## A. P. D. (cont.) Thirteen Point Surface Use Plan Indian Hills Unit #25

`13-3/8" Conventional centralizers, Bottom 3-joints and every 4<sup>th</sup> joint to surface.

9-5/8" Conventional centralizers middle of 1<sup>st</sup> joint, then every joint to 7500', and 1 cent. Every 4<sup>th</sup> joint thereafter to 1100'.

5.	Mud Pr DEPT FROM 0 1200'	TO 1200' 5000'	MUD TYPE fresh water fresh	WEIGH (PPG) 8.3 8.5	<u>VIS</u> 28 28-32	WL CC N/A N/C	ADDITIVES Gel, Lime Gel, caustic, H <sub>2</sub> S Scavenger	VISUAL MONTR. Reserve Reserve
	1200'	5000'	fresh	8.5	28-32	N/C	Gel, caustic, H₂S Scavenger	Reserve
	5000'	7000'	fresh	8.9	32-36	N/C	Gel, caustic, H₂S Scavenger	Reserve
	7000'	8200'	fresh	8.9	32-36	<20	Gel, caustic, H₂S Scavenger	Steel Pits

Sufficient quantities of additives will be on location to maintain above mud properties for any anticipated well conditions.

## 6. <u>Logging, Testing & Coring Programs</u>:

LOG/TEST/CORE/MUDLOG/OTHER	INTE FROM		REMARKS
DLL/MSFL/GR/CNL/LDT/CAL	TD	5000'	
LDT/CNL/GR/CAL	TD	surf casing	
MUD LOGGER	6000'	TD	ROP, Lithology, Gas Analysis, Chromatograph

NO CORES OR DST'S

## 7. <u>Abnormal Pressures, Temperatures or Potential Hazards</u>:

None anticipated. Possible H<sub>2</sub>S in Cisco & Upper Penn. See H<sub>2</sub>S Drilling Operations Plan.

## 8. Other Information:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 18 days, completion - 10 days.