fill the 5-1/2 casing with cement from 8542' to 8329'. This requires 25 sacks. Be sure the 2-7/8" X 5-1/2" annulus is open before pumping cement.

Plug	Set:
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D	epth		Tagged
Top '	Bottom'	Type Plug*	(yes/no)

8329 8542 CEMENT	NO
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Cement:

Volume of Cement <u>25</u> (sacks) Cement Class* <u>APICLSH</u> API CLASS H temp pkr or Retainer Depth <u>----</u> (ft) Type of Job* <u>P&A</u> P&A

- Pull up in casing to 8329' and and reverse circulate to clear tubing. Circulate 9.5 ppg mud laden fluid to surface. POH w/ workstring.
- 9. RU perforators and perforate 5-1/2" casing at 4949'.

Perforate:

Phas	sing <u>90 degr</u>	ees		
top of	Bottom of		Shots	
Interval	Interval	Spacing	per ft	Total
4949	<u>4950</u>	1	<u>4</u>	8

- 10. POH w/ perf gun. RIH with 1 jnt of tbg, shut pipe rams and pump down the 5-1/2" casing to establish an injection rate into the perforations.
- 11. After establishing injection rate into perfs, RIH w/ workstring to to 4949' and pump the following balanced plug to fill the 5-1/2 X 7-7/8" annulus and the 5-1/2" casing with cement from 4950' to 4800'. This requires 50 sacks, assuming a 70% efficiency in the annulus. Be sure the 5-1/2" X 9-5/8" annulus is open before pumping cement.

Plug Set: ---- Depth ---- Tagged Top' Bottom' Type Plug* (yes/no)

<u>4800 4950 CEMENT NO</u>

Cement:

Volume of Cement <u>50</u> (sacks) Cement Class* <u>APICLSC</u> API CLASS C temp pkr or Retainer Depth <u>----</u> (ft)