A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit # 36

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Test Frequency

- 1. When installed.
- 2. Anytime a pressure seal is broken (test confined only to affected equipment).
- 3. At least every 20 days.
- 4. Blind and pipe rams shall be activated each trip but not more than once/day.

4. Casing and Cement Program:

DEP FROM	TH <u>TO</u>	SECTION LENGTH	HOLE <u>SIZE</u>	CSG <u>SIZE</u>	WT. <u>PPF</u>	GRADE	THREADS COUPLINGS	NEW <u>USED</u>
0	1200'	1200	12.25"	9-5/8"	36.00#	K-55	8rd, STC	New
0	4800'	4800'	8.750"	7.00"	23.00#	K-55	8rd, LT&C	New
4800'	9600'	4800 '	8.750"	7.00"	26.00 [#]	K-55	8rd, LT&C	New

Casing <u>String</u>	DV <u>Depth</u>	<u>Stq.</u>	Lead <u>Tail</u>	Amt <u>SXS</u>	Type <u>Cement</u>	Yield <u>CF/SX</u>	Wt. <u>PPG.</u>	TOC	Additives
9.625"	none	1	L	350	"C"	2.02	12.4	surf.	5# /Sk.Gilsonite,2% Cacl1/4# cello
9.625"	none		Т	150	"C Neat	1.34	14.8	800'	2% Cacl, ¼# cello
7.0"	6300'	1	L	340	Prem.	1.44	13.0	6300'	Foamers, N2
7.0"		2	L	850	Interfill "C"	2.47	11.9	Surf.	1/4pps Cello,3pps Gilsonite,0.2% 322 Halad
7.0		2	т	100	"C" Neat	1.32	14.8	6000'	N/A

Each stage will be preceded by an appropriate mud flush. Actual production hole volumes will be based on the caliper volume plus 25% excess.