed for classification of Mineral Resources. The Canadian Institute of Mining, Metallurgy and Petroleum definition Standards for Mineral Resources and Mineral Reserves (CIM 2014) are consistent with these definitions.

A Mineral Resource is defined as a concentration or occurrence of material of economic interest in or on the Earth's crust in such form, grade or quality, and quantity that there are reasonable prospects for economic extraction. A mineral resource is a reasonable estimate of mineralization, considering relevant factors such as cut-off grade, likely mining dimensions, location, or continuity, that with the assumed and justifiable technical and economic conditions, is likely to, in whole or in part, become economically extractable. It is not merely an inventory of all mineralization drilled or sampled.

Based on this definition of Mineral Resources, the Mineral Resources estimated in this Technical Report have been classified according to the definitions below based on geology, grade continuity, and drill hole spacing.

Measured mineral resource is that part of a mineral resource for which quantity and grade or quality are estimated on the basis of conclusive geological evidence and sampling. The level of geological certainty associated with a measured mineral resource is sufficient to allow a qualified person to apply modifying factors, as defined in this section, in sufficient detail to support detailed mine planning and final evaluation of the economic viability of the deposit. Because a measured mineral resource has a higher level of confidence than the level of confidence of either an indicated mineral resource or an inferred mineral resource, a measured mineral resource may be converted to a proven mineral reserve or to a probable mineral reserve.

Indicated mineral resource is that part of a mineral resource for which quantity and grade or quality are estimated on the basis of adequate geological evidence and sampling. The level of geological certainty associated with an indicated mineral resource is sufficient to allow a qualified person to apply modifying factors in sufficient detail to support mine planning and evaluation of the economic viability of the deposit. Because an indicated mineral resource has a lower level of confidence than the level of confidence of a measured mineral resource, an indicated mineral resource to a probable mineral reserve.

Inferred mineral resource is that part of a mineral resource for which quantity and grade or quality are estimated on the basis of limited geological evidence and sampling. The level of geological uncertainty associated with an inferred mineral resource is too high to apply relevant technical and economic factors likely to influence the prospects of economic extraction in a manner useful for evaluation of economic viability. Because an inferred mineral resource has the lowest level of geological confidence of all mineral resources, which prevents the application of the modifying factors in a manner useful for evaluation of economic viability and an economic viability, an inferred mineral resource may not be considered when assessing the economic viability of a mining project and may not be converted to a mineral reserve.

The SLR QP has considered the following factors that can affect the uncertainty associated with each class of Mineral Resources:

- Reliability of sampling data:
- Drilling, sampling, sample preparation, and assay procedures follow industry standards.
- Data verification and validation work confirm drill hole sample databases are reliable.

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• No significant biases were observed in the QA/QC analysis results.

Confidence in interpretation and modeling of geological and estimation domains:

- Mineralization domains are interpreted manually in cross-sections and refined in longitudinal sections by an experienced resource geologist.
- There is good agreement between the drill holes and mineralization wireframe shapes.
- The mineralization wireframe shapes are well defined by sample data in areas classified as Measured and Indicated.

Confidence in block grade estimates:

Measured and Indicated block grades correlate well with composite data, statistically and spatially and locally and globally.

Blocks were classified as Indicated or Inferred based on drill hole spacing, confidence in the geological interpretation, and apparent continuity of mineralization.

14.12.1 Measured Mineral Resources

Classification of Measured Resources was limited to blocks contained in the Main Zone, directly adjacent to underground drilling station 1-4, where 67 drill holes were collared in a fan pattern on general drill hole spacing of 15 feet. A cross section of block classification in the Main Zone is shown in Figure 14-6. All Measured and Indicated Resources in the Main Zone have been converted to Reserves and are excluded from the current Mineral Resource estimate.

14.12.2 Indicated Mineral Resources

The remainder of the blocks within the Main Zone, as well as the blocks in primary wireframe within Juniper I, j_1_01 , were assigned a classification of Indicated, in which drill hole pierce point spacing is generally less than 25 feet from underground drilling station 1-4.

14.12.3 Inferred Mineral Resources

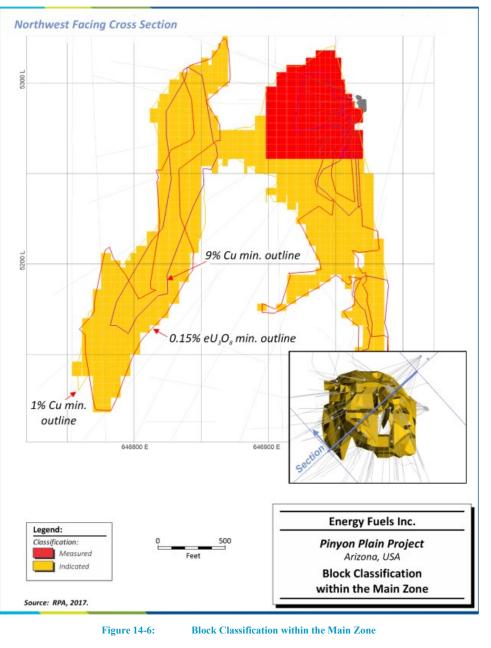
All remaining blocks in the model were limited to an Inferred classification.

In the SLR QP's opinion the classification of Mineral Resources is reasonable and appropriate for disclosure.

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14.13 Block Model Validation

The SLR QP reviewed and validated the block model using various modeling and interpolation aspects of the Pinyon Plain model. Observations and comments from the model validation are provided below.

Mineralization wireframes were checked for conformity to drill hole data, continuity, similarity between sections, overlaps, appropriate terminations between holes and into undrilled areas, and minimum mining thicknesses. The wireframes were snapped to drill hole intervals, are reasonably consistent, continuous, and generally representative of the extents and limits of the mineralization. The SLR QP recommends that EFR continue to work to smooth the connection of the uranium wireframes between sections in future updates.

Capping statistics were reviewed and audited for a series of individual zones and compared to the statistics of capping groups defined by EFR. The SLR QP is satisfied with the chosen caps.

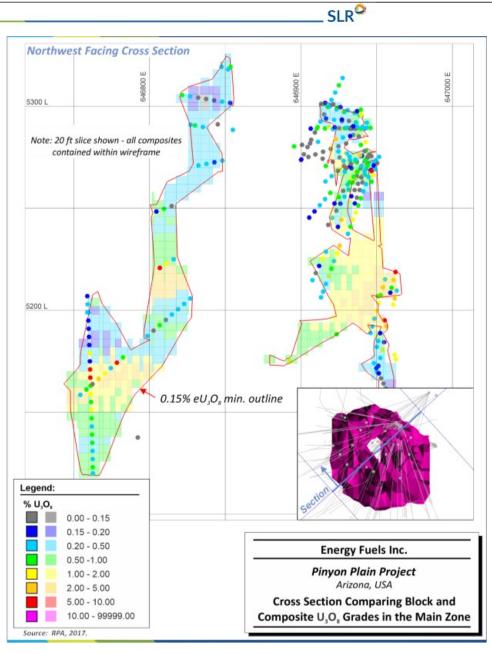
Compositing routines were checked to confirm that composites started and stopped at the intersections with the wireframes and that the composite coding is consistent with the wireframes. The SLR QP is satisfied with the compositing routines and finds the composites appropriate for Mineral Resource estimation.

Contact plots were prepared for selected mineralization domains and confirmed the appropriateness of hard boundaries between the domains during estimation.

Visual inspection and comparison of drill hole composites against mineralized solids were carried out for a number of sections with focus on the Main and Juniper I domains for both copper and uranium. The mineralized solids were found to conform reasonably well to the drill hole composite grades, although some evidence of smoothing was present. A cross section and plan section comparing uranium composite and uranium block grades are presented in Figure 14-7 and Figure 14-8.

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Cross Section Comparing Block and Composite $\mathrm{U}_3\mathrm{O}_8$ Grades in the Main Zone

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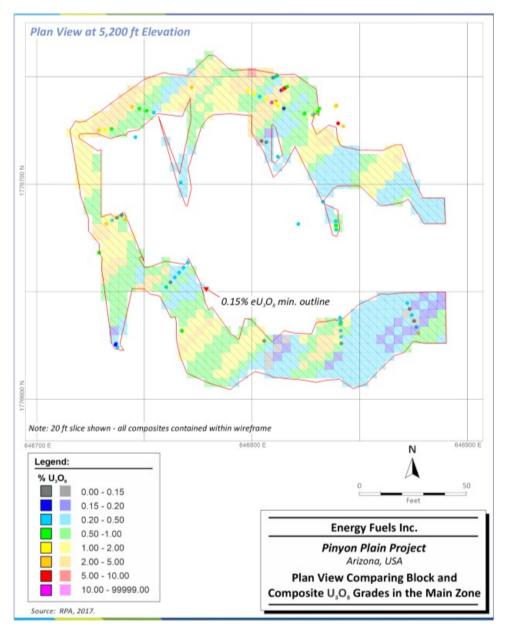


Figure 14-8:

Plan View Comparing Block and Composite U₃O₈ Grades in the Main Zone

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The SLR QP reviewed the variogram models for selected mineralization groups and prepared variogram models representing selected individual mineralization domains for comparison, then validated the trend of the variogram against observed trends and grade shells created in Leapfrog Geo software. The SLR QP recommends exploring the use of dynamic anisotropy for the interpolation of mineralization within the Main Zone in future updates, where mineralization follows the contact of the breccia pipe with the country rock.

The SLR QP validated the grades estimated in the block models prepared by EFR using basic statistics, visual inspection, volumetric comparison, swath plots, and a reestimation of a portion of the Main Zone using the ID^2 method. The grades of re-estimated areas were found to be within 10%.

A statistical comparison of the estimated block grades with the four-foot composites is shown in Table 14-11. The block results compare well with the composites, indicating a reasonable overall representation of the uranium grades in the block model.

Table 14-11:	Comparison of Block and Composite Uranium Grades
	Energy Fuels Inc Pinyon Plain Project

Domain	Туре	Count	Min	Max	Mean	Variance	SD	CV
CAP	Blocks	685	0.076	0.361	0.196	0.000	0.060	0.300
CAP	Comps	16	0.076	0.689	0.220	0.022	0.148	0.670
UPPER	Blocks	3,017	0.117	1.338	0.336	0.030	0.165	0.490
UPPER	Comps	101	0.055	1.683	0.335	0.069	0.263	0.786
MAIN	Blocks	19,339	0.069	10.887	0.872	0.910	0.953	1.090

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

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MAIN	Comps	1015	0.000	15.000	0.847	2.589	1.609	1.900
MAIN_LOWER	Blocks	1,397	0.016	0.884	0.233	0.030	0.170	0.730
MAIN_LOWER	Comps	41	0.000	1.152	0.251	0.064	0.253	1.006
JUNIPER-1	Blocks	10,516	0.034	11.831	0.724	1.110	1.054	1.460
JUNIPER-1	Comps	186	0.000	14.130	0.691	2.402	1.550	2.244
JUNIPER-2	Blocks	833	0.124	0.614	0.259	0.010	0.086	0.330
JUNIPER-2	Comps	25	0.119	0.619	0.252	0.010	0.102	0.405

14.14 Grade Tonnage Sensitivity

Table 14-12 shows the Indicated block model sensitivity to cut-off grade and uranium prices as represented in the grade tonnage curve shown in Figure 14-9.

Table 14-13 shows the Inferred block model sensitivity to cut-off grade and uranium prices as represented in the grade tonnage curve shown in Figure 14-10.

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Table 14-12: Block Model Sensitivity to Cut-off Grade and Uranium Price in the Main-Lower and Juniper Zones (Indicated) Energy Fuels Inc. - Pinyon Plain Project

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Price (\$/lb U ₃ O ₈)	Cut-Off Grade (%U ₃ O ₈) ¹	Tonnage (ton)	Grade (% U ₃ O ₈)	Contained Metal (lb U ₃ O ₈)
\$80	0.24	43,000	0.86	734,000
\$75	0.25	42,000	0.87	730,000
\$70	0.27	40,000	0.90	721,000
\$65	0.30	37,000	0.95	703,000
\$60	0.32	35,000	0.98	693,000
\$55	0.35	33,000	1.03	678,000
\$50	0.38	31,000	1.07	662,000
\$45	0.42	28,000	1.14	641,000
\$40	0.48	24,000	1.25	605,000
\$35	0.54	21,000	1.35	575,000
\$30	0.63	18,000	1.49	538,000
\$25	0.76	15,000	1.68	491,000

Notes:

- 1. U₃O₈ Recovery and operating costs held constant for sensitivity analysis.
- 2. Base Case Scenario

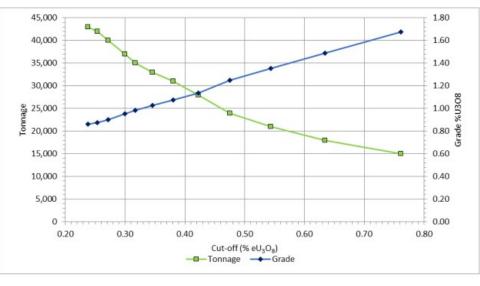


Figure 14-9:



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Table 14-13:

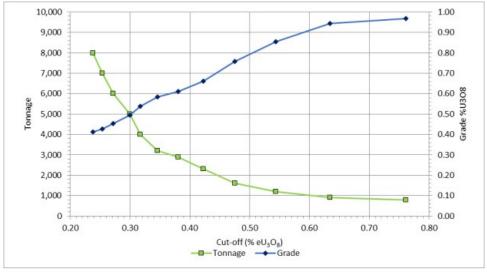
Block Model Sensitivity to Cut-off Grade and Uranium Price in the Main-Lower and Juniper Zones (Inferred) Energy Fuels Inc. - Pinyon Plain Project

SLR

Price (\$/lb U ₃ O ₈)	Cut-Off Grade (%U ₃ O ₈) ¹	Tonnage (ton)	Grade (% U ₃ O ₈)	Contained Metal (lb U ₃ O ₈)
\$80	0.24	8,000	0.41	63,000
\$75	0.25	7,000	0.43	60,000
\$70	0.27	6,000	0.45	55,000
\$65	0.30	5,000	0.50	48,000
\$60	0.32	4,000	0.54	43,000
\$55	0.35	3,200	0.58	38,000
\$50	0.38	2,900	0.61	35,000
\$45	0.42	2,300	0.66	31,000
\$40	0.48	1,600	0.76	24,000
\$35	0.54	1,200	0.85	20,000
\$30	0.63	900	0.94	17,000
\$25	0.76	800	0.97	15,000

Notes:

- 1. U_3O_8 Recovery and operating costs held constant for sensitivity analysis.
- 2. Base Case Scenario





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14.15 Mineral Resource Reporting

A summary of the Pinyon Plain uranium Mineral Resources is presented in Table 14-14. Mineral Resources are based on a 65/lb uranium price at an equivalent uranium cut-off grade 0.30% eU₃O₈₈. In the SLR QP's opinion, the assumptions, parameters, and methodology used for the Pinyon Plain Mineral Resource estimate is appropriate for the style of mineralization and mining methods. The effective date of the Mineral Resource estimate is December 31, 2022.

The SLR QP is of the opinion that with consideration of the recommendations summarized in Section 1 and Section 26, any issues relating to all relevant technical and economic factors likely to influence the prospect of economic extraction can be resolved with further work. There are no other known environmental, permitting, legal, social, or other factors that would affect the development of the Mineral Resources.

While the estimate of Mineral Resources is based on the SLR QP's judgment that there are reasonable prospects for economic extraction, no assurance can be given that Mineral Resources will eventually convert to Mineral Reserves.

Table 14-14: Summary of Attributable Uranium Mineral Resources - Effective Date December 31, 2022 Energy Fuels Inc. - Pinyon Plain Project

Classification	Zone	Cut-Off Grade	Tonnage	Grade	Contained Metal	Metallurgical Recovery U ₃ O ₈
		(% eU ₃ O ₈)	(tons)	(% eU ₃ O ₈)	(lb U ₃ O ₈)	(%)
Indicated	Juniper I	0.3	37,000	0.95	703,000	96
Total Indicated	_		37,000	0.95	703,000	96
	Main-Lower	0.3	2,000	0.48	16,000	96
Inferred	Juniper I	0.3	2,000	0.58	24,000	96
	Juniper II	0.3	1,000	0.36	8,000	96
Total Inferred	-		5,000	0.50	48,000	96

Notes:

1. SEC S-K-1300 definitions were followed for all Mineral Resource categories. These definitions are also consistent with CIM (2014) definitions in NI 43-101.

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- 2. Mineral Resources are estimated at 0.30% eU₃O₈ with estimated metallurgical recovery of 96% for uranium.
- 3. Mineral Resources are estimated using a long-term uranium price of US\$65 per pound.
- 4. No minimum mining width was used in determining Mineral Resources.
- 5. Bulk density is 0.082 ton/ft^3 (12.2 ft³/ton or 2.63 t/m³).
- 6. Mineral Resources are exclusive of Mineral Reserves and do not have demonstrated economic viability.
- 7. Numbers may not add due to rounding.
- 8. Mineral Resources are 100% attributable to EFR.

Table 14-15 lists the current estimated copper mineralization associated with the Main and Main-Lower zones at Pinyon Plain. Further study is required to determine if the copper associated with uranium mineralization in the zones may eventually be processed and add value to the project.

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Table 14-15: Summary of Attributable Copper Mineral Resources - Effective Date December 31, 2022 Energy Fuels Inc. - Pinyon Plain Project

Classification	Zone	Cut-Off Grade (% U3O8 Eq)	Tonnage (tons)	Grade (% Cu)	Contained Metal (lb Cu)	Metallurgical Recovery Cu (%)
Measured	Main	0.4	6,000	9.6	1,155,000	90
Indicated	Main	0.4	90,000	5.9	10,553,000	90
Total Measured + Indicated			96,000	6.1	11,708,000	90
Inferred	Main-Lower	0.4	4,000	6.5	470,000	90

Notes:

- 1. SEC S-K-1300 definitions were followed for all Mineral Resource categories. These definitions are also consistent with CIM (2014) definitions in NI 43-101.
- For the Main and Main-Lower zones of the Pinyon Plain Project, a 0.40% uranium equivalent cut-off grade (% U₃O₈ Eq) was applied to account for both the copper and uranium mineralization. The %U₃O₈ Eq grade term is not the same as the eU₃O₈ % grade term which indicates probe rather than assay data listed elsewhere in this report. For details, see the Pinyon Plain Project below.
- 3. Mineral Resources are estimated using a long-term uranium price of \$65 per pound and a copper price of \$4.00 per lb.
- 4. A copper to U₃O₈ conversion factor of 18.19 was used for converting copper grades to equivalent U₃O₈ grades (U₃O₈ Eq) for cut-off grade evaluation and reporting.
- 5. For the Pinyon Plain Project, Mineral Resource tonnages of uranium and copper cannot be added as they overlap in the Main and Main-Lower zones.
- 6. No minimum mining width was used in determining Mineral Resources.
- 7. Bulk density is 0.082 ton/ft^3 (12.2 ft³/ton or 2.63 t/m³).
- 8. Mineral Resources are exclusive of Mineral Reserves and do not have demonstrated economic viability.
- 9. Numbers may not add due to rounding.
- 10. Mineral Resources are 100% attributable to EFR.

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15.0 MINERAL RESERVE ESTIMATE

15.1 Summary

The Mineral Reserve estimate for Pinyon Plain, summarized in Table 15-1, is based on the Measured and Indicated Mineral Resources as of December 31, 2022, a detailed mine design, and modifying factors such as a feasible mining method, external dilution, and mining extraction factors. Mineral Resource to Mineral Reserve conversion was 100% within the Main Zone, with the remaining zones (Main-Lower and Juniper) not considered for inclusion as Mineral Reserves. No Inferred Mineral Resources were converted to Mineral Reserves.

Based on the similarity of the Pinyon Plain deposit to other past producing breccia pipe deposits in northern Arizona, the proposed mining methods at Pinyon Plain will include a combination of longhole stoping, shrinkage stoping, and drifting. Development rock will be temporarily stored on surface and then used at the end of mining to fill voids created by mining. Metallurgical test results provided by White Mesa Mill laboratory personnel indicated that metallurgical recoveries using optimum roasting and leach conditions will be approximately 96% for uranium.

The underground mine design completed by EFR was based on grade envelopes of assays at a nominal grade of 0.15% U₃O₈ using underground mining methods and processing via a toll milling agreement.

Current economic conditions, mine design, and cash flow analysis do not account for processing of copper mineralization and thus copper is excluded from the Mineral Reserve estimate.

	•	of Mineral Reserve els Inc Pinyon Pla	Estimate - December in Project	31, 2022	
Classification	Cut-Off Grade	Tonnage	Grade	Contained Metal	Metallurgical Recovery U ₃ O ₈
	(% U ₃ O ₈)	(tons)	(% U ₃ O ₈)	(lb U ₃ O ₈)	(%)
		Main Zone			
Proven	0.32	7,800	0.33	50,800	96
Probable	0.32	126,700	0.60	1,517,000	96

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

Total Proven + Probable	134,500	0.58	1,567,800	96
Notes:				

- SEC S-K-1300 definitions were followed for all Mineral Reserve categories. These definitions are also consistent with CIM (2014) definitions in NI 43-101. 1.
- Mineral Reserves are estimated using a long-term uranium price of US\$60.00/lb. 2.
- 3. Underground Mineral Reserves were estimated by creating stope shapes using a grade envelope of 0.15% U₃O₈, with a minimum mining width of 5 ft (including hanging wall and footwall dilution), on 10 ft vertical stope heights.
- The breakeven cut-off grade is $0.32\% U_3O_8$. 4.
- 5. A mining extraction factor of 95% was applied to the underground stopes, while underground development assumed a 100% mining extraction factor.
- 6. Mining Reserves are in situ.
- 7. The density varies according to the block model.
- Numbers may not add due to rounding. 8.

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The SLR QP is not aware of any mining, metallurgical, infrastructure, permitting, or other relevant factors that could materially affect the Mineral Reserve estimate.

15.2 Dilution

Dilution for the Mineral Reserve estimate was estimated as the material outside of the Mineral Resource limits but included within the stope designs in the application of the 0.15% U₃O₈ grade contour. The Mineral Reserves include 34,600 tons (35%) of dilution which has been included at zero grade.

The QP is of the opinion that the dilution estimate is appropriate considering:

- The irregular shape of the deposit
- The high grade nature of the ore
- The target of maximum extraction

Extraction 15.3

Extraction of the planned stopes is 95%. Long hole stope ore will be drilled from successive levels sequenced upward and blasted, dropping to the lowest mine level (the 5130 level), where it will be mucked and transported to the shaft loading pocket.. The potential for ore loss is reduced as the losses would only occur in the final stages of mucking and efforts to maximize extraction will reduce losses.

Cut-off Grade 15.4

The SEC defines cut off grade as "the grade that distinguishes material deemed to have no economic value (it will not be mined in underground mining or if mined in surface mining, its destination will be the waste dump) from material deemed to have economic value (its ultimate destination during mining will be a processing facility)". The calculated cut off grade for Pinyon Plain Mineral Reserves was based on modifying factors including metal prices, metallurgical recoveries, operating costs, and other operational constraints. Mine operating costs were based on historical operating costs for similar underground operations on the Arizona Strip operated by Energy Fuels and comparisons to underground mining cost models while mill operating costs and process recovery were based on current data.

Metal prices used for Mineral Reserves are based on industry institutions and other sources. For Mineral Resources, metal prices used are slightly higher than those for reserves. Metal pricing and the royalty cost are discussed in Sections 19.1 and 4.4 of this report, respectively.

The uranium cut off grade applied to the Mineral Reserves is 0.32% U₃O₈ for the Main Zone. Table 15-2 lists the assumptions used in determining the uranium cut off grade.

Item	Unit	Quantity
Metal Price	US\$/lb U ₃ O ₈	\$60.00
Process Plant Recovery	%	96.0%
Mining Cost	US\$/ton ore	\$101.00
Surface Haulage Cost	US\$/ton ore	\$72.00

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Item	Unit	Quantity
Processing	US\$/ton ore	\$192.00
G&A Cost		\$7.00
Total Operating Cost	US\$/ton ore	\$372.00
Royalty Cost	US\$/ton ore	\$1.88
Break-Even Cut-off grade	% U ₃ O ₈	0.32%

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Measured Mineral Resources were converted to Proven Mineral Reserves and Indicated Mineral Resources were converted to Probable Mineral Reserves. No Inferred Mineral Resources were converted to Mineral Reserves.

15.6 Reconciliation

Reconciliation cannot be performed on the Mineral Reserve estimate as there has been no ore production at the Project.

SLR recommends that EFR develop grade control and production reconciliation procedures to permit an ongoing evaluation of the Mineral Reserve estimation parameters (dilution and extraction) and to maximize the value of the production from the mine.

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16.0 MINING METHODS

The mine is an underground, vertical shaft access mine which is planned to be mined using small scale mechanized rubber tired equipment. Energy Fuels and its predecessors have mined numerous uranium bearing breccia pipes by underground methods dating back to the 1980s. Because mineralization can be found in fractures which range from a single fracture to intersections of many, forming large zones, several mining methods will be employed based on the size and geometry of the mineralization.

Ore will be mined by a combination of longhole stoping and shrinkage mining to suit the irregular nature of the deposit. Ore will be hoisted to surface, stored in a surface ore stockpile, and then transported by highway trucks to a processing facility. The shaft is 1,470 ft deep with mine production planned over a 150 ft vertical interval, from 1,223 ft below surface (approximately the 1-4 level of the shaft) to 1,376 ft below surface (approximately the 1-5 level of the shaft). A spiral ramp will be driven up from the 1-5 level to connect the planned sublevels and to connect to the shaft at the 1-4 level.

Mineral Reserves are located on the outer side of a roughly cylindrical shape with a diameter of 300 ft and a barren center with a diameter of approximately 50 ft. Mining sublevels are spaced at irregular intervals of 20 ft to 35 ft. An eight foot diameter return air raise, also functioning as an emergency escapeway, will be developed in the barren center of the deposit to a depth of 1,400 ft below surface.

16.1 Mine Design

The mine is currently accessed via a production shaft. The shaft is 1,470 ft deep with the 1-4 shaft station at approximately 5,283 ft ASL and the 1-5 station at 5,130 ft ASL. The shaft is equipped with a double drum hoist and is used for personnel and materials.

The stope design at Pinyon Plain was completed using Maptek's Vulcan mine software (Vulcan) and based on a block model also completed in the software. A grade shell from the block model at a 0.15% U₃O₈ grade guided the mine design process, which is less than the breakeven cut off grade of 0.32% for the Project. This accounted for planned dilution due to blasting overbreak around a given stope shape. In some cases, because of the narrow nature of the mineralized fractures, internal dilution was also included in the stope designs.

Drifts in ore and waste were designed to a minimum size of 10 ft x 10 ft, which also accounts for blasting overbreak. Ore production will be realized from these drifts and supplemented by breasting the back, ribs, and in some cases, floor pulls. However, longhole stoping will contribute the majority of ore tons in the mine plan, accounting for 71% of contained U_3O_8 . Longhole stopes vary in dimension from 10 ft to 55 ft wide and 20 ft to 35 ft in height.

Access to the orebody is through a 10 ft by 10 ft spiral ramp located on the south side of the breccia pipe. The ramp connects the shaft stations of the 1-4 and 1-5 levels and is driven at a 15% gradient. Flat cross cuts from the spiral ramp are developed at five mining levels referenced by their sill elevation above sea level: the 5130, 5175, 5215, 5255, and 5283 levels. The mining levels are spaced apart 30 ft to 35 ft vertically. From these mining levels, a circular drift is developed around the inside perimeter of the breccia pipe, alternating though ore and waste. Once drifts in ore are widened to the extent of mineralization, longhole drilling can begin. Ring drilling will be sequenced in a clockwise and counter clockwise direction, retreating back to the mine level entrance to develop two stope faces and facilitate optimal mine production. Longhole drilling will begin at the 5175 level and sequence upward. The bottom of the mine (the 5130 mining level) is the sole mucking level during the mine life.

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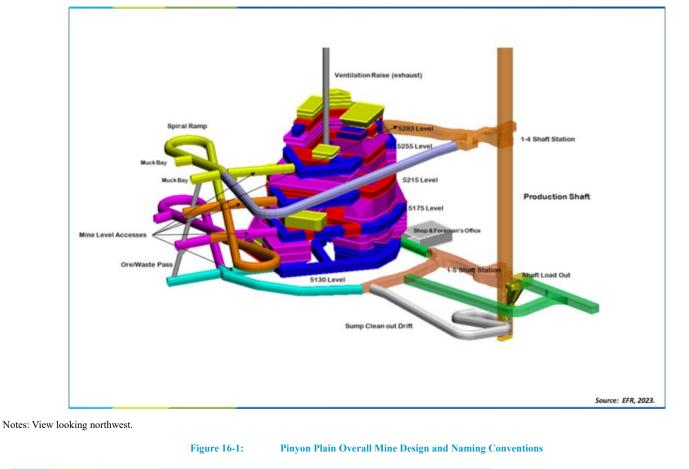
An eight foot diameter exhaust ventilation raise is designed in the center of the breccia pipe. Depending on which mining levels are active at any one time, drifts will intersect the ventilation raise to exhaust air. A series of air doors or regulators will control the volume of air required for mining or block air flow once mining is completed on a given level.

Figure 16-1 shows the overall mine design and naming convention at Pinyon Plain.

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16.2 Mining Method

Energy Fuels and its predecessors have mined numerous uranium bearing breccia pipes by underground methods dating back to the 1980s. Because mineralization can be found in fractures which range from single high grade structures to intersections of many forming large zones, several mining methods will be employed based on the size and geometry of the mineralization.

The majority and largest ore zones at Pinyon Plain will be mined by longhole stoping using a ring drill due to this mining method's low cost and high productivity per employeeshift. Narrower mineralized zones will be mined as a single drift using handheld jackleg drills with breasting of the roof and ribs to the ore's extents. In some cases, the sill will be blasted and mucked out (termed a "floor pull"). All broken material will be hauled by diesel powered, low profile load-haul-dump loaders (LHDs) to a muck raise located on the mining level and dropped to the lowest mining level (the 5130 level) or the muck raise located off the spiral ramp. From either location, an LHD will rehandle the muck and tram it to the dump pocket located at the 1-5 shaft station. The ore control system at the mine will ensure ore and waste are not commingled.

Due to the circular nature of the breccia pipe in plan view, each level will be developed in a circular fashion from the mine access drift to the level and be connected. Longhole stoping will be initiated from the farthest point away from the access drift and sequenced in both a clockwise and counter clockwise fashion to facilitate broken rock to the mucking level (the 5130 level).

The current planned production rate, assuming day shift only, is 250 stpd ore, based on past production metrics at similar uranium breccia pipes and the Pinyon Plain hoisting capabilities. Hoisting at Pinyon Plain can achieve 400 stpd, assuming work on day shift only, which allows for skipping a significant amount of waste development during the mine life of mine (LOM). An opportunity exists to skip ore on night shift with a limited crew with day shift using muck bays and the 5130 level to store a sufficient broken ore inventory.

Longhole stoping, also known as blasthole or sublevel stoping, is an open stoping, high-production, bulk mining method applicable to large, steeply dipping, regular ore bodies having competent ore and host rock that requires little or no support. Typical production ranges from 15 tons to 40 tons per employee-shift, and individual stopes may produce in excess of 25,000 tons/month.

Sublevel stoping is very development intensive, although the cost of development is compensated by the fact that much of it is done in ore. It is limited to steeply inclined ore bodies where both ore and country rock are competent and broken ore flows under the influence of gravity. Ore bodies should be regular, because the method is not selective.

Production drilling is accomplished using longhole equipment utilizing large-diameter down-the-hole (DTH) drills because of their directional accuracy. Efficient use of large-scale blasting makes sublevel stoping one of the lowest-cost underground mining methods available.

Mining will start from the lowest mining level (the 5130 level) and progress upward through the four additional mining levels. Each one of these levels will have developed a circular, connected drift which will produce ore from drifting and subsequently breasting of backs and ribs. Longhole drilling will then begin, first on the 5175 level and blasted ore will drop to the mucking level (the 5130 level). Once the ore has been extracted from this level, sufficient mine development will have been completed to continue drifting in ore, breasting, and ring drilling from the next level (the 5215 level), and so on until the Reserve has been completed exploited. Once mining is completed, all development rock stored on surface will be placed back underground through the ventilation raise as part of the Project's reclamation plan, as agreed to with State regulators.

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16.3 Geotechnical

In 1987, the geotechnical consulting firm of Dames and Moore completed an evaluation of mine stability and subsidence potential at the Project.

The scope of work was based on a review of geologic and geotechnical data from similar breccia pipe uranium mines on the Arizona Strip (the Orphan Mine, the Hack 2 Mine, Kanab North, and the Pigeon Mine), including the stability of existing underground stopes.

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Numerical modelling of stopes was analyzed at depths of 800 ft, 1,200 ft, and 1,600 ft below surface with a surrounding rock strength of 3,000 psi. Stope dimensions at these mines varied from 60 ft high by 30 ft wide (Orphan Mine) to 350 ft high by 200 ft wide (Hack 2 Mine). Ground support was limited to rock bolts in the stope backs and no backfill.

The report concluded that stopes up to 350 ft high at a depth of 1,200 ft would not develop significant stability problems as long as prudent ground supports were employed, which EFR plans on installing during mining. In addition, the paper predicted mined out stopes would fill with rubblized rock as a result of subsidence reaching surface in several hundred years; the surface expression would be less than two feet over a broad area and would be difficult to observe in the field. Since the geotechnical report was produced, EFR has decided to fill stopes with waste rock, which will significantly reduce any post-mining surface expression from to-ground subsidence.

SLR recommends that EFR develop a program for monitoring the geotechnical conditions in the stopes to provide an early warning of potential ground condition problems or stope wall failures. Similarly, the geotechnical condition of the development headings should be noted and recorded to support any required changes in the ground support regimes.

16.4 Hydrological

Mine workings will be constructed within competent bedrock having low to very low permeability. The breccia pipe and bedrock underlying the workings (the Lower Supai) are both considered nearly impermeable.

Despite the low permeability of the Coconino sandstone at the site, workings (including the mine access shaft) that penetrate saturated portions of the Coconino sandstone are expected to experience water seepage, at rates similar to those currently measured at the shaft, due to the relatively large, saturated thickness (approximately 200 ft) of the Coconino sandstone. The transmissivity (the product of hydraulic conductivity and saturated thickness) is high enough that current seepage to the mine shaft is approximately 16 gpm.

Even where fully saturated, the Upper Supai is expected to have a hydraulic conductivity (and transmissivity) substantially lower than that of the Coconino sandstone, therefore, mine workings that penetrate the Upper Supai are expected to make very little water, as supported by the current low seepage entering the mine shaft from the Upper Supai, consistent with expectations.

Mine workings that penetrate the breccia pipe are expected to make little to no water due to the nearly impermeable nature of the breccia material.

Regardless of the amount of water that actually seeps into the mine workings, such water will drain or be pumped to a lined sump at the base of the shaft.

In addition, during mining operations, the workings will act as sinks for any perched groundwater encountered; flow will be directed from the country rock toward the workings rather than the reverse. Furthermore, the long-term impacts of the relatively small volume of workings penetrating a very large volume of low permeability rock will have a negligible impact on the overall average hydraulic properties of the surrounding rock.

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16.4.1 Mine Shaft Seepage

As discussed above, although the Mine is located within an area of the Coconino Plateau where the Coconino sandstone contains only locally perched groundwater, perched groundwater encountered within the Coconino during sinking of the mine shaft is slightly higher than but comparable to that anticipated. Perched groundwater is currently seeping into the shaft at a rate of approximately 16 gpm. This water is currently collected in a lined sump at the base of the shaft, however, EFR has installed water rings within the shaft at the base of the Coconino and at the base of the Kaibab to separate this water from any other water that may seep into the shaft.

The rate of seepage of water from the Coconino into the shaft, which acts as a very large diameter well, is consistent with the low estimated hydraulic conductivity for the Coconino. The rate of seepage of water from the Kaibab into the shaft is minimal (a few gpm), which is consistent with expectation. Any water from the Coconino and Kaibab that overflows or is not otherwise captured by or pumped out of the water rings reports to the sump at the bottom of the mine shaft.

Seepage from the Coconino has created a cone of depression within the perched groundwater that directs flow inward towards the shaft. Effectively, the shaft acts as a well that is continuously overpumped to the extent that a seepage face is created. As long as the shaft is in use and water is being pumped from the lined sump at the bottom of the shaft, groundwater flow will be directed inward from the Coconino into the shaft.

Potential seepage from perched water zones in other formations penetrated by the shaft (such as the Kaibab, Toroweap, and Upper Supai) is relatively small, however, groundwater flow from these formations will also be directed inward toward the shaft.

As the ventilation shaft will be installed within the breccia pipe, which is comprised of a dense, well-cemented, compact and predominantly dry rock matrix, no additional water inflows are expected during the planned ventilation raise or after installation of the vent shaft.

16.4.2 Drifts into Breccia Pipe Orebody

Drifts extending from the shaft into the orebody are expected to remain dry unless saturated materials are penetrated. If saturated materials are penetrated, water is expected to seep into the drifts, with the rate of seepage roughly proportional to the permeability of the saturated materials. As discussed above, workings penetrating any materials other than saturated Coconino are expected to make little or no water. In particular, drifts designed to access the main orebody will be completed in Hermit Shale or very low permeability Supai Formation materials and are expected to have an insignificant impact on the surrounding hydrogeology.

Because drifts will be designed to drain toward the shaft, any water seeping into the drifts will drain or be pumped to the lined sump at the base of the shaft. In general, drifts are expected to act much like horizontal wells and to collect, rather than discharge, water from surrounding materials.

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16.5 Preproduction Schedule

Mine development recommenced at the site in mid 2022 and is ongoing. There are 1,595 ft of waste development before preproduction ore development commences. The ventilation raise construction is scheduled for June and July 2023 and this will be followed by installation of the ventilation facilities and emergency hoist pad.

SLR recommends that the ventilation raise development contractor be selected and the work scheduled to avoid delays in the project implementation.

16.6 Life of Mine Plan

The LOM development and ore production plan is summarized in Table 16-1. Mine development takes four months and the first development ore is hoisted and sent for processing in Month 5 of Year 0. The LOM production plan is shown in Table 16-2. Ore production totals 134,464 tons grading 0.58% U₃O₈ and containing 1.57 Mlb of uranium oxide. The total LOM recovered uranium oxide production totals 1.5 Mlb. Once ore production commences, mining is scheduled to be complete in 28 months.

Daily rock production averages 143 stpd of ore and 41 stpd of waste over the life of mine. The maximum daily production from the mine is 343 tons of ore plus waste.

This mine plan covers the Main zone only. There are uranium Mineral Resources in the Jupiter Zone that exist below the Main Zone.

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Table 16-1: Life of Mine Development and Production Plan Energy Fuels Inc. - Pinyon Plain Project

		Ore Hoisted (tons)	Waste Hoisted (tons)	Raise Cuttings Hoisted (tons)	Total Material Hoisted (tons)	Waste Development (ft)	Ventilation Raise (ft)	Total Waste (ft)
Year 0	Month 1	-	3,475		3,475	424		424
	Month 2	-	414		414	51		51
	Month 3	-	2,754		2,754	336		336
	Month 4	-	6,426		6,426	784		784
	Month 5	2,013	5,246		7,259	640		640
	Month 6	3,501	4,877	1,992	10,370	595	484	1,079
	Month 7	1,052	5,582	3,629	10,263	681	881	1,562
	Month 8	2,138	3,852		5,991	470		470
	Month 9	4,376	1,335		5,711	128		128
	Month 10	8,750	-		8,750	-		-
	Month 11	5,250	459		5,709	56		56
	Month 12	5,250	1,377		6,627	168		168
Year 1	Month 1	5,250	344		5,594	42		42
	Month 2	7,000	66		7,066	8		8
	Month 3	8,750	1,887		10,637	230		230
	Month 4	7,000	_		7,000	-		-
	Month 5	6,164	-		6,164	-		-
	Month 6	8,750	267		9,017	33		33
	Month 7	5,250	-		5,250	-		-
	Month 8	7,000	-		7,000	-		-
	Month 9	7,000	-		7,000	-		-
	Month 10	7,000	-		7,000	-		-
	Month 11	5,250	-		5,250	-		-
	Month 12	5,250	-		5,250	-		-
Year 2	Month 1	5,250	-		5,250	-		-
	Month 2	7,000	-		7,000	-		-
	Month 3	7,264	459		7,723	56		56
	Month 4	2,426	157		2,583	19		19
	Month 5	530	-		530	-		-
Total		134,464	38,978	5,621	179,063	4,720	1,365	6,085

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 Table 16-2:
 Life of Mine Production Plan

 Energy Fuels Inc. - Pinyon Plain Project

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

		Total Mill Feed Processed (tons)	Head Grade, U ₃ O ₈ (%)	Contained U ₃ O ₈ (lb)	Average Metallurgical Recovery (%)	Recovered U ₃ O ₈ (lb)	U ₃ O ₈ Sales (lb)
Year 0	Month 5	2,013	0.37	15,051	96	14,449	14,449
	Month 6	3,501	0.37	26,178	96	25,131	25,131
	Month 7	1,052	0.58	12,155	96	11,669	11,669
	Month 8	2,138	0.61	25,972	96	24,933	24,933
	Month 9	4,376	0.61	53,203	96	51,074	51,074
	Month 10	8,750	0.61	106,523	96	102,262	102,262
	Month 11	5,250	0.61	63,914	96	61,357	61,357
	Month 12	5,250	0.61	64,137	96	61,571	61,571
Year 1	Month 1	5,250	0.70	73,027	96	70,105	70,105
	Month 2	7,000	0.69	96,548	96	92,686	92,686
	Month 3	8,750	0.68	118,192	96	113,465	113,465
	Month 4	7,000	0.55	76,646	96	73,581	73,581
	Month 5	6,164	0.58	71,868	96	68,993	68,993
	Month 6	8,750	0.57	100,271	96	96,260	96,260
	Month 7	5,250	0.59	62,017	96	59,536	59,536
	Month 8	7,000	0.69	96,553	96	92,691	92,691
	Month 9	7,000	0.69	96,553	96	92,691	92,691
	Month 10	7,000	0.64	89,339	96	85,765	85,765
	Month 11	5,250	0.58	61,263	96	58,812	58,812
	Month 12	5,250	0.58	61,263	96	58,812	58,812
Year 2	Month 1	5,250	0.49	51,143	96	49,098	49,098
	Month 2	7,000	0.48	67,396	96	64,700	64,700
	Month 3	7,264	0.46	67,480	96	64,781	64,781
	Month 4	2,426	0.19	9,046	96	8,684	8,684
	Month 5	530	0.19	1,975	96	1,896	1,896
Total		134,464	0.58	1,567,711	96	1,505,003	1,505,003

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16.7 Mine Infrastructure

The Project has significant existing infrastructure and has been used for the storage of surplus materials and equipment from other similar mining projects. The existing infrastructure at the Project includes:

- 1,470 ft deep, three compartment shaft, measuring 19 ft 6 in by 8 ft 2 in
- Shaft stations at depths of 1,230 ft and 1,400 ft below surface
- Unsheeted steel headframe
- · Hoistroom and 400 hp double drum hoist with 10 ft diameter drums
- Water tanks
- Fuel tanks
- 455 kVA back up power generators
- Six mile 12 kV power line to the site, 12kV/4160 V/480V transformers on site
- Evaporation pond
- Fenced yard
- Offices
- Maintenance shop
- Air compressor

16.7.1 Mine Shaft and Hoist

The mine shaft is a conventional three compartment shaft; the shaft bottom is at a depth of 1,470 ft. below the collar. Two compartments are for hoisting and the third is for the manway, ventilation duct, and services. A plan view of the shaft is shown in Figure 16-2.

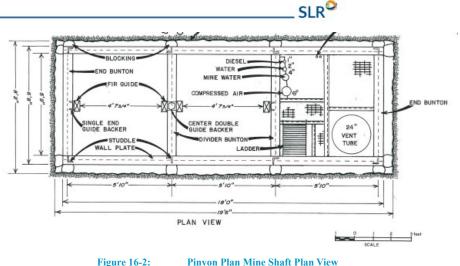
The shaft is equipped with steel sets on 10 ft spacing with wooden guides for conveyances. The shaft collar is at an elevation of 6,506 ft. The 1-3 level is approximately 1,000 ft below the collar, the 1-4 level is approximately 1,230 ft below the collar, and the lowest station is at the 1-5 level, 1,400 ft below the collar. It is currently planned to connect the 1-4 and 1-5 stations via a spiral ramp.

The loading pocket will be installed below the 1-5 station level. A decline to the shaft bottom is planned for shaft bottom clean up.

The shaft is serviced by a Nordberg 400 hp double drum hoist with 10 ft diameter drums grooved for 1.5 in wire rope. The hoisting speed is 800 feet per minute (fpm). The skips will have a capacity of 60 ft³. The head frame is an unsheeted steel structure.

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16.7.2 Mine Ventilation

EFR contracted a consultant to complete the prefeasibility level ventilation design on the Main Zone of the Pinyon Plain mine (Rawlins, 2022). The planned production rate (250 tpd), existing shaft and drift openings, and planned future development drifts (10 ft x 10 ft) were utilized in the design.

EFR contracted a consultant to complete the prefeasibility level ventilation design on the Main Zone of the Pinyon Plain mine (Rawlins, 2022). The existing shaft and drift openings and planned future development drifts (10 ft x 10 ft) were utilized in the design.

The ventilation design follows the production schedule and meets all industry and regulatory standards for mining uranium in the US. Capital and operating costs are based on budgetary quotes based on specifications from the ventilation design.

The calculated air quantity was based on three factors, namely:

- 1. Diesel equipment fleet requirements
- 2. Radon exposure from exposed mineralization
- 3. Mine environmental conditions (heat, dust, noise, etc.).

Other aspects for the mine and ventilation design evaluation included determining acceptable and practical air velocities in intake and return airways.

The ventilation circuit at Pinyon Plain is a push-pull system with fresh air downcast from the Production Shaft and returning through the Ventilation Shaft located in the center of the orebody. The Ventilation Shaft, also referred to as the Return Air Raise (RAR) will be used for secondary egress if needed.

The mine ventilation design determined that the air quantity needed will be 136,000 cubic feet per minute (CFM) to allow for the following requirements:

- Legal aspects such as air supply for diesel equipment.
- Underground workshop air requirements.
- Radon air requirements from exposed mine workings.

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- Air leakages.
- Avoiding critical velocities in the upcast shaft.
- Heat loads, including auto-compression effects.

The RAR is planned to have a diameter of eight feet. The surface shaft bend in the RAR ducting will include a hinged hatch that can open to allow an emergency man-cage to pass through the exhaust duct system to descend to the bottom of the ventilation shaft where miners can be loaded and brought to surface in an emergency.

The mine ventilation system was designed for both winter and summer conditions; during winter periods, where air temperatures fall below 32°F, a four million British Thermal Unit per Hour (BTUH) propane heater system will be needed to heat the ambient air to 38°F and force it down the five foot square manway compartment of the Production Shaft using a 250 hp fan. The single variable frequency drive (VFD) force fan will force 140, 000 CFM at 5.6 inches of water gauge (WG), using a 250 hp fan, into the manway compartment of the downcast mine access shaft. Approximately 10,000 CFM will upcast back to surface to allow the shaft collar and systems to remain above freezing during winter periods. The remainder of the fresh air will be pulled down the shaft via the exhaust fans on the RAR.

Fresh air will be distributed to the development and production sections of the mine via secondary force fans (60 hp, 25,000 CFM at 10 inches of WG) through 30-inch diameter rigid steel or rigid plastic type ducting positioned at the RAR through a vent door.

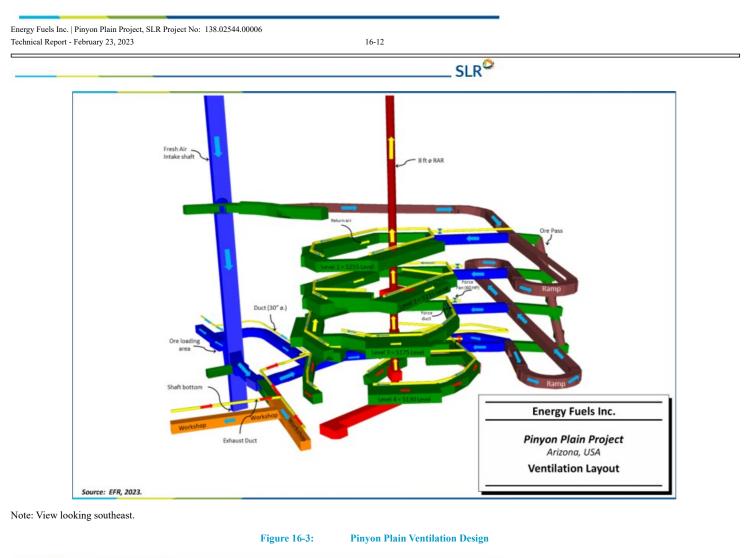
https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

Energy Fuels Inc.: Exhibit 99.3 - Filed by newsfilecorp.com

The recommended exhaust fan option includes two fans operating at the same time in both bifurcation legs. Each exhaust fan was specified as 68,000 CFM, 8.7 inches of WG, and motor size of 150 hp.

Ventilation doors will be positioned at mined out areas to minimize leakage and prevent air losses. Forced air fans in production and development areas will also utilize regulators to ensure airflow distribution is maintained and applied where needed. The ventilation design includes for additional allowances such as workshop, overall leakages, auto-compression effects, etc., to maintain both the legal and practical airflow distribution requirements, thereby establishing an effective and efficient operating system for the Main zone.

Figure 16-3 illustrates the ventilation design at Pinyon Plain.



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16.7.3 Water Management

The mine dewatering facilities consist of:

- 3 hp submersible shaft pump to move up to 50 gpm from the shaft bottom to the 1-5 station level
- 10 hp positive displacement pump (20 gpm capacity) with a four inch line from the 1-5 station level to surface
- 10 hp positive displacement pump (25 gpm capacity) with a two inch line from the 1-4 station level to surface

The last pump listed handles the water from the shaft water ring. Mine inflow during care and maintenance has averaged less than 20 gpm. Mine inflow will continue to be collected in underground sumps for use in underground drills and other aspects of underground mining. Any excess water not needed for mine operations that collects in the lined sump will be pumped to the surface impoundment. Excess water from the water rings will be pumped to the surface and treated in existing facilities for beneficial use.

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The Project has an existing evaporation pond and permitted rock stockpile areas on surface. It is anticipated that mineralized and non-mineralized rock will be stored in the permitted stockpile areas. No process tailings will be stored at the Project site. During mine operations, it is expected that excess water will be stored in the evaporation pond, or in some cases it may be beneficially used as per Arizona state law.

After closure, the site will be monitored for reclamation performance by state and federal agencies until reclamation is deemed complete and the bond(s) are released.

16.7.4 Compressed Air

Compressed air is supplied from surface from one of three units:

- 970 CFM Ingersoll Rand rotary screw compressor (SSR EP 200)
- 1,200 CFM Ingersoll Rand rotary screw compressor (SSR EP 300
- 1,500 CFM Quincy rotary screw compressor (QS1 1500)

The 970 CFM compressor is sufficient for development and the 1,500 CFM unit is a spare.

16.8 **Mine Equipment**

Surface support equipment was purchased or rehabilitated in 2022. Equipment purchased or rehabilitated in 2022 included three Bobcat loaders for underground, a surface front end loader, vans for personnel transportation to site, air compressors, a chippy hoist, and water truck which has a blade for snow removal. Additional equipment required for underground mining is listed in Table 16-3.

> **Table 16-3: Required Underground Mining Equipment Purchases and Rebuilds Energy Fuels Inc. - Pinyon Plain Project**

	Equipment	Year 0
Stope Drill (Boart Stope Mate-rebuilt)	1
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	SL	R ^O
	Equipment	R ^O Year 0
	Equipment Jackleg Drills (hammers and legs)	R [©] Year 0 6
	Jackleg Drills (hammers and legs) Skid-Steer Loaders (new Bobcat model S510)	
	Jackleg Drills (hammers and legs)	

16.9 **Personnel Requirements**

Staffing of personnel began in mid-2022 as the Project came out of care and maintenance. The Project is currently in preproduction. Current mine operations personnel provided an estimate of personnel requirements for the life of mine, as summarized in Table 16-4. Production will cease in year 2, after which some of the labor listed will assist in mine reclamation.

Personnel Requirements Table 16-4: Energy Fuels Inc. - Pinyon Plain Project

Position	Year 0	Year 1	Year 2
	Staff		
Mine Superintendent	1	1	1
Assistant Mine Superintendent	1	1	0
Engineer / Surveyor	0.75	1	1
Geologist / Ore Control	0.5	1	1
Environmental Scientist/Technician/Safety	1	1	1
Total	4.25	5	4
	Hourly		
Water Truck / Compliance Technician	2	2	2
Master Mechanic	1	1	0
Master Electrician	1	1	0
Lead Miner	2	2	2
Miner	8	12	2
Hoistman	2	2	2
Toplander	2	2	2
Electrician	1	2	1
Mechanic	3	3	1
Skip Tender	2	2	2
Total	24	29	14

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17.0 RECOVERY METHODS

Mineralized material from the Pinyon Plain Mine (the Project) will be milled based on a toll milling agreement at the White Mesa Mill.

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18.0 PROJECT INFRASTRUCTURE

Pinyon Plain is a developed site with gravel road access and facilities, including line power. Infrastructure at the Project has been designed to accommodate all mining and transportation requirements. In addition to the mine shaft, existing mine infrastructure includes offices, mine dry, warehousing, air compressor, water lines, development rock storage, standby generators, fueling station, fresh water well, monitor wells and water tanks, a containment pond, electrical power, rapid response services, explosive magazines, equipment utilities, and a workshop. Prior to mine production, EFR will construct the shaft load out, ore pad, ventilation raise, primary ventilation circuit and secondary egress apparatus. The Pinyon Plain Mine Project layout is shown in Figure 18-1.

17-1

18.1.1 Power

Electrical power to Pinyon Plain is available through an existing power line located along Arizona State Highway 64 from the Arizona Public Service (APS). An APS substation provides a six-mile powerline (12 KW) to the mine over a route that parallels the mine access road. Onsite, the power is stepped down to 4160, 480 and other voltages as needed through several transformers to power the hoist motor, pumps, ventilation fans, onsite buildings, and any remaining site power needs.

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A 455 KVA diesel generator provides emergency backup power to operate the mine hoist, an air compressor, and the shaft pumps if line power is interrupted.

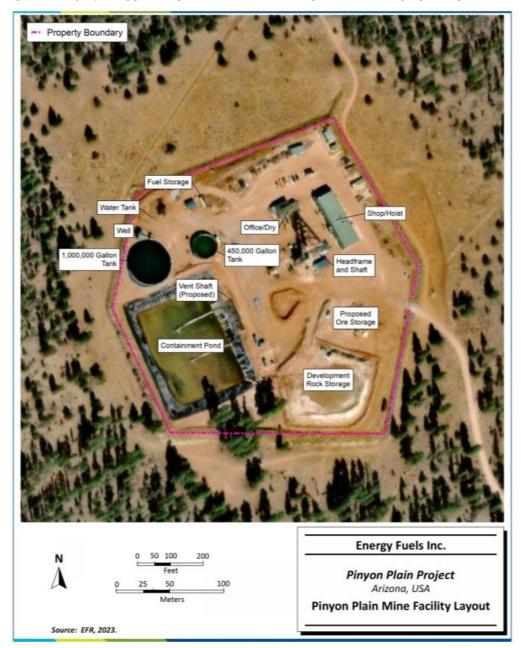


Figure 18-1: Pinyon Plain Mine Facility Layout

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19.0 MARKET STUDIES AND CONTRACTS

19.1 Markets

Uranium does not trade on the open market, and many of the private sales contracts are not publicly disclosed since buyers and sellers negotiate contracts privately. Monthly long-term industry average uranium prices based on the month-end prices are published by Ux Consulting, LLC and TradeTech, LLC (TradeTech). EFR primarily utilizes the pricing forecasts from TradeTech, which is considered a leading independent provider of uranium prices and nuclear fuel market information.

19.1.1 Supply

According to the World Nuclear Association (World Nuclear, 2022), world uranium requirements totaled more than 48,300 t U in 2021, with the global pandemic accelerating a trend of slowly-decreasing production:

- 2017 60,514 t U
- 2018 54,154 t U
- 2019 54,742 t U
- 2020 47,731 t U
- 2021 48,332 t U

The top five producing countries (Kazakhstan, Namibia, Australia, Canada, and Uzbekistan) accounted for over 80% of world production in 2021.

The share of uranium produced by in situ recovery (ISR) mining has steadily increased, mainly due to the addition of ISR operations in Kazakhstan, and now accounts for over 50% of production.

Over half of uranium mine production is from state-owned mining companies, some of which prioritise secure supply over market considerations.

19.1.2 Demand

The primary demand is as a source for nuclear power plants. The use of nuclear power generation plants has become increasingly acceptable politically. Both China and India have indicated an intention to increase the percentage of power generated by nuclear plants. The largest increase in demand will come from those two countries.

Demand for uranium fuel is more predictable than for most other mineral commodities, due to the cost structure of nuclear power generation, with high capital and low fuel costs. Once reactors are built, it is very cost-effective to keep them running at high capacity and for utilities to make any adjustments to load trends by cutting back on fossil fuel use. Demand forecasts for uranium thus depend largely on installed and operable capacity, regardless of economic fluctuations.

The World Nuclear Association website notes that mineral price fluctuations are related to demand and perceptions of scarcity. The price cannot indefinitely stay below the cost of production, nor can it remain at a very high price for longer than it takes for new producers to enter the market and for supply anxiety to subside.

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19.1.3 Price

Figure 19-1 and Table 19-1 show TradeTech's latest (Q3 2022) uranium price forecast through 2040 (TradeTech, 2022).

Table 19-1:

TradeTech Uranium Market Price Forecast (Real & Nominal US\$/lb U₃O₈) Energy Fuels Inc. - Pinyon Plain Project

	Spot Real	Spot Nominal	Term Real	Term Nominal
2019	\$26	\$26	\$34	\$32
2020	\$27	\$30	\$37	\$36
2021	\$35	\$35	\$38	\$38
2022	\$56	\$58	\$65	\$67
2023	\$62	\$65	\$72	\$76
2024	\$64	\$69	\$74	\$79
2025	\$63	\$69	\$72	\$79
2026	\$61	\$69	\$70	\$80
2027	\$61	\$70	\$70	\$81
2028	\$62	\$73	\$70	\$83
2029	\$61	\$74	\$69	\$84
2030	\$60	\$75	\$68	\$85
2031	\$60	\$77	\$70	\$90
2032	\$62	\$81	\$71	\$94
2033	\$62	\$83	\$71	\$96
2034	\$62	\$86	\$72	\$99
2035	\$64	\$91	\$74	\$105
2036	\$67	\$97	\$77	\$112
2037	\$66	\$98	\$76	\$113
2038	\$65	\$99	\$75	\$114
2039	\$63	\$98	\$73	\$114
2040	\$63	\$100	\$73	\$117

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The production from the Project is planned to begin within the next five years; uranium spot prices during that time are expected to range between \$61/lb and \$64/lb. Based on this data, SLR used a constant uranium price of \$60/lb for the cash flow analysis.

By their nature, all commodity price assumptions are forward-looking. No forward-looking statement can be guaranteed, and actual future results may vary materially.

19.2 Contracts

EFR has signed uranium sales contracts with major nuclear utilities for a portion of the production from the Project. These contracts provide for sales prices that are expected to be consistent with the prices forecast by TradeTech (Table 19-1) through the period of planned production from the property. In that event, realized uranium prices may be \$2 to \$4 higher that the \$60/lb that SLR has used for the cash flow analysis if the Project operates within this timeframe.

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20.0 ENVIRONMENTAL STUDIES, PERMITTING, AND PLANS, NEGOTIATIONS, OR AGREEMENTS WITH LOCAL INDIVIDUALS OR GROUPS

20.1 Environmental Studies

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Environmental studies have been completed for the Pinyon Plain Mine as part of the permitting process through state and federal agencies. These studies include components such as land use, climate, geology and mineralization, seismicity, soils, vegetation, air quality, surface water, ground water, wildlife, radiological, and cultural and archaeological resources. There are no ongoing permit-related environmental studies beyond compliance-based data collection and reporting.

20.2 Social and Community Requirements

While development and operation of the Mine requires limited surface disturbance (less than 20 acres) and has minimal environmental impact, the Mine has been particularly contentious among local communities due to factors such as (a) its proximity to Grand Canyon National Park (b) claims by the Havasupai Indian Tribe that the Mine site has significant religious value and (c) its location within the US Bureau of Land Management's (BLMs) 2009 mineral withdrawal of approximately one million acres of public lands around Grand Canyon National Park. A discussion of these issues is presented in more detail below as it relates to project permitting requirements. As stated in its Environment, Health, Safety and Sustainability Policy, Energy Fuels is committed to the operation of its facilities in a manner that puts the safety of its workers, contractors and community, the protection of the environment, and the principles of sustainable development above all else. Accordingly, Energy Fuels considers environmental and social issues which may impact its stakeholders, including minority groups, local landholders, and the communities in which it operates.

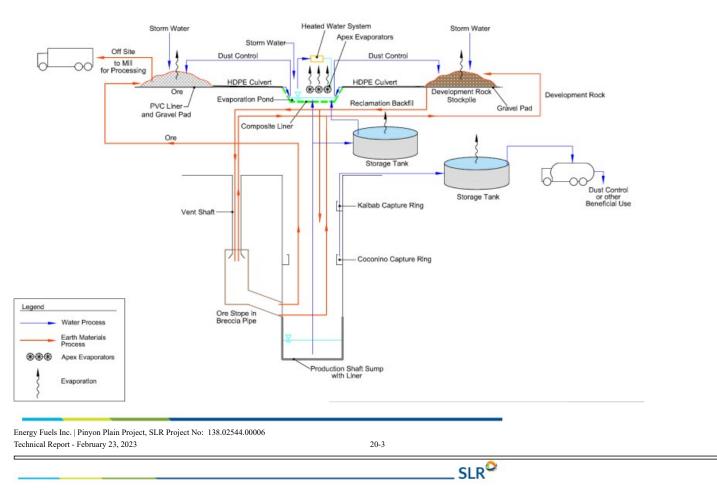
20.3 Water Management

The Mine has been designed to have no discharge of fluids, to eliminate the possibility of migration of contaminants to groundwater, and to maintain structural integrity during a 500-year, 24-hour stormwater runoff event. All stormwater runoff from surface operations will be contained within the 17-acre mine site. The entire site is surrounded by diversion structures capable of diverting runoff from areas upslope around the perimeter of the facility from a 500-year, 24-hour storm event (ELMA, 1993). All runoff from precipitation that falls within the bermed Mine site drains to the lined Impoundment, as shown in the Site Plan provided in Figure 2. Surface water drainage within the Mine site is diverted away from the Mine access shaft and will be diverted away from the future ventilation shaft.

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Groundwater encountered in the Mine workings below the Coconino Formation is collected in a lined sump at the base of the main shaft and pumped to the surface for on-site use or evaporation in the lined Impoundment and water storage tanks. Two water rings have been installed in the shaft to capture water infiltrating from the Coconino Formation and, to the extent water is available, from the Kaibab Formation. Water collected in the capture rings is pumped to aboveground storage tanks at the site for use as dust control or other beneficial use (water from the two water capture rings is currently assigned to the Impoundment). Water from the Coconino and Kaibab Formations that is not captured in the water capture rings and pumped to the Impoundment, reports to the Mine shaft sump. Water in the lined Impoundment is used for dust control on the current DRS, and will be used, as needed, for dust control on the future IOS, where drainage and runoff flows are returned to the lined Impoundment. Water in the Impoundment is circulated through a boiler/heat exchanger and APEX 2.0 Wastewater Evaporator ("APEX") units to enhance evaporation. Sump water will also be used in other mining operations when active mining commences. Water management at the site is illustrated in the Process Flow Diagram provided in Figure 20-1.

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Figure 20-1:	Process Flow Diagram for Pinyon Plain Mine	



20.4 Permitting

In October 1984, Energy Fuels Nuclear submitted a proposed Plan of Operations (PoO) to mine uranium from the Pinyon Plain claims, approximately 7 miles south of Tusayan, Arizona. The US Forest Service (USFS) completed an Environmental Impact Statement (EIS) to evaluate the Plan, including significant comment and input from federally recognized tribes. The final EIS and Record of Decision (ROD) were issued on September 29, 1986, approving the PoO with modifications. Mine site surface preparation activities began in late 1986. Appeals of this decision were made to the Southwestern Regional Forester, and the Chief of the Forest Service, who both affirmed the Forest Supervisor's decision. The Havasupai Tribe and others then sued over this decision in the U.S. District Court for the District of Arizona. The District Court ruled for the USFS on all counts, and a subsequent appeal was filed with the U.S. Court of Appeals for the Ninth Circuit, which affirmed the District Court on August 16, 1991. In 1992, due to the economic downturn in the price of uranium, the Mine was put into standby status.

On September 13, 2011, Denison Mines informed the Kaibab Forest Supervisor they intended to resume operations at Pinyon Plain Mine under the existing PoO and ROD. On June 25, 2012, the USFS completed a review of the Pinyon Plain Mine PoO and associated approval documentation in anticipation of the resumption of operations. The USFS' review concluded that (a) no modification or amendment to the existing PoO was necessary, (b) no correction, supplementation, or revision to the environmental document was required and (c) that operations at the Pinyon Plain Mine could continue as a result of no further federal authorization being required.

On May 22, 2020, after the matters were briefed, the District Court issued its final order in favor of the Defendants, which the Pinyon Plaintiffs thereafter appealed to the Ninth Circuit. In December 2020, the Pinyon Plaintiffs filed their Appellant's Opening Brief with the Ninth Circuit and, in April 2021, the Defendants filed their respective Answering Briefs. Oral arguments were held remotely on August 30, 2021. On February 22, 2022, the Ninth Circuit filed its Opinion in favor of the USFS and the Company. The Pinyon Plaintiffs did not request a hearing on this matter in front of the U.S. Supreme Court. As such, this matter is now resolved.

In 2020, Energy Fuels submitted a clean closure plan to the USFS to provide a description of how the Company will reclaim the mine to clean closure standards after the cessation of mining operations, as contemplated in the USFS-approved PoO, ROD and modifications to the reclamation plan contained in Appendix B of the EIS. The clean closure plan included an update to the reclamation cost estimate, resulting in an increase in the reclamation bond from \$461,245 to \$1,407,235.

In September 2009, the groundwater General Aquifer Protection Permit (APP) was obtained for the water storage pond from the Arizona Department of Environmental Quality (ADEQ). This permit was up for renewal in 2019, and an application for renewal was timely submitted by the Company in 2019. General APPs were also obtained from ADEQ for the development rock stockpile and intermediate ore stockpile in December 2011 and renewed in 2018. At the request of the ADEQ, the three General APPs were consolidated into an Individual APP on April 28, 2022, which resulted in a supplemental reclamation bond through ADEQ in the amount of \$132,581. The Individual APP was amended on October 26, 2022, to establish an alert level (AL) and aquifer quality limit (AQL) for arsenic and an AQL for uranium in a monitoring well completed in the regional Redwall-Muav aquifer. An Air Quality Permit was issued by the ADEQ in March 2011, renewed in 2016, amended in 2017, and renewed in 2021. The Company received EPA's approval under the Clean Air Act National Emissions Standard for Hazardous Air Pollutants (NESHAPs) for the Pinyon Plain Project in September of 2015.

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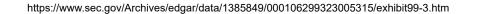


Table 20-1 presents a list of active permits including the approving authority, validity period and expiry dates, status, and indicating if renewal is required or not.

Table 20-1: Environmental Permits for Operation Energy Fuels Inc. - Pinyon Plain Project

Authority	Obligation/License	Date of Issue MM/DD/YY	Expiration Date MM/DD/YY	Status
ADEQ	Class II Air Quality Permit No. 88788	10/20/21	10/19/26	Active
ADEQ	Individual APP, Minor Amendment (No. P-100333) (Includes previously approved; Development Rock Stockpile, Intermediate Ore Stockpile and Non-Stormwater Impoundment)	10/26/22	N/A	Active
ADEQ	AZPDES Stormwater Multi-Sector General Permit - Industrial for Mining (#AZMS79829)	01/01/20	12/31/24	Active
ADWR	Well Registration Number 55-515772 (Redwall-Muav Water Supply/Monitoring Well)	10/07/86	N/A	Active
ADWR	Well Registration Numbers 55-924769 through 55-924771 (Coconino Monitoring Wells)	08/21/20	N/A	Active
CCDPH	Permit to Construct No. 5918 (Septic System)	12/17/86	N/A	Active
USEPA	Approval to Construct an Underground Uranium Mine (NESHAPs Subpart B)	09/21/15	N/A	Active
USFS	Record of Decision	09/26/86	N/A	Active
USFS	Road Use Permit	01/20/23	10/31/27	Active

20.5 Mineral Examination

In July 2009, the BLM issued a Notice of Proposed Withdrawal (the 2009 Notice) under which it proposed that a total of approximately one million acres of public lands around the Grand Canyon National Park be withdrawn from location and entry under the Mining Law of 1872, subject to valid existing rights, for a period of two years. BLM stated that the purpose of the withdrawal, if determined to be appropriate, would be to protect the Grand Canyon watershed from any adverse effect of locatable hardrock mineral exploration and mining. This timeframe was extended an additional six months in July 21, 2011 to complete the EIS studies. In January 2012, the Secretary of the Interior implemented the withdrawal proposed in the 2009 Notice, subject to valid existing rights, for a 20-year period. Whether or not a mining claim is valid must be determined by a Mineral Examination conducted by BLM or the USFS. The Mineral Examination for the Mine deposit was completed by the USFS on April 18, 2012, and determined that the Pinyon Plain Mine has valid existing rights.

20.6 Negotiations and Agreements with Local Groups

Commitments to Ensure Local Procurement and Hiring

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EFR is committed to supporting local businesses and labor markets in the region of their operations.

20.7 Mine Closure Remediation and Reclamation Plans

The costs to reclaim the project to its pre-mining land use is estimated to be approximately US\$1,500,000. Reclamation performance bonds are in place with the USFS in the amount of \$1,407,235 and through the state of Arizona in the amount of \$132,581. At the conclusion of underground operations, the shafts will be backfilled, mine openings will be plugged and sealed, and most of the buildings and infrastructure will be dismantled and removed. The evaporation pond and other infrastructure such as the office trailer, electrical substation, power line, and perimeter fencing and berms are expected to remain on site for an additional 30 years during long-term monitoring of groundwater. At the end of long-term groundwater monitoring, the remaining infrastructure will be removed, wells will be abandoned, and final reclamation and clean closure activities will be completed. The water supply/monitoring well in the Redwall-Muav aquifer is expected to remain in place as a regional water supply well for livestock grazing or other uses as appropriate.

20.8 Opinion of Adequacy

EFR has all of the permits and authorizations necessary to construct, operate, and close the Project. Financial assurance is in place to guarantee reclamation and closure activities will occur. After closure, the site will be monitored for reclamation performance by state and federal agencies until reclamation is deemed complete and the bond(s) are released.

21.0 CAPITAL AND OPERATING COSTS

EFR has experience in operating several similar underground uranium mines on the Arizona Strip, an area located in northern Arizona, north of the Colorado River to the Colorado border. These past producers include Kanab North, Arizona 1, Pinenut, and EZ1 mines.

Based on the American Association of Cost Engineers (AACE) International classifications, Class 3 estimates have an accuracy range between -10% to -20% (low-end) to +10% to +30% (high-end) (AACE International, 2012). The base case capital and operating cost estimates are within the Class 3 ranges and would meet the S-K 1300 standard of \pm 25% accuracy and $\leq 15\%$ contingency.

21.1 Capital Costs

The capital costs for the Mine are estimated to be \$10.4 million in current Q4 2022 dollars including \$7.6 million in direct capital costs, \$1.4 million in contingency, and \$1.5 million for reclamation. In light of the short mine life, all sustaining costs are included in operating costs. No escalation was included in the project costs.

21.1.1 Development Capital

The type and size of underground and surface mining equipment was based on EFR's experience at the above mines. Capital costs for each item were sourced from Infomine's Mine Cost Handbook. No rebuild or replacement cost is included, due to the Project's short production schedule (3 years).

Table 21-1 shows the life of mine capital equipment and cost, including surface support equipment.

Table 21-1: Life of Mine Capital Equipment Energy Fuels Inc. - Pinyon Plain Project

Description	Units	Total Cost
Mine Development	\$ 000	3,799
Loading Pocket & Installation	\$ 000	129
Underground Equipment	\$ 000	590
Ventilation Fans and heater	\$ 000	1,726
Ventilation Raise	\$ 000	1,219
Surface Works	\$ 000	140
Subtotal UG Capital Before Contingency	\$ 000	7,603
Contingency	\$ 000	1,145
Total UG Capital Costs	\$ 000	8,748
Reclamation	\$ 000	1,407
Total Capital	\$ 000	10,155

Mine development capital was based upon the mine design and a development cost of \$1,200/ft. Mine development rates are based on past mining experience of similar EFR mine operations. Mine and ventilation equipment costs are based on budgetary estimates from suppliers with some allowances for additional items. The ventilation raise cost was based upon a 2016 bid for the Project which was escalated to current pricing.

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21.1.2 Contingency

Contingency is an amount added to an estimate to allow for items, conditions, or events which are uncertain and that experience shows will likely result, in aggregate, in additional costs which are expected to be expended.

A capital cost contingency estimate was generated by reviewing the development capital cost elements and assigning a percentage of the costs based upon the level of detail in the estimate preparation, the operator's experience, the state of the Project and the QP's experience. The assigned percentages ranged from:

- 10% for mine development
- 15% for equipment overhauls and purchases
- 20% for the main ventilation installation
- 25% for the ventilation raise, surface ore pad, and emergency hoist preparation

The weighted average overall contingency was estimated to be 15% and this was applied as a single value. The QP considers this to be a reasonable estimate of contingency for this development capital estimate.

21.1.3 Sustaining Capital

Due to the short three year mine life of the Project, no sustaining capital has been budgeted in the estimate.

21.1.4 Working Capital

Working capital estimates assume 30 days account receivable and account payable terms. The Project has a large supply of consumable inventory at the site as EFR has consolidated material from prior mines and projects in the warehouse. Thus, the inventory working capital adjustment is estimated to be zero over LOM. All working capital will be recaptured at the end of mine life, so the net effect of LOM is zero.

21.1.5 Reclamation

Reclamation costs are based on the clean closure and reclamation cost estimate and surety bond, which EFR has with the USFS as the beneficiary. Table 21-2 shows the reclamation cost at the Pinyon Plain project, which will start approximately three months before the end of mine life and take 20 months in total to complete.

	Item	Units	Total Cost
	Infrastructure Removal	\$ 000	428
	Future Environmental Monitoring	\$ 000	45
	Backfilling	\$ 000	411
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\$ 000 \$ 000	67
£ 000	
3 000	951
\$ 000	314
\$ 000	1,265
\$ 000	143
\$ 000	1,407
	\$ 000 \$ 000 \$ 000

Notes:

1. Indirects include G&A, Engineering, and Contractor cost.

Operating Costs 21.2

Operating costs are based on EFR's operating experience. Table 21-3 shows the operating costs used in the economic evaluation of the Project.

Table 21-3: Operating Costs Summary Energy Fuels Inc. - Pinyon Plain Project

Area	Cost	Unit
Mining	\$101.00	\$/ore ton mined
Haulage	\$72.00	\$/ore ton mined
Processing	\$192.00	\$/ore ton mined
G&A	\$7.00	\$/ore ton mined
TOTAL OPEX	\$372.00	\$/ore ton mined

Notes:

- 1. Mining costs include labour, supplies, equipment operation, and sundries as well as an allowance for ongoing mine development over the life of the project.
- Ore haulage covers the cost of trucking ore from the mine to White Mesa mill for toll processing. The contract haulage cost is based on a \$0.225/ton mile unit rate and 2. assumes a 5% moisture content of the ore.
- Processing cost estimate is based on a toll milling arrangement between the Project and the White Mesa Mill. 3.
- 4.) General and Administrative (G&A) costs are based on the assumption that the Project will be supported by existing staff based in EFR's Lakewood, Colorado, office headquarters, with regular site visits as needed during the year. G&A costs, totaling \$7.00/ton ore, are estimated as 2.5% of direct operating costs. 5.
- No contingency applied.

21.2.1 Personnel

Annual headcounts for the three year mine operations are detailed in Table 21-7.

Table 21-4: Processing Operating Costs Energy Fuels Inc. - Pinyon Plain Project

Area	Year 0	Year 1	Year 2
	Salaried		
Mine Superintendent	1	1	1

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SLR Year 0 Area Year 1 Year 2 Assistant Mine Superintendent 0 1 1 Engineer/Surveyor 0.75 1 1 Geologist/Ore Control 0.5 1 1 Environmental Scientist/Technician/Safety 1 1 1 **Subtotal Salaried** 4.25 5 4 Hourly Water Truck/Compliance tech 2 2 2 Master Mechanic 1 1 0 Master Electrician 0 1 1 Lead Miner 2 2 2 Miner 8 12 2 Hoistman 2 2 2 Toplander 2 2 2 2 Electrician 1 1 3 3 Mechanic 1 2 2 Skip Tender 2 Subtotal Hourly 29 24 14 **Total Headcount** 28.25 34 18

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22.0 ECONOMIC ANALYSIS

An after-tax Cash Flow Projection has been generated from the Life of Mine production schedule and capital and operating cost estimates, as summarized in Table 22-1. A summary of the key criteria is provided below.

22.1 Economic Criteria

22.1.1 Revenue

- Total mill feed processed: 134 thousand tons
- Average processing rate: 216 stpd (steady state)
- U₃O₈ head grade: 0.58%
- Average mill recovery: 96%
- Recovered U₃O₈: 1.51 Mlb
- Metal price: \$60/lb U₃O₈
- Yellowcake product trucking cost from the toll mill to customer: \$0.175/lb U₃O₈

22.1.2 Capital and Operating Costs

- Pre-production period: Four months
- Mine life: 24 months
- LOM capital costs, excluding reclamation, of \$8.7 million on Q4 2022 US dollar basis
- LOM operating cost (excluding royalties but including severance taxes) of \$50.5 million or \$372/ton milled on Q4 2022 US dollar basis

22.1.3 Royalties and Severance Taxes

A 3.5% private royalty is payable for the Project based on sliding scale of the value of production expressed in lb/t along with allowances for mining and ore hauling. The royalty payments over the mine life are approximately \$1.88/t ore.

Arizona has a severance tax that is 2.5% of the net severance base, which is 50% of the difference between the gross value of production (revenue) and the production costs. Thus, a rate of 1.25% is used to reflect this 50% base reduction. The Arizona severance tax payable to the Project is estimated at \$3.70/t ore during LOM.

22.1.4 Income Taxes

EFR states it is not liable for corporate income tax (CIT) expenditures as a corporation, including the period that the Project is expected to operate. In addition, the short mine life of 24 months makes an estimate of income tax payable using a standard tax methodology difficult. Therefore, a proforma CIT estimate was added with the assumption that the Project was a stand-alone entity for tax purposes and does not reflect the company's actual filing position with following assumptions:

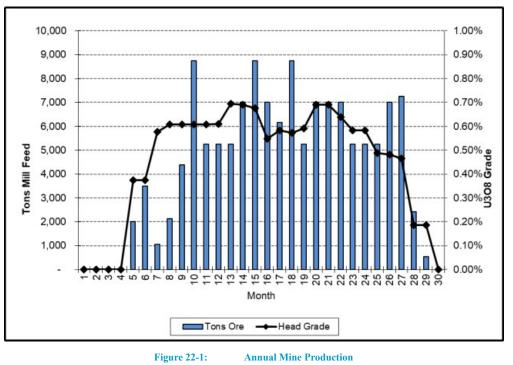
• A Federal income tax rate of 10.5% is used in this analysis. This rate takes into account the percentage depletion deduction which allows profitable mining companies to reduce their taxable income by 50% and then the remaining amount is taxed at the current Federal tax rate of 21% so that the net rate is 10.5%.

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- The Arizona state income tax rate is 4.9% so the combined Federal and state rate is 15.4%%
- The tax amounts may be negative some months as the pre-tax cash flow dips below zero. However, as taxable income is computed on an annual basis and as the annual amounts for the first 24 months are all positive, the sum of the monthly tax amounts will be positive. In the remaining 24 months after the mine ceases operation, there are negative cash flows which can be carried back to profitable years to receive a tax refund. Thus, the project total income tax is the pre-tax cash flow x 15.4%.
- CIT payable for LOM totals \$6.0 million.

22.2 Cash Flow Analysis

The Project production schedule is presented in Figure 22-1 and the resulting after-tax free cash flow profile is shown in Figure 22-2.



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22-2

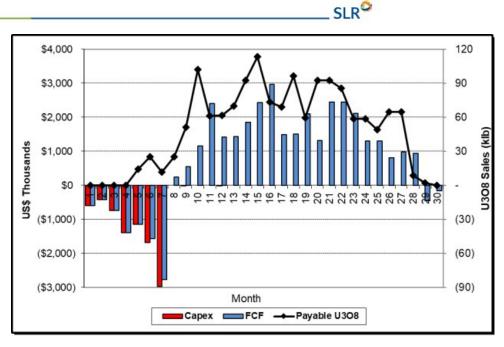


Figure 22-2: After-Tax Metrics Summary

Table 22-1 presents a summary of the Project economics at an average U₃O₈ price of \$60.00/lb. The full annual cash flow model is presented in Appendix 1.

On a pre-tax basis, the undiscounted cash flow totals \$29.1 million over the mine life. The pre-tax Net Present Value (NPV) at a 5% discount rate is \$26.7 million and the Internal Rate of Return (IRR) is 14%.

On an after-tax basis, the undiscounted cash flow totals \$23.0 million over the mine life. The after-tax NPV at 5% discount rate is \$21.1 million and the IRR is 12%.

LOM Project cost metrics are as follows:

- Cash Operating Costs: \$33.91/lb U₃O₈
- All-in Sustaining Costs: \$34.84/lb U₃O₈
- All-in Costs: \$40.66/lb U₃O₈

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 Table 22-1:
 After-Tax Cash Flow Summary

 Energy Fuels Inc. - Pinyon Plain Project

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Item	Unit	Value
U ₃ O ₈ Price	\$/lb	\$60.00
U ₃ O ₈ Sales	klb	1,505
Total Gross Revenue	US\$ 000	90,300
Product Transport to Market	US\$ 000	(263)
Royalties	US\$ 000	(253)
Total Net Revenue	US\$ 000	89,783
Mining Cost	US\$ 000	(13,581)
Ore Trucking Cost	US\$ 000	(9,681)
Process Cost	US\$ 000	(25,817)
G & A Cost	US\$ 000	(941)
Severance Tax	US\$ 000	(497)
Total Operating Costs	US\$ 000	(50,518)
Operating Margin	US\$ 000	39,266
Corporate Income Tax	US\$ 000	(6,046)
Working Capital	US\$ 000	0
Operating Cash Flow	US\$ 000	33,220
Development Capital	US\$ 000	(8,748)
Closure/Reclamation Capital	US\$ 000	(1,407)
Total Capital	US\$ 000	(10,155)
Pre-tax Free Cash Flow	US\$ 000	29,110
Pre-tax NPV @ 5%	US\$ 000	26,682
Pre-tax NPV @ 8%	US\$ 000	25,318
Pre-tax NPV @ 12%	US\$ 000	23,602
Pre-tax IRR	%	14%
After-tax Free Cash Flow	US\$ 000	23,064
After-tax NPV @ 5%	US\$ 000	21,072
After-tax NPV @ 8%	US\$ 000	19,954
After-tax NPV @ 12%	US\$ 000	18,545
After-tax IRR	%	12%

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Item	Unit	Value
Cash Operating Costs	\$/lb U ₃ O ₈	33.91
All-in Sustaining Costs	\$/lb U ₃ O ₈	34.84
All-in Costs	\$/lb U ₃ O ₈	40.66

22.3 Sensitivity Analysis

Project risks can be identified in both economic and non-economic terms. Key economic risks were examined by running cash flow sensitivities calculated over a range of variations based on realistic fluctuations within the listed factors:

- U₃O₈ price: 10% increments between \$51/lb and \$76/lb
- Head grade: -/+ 20%
- Recovery: -20%/+4% (96% is base case already)
- Operating cost per ton milled: -10% to 25% (AACE Class 3 range)
- Capital cost: -10% to 25% (AACE Class 3 range)

The after-tax cash flow sensitivities for the base case are shown in Table 22-2, Figure 22-3, and Figure 22-4. The Project is most sensitive to head grade, uranium price, and recovery, and only slightly less sensitive to operating cost and capital cost at a Class 3 accuracy level. The sensitivities to metallurgical recovery, head grade, and metal price are nearly identical.

Table 22-2:	After-tax Sensitivity Analysis
Energy Fu	els Inc Pinyon Plain Project

Factor Change	U ₃ O ₈ Price (US\$/lb)	NPV at 5% (US\$ 000)	IRR (%)
0.80	\$48	\$6,996	6%
0.90	\$54	\$14,034	9%

https://www.sec.gov/Archives/edgar/data/1385849/000106299323005315/exhibit99-3.htm

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1.00 1.10	\$60 \$66	\$21,072 \$28,111	12% 15%
1.20	\$72	\$35,149	17%
Factor Change	Head Grade (% U ₃ O ₈)	NPV at 5% (US\$ 000)	IRR (%)
0.80	0.47%	\$7,066	6%
0.90	0.52%	\$14,072	10%
1.00	0.58%	\$21,072	12%
1.10	0.64%	\$28,074	15%
1.20	0.70%	\$35,073	17%

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	M.t.I.D.	NIDX7 -4 50/	IRR
Factor Change	Metallurgical Recovery	NPV at 5%	
	(%)	(US\$ 000)	(%)
0.80	77%	\$7,037	6%
0.90	86%	\$14,055	10%
1.00	96%	\$21,072	12%
1.03	98%	\$22,827	13%
1.04	100%	\$23,879	13%
	Operating Costs	NPV at 5%	IRR
Factor Change	(US\$/ton milled)	(US\$ 000)	(%)
0.90	\$45,019	\$24,988	14%
0.95	\$47,520	\$23,030	13%
1.00	\$50,021	\$21,072	12%
1.13	\$56,273	\$16,178	10%
1.25	\$62,526	\$11,284	8%
Faster Change	Capital Costs	NPV at 5%	IRR
Factor Change	(US\$ M)	(US\$ 000)	(%)
0.90	\$9,481	\$21,928	13%
0.95	\$9,930	\$21,500	13%
1.00	\$10,378	\$21,072	12%
1.13	\$11,500	\$20,002	11%
1.25	\$12,621	\$18,932	10%

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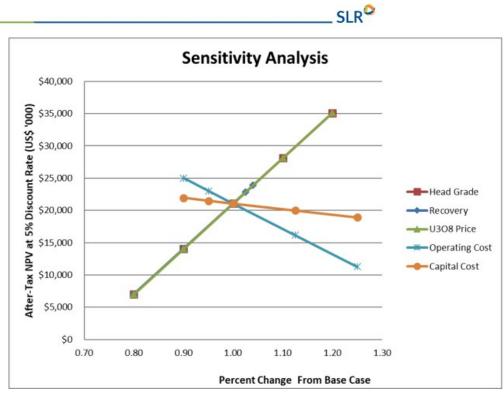


Figure 22-3: After-tax NPV 5% Cash flow Sensitivity

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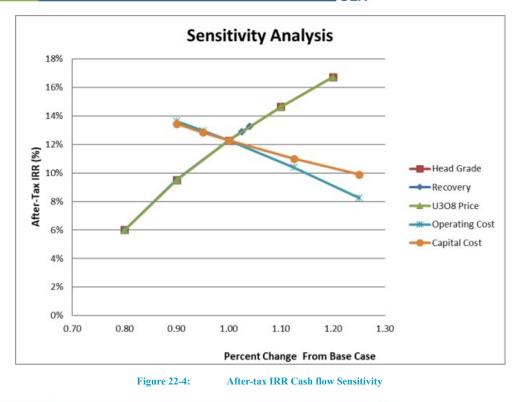
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23.0 ADJACENT PROPERTIES

23.1 Other Breccia Pipes

There are two mineralized breccia pipes near the Pinyon Plain Mine. The Black Box and the New Years pipes are exploration properties located within two miles of Pinyon Plain. Drilling on both these pipes in the 1980s indicate the presence of uranium and some copper mineralization, but it was determined that neither had economic quantities of either mineral. The Orphan Mine, located approximately 13 miles north-northwest of Pinyon Plain produced both copper and uranium during its production run between 1956 and 1969. EFR has successfully mined and reclaimed the Pinenut and Arizona 1 breccia pipes, both of which are located on the north rim of the Grand Canyon.

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The QP has not independently verified this information and this information is not necessarily indicative of the mineralization at the Pinyon Plain Project.

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24.0 OTHER RELEVANT DATA AND INFORMATION

EFR knows of no other relevant data related to the Pinyon Plain Project.

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25.0 INTERPRETATION AND CONCLUSIONS

SLR offers the following interpretations and conclusions on the Project:

25.1 Geology and Mineral Resources

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- Mineral Resources have been classified in accordance with the definitions for Mineral Resources in S-K 1300, which are consistent with Canadian Institute of Mining, Metallurgy and Petroleum (CIM) Definition Standards for Mineral Resources and Mineral Reserves dated May 10, 2014 (CIM, 2014) definitions which are incorporated by reference in NI 43-101.
- In the SLR QP's opinion, the assumptions, parameters, and methodology used for the Pinyon Plain Mineral Resource estimate is appropriate for the style of mineralization and mining methods.
- The SLR QP is of the opinion the block models are adequate for public disclosure and to support mining activities. The effective date of the Mineral Resource estimate is December 31, 2022.
- Mineral Resource estimates exclude previously reported uranium mineralization from the Cap and Upper zones as a condition of current Arizona Department of Environmental Quality (ADEQ) Aquifer Protection Permit which limits mining between the elevations of 5,340 ft and 4,508 ft.
- Mineral Resources are based on a \$65/lb uranium price at an equivalent uranium (% eU₃O₈, referring to radiometric logs converted to grades) cut-off grade of 0.30% based on a combination of longhole stoping, shrinkage stoping, and drifting underground mining methods; mineralized material from the Project will be trucked 320 miles to the White Mesa Mill located near Blanding, Utah. Development rock will be temporarily stored on surface, then will be used at the end of mining to fill the voids created by mining the breccia pipe and the developed shafts.
- Indicated uranium Mineral Resources total 37,000 tons at an average grade of 0.95% eU₃O₈ for a total of 703,000 lb U₃O₈. Inferred Mineral Resources total 5,000 tons at an average grade of 0.50% eU₃O₈ for a total of 48,000 lb U₃O₈.
- Sampling and assaying procedures have been adequately completed and carried out using industry standard quality assurance/quality control (QA/QC) practices. These
 practices include, but are not limited to, sampling, assaying, chain of custody of the samples, sample storage, use of third-party laboratories, standards, blanks, and
 duplicates.
- The SLR QP considers the estimation procedures employed at Pinyon Plain, including compositing, top-cutting, variography, block model construction, and interpolation to be reasonable and in line with industry standard practice.
- The SLR QP finds the classification criteria to be reasonable.

25.2 Mining and Mineral Reserves

- Mineral Reserve estimates, as prepared by EFR and reviewed and accepted by SLR, have been classified in accordance with the definitions for Mineral Reserves in S-K 1300 which are consistent with CIM (2014) definitions which are incorporated by reference in NI 43-101.
- The Proven and Probable Mineral Reserve estimate is 134,500 tons grading 0.58% U₃O₈ containing 1.57 Mlb of U₃O₈ and is comprised of 7,800 tons grading 0.33% U₃O₈ of Proven Mineral Reserves containing 0.05 Mlb of U₃O₈ plus 136,700 tons grading 0.60% U₃O₈ of Probable Mineral Reserves containing 1.52 Mlb of U₃O₈

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- The Mineral Reserves are based upon a cut-off grade of 0.32% U₃O₈.
- Mineral Reserves were estimated based on stope designs utilizing a mine planning software within a 0.15% U₃O₈ wireframe.
- The Mineral Reserves include 35% dilution at zero grade.
- Measured Mineral Resources were converted to Proven Mineral Reserves and Probable Mineral Resources were converted to Probable Mineral Reserves.
- No Inferred Mineral Resources were converted into Mineral Reserves.
- The existing shaft will be used for the mine access and rock hoisting.
- The ore will be mined using longhole stoping for the majority of the ore and breasting of roofs and/or ribs for narrow mineralized zones.
- · Ore will be mucked and hauled by load-haul-dump (LHD) loaders to a grizzly over the loading pocket feed.
- A ventilation raise will be bored in the centre of the orebody to provide an exhaust airway and emergency egress.

The SLR QP is not aware of any mining, metallurgical, infrastructure, permitting, or other relevant factors that could materially affect the Mineral Reserve estimate.

25.3 Mineral Processing

There is sufficient metallurgical testing to support a uranium process recovery of 96% at the White Mesa Mill.

25.4 Infrastructure

•

There is suitable existing or planned infrastructure to support the planned operations.

25.5 Environment

- EFR has secured all of the permits required to construct, operate, and close the Pinyon Plain Project.
 - o Some permits require regular update/renewal.
 - o These permits involved significant public participation opportunity.
- Financial assurance is in place to guarantee all reclamation will occur. This amount will be reviewed on a regular basis (at least every five years) to cover any changes at site and/or for any inflationary issue(s).

Energy Fuels Inc.: Exhibit 99.3 - Filed by newsfilecorp.com

In SLR's opinion, there are not any significant risks and uncertainties that could reasonably be expected to affect the reliability or confidence in the exploration information, mineral resource, or mineral reserve estimates, or projected economic outcomes.

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26.0 RECOMMENDATIONS

SLR offers the following recommendations regarding the advancement of the Project.

26.1 Geology and Mineral Resources

1. Convert Inferred Mineral Resources to Indicated Mineral Resources within the Main-Lower and Juniper zones by completing underground delineation drilling program per the estimated budget shown in Table 26-1.

Table 26-1:	2023 Proposed Underground Drilling Budget for Main-Lower and Juniper Zones
	Energy Fuels Inc Pinyon Plain Project

Category	Number of Drill	Total Feet	Unit Cost	Budget
	Holes/Assay	Drilled	(US\$/ft)	(US\$)
Underground Delineation Drilling	45	11,250	31.00	349,000

26.2 Mining and Mineral Reserves

- 1. Continue preproduction development and preparations for production.
- 2. Develop grade control and production reconciliation procedures.
- 3. Develop a program of monitoring the geotechnical conditions in the stopes and development headings.
- 4. Monitor the water inflow rate of the ventilation raise pilot hole.
- 5. Prepare contingency plans for mine dewatering in the event that the ventilation raise encounters a water bearing strata.
- 6. Prepare contingency plans for additional dewatering due to water inflow to the ventilation raise.

Select the ventilation raise contractor and confirm the schedule for the work.

7. Secure contractor proposals for the ventilation raise development and prepare for development.

26.3 Mineral Processing

1. Investigate processing the copper.

26.4 Infrastructure

None

26.5 Environment

- 1. Consider development of an environmental management system that lists environmental roles and responsibilities of site personnel, permit conditions, and monitoring requirements for use should someone else unfamiliar with environmental matters have to perform them.
- 2. Establish a reclamation revegetation test plot program to ensure species selected will work at the site.

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27.0 REFERENCES

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28.0 DATE AND SIGNATURE PAGE

This report titled "Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2022, was prepared and signed by the following authors:

(Signed & Sealed) Mark B. Mathisen

SLR

Dated at Lakewood, CO February 23, 2023 Mark B. Mathisen, CPG

(Signed & Sealed) R. Dennis Bergen

Dated at Toronto, ON February 23, 2023	R. Dennis Bergen, P.Eng.
	(Signed & Sealed) Jeffrey Woods
Dated at Sparks, NV February 23, 2023	Jeffrey L. Woods, MMSA QP
	(Signed & Sealed) Lee (Pat) Gochnour
Dated at Aberdeen, WA February 23, 2023	Lee (Pat) Gochnour, MMSA QP
	(Signed & Sealed)Grant A. Malensek
Dated at Lakewood, CO February 23, 2023	Grant A. Malensek, M.Eng., P.Eng.

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29.0 CERTIFICATE OF QUALIFIED PERSON

29.1 Grant A. Malensek

I, Grant A. Malensek, M.Eng., P.Eng., as an author of this report entitled"Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2022, prepared for Energy Fuels Inc., do hereby certify that:

- 1. I am a Senior Principal Mining Engineer with SLR International Corporation, of Suite 100, 1658 Cole Boulevard, Lakewood, CO, USA 80401.
- 2. I am a graduate of the University of British Columbia, Canada, in 1987 with a B.Sc. degree in Geological Sciences and Colorado School of Mines, USA in 1997 with a M.Eng. degree in Geological Engineering.
- 3. I am registered as a Professional Engineer/Geoscientist in the Province of British Columbia (Reg.# 23905). I have worked as a mining engineer for a total of 25 years since my graduation. My relevant experience for the purpose of the Technical Report is:
 - Feasibility, Prefeasibility, and scoping studies
 - · Fatal flaw, due diligence, and Independent Engineer reviews for equity and project financings
 - · Financial and technical-economic modelling, analysis, budgeting, and forecasting
 - Property and project valuations
 - Capital cost estimates and reviews
 - Mine strategy reviews
 - · Options analysis and project evaluations in connection with mergers and acquisitions
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Pinyon Plain Project on October 27, 2022.
- 6. I am responsible for Sections 1.2, 1.3.12, 1.3.14, 19, 21, 22, and 30, and contributions to Section 27 of the Technical Report.
- 7. I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
- 8. I was the Project Manager for the report entitled "Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2021.
- 9. I have read NI 43-101, and the Technical Report has been prepared in compliance with NI 43-101 and Form 43-101F1.
- 10. At the effective date of the Technical Report, to the best of my knowledge, information, and belief, the Sections 1.2, 1.3.11, 1.3.13, 19, 21, 22, and 30 of the Technical Report for which I am responsible contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Energy Fuels Inc. Pinyon Plain Project, SLR Project No:	138.02544.00006
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	SLR ^Q	
Dated this 23 rd day of February, 2023		
(Signed & Sealed)Grant A. Malensek		
Grant A. Malensek, M.Eng., P.Eng.		
Energy Fuels Inc. Pinyon Plain Project, SLR Project No: 138.02544.00006		
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29.2 Mark B. Mathisen

I, Mark B. Mathisen, C.P.G., as an author of this report entitled "Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2022, prepared for Energy Fuels Inc., do hereby certify that:

- 1. I am Principal Geologist with SLR International Corporation, of Suite 100, 1658 Cole Boulevard, Lakewood, CO, USA 80401.
- 2. I am a graduate of Colorado School of Mines in 1984 with a B.Sc. degree in Geophysical Engineering.
- 3. I am a Registered Professional Geologist in the State of Wyoming (No. PG-2821), a Certified Professional Geologist with the American Institute of Professional Geologists (No. CPG-11648), and a Registered Member of SME (RM #04156896). I have worked as a geologist for a total of 23 years since my graduation. My relevant experience for the purpose of the Technical Report is:
 - · Mineral Resource estimation and preparation of NI 43-101 Technical Reports.
 - Director, Project Resources, with Denison Mines Corp., responsible for resource evaluation and reporting for uranium projects in the USA, Canada, Africa, and Mongolia.
 - Project Geologist with Energy Fuels Nuclear, Inc., responsible for planning and direction of field activities and project development for an in situ leach uranium project in the USA. Cost analysis software development.
 - Design and direction of geophysical programs for US and international base metal and gold exploration joint venture programs.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Pinyon Plain Project on November 16, 2021.
- 6. I am responsible for Sections 1.1.1.1, 1.1.2.1, 1.3.1-1.3.7, 2-12, 14, 23, 24, 25.1, and 26.1, and contributions to Section 27 of the Technical Report.
- 7. I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
- 8. I was involved previously with the Project from 2006 to 2012 when serving as Director of Project Resources with Denison Mines. Since the Project was acquired by Energy Fuels Resources (USA) in 2012, I authored the report entitled "Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2021.
- 9. I have read NI 43-101, and the Technical Report has been prepared in compliance with NI 43-101 and Form 43-101F1.
- 10. At the effective date of the Technical Report, to the best of my knowledge, information, and belief, the Sections 1.1.1.1, 1.1.2.1, 1.3.1- 1.3.7, 2-12, 14, 23, 24, 25.1, and 26.1, and contributions to Section 27 of the Technical Report contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Energy Fuels Inc. | Pinyon Plain Project, SLR Project No: 138.02544.00006 Technical Report - February 23, 2023

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SLR^Q

SLR^Q

Dated this 23rd day of February, 2023

(Signed & Sealed) Mark B. Mathisen

Mark B. Mathisen, C.P.G.

Energy Fuels Inc. | Pinyon Plain Project, SLR Project No: 138.02544.00006 Technical Report - February 23, 2023

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29.3 R. Dennis Bergen

I, R. Dennis Bergen, P.Eng., as an author of this report entitled "Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2022, prepared for Energy Fuels Inc., do hereby certify that:

- 1. I am Associate Principal Mining Engineer with SLR Consulting (Canada) Ltd, of Suite 501, 55 University Ave., Toronto, ON M5J 2H7.
- 2. I am a graduate of the University of British Columbia, Vancouver, B.C., Canada, in 1979 with a Bachelor of Applied Science degree in Mineral Engineering. I am a graduate of the British Columbia Institute of Technology in Burnaby, B.C., Canada, in 1972 with a Diploma in Mining Technology.
- 3. I am registered as a Professional Engineer with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (Reg. #16064). I have worked as an engineer for a over 40 years since my graduation. My relevant experience for the purpose of the Technical Report is:
 - Practice as a mining engineer, production superintendent, mine manager, Vice President Operations and a consultant in the design, operation, and review of mining operations.
 - Review and report, as an employee and as a consultant, on numerous mining operations and projects around the world for due diligence and operational review related to project acquisition and Technical Report preparation.
 - · Engineering and operating superintendent at the Con gold mine, a deep underground gold mine, Yellowknife, NWT, Canada
 - General Manager of the Ketza River Mine, Yukon, Canada
 - · Vice President Operations in charge of the restart of the Golden Bear Mine, BC, Canada
 - General Manager in Charge of the Reopening of the Cantung Mine, NWT, Canada
 - Mine Manager at three different mines with open pit and underground operations.
 - Consulting engineer (Associate Principal Mining Engineer with RPA, now part of SLR) for over ten years working on project reviews, engineering studies, Mineral Reserve audits, Technical Report preparation, and other studies for a wide range of worldwide projects.
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I have not visited the Pinyon Plain Project.
- 6. I am responsible for 1.1.1.2, 1.1.2.2, 1.3.8, 1.3.9, 15, 16, 25.2, 26.2 and contributions to Section 27 of the Technical Report.
- 7. I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
- 8. I have had no prior involvement with the property that is the subject of the Technical Report.
- 9. I have read NI 43-101, and the Technical Report has been prepared in compliance with NI 43-101 and Form 43-101F1.

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10. At the effective date of the Technical Report, to the best of my knowledge, information, and belief, the Sections in the Technical Report for which I am responsible contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 23rd day of February, 2023

(Signed & Sealed)R. Dennis Bergen

R. Dennis Bergen, P.Eng.

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29.4 Jeffery L. Woods

I, Jeffery L. Woods, MMSA QP, as an author of this report entitled "Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2022, prepared for Energy Fuels Inc., do hereby certify that:

- 1. I am Principal Consulting Metallurgist with Woods Process Services, of 1112 Fuggles Drive, Sparks, Nevada 89441.
- 2. I am a graduate of Mackay School of Mines, University of Nevada, Reno, Nevada, U.S.A., in 1988 with a B.S. degree in Metallurgical Engineering.
- 3. I am a member in good standing of Society for Mining, Metallurgy and Exploration, membership #4018591. I have practiced my profession continuously for 34 years since graduation. My relevant experience for the purpose of the Technical Report is:
 - Review and report as a consultant on numerous exploration, development, and production mining projects around the world for due diligence and regulatory requirements

- Metallurgical engineering, test work review and development, process operations and metallurgical process analyses, involving copper, gold, silver, nickel, cobalt, uranium, and base metals located in the United States, Canada, Mexico, Honduras, Nicaragua, Chile, Turkey, Cameroon, Peru, Argentina, and Colombia
- Senior Process Engineer for a number of mining-related companies
- · Manager and Business Development for a small, privately owned metallurgical testing laboratory in Plano, Texas, USA
- · Vice President Process Engineering for at a large copper mining company in Sonora, Mexico
- Global Director Metallurgy and Processing Engineering for a mid-tier international mining company
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I have not visited the Pinyon Plain Project.
- 6. I am responsible for Section 1.1.1.4, 1.1.1.5, 1.1.2.4, 1.3.3, 1.3.10, 1.3.11, 5.5, 13, 17, 18, 25.3, 25.4, 26.3, and 26.4, and contributions to Section 27 of the Technical Report.
- 7. I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
- 8. I have had no prior involvement with the property that is the subject of the Technical Report.
- 9. I have read NI 43-101, and the Technical Report has been prepared in compliance with NI 43-101 and Form 43-101F1.
- 10. At the effective date of the Technical Report, to the best of my knowledge, information, and belief, the Sections in the Technical Report for which I am responsible contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 23rd day of February, 2023 (Signed & Sealed)*Jeffrey L. Woods* Jeffery L. Woods, MMSA QP

Energy Fuels Inc. | Pinyon Plain Project, SLR Project No: 138.02544.00006 Technical Report - February 23, 2023

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29.5 Lee (Pat) Gochnour

I, Lee (Pat) Gochour, MMSA QP (#01160), as an author of this report entitled "Technical Report on the Pre-Feasibility Study on the Pinyon Plain Project, Coconino County, Arizona, USA" with an effective date of December 31, 2022, prepared for Energy Fuels Inc., do hereby certify that:

- 1. I am Associate Principal Environmental Specialist, and Principal of Gochnour & Associates, Inc. of 915 Fairway Lane, Aberdeen, Washington, 98520.
- 2. I am a graduate of Eastern Washington University in 1981 with a B.A. in Park Administration and Land Use Planning.
- 3. I am a member in good standing of Mining and Metallurgical Society of America. I have practiced my profession continuously for 42 years since graduation. My relevant experience for the purpose of the Technical Report is:
 - · Vice President of Environmental Services for Pincock, Allen & Holt
 - · Corporate Environmental Manager for St. Joe Minerals, Bond International Gold, LAC Minerals and MinVen Gold Corporation
 - Environmental audits, permitting programs, developing Plan of Operations and EA/EIS, alternative siting studies, reclamation planning, environmental contingency
 planning, remediation and environmental litigation support
 - · Environmental and permitting feasibility support for project financing for domestic and international projects and clients
- 4. I have read the definition of "qualified person" set out in National Instrument 43-101 (NI 43-101) and certify that by reason of my education, affiliation with a professional association (as defined in NI 43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI 43-101.
- 5. I visited the Pinyon Plain Project on October 27, 2022.
- 6. I am responsible for Section 1.1.1.5, 1.1.2.5, 1.3.13, 4.3, 20, 25.5, and 26.5, and contributions to Section 27 of the Technical Report.
- 7. I am independent of the Issuer applying the test set out in Section 1.5 of NI 43-101.
- 8. I have had no prior involvement with the property that is the subject of the Technical Report.
- 9. I have read NI 43-101, and the Technical Report has been prepared in compliance with NI 43-101 and Form 43-101F1.
- 10. At the effective date of the Technical Report, to the best of my knowledge, information, and belief, the Sections in the Technical Report for which I am responsible contain all scientific and technical information that is required to be disclosed to make the Technical Report not misleading.

Dated this 23rd day of February, 2023

(Signed & Sealed) Lee (Pat) Gochnour

Lee (Pat) Gochnour, MMSA QP

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30.0 APPENDIX 1

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SLR **Table 30-1: SLR Base Case Cash Flow Summary Energy Fuels Inc. - Pinyon Plain Project**

	1	USD and US Units		1																	
Months	INPUTS	UNITS	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
MINING																					
Underground Mine Operating Days Tons milled per day (Steady State) Tons moved per day (Steady State)		days tons / day tons / day	750 219 227	30 - 116	30 	30 92	30 	30 67 242	30 117 279	30 35 221	30 71 200	30 146 190	30 292 292	30 175 190	30 175 221	30 175 186	30 233 236	30 292 355	30 233 233	30 205 205	30 292 301
Production Ore Grade Contained U3O8 Waste Total Moved		dry tons % U3O8 tons tons tons	134,464 0.58% 784 38,978 173,442	- 0.00% - 3,475 3,475	0.00% 414 414	0.00% 2,754 2,754	0.00% 6,426 6,426	2,013 0.37% 8 5,246 7,259	3,501 0.37% 13 4,877 8,378	1,052 0.58% 6 5,582 6,634	2,138 0.61% 13 3,852 5,991	4,376 0.61% 27 1,335 5,711	8,750 0.61% 53 8,750	5,250 0.61% 32 459 5,709	5,250 0.61% 32 1,377 6,627	5,250 0.70% 37 344 5,594	7,000 0.69% 48 66 7,066	8,750 0.68% 59 1,887 10,637	7,000 0.55% 38 - 7,000	6,164 0.58% 36 - 6,164	8,750 0.57% 50 267 9,017
PROCESSING Ore to Milling and Flotation Head Grade U3O8 Contained U3O8		dry tons % U3O8 lbs U3O8	134,464 0.58% 1,567,712	0.00%	0.00%	0.00%	0.00%	2,013 0.37% 15,051	3,501 0.37% 26,178	1,052 0.58% 12,155	2,138 0.61% 25,972	4,376 0.61% 53,203	8,750 0.61% 106,523	5,250 0.61% 63,914	5,250 0.61% 64,137	5,250 0.70% 73,027	7,000 0.69% 96,548	8,750 0.68% 118,192	7,000 0.55% 76,646	6,164 0.58% 71,868	8,750 0.57% 100,271
U3O8 Recovery Recovery Payable U3O8	96%	% lbs U3O8	96% 1,505,003	96% -	96% -	96% -	96% -	96% 14,449	96% 25,131	96% 11,669	96% 24,933	96% 51,074	96% 102,262	96% 61,357	96% 61,571	96% 70,105	96% 92,686	96% 113,465	96% 73,581	96% 68,993	96% 96,260
REVENUE Market Price Current Market Price	SLR	Input Units US\$/lb U3O8	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60	\$ 60
% Sold At Market Price Long-term Contract Price % Sold At Contract Price	100% \$0.00 0%	US\$/lb U3O8	s -	s -	s -	s -	\$-	s -	s -	s -	s -	s -	s -	s -	s -	s -	s -	s -	s -	s -	s -
Total Gross Revenue		US\$ '000	\$ 90,300	s -	s -	s -	s -	\$ 867	\$ 1,508	\$ 700	\$ 1,496	\$ 3,064	\$ 6,136	\$ 3,681	\$ 3,694	\$ 4,206	\$ 5,561	\$ 6,808	\$ 4,415	\$ 4,140	\$ 5,776
Concentrate Freight Total Charges	\$0.18/lb U3O8	US\$ '000 US\$ '000	\$ 263 \$ 263	s - s -		s - s -	s - s -		\$ 4 \$ 4	\$ 2 \$ 2	\$ 4 \$ 4	\$ 9 \$ 9	\$ 18 \$ 18	\$ 11 \$ 11		\$ 12 \$ 12		\$ 20 \$ 20			\$ 17 \$ 17
Gross Less Charges		US\$ '000	\$ 90,037	s -	s -	s -	s -	\$ 864	\$ 1,503	\$ 698	\$ 1,492	\$ 3,056	\$ 6,118	\$ 3,671	\$ 3,683	\$ 4,194	\$ 5,545	\$ 6,788	\$ 4,402	\$ 4,128	\$ 5,759
Royalty	\$1.88/t milled	US\$ '000	\$ 253	s -	s -	s -	s -	\$ 3	\$ 5	\$ 2	\$ 4	\$ 8	\$ 17	\$ 10	\$ 10	\$ 12	\$ 15	\$ 19	\$ 12	\$ 11	\$ 16
Net Smelter Return Unit NSR		US\$ '000 US\$ / t milled	\$ 89,783 \$ 0.67	s - s -	s - s -	s - s -	s - s -		\$ 1,499 \$ 0.43			\$ 3,047 \$ 0.70	\$ 6,101 \$ 0.70		\$ 3,673 \$ 0.70			\$ 6,769 \$ 0.77		\$ 4,116 \$ 0.67	
OPERATING COST	\$101.00/t																				
Underground Mining Cost	milled \$72.00/t	US\$/t milled	\$ 101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$ 101.00	\$101.00	\$101.00	\$101.00	\$101.00	\$ 101.00	\$101.00	\$101.00	\$ 101.00
Ore Trucking Cost	milled \$192.00/t	US\$/t milled	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00	\$ 72.00
WMM Milling & Processing	milled \$7,00/t	US\$/t milled	\$ 192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$ 192.00	\$192.00	\$192.00	\$192.00	\$192.00	\$ 192.00	\$192.00	\$192.00	\$ 192.00
G&A Total Unit Operating Cost	milled	US\$/t milled US\$/t milled	\$ 7.00 \$ 372.00	\$ 7.00 \$372.00		\$ 7.00 \$372.00	\$ 7.00 \$372.00	\$ 7.00 \$372.00	\$ 7.00 \$372.00	\$ 7.00 \$372.00	\$ 7.00 \$372.00	\$ 7.00 \$372.00	\$ 7.00 \$ 372.00	\$ 7.00 \$372.00		\$ 7.00 \$372.00		\$ 7.00 \$ 372.00	\$ 7.00 \$372.00	\$ 7.00 \$372.00	\$ 7.00 \$ 372.00
Underground Mining Cost Ore Trucking Cost Milling & Processing G&A Subtotal Operating Cost AZ Severance Tax Total Operating Cost with Severance Tax	1.25%	US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000	\$ 13,581 \$ 9,681 \$ 25,817 \$ 941 \$ 50,021 \$ 497 \$ 50,518	\$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ -	S - S - S - S - S - S - S - S - S -	\$ - \$ - \$ -	\$ 145 \$ 387 \$ 14 \$ 749 \$ 1	\$ 354 \$ 252 \$ 672 \$ 25 \$ 1,303 \$ 2 \$ 1,305	\$ 106 \$ 76 \$ 202 \$ 7 \$ 391 \$ 4 \$ 395	\$ 411 \$ 15 \$ 795 \$ 9	\$ 840 \$ 31 \$ 1,628 \$ 18	\$ 61	\$ 530 \$ 378 \$ 1,008 \$ 37 \$ 1,953 \$ 21 \$ 1,974	\$ 378 \$ 1,008 \$ 37 \$ 1,953 \$ 22	\$ 1,008 \$ 37 \$ 1,953 \$ 28	\$ 504 \$ 1,344 \$ 49 \$ 2,604 \$ 37	\$ 884 \$ 630 \$ 1,680 \$ 61 \$ 3,255 \$ 44 \$ 3,299	\$ 1,344 \$ 49 \$ 2,604 \$ 22	\$ 1,183 \$ 43 \$ 2,293 \$ 23	\$ 884 \$ 630 \$ 1,680 \$ 61 \$ 3,255 \$ 31 \$ 3,286
Unit Operating Cost Operating Margin		US\$/t milled US\$ '000	\$ 372 \$ 39,266	s - s -	s - s -	s - s -	s - s -	\$ 373 \$ 111	\$ 373 \$ 194			\$ 376 \$ 1,401	\$ 376 \$ 2,810				\$ 377 \$ 2,889		\$ 375 \$ 1,763		
CAPITAL COST Direct Cost Mine Development Loadout Installation UG Mine Equip, Ventilation Fans Ventilation Fans Surface Infrastructure Total Direct Cost	\$1200/ft	US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000	\$ 3,799 \$ 129 \$ 590 \$ 1,726 \$ 1,219 \$ 140 \$ 7,603	\$ 509 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ 509	\$ 129 \$ 166 \$ - \$ - \$ - \$ -		\$ 941 \$ 240 \$ - \$ - \$ 1,181	S - S - S - S -	\$ 74 \$ - \$ 432 \$ -	\$ - \$ 1,726 \$ 787 \$ - \$ 2,513	\$ - \$ - \$ - \$ - \$ -	\$ 10 \$ - \$ - \$ - \$ 10	s - s - s - s - s -	\$ - \$ - \$ - \$ - \$ - \$ -	\$ 10 \$ - \$ - \$ - \$ 10	\$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ - \$ - \$ -	s - s - s - s -	s - s - s - s - s -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -
Other Costs EPCM / Owners / Indirect Cost Subtotal Costs	Incl. Above	US\$ '000 US\$ '000	\$ - \$ 7,603	\$- \$509			s - s 1,181			\$ \$ 2,513		\$- \$10		s - s -	\$ \$_10	s - s -	s - s -	s - s -	s - s -	s - s -	s - s -

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Contingency Initial Capital Cost	15%	US\$ '000 US\$ '000	\$ 1,145 \$ 8,748				\$ 178 \$ 1,359					\$ 2 \$ 12		s - s -	\$ 2 \$ 12		s - s -	s - s -	s - s -	s - s s - s	s - s -
Sustaining Working Capital Reclamation Total Capital Cost		US\$ '000 US\$ '000 US\$ '000 US\$ '000	\$ (0) \$ 1,407	\$ - \$ - \$ - \$ 585	s - s -	\$ - \$ - \$ - \$ - \$ - \$ - \$ -	\$ - \$ - \$ - \$ 1,359	\$ -	\$ - \$ 87 \$ - \$ 1,723	\$ -	\$ -	\$ 736 \$ -	\$ 1,444 \$ -	\$ - \$(1,152) \$ - \$(1,152)	s -	\$ - \$ 512 \$ - \$ 512	\$ -	\$ - \$ 596 \$ - \$ 596	\$ - \$ (1,742) \$ - \$ (1,742)	\$ - 5	\$ - \$ 674 \$ - \$ 674
PRE-TAX CASH FLOW Net Pre-Tax Cashflow Cumulative Pre-Tax Cashflow		US\$ '000 US\$ '000	\$ 29,110				\$(1,359)		\$(1,529)				1,366 \$ 1,366 \$ (6,116)							1,765 \$ 1,765 \$10,417	
Taxes	15.4%	US\$ '000	\$ 6,046	\$-	s -	\$ -	s -	\$ -	s -	s -	\$ 45	\$ 101	\$ 210	\$ 437	\$ 258	\$ 260	\$ 337	\$ 443	\$ 540	\$ 272 5	\$ 275
After-Tax Cashflow Cumulative After-Tax Cashflow		US\$ '000 US\$ '000	\$ 23,064										\$ 1,156 \$ (6,472)				\$ 1,849 \$ 624			\$ 1,493 \$ 7,515	
PROJECT ECONOMICS Pre-Tax IRR Pre-tax NPV at 5% discounting Pre-tax NPV at 15% discounting Pre-tax NPV at 12% discounting After-Tax NPV at 5% discounting After-Tax NPV at 8% discounting After-tax NPV at 12% discounting	5% 8% 12% 5% 8% 12%	% US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000 US\$ '000	14% \$ 26,682 \$ 25,318 \$ 23,602 12% \$ 21,072 \$ 19,954 \$ 18,545																		
PROJECT CASH COSTS Operating Cash Costs All-in Sustaining Costs All-in Costs		\$/lb U3O8 \$/lb U3O8 \$/lb U3O8	33.91 34.84 40.66	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00	52.29 60.46 137.68	52.29 55.76 120.86	34.21 43.07 290.91	32.59 48.30 48.30	32.56 46.97 47.20	32.52 46.64 46.64	32.52 13.74 13.74	32.41 32.62 32.80	28.59 35.90 35.90	28.83 36.42 36.42	29.41 34.66 34.66	36.03 12.36 12.36	33.91 34.42 34.42	34.48 41.48 41.48
WORKING CAPITAL Accounts Receivable Accounts Payable Working Capital Adjustments	30 30	Days O/S Days O/S	(0) 0 (0)	-	-	-	-	867 749 118	641 554 87	(808) (911) 103	796 404 392	1,569 832 736	3,071 1,627 1,444	(2,454) (1,302) (1,152)	13 13	512 512	1,355 651 704	1,247 651 596	(2,393) (651) (1,742)	(275) (311) 36	1,636 962 674

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SLR SLR Base Case Cash Flow Summary - con't Energy Fuels Inc. - Pinyon Plain Project **Table 30-1:**

Manda		INPUTS	USD and US Units		10	20	21	22	22	24	25	26	27	28	20	20
Months MINING		INPUTS	UNITS	┢	19	20	21	22	23	24	25	26	27	28	29	30
Undergro	and															
Undergro	Mine Operating Days		days		30	30	30	30	30	30	30	30	30	30	30	30
	Tons milled per day (Steady State) Tons moved per day (Steady State)		tons / day tons / day		175 175	233 233	233 233	233 233	175 175	175 175	175 175	233 233	242 257	81 86	18 18	-
	Production Ore Grade		dry tons % U3O8		5,250 0.59%	7,000 0.69%	7,000 0.69%	7,000 0.64%	5,250 0.58%	5,250 0.58%	5,250 0.49%	7,000 0.48%	7,264 0.46%	2,426 0.19%	530 0.19%	- 0.00%
	Contained U3O8		tons		31	48	48	45	31	31	26	34	34	5	1	-
	Waste Total Moved		tons		5,250	7,000	7,000	7,000	5,250	5,250	5,250	7,000	459 7,723	157 2,583	530	1
PROCES	SING Ore to Milling and Flotation		dry tons		5,250	7,000	7,000	7,000	5,250	5,250	5,250	7,000	7,264	2,426	530	
	Head Grade Ŭ3O8		% U3O8		0.59%	0.69%	0.69%	0.64%	0.58%	0.58%	0.49%	0.48%	0.46%	0.19%	0.19%	0.00%
	Contained U3O8		lbs U3O8		62,017	96,553	96,553	89,339	61,263	61,263	51,143	67,396	67,480	9,046	1,975	-
U3O8 Re		0.64			0.001						0.001		0.000		0.607	
	Recovery Payable U3O8	96%	% lbs U3O8		96% 59,536	96% 92,691	96% 92,691	96% 85,765	96% 58,812	96% 58,812	96% 49,098	96% 64,700	96% 64,781	96% 8,684	96% 1,896	96% -
REVENU	JE										.,					
Market P	Current Market Price	SLR	Input Units US\$/lb U3O8	s	60 \$	60 5	5 60 \$	60 S	60 \$	60 \$	60 \$	60 \$	5 60 S	60 \$	60 \$	60
	% Sold At Market Price	100%														
	Long-term Contract Price % Sold At Contract Price	\$0.00 0%	US\$/lb U3O8	\$	- \$	- 5	5 - 5	- \$	- \$	- \$	- \$	- 5	s - s	- \$	- \$	
	Total Gross Revenue		US\$ '000	e	3,572 \$	5,561 \$	5,561 \$	5,146 \$	3,529 \$	3,529 \$	2,946 \$	3,882 5	\$ 3,887 \$	521 \$	114 \$	
	Total Gross Revenue		033 000	3	3,5/2 \$	5,501 3	5 5,501 3	5,140 3	3,529 5	3,529 \$	2,940 \$	3,882 3	5 3,887 5	521 \$	114 5	
	Concentrate Freight	\$0.18/lb U3O8	US\$ '000	s	10 \$	16 5	5 16 \$	15 \$	10 \$	10 \$	9 S	11 \$	s 11 \$	2 \$	0 \$	
	Total Charges	0308	US\$ '000	ŝ	10 \$	16 5				10 \$	9 \$	11 5		2 \$	0 \$	-
	Gross Less Charges		US\$ '000	s	3,562 \$	5,545 \$	\$ 5,545 \$	5,131 \$	3,518 \$	3,518 \$	2,937 \$	3,871 \$	\$ 3,876 \$	520 \$	113 \$	
		\$1.88/t		Ť	.,			.,	.,		-,	.,	,			
	Royalty	\$1.88/t milled	US\$ '000	\$	10 \$	15 \$	s 15 \$	14 \$	10 \$	10 \$	9 \$	12 \$	s 12 \$	2 \$	0 \$	
	Net Smelter Return		USS '000	e	3.552 \$	5.530 \$	5 5,530 S	5,117 \$	3,509 \$	3,509 \$	2,928 \$	3,859	5 3.864 S	518 \$	113 \$	
	Unit NSR		US\$ / t milled	ŝ	0.68 \$	0.79				0.67 \$	0.56 \$			0.21 \$	0.21 \$	
OPERAT	ING COST	\$101.00/t														
	Underground Mining Cost	milled	US\$/t milled	\$	101.00 \$	101.00 \$	5 101.00 \$	101.00 \$	101.00 \$	101.00 \$	101.00 \$	101.00 \$	\$ 101.00 \$	101.00 \$	101.00 \$	101.00
	Ore Trucking Cost	\$72.00/t milled	US\$/t milled	s	72.00 \$	72.00	§ 72.00 \$	72.00 \$	72.00 \$	72.00 \$	72.00 \$	72.00 \$	§ 72.00 \$	72.00 \$	72.00 \$	72.00
	-	\$192.00/t		s												
	WMM Milling & Processing	milled \$7.00/t	US\$/t milled	\$	192.00 \$	192.00 \$	\$ 192.00 \$			192.00 \$	192.00 \$	192.00 \$		192.00 \$	192.00 \$	
	G&A Tatal Unit Occurting Cost	milled	US\$/t milled	s s	7.00 \$	7.00 \$				7.00 \$	7.00 \$			7.00 \$	7.00 \$	7.00
	Total Unit Operating Cost		US\$/t milled	3	372.00 \$	372.00 5				372.00 \$	372.00 \$			372.00 \$	372.00 \$	372.00
	Underground Mining Cost Ore Trucking Cost		US\$ '000 US\$ '000	\$ \$	530 \$ 378 \$	707 S			530 \$ 378 \$	530 \$ 378 \$	530 \$ 378 \$			245 \$ 175 \$	54 \$ 38 \$	
	Milling & Processing		US\$ '000	\$	1,008 \$	1,344 \$	\$ 1,344 \$	1,344 \$	1,008 \$	1,008 \$	1,008 \$	1,344 \$	\$ 1,395 \$	466 \$	102 \$	-
	G&A Subtotal Operating Cost		US\$ '000 US\$ '000	s	37 \$ 1,953 \$	49 5 2,604 5			37 \$ 1,953 \$	37 \$ 1,953 \$	37 \$ 1,953 \$			17 \$ 903 \$	4 \$ 197 \$	
	AZ Severance Tax	1.25%	US\$ '000	\$	20 \$	37 \$	\$ 37 \$	31 \$	19 \$	19 \$	12 \$	16 \$	\$ 15 \$	(5) \$	(1) \$	-
	Total Operating Cost with Severance Tax		US\$ '000	\$	1,973 \$	2,641 5	5 2,641 \$	2,635 \$	1,972 \$	1,972 \$	1,965 \$	2,620 \$	\$ 2,717 \$	898 \$	196 S	-
	Unit Operating Cost		US\$/t milled	\$	376 \$	377 \$	\$ 377 \$	376 \$	376 \$	376 \$	374 \$	374 \$	\$ 374 \$	370 \$	370 \$	-
	Operating Margin		US\$ '000	\$	1,579 \$	2,889 5	\$ 2,889 \$	2,481 \$	1,536 \$	1,536 \$	963 \$	1,239 \$	\$ 1,147 \$	(380) \$	(83) \$	
CAPITAI	L COST Direct Cost															
	Mine Development	\$1200/ft	US\$ '000													
	Loadout Installation UG Mine Equip.		US\$ '000 US\$ '000	e	\$					\$	s			\$	\$	
	Ventilation Fans		US\$ '000	ŝ	- \$				- \$	- s	- \$			- \$	- s	-
	Ventilation Raise Surface Infrastructure		US\$ '000 US\$ '000	\$	- \$ - \$	- 5			- S - S	- \$	- \$ - \$	- 5	5 - S 5 - S	- \$ - \$	- S - S	-
	Total Direct Cost		US\$ '000	ŝ	- \$				- \$	- s	- \$	- 5		- \$	- \$	
	Other Costs	Incl. Above		1												
	EPCM / Owners / Indirect Cost		US\$ '000	\$	- \$	- 5			- \$	- \$	- \$	- 5		- \$	- \$	-
	Subtotal Costs		US\$ '000	\$	- \$	- 5	s - s	- 5	- \$	- \$	- \$	- 5	s - s	- \$	- \$	-
	Contingency	15%	US\$ '000	\$	- \$	- 5			- \$	- \$	- \$	- 5		- \$	- \$	-
	Initial Capital Cost		US\$ '000	\$	- \$	- 5	s - s	- S	- \$	- \$	- \$	- 5	s - s	- \$	- \$	-
	Sustaining Working Capital		US\$ '000 US\$ '000	\$	- \$ (901) \$	1,338			- \$ (966) \$	- S - S	- \$ (583) \$	285 \$		- \$ (1,566) \$	- \$ 298 \$	- 83
	Reclamation		US\$ '000	\$	- \$	- 5	s - s	- 5	- \$	- \$	- \$	- 5	\$ 75 \$	75 \$	75 \$	75
DDF TA	Total Capital Cost X CASH FLOW		US\$ '000	\$	(901) \$	1,338 5	<u>5 - 5</u> 2,889	() .	(966) \$ 2,502	- \$ 1,536	(583) \$ 1,546	285 S 954		(1,491) \$ 1,111	373 \$ (456)	158 (158)
r KE-IA?	CASH FLOW	I		1	2,480	1,551	2,889	2,897	2,302	1,330	1,346	954	1,165	1,111	(456)	(158)

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-			0.	,					-		•						
Net Pre-Tax Cashflow Cumulative Pre-Tax Cashflow		US\$ '000 US\$ '000	\$ \$	2,480 \$ 14,680 \$	1,551 16,231		2,897 §		2 \$ 0 \$	1,536 \$ 26,056 \$			\$ 1,16 \$ 29,72	5 \$ 1 \$	1,111 \$ 30,832 \$		
Taxes	15.4%	US\$ '000	\$	382 \$	239	\$ 445	\$ 446 \$	38	5\$	237 \$	238	5 147	\$ 17	79 \$	171 \$	- \$;
After-Tax Cashflow Cumulative After-Tax Cashflow		US\$ '000 US\$ '000	s s	2,098 \$ 11,121 \$	1,312 12,434	\$ 2,444 \$ 14,878	2,451 \$ 17,329 \$	2,11		1,300 \$ 20,745 \$	1,308 22,053	8 807 8 22,860	\$ 98 \$ 23,84	86 \$ 16 \$	940 \$ 24,786 \$	(456) \$ 24,330 \$	
PROJECT ECONOMICS			Ť	,	,		 .,,, .	,,			,	,			,		
Pre-Tax IRR		%															
Pre-tax NPV at 5% discounting	5%	US\$ '000															
Pre-tax NPV at 8% discounting	8%	US\$ '000															
Pre-tax NPV at 12% discounting	12%	US\$ '000															
After-Tax IRR		%															
After-Tax NPV at 5% discounting	5%	US\$ '000															
After-Tax NPV at 8% discounting	8%	US\$ '000															
After-tax NPV at 12% discounting	12%	US\$ '000															
PROJECT CASH COSTS																	
Operating Cash Costs		\$/lb U3O8		33.48	28.83	28.83	31.07	33.8	8	33.88	40.39	40.85	42.3	0	103.76	103.76	0.0
All-in Sustaining Costs		\$/lb U3O8		18.34	43.27	28.83	26.22	17.4	5	33.88	28.51	45.26	42.0)1	-67.97	300.56	0.0
All-in Costs		\$/lb U3O8		18.34	43.27	28.83	26.22	17.4	5	33.88	28.51	45.26	42.0)1	-67.97	300.56	0.0
WORKING CAPITAL																	
Accounts Receivable	30	Days O/S		(2,203)	1,989	-	(416)	(1,61	7)	-	(583)	936		5	(3,366)	(407)	(1
Accounts Payable	30	Days O/S		(1,302)	651	-	-	(65		-	-	651	9	8	(1,800)	(705)	(19
Working Capital Adjustments		-		(901)	1.338	-	(416)	(96		-	(583)	285	(9	(3)	(1,566)	298	8

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