

**SOMIN**  
**WEDNESDAY, JULY 19 IN HERMOSILLO, SONORA, MEXICO**

Somin  
Hermosillo Mexico

Thermal Kinetics Engineering PLLC 60,000 LB. per hour 4 effect evaporation system. The design operating conditions for distillation, dehydration, and evaporation system, calculated for a commercially clean system are given below.

Product to be handled:	Sodium Sulfate 30.5wt% from the main feed and recycled centrate/mother liquor.
Operating pressure (last effect):	2.22 psia
Evaporator feed rate:	Centrate: 86,109 <a href="#">lb/hr@30.16wt%</a> 177.9F
Fresh feed/overflow:	244,569 <a href="#">lb/hr@30.5wt%</a> 138.8F includes 10gpm (5,000 lb/hr) wash water to centrifuge
Total Evaporation Quantity:	137,834 lb/hr
Discharge to Centrifuge:	194,819 lb/hr
Temperature:	199.9F (blended temperature of all stages)
Total Solids:	30% wt/wt Na <sub>2</sub> S <sub>04</sub> slurry magma/30.3 wt% mother liquor solution
Product Production Rate:	60,000 lb/hr

**1<sup>st</sup>. EFFECT INCLUDES:**

Padget Equipment Company 12' dia. X 16' SS Duplex 2205 stainless steel crystallizer. S/N 13-182, NB 25284, 2014, 25 psi FV @ 250F internal, 3/16" shell thickness, empty weight 21,620 lb.s. Asset No. VC2102

Padget Equipment Company model BEM 54-336, 6,290 sq. ft. Evaporator. S/N 13-157, NB 25279, 2014, (572) 1 1/2" dia. X 336" long titanium tubes rated at 50 psi FV @ 250F, 20 Ga. tube thickness, 54" X 27'3" 316L stainless steel shell rated at 50 psi FV @ 300F, 3/16" shell thickness, empty weight 13,360 lb.s, Asset No. EV-2101.

Gould 18,000 GPM duplex 2205 stainless steel circulation pump. 150 hp, 30 psi suction pressure, 36 psi discharge pressure, 550/1200 RPM, belt driven, speed reduction, Asset No. PA2103.

Northland Stainless 108 Gallon 316L stainless steel vertical pressure vessel. S/N N26504-1, NB 5606, 2013, 20" dia. X 6' SS, 50 psi FV @ 300F internal, dished top and bottom, on legs, 10 Ga shell thickness, empty weight 475 lb's, Asset No. TK-2104.

Northland Stainless 56 Gallon 316L stainless steel vertical pressure vessel. S/N N26504-2, 20" dia. X 2'8" SS, 50 psi FV @ 300F internal, Dished top and bottom, empty weight 250 lb.'s, Asset No. TK-2107

**2<sup>nd</sup> EFFECT INCLUDES:**

Padget Equipment Company 12' dia. X 16' Dulpex 2205 stainless steel crystallizer. S/N 13183, NB 25285, 2014, 25 psi FV @250F internal, 3/16" shell thickness, empty weight 21,620 lb.'s, Asset No. VC-2202

Padget Equipment Company Model BEM 54-336, 6,290 sq. ft. Evaporator. S/N 13-158, NB 25280, 2014, (572) 1 1/2" dia. X 336" long Titanium tubes rated at 50 psi FV@ 250F, 20 Ga. tube thickness, 54" dia. X 27'3" 316L stainless steel shell rated at 50 psi FV @ 300F, 3/16" shell thickness, empty weight 13,360 lb.'s, Asset No. EV-2201.

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Gould 18,000 GPM Duplex 2205 stainless steel circulation pump. 150 HP, 23.1 psi suction pressure, 29.1 psi discharge pressure, 547/1200 RPM, belt driven, speed reduction, Asset No. PA-2203.

Northland Stainless 112 gallon Duplex 2205 stainless steel vertical pressure vessel. S/N 26504-3, NB 5608, 2013, 25 psi FV 250F internal, 24" dia. X 4' SS, dished top and bottom, on legs, empty weight 450 lb.'s, Asset No. TK-2204.

**3<sup>rd</sup> EFFECT INCLUDES:**

Padget Equipment Company 12' Dia. X 16' SS Duplex 2205 stainless steel crystallizer. S/N 13184, NB 25286, 2014, 25 psi FV @ 250F internal, 1/16" shell thickness, empty weight 21,620 lb.'s, Asset No. VC-2302.

Padget Equipment Company Model BEM 54-336, 6,290 sq. ft. Duplex 2205 stainless steel evaporator. S/N 13-159, NB 25282, 2014, (572) 1 1/2" dia. X 336" long Titanium tubes rated at 50 psi FV @ 250F, 20 Ga. tube thickness, 54" dia. X 27'3" 316L stainless steel shell rated at 50 psi FV @300F, 3/16" shell thickness, empty weight 13,360 lb.'s. Asset No. EV-2301.

Goulds 18,000 GPM Duplex 2205 circulation pump. 19.3 suction pressure, 25.2 psi discharge pressure, 150 HP, 547/1200 RPM, belt driven, speed reduction. Asset No. PA-2303.

Northland Stainless 159 Gallon Duplex 2205 stainless steel vertical pressure vessel. S/N N265044, NB 5609, 25 psi FV @225F internal, dished top and bottom, empty weight 525 lb.'s, Asset No. TK-2304.

**4<sup>th</sup> EFFECT INCLUDES:**

Padget Equipment Company 12' dia. X 16' SS Duplex 2205 stainless steel crystallizer. S/N 13185, NB 25287, 2014, 25 psi FV @ 250F internal, 3/16" shell thickness, empty weight 21,620 lb.'s, Asset No. VC-2402.

Padget Equipment Company Model BEM 54-336 6,290 Sq. Ft. Evaporator. S/N 130160, NB 25281, 2014, (572) 1 1/2" dia. X 336" long Titanium tubes rated at 50 psi FV @ 250F, 20 Ga. tubes, 54" X 27'3" 316L stainless steel shell rated at 50 psi FV @ 300F, 3/16" shell thickness, empty weight 13,360 lb.'s, Asset No. EV-2401.

Gould 18,000 GPM Duplex 2205 stainless steel circulation pump. 150 HP, 17.1 psi suction pressure, 23.1 psi discharge pressure, 547/1200 RPM, belt driven, speed reduction, Asset No. PA-2403.

Northland Stainless 750 Gallon Duplex 2205 stainless steel horizontal pressure vessel. S/N N26504-5, NB 5618, 2013, 25 psi FV @ 200F internal, 48' dia. X 8'SS, empty weight 1900 lb.'s, Asset No. TK-2404

Croll Reynolds 2443 Gallon Duplex 2205 stainless steel vertical pressure vessel. S/N 88131, 2013, 15 psi FV @ 175F internal, 5' dia. X 14'SS, dished top and bottom, empty weight 4600 lb.'s, Asset No. TP-2501.

Sihi model 55320 316 stainless steel liquid ring vacuum pump. 25 HP, 12.6 GPM, 300 ACFM, Asset No. PV-2502.

Sihi model 55320 316 stainless steel liquid ring vacuum pump. 25 HP, 12.6 GPM, 300 ACFM, Asset No. PV-2503.

(4) Gould model 3196 Duplex 2205 stainless steel centrifugal pumps. 56 GPM, variable frequency drives, 1 1/2' X 3-8. Asset no.s PC 2106, PC2206, PC2306, PC2406.

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END OF EVAPORATION SYSTEM

440Volt/110 Volt motor control centers with Siemens VFD's.

Bird 40" X 60" stainless steel decanter centrifuge. S/N LB2216, 150 HP main drive, hydraulic back drive.

Approx. 27,500 Gallon 316 stainless steel vertical clarification tank. Approx. 24' dia. X 8'SS, flat open top, come bottom, with 7.5 HP FL Smidth mineral agitator drive.

Approx. 4500 gallon stainless steel vertical storage tank. Approx. 10' dia. X 8'SS, flat top and bottom. Asset No. T1107

5" X 5" X14" stainless steel centrifugal pump. 40 HP, Asset No. P1107-5.

Krebs Millmax Pump stainless steel centrifugal pumps. 7.5 HP, Asset No. P1107-4.

Approx. 14,000 Gallon stainless steel vertical mixing tank mounted on 68" carbon steel skirt. Approx. 12' dia. X 16' SS, open top, cone bottom with bridge mounted agitator. Asset No. TI-1102.

Approx. 12,000 Gallon stainless steel vertical mixing tank mounted on 64" carbon steel skirt and legs. Approx. 12' dia. X 14' SS, open top, dished bottom, with bridge mounted agitator, Asset No D1.

Approx. 4,000 Gallon stainless steel vertical mixing tank mounted on 6' carbon steel skirt and legs. Approx. 7' dia. X 13'SS, open top, dished bottom, bridge mounted agitator. Lot 53.

Sweco Model MM4Y-1W Rectangular separator. S/N 053025-A01/14, 1.9 HP, 1800 RPM, 460 volts.

24" wide X Approx. 150' long inclined rubber belt conveyor. Asset No. M1-GCI

Cleaver Brooks model CBL 700 1300 natural gas fired steam boiler. S/N OL100346, built 2000, 24,000 lb.'s per hour steam production, 700 HP, 150 psi max steam pressure, with CB profire burner, Asset No. U1-B0-002.

Cleaver Brooks Model CST-2000 Surge Tank. S/N RG-8709, 2000 gallon capacity, with (4) 5 HP vertical pumps, with controls.

Cleaver Brooks Model SMP-70-1400 Spraymaster deaerator. S/N RG008606, 1400 gallon capacity, (2) 30 HP vertical pumps, with controls.

Ingersoll Rand Model SSR EA100 Air Compressor. S/N CK3181U00088, 100 HP, 446 CFM, 125 psi max discharge pressure.

Ingersoll Rand Air Dryer,

(2) Tatsa 1000 liter vertical air receiving tanks.

38,000 liter stainless steel vertical storage tank. Approx. 8' dia. X 24' SS, cone top, flat bottom, Asset No. T1005

(2) 192,000 Liter stainless steel insulated vertical storage tanks. Approx. 18' dia. X 24' SS, cone top, flat bottom, provisions for agitator, Asset No's T1006, T1007.

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Culligan Reverse Osmosis System with (11) Culligan 8" X 15' model C-300-P-8 membrane pressure vessels, (1) 30 and (1) HP vertical pumps, Shelco stainless steel cartridge filter, controls.

Culligan Reverse Osmosis System with (2) Culligan 8" X 15' model C-300-P-8, membrane pressure vessels, 15 HP vertical pump, stainless steel vertical filter, controls  
Culligan water softening system with (3) 264 gallon tanks.

Culligan water softening system with (3) 62.4 gallon tanks.

Water transfer system with 10, 5, and 3 HP Vertical pumps and controls.

Enerfab 14,349 Gallon Duplex 2205 stainless steel vertical pressure vessel. S/N 6303174, 2013, 17.87 psi internal pressure, 12'8" dia. X 12'SS with 10' cone section, Dished top, cone bottom, empty weight 12,509 lb.'s, Asset No. T-2601.

5" X 5" X 14" stainless steel centrifugal pump. 25 HP, Asset No. P-2601

Enerfab 20,530 Gallon Duplex 2205 stainless steel vertical pressure vessel. S/N 6303175, 2013, 13.91 psi internal pressure, 14'8" dia. X 12'9" SS, with 12' cone section, Empty weight 15,949 lb.'s, Asset No. T2602

5" X 5" x 14" stainless steel centrifugal pump. 25 HP, Asset No. P2602

Feeco International 6'6" X 35' natural gas direct fired rotary dryer. S/N D20134409, 2013, first 20' of shell and lifters are 316L stainless steel, final 15' of shell and lifters are carbon steel, natural gas train, 40 HP New York blower, combustion chamber, weight 72,000 lb.'s.

(2) 15" X 14'6" stainless steel screw conveyors. Asset No.'s C2603, C2604.

Bird 36" X 72" stainless steel decanter centrifuge. S/N 6B279, 150 HP main drive, hydraulic back drive, Asset No. C2604

Bird 36" X 72" stainless steel decanter centrifuge. S/N 6B278, 150 HP main drive, hydraulic back drive, Asset No. C2603.

Sweco 23" X 43" multi motion rectangular stainless steel vibratory screener. Carbon steel frame, 29 sq. ft. screening area.

Bird 40" X 60" stainless steel decanter centrifuge. S/N LB2212, 100 HP Main drive, 1185 RPM.

SPX Marley 2 cell 2500 GPM cooling tower. (2) 448 ton units with galvanized siding on stainless steel basins. S/N 10090866-A1-NC8403BG

Temosa carbon steel vibratory feeder.

Meco 24" X Approx. 90' Inclined rubber belt conveyor. S/N 26597GC1.

Eritz Magnet.

Approx. 4500 gallon stainless steel hopper.

Mettler Toledo model 7210 truck scale. 85 ton capacity.

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SOMIN COMPAÑIA MINERA DE SONORA SA PI DE CV

Company Closing

Somin Compañia Minera De Sonora SA Pi De Cv

Boulevard de los Ganaderos 984, Hermosillo, Sonora 83293 Mexico

To be sold from a local hotel \_\_\_\_\_

Wednesday, July 19 at 10AM PT

Inspection: Day prior to auction from 9AM-4PM

Sodium sulfate producer, semi-new machinery installed

**BUYER'S PREMIUM**

18% Online w/bidspotter.com

Equipment highlights for website:

2018 CAT 420F2 IT Backhoe Loader • 2015 CAT 950GC Wheel Loader • CAT 950H/962h Wheel Loader • Evaporators • Boilers • Tanks • Cooling Towers • Centrifugal Pumps • Vacuum Systems • Trucks, Generator, Compressor, Jaw Crusher • Much More

Myron Bowling Auctioneers México 01.800.699.62.69

[https://youtu.be/tyvxQ3sQIAQ?list=PLi\\_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE](https://youtu.be/tyvxQ3sQIAQ?list=PLi_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE)

[https://youtu.be/TRVHJYm1a\\_A?list=PLi\\_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE](https://youtu.be/TRVHJYm1a_A?list=PLi_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE)

[https://youtu.be/MzRVPRYNmxA?list=PLi\\_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE](https://youtu.be/MzRVPRYNmxA?list=PLi_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE)

[https://youtu.be/ARManqHCbzI?list=PLi\\_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE](https://youtu.be/ARManqHCbzI?list=PLi_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE)

[https://youtu.be/nU3loXSZ2GU?list=PLi\\_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE](https://youtu.be/nU3loXSZ2GU?list=PLi_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE)

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[https://youtu.be/1ckQsrPffS8?list=PLi\\_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE](https://youtu.be/1ckQsrPffS8?list=PLi_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE)

[https://youtu.be/Fqi1x0qHiCw?list=PLi\\_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE](https://youtu.be/Fqi1x0qHiCw?list=PLi_ydM7jWNOpXy3f0WLS7sCkX0imKRZUE)

on-site and internet auction in real time due to the closing of a sodium sulfate producer, semi-new machinery installed - hermosillo, sonora

riggers

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