

Southern Star 2019 Planned Service Outage						Historical Average ID3 Scheduled Volume		
Work Activity						Operational Capacity Information		
Status	Projected Start Date	Projected Return to Normal Date	Location(s)	Type of Work	Map	Capacity After Reduction	% Reduction from Normal Operational Capacity	Constraint Area(s)
	May 14, 2019	June 29, 2019	Riner C/S	Riner Unit Maintenance	Map	159,695 Dth/d Riner Station (Location 445569)	18% Reduction - (Location 445569)	Rawlins Hesston
	June 3, 2019	June 21, 2019	Peculiar C/S	Peculiar Unit Maintenance	Map	200,000 Dth/d Sedalia @ Ottawa (Location 442350)	13% Reduction - (Location 442350)	Sedalia, Carrollton
	June 19, 2019	June 21, 2019	Yuma C/S	Unit Maintenance	Map	165,000 Dth/d Levant Station (Location 445577)	15% Reduction - (Location 445577)	Rawlins Hesston
	June 24, 2019	June 29, 2019	Hoxie C/S	Hoxie Unit Painting	Map	165,000 Dth/d Levant Station (Location 445577)	15% Reduction - (Location 445577)	Rawlins Hesston
	June 26, 2019	June 28, 2019	Otis C/S to Hesston C/S	Smart Pig Run	Map	55,000 Dth/d Levant Station (Location 445577) 0 Dth/d ANR Alden (Location 35515) 0 Dth/d KGST Alden (Location 208) 0 Dth/d NGPL Barton (Location 121415)	71% Reduction - (Location 445577) 100% Reduction - (Location 35515) 100% Reduction - (Location 208) 100% Reduction - (Location 121415)	Rawlins Hesston
	July 16, 2019	July 18, 2019	Ratliff C/S	Ratliff Unit Maintenance	Map	40,000 Dth/d NGPL Carter County (Location 17069)	53% Reduction - NGPL Carter County (Location 17069)	South of Edmond
	July 17, 2019	July 19, 2019	Logan Co, OK	Pipeline Maintenance	Map	0 Dth/d West Edmond (Location 444001) 0 Dth/d Superior Cashion (Location 16857) 0 Dth/d DCP Kingfisher (Location 12723)	100% Reduction - (Location 444001) 100% Reduction - (Location 16857) 100% Reduction - (Location 12723)	West Edmond
Revised	July 22, 2019	July 31, 2019	Welda C/S	Welda Station Modifications	Map	275,000 Dth/d Hesston CS (Location 445536) 430,000 Dth/d Blackwell CS (Location 445511) 20,000 Dth/d TIGT Glavin (Location 16593) 10,000 Dth/d TIGT Sugar Creek (Location 16592) Interruptible Services Will be Impacted	57% Reduction - (Location 445536) 34% Reduction - (Location 445511)	Kansas Hugoton, Rawlins Hesston, Straight Blackwell, Canadian Blackwell, Blackwell Edmond, South Edmond, Oklahoma Other
	August 5, 2019	August 9, 2019	Riner C/S	Modernization AMOT Temperature Control Valve Installation	Map	85,000 Dth/d Riner Station (Location 445569)	56% Reduction - (Location 445569)	Rawlins Hesston
NEW	August 8, 2019	August 10, 2019	Cleveland Co, OK	Modernization HDD for Pipeline Exposure	Map	0 Dth/d Cement System Receipt (443403) 0 Dth/d Cement System Delivery (443400) This is a net zero constraint - Receipts and Deliveries Must Balance 0 Dth/d Oklahoma Cogeneration Plant (Location 41)	100% Reduction - (Location 41)	South of Edmond
	September 3, 2019	September 27, 2019	St. Francis and Otis C/S	St. Francis Unit Maintenance and Modernization St. Francis / Otis NEC Panel Replacement	Map	165,000 Dth/d Levant Station (Location 445577)	15% Reduction - (Location 445577)	Rawlins Hesston
	September 9, 2019	September 14, 2019	Saginaw C/S	Saginaw Unit Maintenance	Map	200,000 Dth/d Saginaw Station (Location 444550)	17% Reduction - (Location 444550)	Springfield, Jane
	September 16, 2019	September 21, 2019	Peculiar C/S	Peculiar Unit Maintenance	Map	200,000 Dth/d Sedalia @ Ottawa (Location 442350)	13% Reduction - (Location 442350)	Sedalia, Carrollton
	September 17, 2019	September 26, 2019	Edmond C/S	Edmond Unit Maintenance	Map	100,000 Dth/d Edmond Station (Location 445535)	23% Reduction - (Location 445535)	South of Edmond, Oklahoma Other

Work Activity						Operational Capacity Information		
Status	Projected Start Date	Projected Return to Normal Date	Location(s)	Type of Work	Map	Capacity After Reduction	% Reduction from Normal Operational Capacity	Constraint Area(s)
	October 1, 2019	November 1, 2019	Saginaw C/S	Saginaw Turbine Maintenance and Modernization Upgrades	Map	150,000 Dth/d Saginaw Station (Location 444550)	37% Reduction - (Location 444550)	Springfield, Jane
	September 24, 2019	November 1, 2019	Levant C/S and Yuma C/S	Levant Unit Maintenance, Modernization NEC Panel Replacement, Painting and Yuma Unit Maintenance, Modernization Install of Electronic Fuel Checks	Map	165,000 Dth/d Levant Station (Location 445577)	15% Reduction - (Location 445577)	Rawlins Hesston
	October 1, 2019	October 8, 2019	Blackwell C/S	Blackwell Unit Maintenance	Map	420,000 Dth/d Blackwell West (Location 449000) 100,000 Dth/d Edmond Blackwell (Location 443800) (If turbine is in service, posting will be removed due to no impact to customers)	15% Reduction - (Location 449000) 23% Reduction- (Location 443800)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, Oklahoma Other
	October 1, 2019	October 3, 2019	Ratliff C/S	Ratliff Unit Maintenance	Map	40,000 Dth/d NGPL Carter County (Location 17069)	53% Reduction - NGPL Carter County (Location 17069)	South of Edmond
	October 1, 2019	October 3, 2019	Montezuma C/S	Modernization - Replace PLC's at Montezuma	Map	250,000 Dth/d Kansas Hugoton (441300)	35% Reduction - (Location 441300)	Kansas Hugoton
	October 8, 2019	October 9, 2019	Edmond C/S	Edmond ESD Testing	Map	20,000 Dth/d Edmond CS (Location 445535) 0 Dth/d West Edmond CS (Location 444001) 0 Dth/d Oklahoma Cogen (Location 41)	85% Reduction - (Location 445535) 100% Reduction - (Location 444001) 100% Reduction - (Location 41)	South of Edmond, Oklahoma Other
	October 15, 2019	October 22, 2019	Blackwell C/S	Blackwell Unit Maintenance	Map	420,000 Dth/d Blackwell West (Location 449000) 100,000 Dth/d Edmond Blackwell (Location 443800) (If turbine is in service, posting will be removed due to no impact to customers)	15% Reduction - (Location 449000) 23% Reduction- (Location 443800)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, Oklahoma Other
	October 23, 2019	October 24, 2019	Blackwell C/S & Grabham C/S	Blackwell North Station ESD Testing & Grabham Station ESD Testing	Map	320,000 Dth/d Blackwell CS (Location 445511)	49% Reduction - (Location 445511)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, South Edmond, Oklahoma Other
	October 24, 2019	October 25, 2019	Blackwell C/S	Blackwell South Station ESD Testing	Map	320,000 Dth/d Blackwell West (Location 449000) 100,000 Dth/d Edmond Blackwell (Location 443800)	35% Reduction - (Location 449000) 23% Reduction- (Location 443800)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, Oklahoma Other
	November 4, 2019	November 12, 2019	Blackwell C/S	Blackwell Unit Maintenance	Map	290,000 Dth/d Blackwell West (Location 449000) 420,000 Dth/d Blackwell Station (Location 445511) (If turbine is in service, posting will be removed due to no impact to customers)	40% Reduction - (Location 449000) 28% Reduction - (Location 445511)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, South Edmond, Oklahoma Other
	December 3, 2019	December 10, 2019	Blackwell C/S	Blackwell Unit Maintenance	Map	290,000 Dth/d Blackwell West (Location 449000) 420,000 Dth/d Blackwell Station (Location 445511) (If turbine is in service, posting will be removed due to no impact to customers)	40% Reduction - (Location 449000) 28% Reduction - (Location 445511)	Straight Blackwell, Canadian Blackwell, Blackwell Edmond, South Edmond, Oklahoma Other

