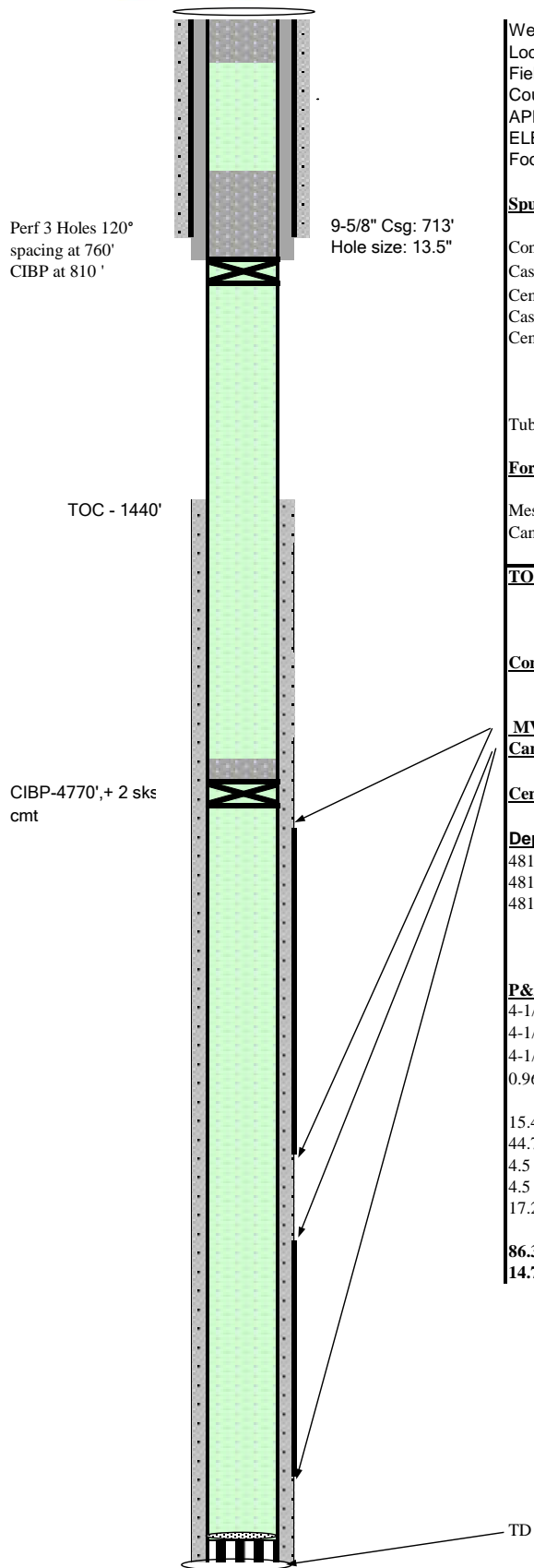




# Exploration and Production

## Well P&A Procedure



Well Name **GM 247-1**  
 Location **NESE 1-7S-96W**  
 Field **South Grand Valley**  
 County **Garfield, CO**  
 API **05-045-07744**  
 ELEV **5,350'**  
 Footages **1859 FSL 1137 FEL**

### Spud 06/26/2001

Conductor		
Casing	<b>713'</b>	<b>9-5/8" 32.3#</b>
Cement	380 sx	Class G
Casing	<b>6506'</b>	<b>4-1/2" 11.6# N-80</b>
Cement	885 sx	Class G

Tubing **6097'**

### Formation Tops

Mesaverde	4818'
Cameo	6092'

**TOC - Bond Log 1440'**

### Completed Intervals

	<u>Depth</u>	<u># Holes</u>
<u>MV</u>	4818' - 5968'	50
<u>Cameo</u>	6092' - 6359'	16

### Cement Squeezes

<u>Depth</u>	<u># Holes</u>	<u>Sx</u>
4818-4910'	12	200
4818-4910'	12	50
4818-4910'	12	20

### P&A Calculations

4-1/2" OD csg in 7-7/8" hole, 0.0406 bbls/ft, 0.2278 ft<sup>3</sup>/ft  
 4-1/2" OD csg in 9-5/8" 32.3# csg, 0.0588 bbls/ft, 0.3313 ft<sup>3</sup>/ft  
 4-1/2" OD 11.6# csg capacity, 0.0155 bbls/ft, 0.0872 ft<sup>3</sup>/ft  
 0.96 ft<sup>3</sup>/sks, cement yield

15.4 sks, 2.6 bbls, 4-1/2" 11.6# csg in 7-7/8" hole, 50 ft, 30% excess  
 44.7 sks, 7.6 bbls, 4-1/2" 11.6# csg in 9-5/8" 32.3# csg, 100-ft  
 4.5 sks, 0.8 bbls, 4-1/2" 11.6# csg, 50-ft  
 4.5 sks, 0.8 bbls, 4-1/2" 11.6# csg, 50-ft  
 17.2 sks, 2.9 bbl, 4-1/2" 11.6# csg in 9-5/8" 32.3# csg, 50-ft

**86.3 Total Sks Cement, 15.5#, 0.96 ft<sup>3</sup>/sks**

**14.7 Total Bbls Cement**

**6506', 4-1/2" Csg, Hole Size, 7-7/8"**