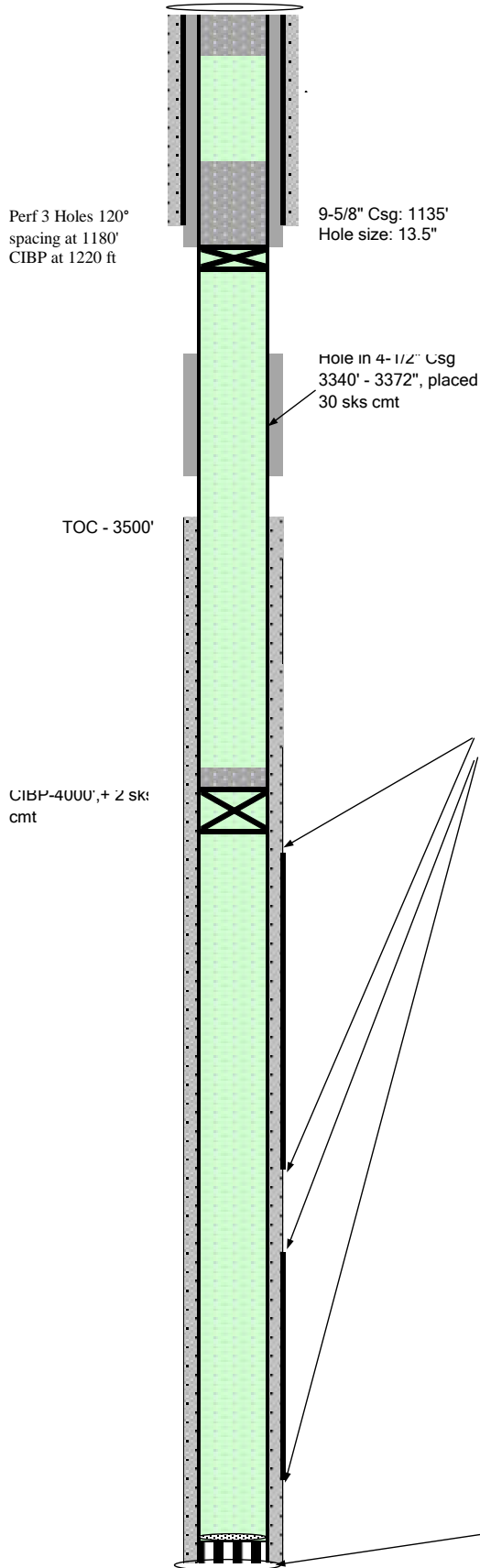




Exploration and Production

Well P&A Procedure



Well Name **GM 513-1**
 Location **NWSW 1 7S 96W**
 Field **Grand Valley**
 County **Garfield, CO**
 API **05-045-10245**
 ELEV **5,238'**
 Footages **1415 FSL 1098 FWL**

Spud 02/04/2005

| | | |
|-----------|---------------|--------------------------|
| Conductor | 50' | |
| Casing | 1135' | 9-5/8" 32.3# |
| Cement | 475 sx | Class G |
| Casing | 6370' | 4-1/2" 11.6# I-80 |
| Cement | 775 sx | Type V HCl |

Tubing **N/A**

Formation Tops

| | |
|-----------|--------------|
| Mesaverde | 4066' |
| Cameo | 5873' |

TOC - Bond Log 4820'

Completed Intervals

| | <u>Depth</u> | <u># Holes</u> |
|--------------|---------------|----------------|
| <u>MV</u> | 4066' - 5676' | 93 |
| <u>Cameo</u> | 5873' - 6144' | 22 |

Cement Squeezes

| <u>Depth</u> | <u># Holes</u> | <u>Sks</u> |
|----------------------|----------------|------------|
| 3340' - 3372' | N/A | 30 |
| 4039', 4066' - 4462' | 21 | 175 |

P&A Calculations

4-1/2" OD csg in 7-7/8" hole, 0.0406 bbls/ft, 0.2278 ft³/ft
 4-1/2" OD csg in 9-5/8" 32.3# csg, 0.0588 bbls/ft, 0.3313 ft³/ft
 4-1/2" OD 11.6# csg capacity, 0.0155 bbls/ft, 0.0872 ft³/ft
 0.96 sks/ft³, cement yield
 14 sks, 2.4 bbls, 4-1/2" 11.6# csg in 7-7/8" hole, 45 ft, 30% excess
 17.2 sks, 2.9 bbl, 4-1/2" 11.6# csg in 9-5/8" 32.3# csg, 50-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
57.4 sx Total Cement, 15.5#, 0.96 ft³/n
9.8 Total Bbls Cement

TD **6370', 4-1/2" Csg, Hole Size, 7-7/8"**