KEYSTONE NO. 1 SECTION 32-G, T20S, R28E EDDY COUNTY, NEW MEXICO

-PROCEDURE TO PLUG AND ABANDON

- 1.) MIRU plugging unit. ND wellhead. NU BOP.
- 2.) Release Baker Model "R" pkr., strap out LD pkr.
- 3.) RU wireline. Set CIBP @ 8980'. TIH open-ended w/ 2-3/8" tbg. to PBTD. Circ. hole w/ mud laden fluid (9.5 lb/gal and 35 vis.) Spot 20' Class H cmt. on top of CIBP. TOH.

 * 35'
- 4.) TIH w/ freepoint tools for 4-1/2" l1.6# & l3.5# csg. and obtain freepoint. Then as follows :
 - A.) If freepoint is above 3110', TIH w/ 2-3/8" tbg to PBTD. Spot the following cmt. plugs inside 4-1/2" casing:

	Tbg. Depth	Interval <u>Coverage</u>	Cmt.
PLUG #1	6360'	6260-6360¥25	
PLUG #2	5060'	4960-5060¥25	

PLUG #3

- 8-5/8" casing shoe plug as follows: TOOH w/
tbg. Perf squeeze holes in 4-1/2" csg. @ 3060'.
PU 4-1/2" pkr., TIH to 2860', set pkr. Establish
rate and pressure. Squeeze w/ 50 sks Class H cmt.
w/ 2% CaCl and displace to 2910'. Release pkr.,
TOOH LD pkr. WOC 4 hrs (minimum). TIH and tag top
of cmt. (top of cmt. to be at or above 2960',
respot if necessary). TOOH w/ tbg. Cut 4-1/2"
csg. just above top of cmt. TOOH LD csg. Continue
w/ Step 5.

B. If freepoint is below 3110', spot the following cmt. plugs:

		Interv	al Coverage In :
	Tbg. <u>Depth</u>	Interval 4-1/2" csg Coverage Cmt.	Csg & OH Open Hole Cmt. Cmt.
PLUG #1 PLUG #2	63 60 ' 50 60 '	6260-6360' * 25 10 sk 4960-5060' * 25 10 sk	50 sk 50 sk
PLUG #2A	50' in 4-1/2" stub	50' above & below csg. stub	40 sk
PLUG #3	3060'	2960-3060'	50 sk

NOTE: Plugs #2A & #3 require 4hrs WOC then tagged to insure minimum plug tops of 50' above csg stub and 2960', respectively. Respot if necessary.

5.) Spot the following plugs inside 8-5/8" casing :

	Tbg. <u>Depth</u>	Interval Coverage	Cmt.
PLUG #4 PLUG #5 PLUG #6	2610' 1610' 660'	2510-2510 2510-2610 1510-1610 560-650	40 sk 40 sk 40 sk

6.) Cut csg. 4' below G.L. Spot 10 sk surface plug. Weld plate w/ abandoned well marker on csg. stub. Marker to have a minimum diameter of 4" and extend 4' above G.L. The following is to be welded on the marker:

Kerr-McGee Corporation Keystone No. 1 Sec. 32-G, T20S, R28E 1980' FNL & 1980' FEL

7.) Reclaim location as necessary.

Note: Notify NMOCD at least 24 hrs before operations begin. (M.B. Williams 505-748-1283)

SAK

Stephen A. Krueger February 27, 1991