XHIBIT"D"

CEMENTING SUMMARY

Liner needed

13.375" Surface Casing

<u>1st Stage</u>	e: Lead	<u>Lead 1</u> :		Premium Plus Scavenger Slurry with 10 PPS Diamond Seal										
	Lead	<u>2</u> :	Thix-Set Cement, 1% Thix-Set A, 0.25% Thix-Set B											
Lead 3:			Hallibu	Halliburton Light Premium Plus with 2% CaCl2, 0.5 PPS Flocele, 5 PPS Gilsonite										
Tail Slurry:				Premium Plus with 2% CaCl2										
From Depth	TOC (MD)	Stage	Hole Size	% Excess	Density PPG	Yield ft3/sk	Mix Water	Qty Sks	Pump Time	FL cc	FW %	12 Hr Psi	24 Hr Psi	
Surf	Surf	Lead 1	17.5"		9.50	7.15	49.9	100						
Surf	Surf	Lead 2	17.5"		14.00	1.52	7.71	100					-	
900'	Surf	Lead 3	17.5"	50	12.40	2.04	10.78	440						
1200'	900'	Tail	17.5"	50	14.80	1.34	6.31	300						

Remarks:

Float Equip. Centralizers: Lead with 10 bbls gelled water

Cement slurry design may be adjusted based on formation tops and hole conditions
Use Weatherford-Gemeco for float equipment
Texas pattern shoe, single shoe joint, insert float
Middle of shoe jt., every other jt. to surface

9.625" Intermediate Casing

1st Stage: Lead Slurr 2nd Stage: Lead Slurr Tail Slurry		Slurry: Slurry:	Class H foamed with 350 dcf/bbl N2 Class H foamed with 150 dcf/bbl N2 Interfill C w/ 0.25 PPS flocele, 3.0 PPS gilsonite, 0.2% Halad 322 Premium										
From Depth	TOC (MD)	Stage	Hole Size	% Excess	Density Ppg	Yield ft3/sk	Mix Water	Qty Sks	Pump Time	FL cc	FW %	12 Hr Psi	
6800'	0'	2-Lead	12.25"	35	11.9	2.47	13.83	1360	4:50	650	0	173	F
7200'	6800`	2-Tail	12.25"	35	14.8	1.32	6.32	200	2:10	950	1	1100	
8300'	7200'	I-Lead	12.25"	60	9.20	2.18	5.2	350			† –		-
9500'	8300'	1-Lead	12.25"	60	13.0	1.44	5.18	670					

Remarks:Use open hole caliper volume plus 35% excess for first stage
Use open hole caliper volume plus 35% excess for second stage
Cement slurry design may be adjusted based on formation tops and hole conditions
Use Weatherford-Gemeco for float equipmentFloat Equip.Float shoe, single shoe joint, float collar, DV and ECP tool @ 7300' (MD)
Middle of shoe jt., every other jt. to DV collar, 1 below & above DV collar

7" Liner

1st Stage:	Lead Slurry:	Class H, w/ 0.5% Halad 344, 1 lb.sx Salt, 0.4% CFR3, 5 PPS Gilsonite, 0.2% HR7

From Depth	TOC (MD)	Stage	Hole Size	% Excess	Density Ppg	Yield ft3/sk	Mix Water	Qty Sks	Pump Time	FL	FW %	12 Hr Psi	24 Hr Psi
9400'	10600'	l-Lead	8.5"	35	13.0	1.67	8.24	250					1.01

Remarks:

Use open hole caliper volume plus 35% excess for first stage Cement slurry design may be adjusted based on formation tops and hole conditions Use Weatherford-Gemeco for float equipment Liner hanger contractor: xxxx 24 Hr Psi 365 2400

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