Exploration of the Pine Ridge Uranium Deposits, Powder River Basin, Wyoming

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WYOMING'S MAJOR PRODUCING BASINS



POWDER RIVER BASIN





Model of typical stacked sandstone (paleo-river system) alteration cell







Five stacked Sandstones in the Snake Charmer Paleo-River System dipping 1 to 2° eastward into the Powder River Basin Paleocene Fort Union Formation with thick (90'+) oxidized sandstones and grey reduced mudstones in between is well exposed in the Pine Ridge.

Lithology samples of well cuttings from 1,500 foot well Lag samples 1,500' Wet grey unoxidized mudstones 1400' Yellow, Pink, and reddish oxidized sandstones rey unoxidized mudstones Surface



Measured Section Data

- 1) Location
- 2) Elevation
- 3) Thickness Grain size
- 4) Grain shape
- 5) Cementation
- 6) Oxidation
- 7) Alteration (feldspars)
- 8) Hematite/Limonite
- 9) Carbon content
- 10)Color
- 11) Lateral continuity
- 12)Sedimentary structures
- 13)Ironstone concretions
- 14)Channel trend
- 15)Pipi trend (=ground
 - water flow)











Example of 2013 Drilling

- Exploratory Well
- No prior drilling in area
- Thick sandstone sequence
- Total well GT 1.5









Model of typical stacked sandstone (paleo-river system) alteration cell



HENRY EAST SEC. 5 P2-1

Log cross section showing Gamma Ray anomalies

Green = unaltered Orange = altered Red = Gamma Ray





















Staked claims in 2008 – 2009 using GPS and ArcGIS (3,219 claims)



Exploration drilling on Stakeholder properties looking west towards the Pine Ridge





Cameco Smith Ranch Millsite- 1,000,000 pounds U3O8 prior to drying

Smith Ranch Mine sites (winter/summer)

Cameco ISR Uranium

Processing Facility

Summary of Exploration in Pine Ridge District

Use of outcrop mapping integrated with oil and gas subsurface data and available well logs resulted in a geologic model for this previously unexplored area.

Proprietary drilling by Stakeholder over the past two years has confirmed the geologic model of large mineralized alteration cells in staked fluvial sandstone sequences.

The target-rich area of potential extends over nine contiguous townships where Stakeholder has leased over 70,000 acres.

Adjacent mature in-situ projects provide strong analogs and demonstrate amenability for the ore bodies at shallow, intermediate, and deep depths.

These project attributes, with discoveries by Stakeholder are expected to result in future yellow cake production with partner or successor to Stakeholder, and warrants naming this the Pine Ridge District.

Potential resource is an estimated 66 to 72 million pounds



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