

Sandridge E&P LLC					
Judy # 1-30					
API: 05-057-06466					
Jackson County					
NESE 30-7N-80W					
Dakota Formation		7730-7829 ft	99 ft		
	Perfs	7730-7776 ft	46 ft		
	Interval A:	7730-7755 ft	25 ft	7% porosity from Density/Neutron Log	
	Interval B:	7755-7776 ft	21 ft	13% porosity	
Lakota Formation		7829-7904 ft	75 ft		
	Perfs	7830-7902	72 ft		
	Interval C	7830-7902	72 ft	13% porosity	
Maximum Volume Calculation:					
Maximum Injection Volume =		$(\text{Radius}^2 \times \pi \times \text{Interval Thickness} \times \text{Porosity}) / 5.6146 \text{ bbl/ft}^3$			barrels
		Radius = 1/4-mile = 1320 ft			
		PI = π = 3.1514	Interval thickness in feet		
		Porosity = Φ = Decimal %, 1.00=100%			
		5.6146 = conversion factor cubic feet to barrels			
	Interval A	$((1320)^2 \times 3.1514 \times 25 \times 0.07) / 5.6146 =$			
				1,706,149	
	Interval B	$((1320)^2 \times 3.1514 \times 21 \times 0.13) / 5.6146 =$			
				2,661,592	
	Interval C	$((1320)^2 \times 3.1514 \times 72 \times 0.13) / 5.6146 =$			
				9,125,460	
			Total	13,493,201	barrels

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182°
Top Dakota: 7730 ft

7% Average
Porosity

Dakota Perfs: 7730-7776 ft

13% Average
Porosity

183°

7800

185°

Top Lakota: 7829 ft

13% Average
Porosity

Lakota Perfs: 7830-7902 ft

184°

7900

Top Morrison: 7904 ft

CAL →

GR →

182°

Neu →

Den →

FR

FR

TD: 8190 ft

30%

20%

10%

0%

-10%

B. Koehler, COGCC
1/6/2017