

**SAN JUAN OPERATIONAL UNIT
FC FLAHERTY COM #1; ESTIMATED TOC
ASSUMES 25% CEMENT LOST TO FORMATION**

VOLUME (CUBIC FEET) = NUMBER SACKS * CUBIC FEET/S
 AREA (SQ. FT.) = PI((HOLE SIZE/2)**2-(CASING SIZE/2)**2)/144
 HEIGHT (FEET) = VOLUME (CU. FT.)/AREA (SQ. FT.) *.75 (SLURRY EFFICIENCY)
 ESTIMATED TOC (FEET) = DEPTH (FEET) - HEIGHT (FEET)

I: SURFACE CASING:

SIZE: 9.625 "
 HOLE: 12.250 "
 GRADE: J-55
 WEIGHT: 36.00 #/FT
 DEPTH: 233 '
 TOC: CIRC '
 CEMENT: 150 SACKS
 1.18 CUFT/SX
 - SACKS
 - CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	
LEAD	0.313	424	
177.0		EST. TOC FEET	
TAIL		(191)	
0.0			

IV: 2ND DV TOOL:

TOC: - '
 CEMENT: - SACKS
 - CUFT/SX
 - SACKS
 - CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.162	0	0
0.0			
TAIL			
0.0			

III: 1ST DV TOOL:

TOC: - '
 CEMENT: - SACKS
 - CUFT/SX
 - SACKS
 - CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.162	0	0
0.0			
TAIL			
0.0			

II: INTERMEDIATE OR PRODUCTION CASING:

SIZE: 7.000 "
 HOLE: 8.875 "
 GRADE: N-80
 WEIGHT: 23.00 #/FT
 DEPTH: 3,040 '
 TOC: CIRC '
 CEMENT: 250 SACKS
 1.94 CUFT/SX
 100 SACKS
 1.15 CUFT/SX

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.162	2,771	269
485.0			
TAIL			
115.0			

**V: PROD.
LINER:**

SIZE: 5.500 "
 HOLE: 6.250 "
 GRADE: N-80
 WEIGHT: 23.00 #/FT
 DEPTH: 2284-2695 '
 TOC: N/A '
 CEMENT: NONE SACKS

VOLUME CU. FT.	AREA SQ. FT.	HEIGHT FEET	EST. TOC FEET
LEAD	0.048	0	0
0.0			
TAIL			
0.0			

NONE
2ND DV
TOOL

III

NONE
1ST DV
TOOL

II

NONE
TOL:

V

PBTD
TD

2,695 '
2,695 '

- CUFT/SX
 - SACKS
 - CUFT/SX