

STRAWBERRY 7 FED COM #2

DRILLING PLAN

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4. Casing Program

<u>INTERVALS</u>	<u>LENGTH</u>	<u>CASING</u>	BURST Strength PSI	COLLAPSE Strength PSI	TENSION Strength LBS
<u>Surface</u> 0 – 450 500'	450 500'	13 3/8" 48# WC-50 STC	1700	740	308M
<u>Intermediate</u> 0 – 3,500'	3,500'	8 5/8" 32# J-55 LTC	3930	2530	417M
<u>Production</u> 0 – 2,400'	2,400'	5 1/2" 20# L-80 LTC	9190	7302	416M
2,400 – 9,600'	7,200'	5 1/2" 17#, L-80, LTC	7740	5990	338M
9,600' – 12,500'	2,900'	5 1/2", 20#, L-80, LTC	9190	8830	416M

Cementing Program

<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CEMENT</u>	<u>YIELD CF/SX</u>	<u>% EXCESS</u>	<u>TOC</u>	<u>WOC HRS</u>
<u>Surface</u> 17 1/2"	500'	Lead: 210 sxs lite & 2% CACL2 + 1/4#/sx celloflk (12.7# gal) Tail: 250 sx Cl "C" + 2% CaCl2 + 1/4#/sx celloflk (14.8#/gal)	1.88 1.35	100	Surf.	18
<u>Intermediate</u> 12 1/4"	3,500'	Lead: 1100 sxs lite + 5% + 1/4#/sx celloflate (12.7#/gal) Tail: 250sx Cl "C" + CaCl2 + 1/4#/sx celloflk (14.8#/gal)	2.1 1.35	100	Surf.	12
<u>Production</u> 7 7/8"	12,500'	Lead #1 578 sx Class H w/3% KCl + 1% FL-25 + .1% sodium metasillicate + 5#/sx gilsonite + 1/4#/sx celloflake + .003 gal/sx FP-13L Tail #1 200 sx Super C yield 1.35 Lead #2 980 sxs Class H yield 1.6 Tail #2 150 sx Super C yeild 1.35	1.6	30	6400'	24

The cement volumes for the 5 1/2" casing will be revised pending the caliper measurement from the open hole logs.