

BRITT 15
PROPOSED CASING & CEMENT PLAN

Surface casing size:	13 1/4" 42# WC-40 STC	Casing OD:	11.750 in
Surface casing depth:	1,500 ft	Casing ID:	11.084 in
Hole size:	14.75 in	Shoe pt length:	40 ft
Static temperature:	89 deg F	Lead Excess:	100 %
Circulating temperature:	85 deg F	Tail Excess:	86 %
Lead:	485 sx	Cl C + 0.25 pps Celio Flake + 0.005 gps FP-6L + 2% Sodium Metasilicate	
Tail:	200 sx	Cl C + 2% CaCl + 0.005 gps FP-6L	
Properties		Lead	Tail
Slurry Weight (ppg)		12.4	14.6
Slurry Yield (cfps)		2.15	1.34
Mix Water (gps)		12.33	6.35
Pump time - 70 BC (HH:MM)		6:25	2:20
Free Water (mls) @ 80 deg F @ 90 deg angle		0	0
Fluid Loss (cc/30 min) @ 1000 psi and 80 deg F		854	900
Compressive Strength (psi)			
12 hrs @	89 deg F	124	1200
24 hrs @	89 deg F	250	2000

Intermediate casing size:	8.5 8" 32# J-55, LT&C	Casing OD:	8.625 in
Intermediate casing depth:	5,250 ft	Casing ID:	7.921 in
Hole size:	11.00 in	Shoe pt length:	40 ft
Static temperature:	112 deg F	Lead Excess:	81 %
Circulating temperature:	105 deg F	Tail Excess:	50 %
Lead:	175 sx	50:50 Poz Cl C + 5% NaCl + 0.25 pps Celio Flake + 0.005 gps FP-6L + 10% bwoc Bentonite	
Tail:	250 sx	Cl C	
Properties		Lead	Tail
Slurry Weight (ppg)		11.85	14.8
Slurry Yield (cfps)		2.41	1.33
Mix Water (gps)		13.79	6.33
Pump time - 70 BC (HH:MM)		2:58	2:31
Free Water (mls) @ 80 deg F @ 90 deg angle		1	0
Fluid Loss (cc/30 min) @ 1000 psi and 80 deg F		792	62
Compressive Strength (psi)			
12 hrs @	124 deg F	50	1013
24 hrs @	124 deg F	175	1877
OV Tool @:	3,500 ft		
Lead:	625 sx	50:50 Poz Cl C + 5% NaCl + 0.25 pps Celio Flake + 0.005 gps FP-6L + 10% bwoc Bentonite	
Tail:	100 sx	Cl C + 1% bwoc CaCl	
Properties		Lead	Tail
Slurry Weight (ppg)		11.85	14.8
Slurry Yield (cfps)		2.41	1.34
Mix Water (gps)		13.79	6.34

Production casing size:	5.1 2 1/2" 17# J-55, LT&C	Casing OD:	5.500 in
Production casing depth:	8,471 ft	Casing ID:	4.892 in
Hole size:	7.875 in	Shoe pt length:	80 ft
Static temperature:	131 deg F	Lead Excess:	0 %
Circulating temperature:	124 deg F	Tail Excess:	50 %
Tail:	400 sx	15:61:11 Poz:Cl C:CE + 5% bwoc NaCl + 1% FL-62 + 0.005 gps FP-6L	
Properties		Lead	Tail
Slurry Weight (ppg)			13.6
Slurry Yield (cfps)			1.49
Mix Water (gps)			7.31
Pump time - 70 BC (HH:MM)			2:31
Free Water (mls) @ 80 deg F @ 90 deg angle			0
Fluid Loss (cc/30 min) @ 1000 psi and 80 deg F			62
Compressive Strength (psi)			
12 hrs @	124 deg F		1013
24 hrs @	124 deg F		1877

