

EXHIBIT "A"

CASING SUMMARY (No liner needed)

Casing Size (inches)	Set From (MD)	Set To (MD)	Casing Wt (Lb/ft)	Casing Grade	Casing Coupling	Torque (Ft-Lbs)	Hole Size (inches)	API Burst (psi)	API Collapse (psi)	API Tension (M lbs)
13.375	0	1200	54.50	K55	STC	5140	17.50	2730	1130	547
9.625	0	2800	43.50	L80	BTC	NA	12.25	6330	3810	1074
9.625	2800	5250	40.00	K55	BTC	NA	12.25	3950	2570	843
9.625	5250	7500	43.50	L80	BTC	NA	12.25	6330	3810	1074
9.625	7500	10600	47.00	L80	BTC	NA	12.25	6870	4750	1161

Casing Size (inches)	Set From (MD)	Set To (MD)	Casing Wt (Lb/ft)	Mud wt. when set (ppg)	Frac gradient @ shoe (PSI/ft)	Pore Press at Shoe (PSI)	P-max Surface (PSI)	Burst Safety Factor	Collapse Safety Factor	Tension Safety Factor
13.375	0	1200	54.50	8.4	0.7	524	2000	3.66	2.18	3.49
9.625	0	2800	43.50	9.2	NA		3000	2.09	3.15	2.06
9.625	2800	5250	40.00	9.2	NA			1.3	1.13	1.64
9.625	5250	7500	43.50	9.2	NA			2.06	1.17	3.37
9.625	7500	10600	47.00	9.2	0.7	4832		2.22	1.07	5.08

Remarks: Clean, drift, and visual end area inspection on all casings at location.
The 9.625" will be EMI in the yard.
Weld collars on first three joints of surface casing to prevent backing off during drill out

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