

A. P. D. (cont.)
Thirteen Point Surface Use Plan
Indian Hills Unit #41

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:

<u>---DEPTH---</u>		<u>SECTION</u>	<u>HOLE</u>	<u>CSG</u>	<u>WT.</u>	<u>THREADS</u>		<u>NEW</u>
<u>FROM</u>	<u>TO</u>	<u>LENGTH</u>	<u>SIZE</u>	<u>SIZE</u>	<u>PPF</u>	<u>GRADE</u>	<u>COUPLINGS</u>	<u>USED</u>
0	1800'	1800'	12.25"	9-5/8"	36.00#	K-55	8rd, STC	New
0	4800'	4800'	8-3/4"	7"	23#	K-55	8rd, LT&C	New
4800'	8500'	3700'	8-3/4"	7"	26#	K-55	8rd, LT&C	New

<u>CasingDV</u>	<u>String</u>	<u>Depth</u>	<u>Stg.</u>	<u>Lead</u>	<u>Amt</u>	<u>Type</u>	<u>Yield</u>	<u>Wt.</u>	<u>TOC</u>	<u>Additives</u>
				<u>Tail</u>	<u>SKS</u>	<u>Cement</u>	<u>CF/SK</u>	<u>PPG.</u>		
9.625"	none	1		L	500	Foam Cmt.	1.78	11.2	100'	
9.625"	none			T	140	"C" Neat	1.35	14.8	900'	3% Cacl

NOTE: Pump 55 sks. Class "C" dn. Annulus W/ 3% CACL2, Yield: 1.35cf/sk, Density 14.8 ppg coverage, Surface To 100'.

7.0"	6300'	1		L	340	Prem.	1.44	13.0	5600'	Foamers, N2
7.0"		2		L	840	Interfill "C"	2.47	11.9	Surface	1/4pps Cello,3pps Gilsonite,0.2% Halad 322
7.0"		2		T	100	"C" Neat	1.32	14.8	6000'	N/A